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SDG Number: L2454059

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Project Name:	CORAM MATERIALS	**Lab Number:**	L2454059
Project Number:	2232.0006Y005	**Report Date:**	10/10/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2454059-01	MW-4S	WATER	416 MILLER PLACE-YAPHANK ROAD	09/19/24 10:25	09/19/24
L2454059-02	MW-4D2	WATER	416 MILLER PLACE-YAPHANK ROAD	09/19/24 09:30	09/19/24
L2454059-03	TRIP BLANK	WATER	416 MILLER PLACE-YAPHANK ROAD	09/19/24 00:00	09/19/24

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission

October 10, 2024: This final report includes the results of all requested analyses.

September 30, 2024: This is a preliminary report.

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

The following analyses were subcontracted: Ammonium, Iodide, Sulfide, Radium 226, Radium 228, Thorium, and Uranium. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

PCBs

The WG1976835-1 Method Blank, associated with L2454059-01 and -02, has a concentration above the reporting limit for Aroclor 1254. Since the associated sample concentrations are non-detect to the RL, no corrective action is required.

Dissolved Metals

The WG1976217-3 MS recovery for sodium (127%), performed on L2454059-01, does not apply because the sample concentration is greater than four times the spike amount added.

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

Authorized Signature: Kelly Stenstrom Report Date: 10/10/24

Title: Technical Director/Representative

DATA PACKAGE GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2454059

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

Received : 19-SEP-2024
Reviewer : Owen Jefferson

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	5.1	
B	Absent/	Ice	2.5	
C	Absent/	Ice	2.8	
D	Absent/	Ice	2.5	

Condition Information

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

Volatile Organics/VPH

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 05:23 pm

Login Number: L2454059

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 19SEP24 Due Date: 17OCT24

Sample #	Client ID	Mat	PR	Collected
L2454059-01	MW-4S	S0	1	19SEP24 10:25

778760558434 $54.10 USD Galbraith, TN 778761244230 $39.44 USD Pace, IN Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg ASP-B Package Due Date: 10/17/24

A2-14-DIOXANESIM-PPB,ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-4500,F-4500,HERB-8151,NYTCL-8081, NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SHIPPING,SO4-4500, SUB-AMMONIUM,SUB-IODIDE,SUB-LEVEL5,SUB-RA226,SUB-RA228,SUB-SULFIDE,SUB-THORIUM,SUB-URANIUM,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI, NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2454059-02	MW-4D2	S0	1	19SEP24 09:30

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Package Due Date: 10/17/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 05:23 pm

Login Number: L2454059

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 19SEP24 Due Date: 17OCT24

Sample #	Client ID	Mat	PR	Collected

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

L2454059-03	TRIP BLANK		1 S0	19SEP24 00:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Package Due Date: 10/17/24

NYTCL-8260

Logged By: Elizabeth Oko

NEW YORK CHAIN OF CUSTODY

L2454059 26SEP24
ROUX – NY

Page 1 of 3

Date Rec'd in Lab 9/20/24

ALPHA ANALYTICAL

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

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

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

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

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

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

Billing Information
☐ Same as Client Info
PO #

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

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

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	8081/8151/8082	NO3/NO2-4500-PPB	TOTALNITROGEN	CI-4500/BR-300	SO4-4500/TPO4-4500	Sample Specific Comments	Total Bottles
54059-01	MW-4S	9/19	1025	AQ	AI	X	X	X	X	X	X	X	X		20
-02	MW-4DR2	9/19	930	AQ	PP	X	X	X	X	X	X	X	X		20
-03	TRIP BLANK	9/19	LAB	AQ	B	X	X	X	X	X	X	X	X	(AI)	2

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

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

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

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	9/19 1430	WIFI Face	9/19 1501
WIFI Face	9/19 1916	Anthony Green	SEP 19 2024 2023
Anthony Green	9/20/24 0145		9/20/24 0145
	9/20/24 0345		9/20/24 0345

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 2 of X3

Date Rec'd in Lab: 9/20/24

ALPHA Job #: L2454059

Client Information

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

Project Information

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

Turn-Around Time

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

Deliverables

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

Regulatory Requirement

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

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Alk-CO3-2320	Alk-HCO3-2320	F-4500	TDS-2540		Sub-Iodide	Sub-sulfide	Sub-Ammonium	Sample Specific Comments	Total Bottle
54059-01	MW-4S	9/19	1025	AQ	AL	X	X	X	X		X	X	X		20
-02	MW-4D	9/19	930	AQ	PP	X	X	X	X		X	X	X		20
-03	TRIP BLANK	9/19	LAB	AQ	B	X	X	X	X		X	X	X		2

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

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

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

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

Container Type										
Preservative										

Relinquished By:	Date/Time	Received By:	Date/Time
	9/19 1630	WIFI Pace	9/19 1501
WIFI Pace	9/19 1910	Anthony Green	SEP 19 2024 2025
Anthony Green	9/20/24 0145		9/20/24 0145
	9/20/24 0345		9/20/24 0345

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL — Member Lab Network

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

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

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

Page 3 of X3

Date Rec'd in Lab 9/20/24

ALPHA Job # L2454059

Client Information

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

Project Information

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

Turn-Around Time

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

Deliverables

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

Regulatory Requirement

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

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	A2-14-DIOXANESIM-PPB	Sub-Uranium	Sub-Thorium	Sub-Ra228	Sub-RA226				Total Bottles
54059-4	MW-45	9/19	1025	AQ	AL	X	X	X	X	X				

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

Sample Specific Comments

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

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

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

Container Type														
Preservative														

Relinquished By:	Date/Time	Received By:	Date/Time
	9/19 1430	WIH Pace	9/19 1501
WIH Pace	9/19 1916	Anthony Green	SEP 19 2024 2028
Anthony Green	9/20/24 0745		9/20/24 0745
	9/20/24 0845		9/20/24 0845

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

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

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

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

Lab Number: L2454059
Project Number: 2232.0006Y005
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-4S (L2454059-01)	101	102	101	106	0
MW-4D2 (L2454059-02)	107	102	100	111	0
TRIP BLANK (L2454059-03)	98	104	99	99	0
WG1976724-3LCS	118	106	98	118	0
WG1976724-4LCSD	115	106	98	116	0
WG1976724-5BLANK	102	103	101	107	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976724-3 Analysis Date : 09/25/24 13:27	**File ID**	: V30240925B02
LCSD Sample ID	: WG1976724-4 Analysis Date : 09/25/24 13:49	**File ID**	: V30240925B03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	10	13	130	10	13	130	0	70-130	20
Chloroform	10	12	120	10	11	110	9	70-130	20
Carbon tetrachloride	10	7.9	79	10	7.4	74	7	63-132	20
1,2-Dichloropropane	10	9.7	97	10	9.6	96	1	70-130	20
Dibromochloromethane	10	8.9	89	10	8.8	88	1	63-130	20
1,1,2-Trichloroethane	10	11	110	10	11	110	0	70-130	20
Tetrachloroethene	10	9.5	95	10	9.2	92	3	70-130	20
Chlorobenzene	10	10	100	10	9.9	99	1	75-130	20
Trichlorofluoromethane	10	12	120	10	11	110	9	62-150	20
1,2-Dichloroethane	10	10	100	10	10	100	0	70-130	20
1,1,1-Trichloroethane	10	7.9	79	10	7.6	76	4	67-130	20
Bromodichloromethane	10	8.6	86	10	8.3	83	4	67-130	20
trans-1,3-Dichloropropene	10	9.6	96	10	9.5	95	1	70-130	20
cis-1,3-Dichloropropene	10	8.6	86	10	8.4	84	2	70-130	20
Bromoform	10	8.9	89	10	8.8	88	1	54-136	20
1,1,2,2-Tetrachloroethane	10	11	110	10	11	110	0	67-130	20
Benzene	10	10	100	10	9.9	99	1	70-130	20
Toluene	10	10	100	10	10	100	0	70-130	20
Ethylbenzene	10	10	100	10	9.9	99	1	70-130	20
Chloromethane	10	10	100	10	10	100	0	64-130	20
Bromomethane	10	6.7	67	10	6.5	65	3	39-139	20
Vinyl chloride	10	12	120	10	12	120	0	55-140	20
Chloroethane	10	11	110	10	11	110	0	55-138	20
1,1-Dichloroethene	10	12	120	10	11	110	9	61-145	20
trans-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2454059
Project Name : CORAM MATERIALS **Project Number** : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1976724-3 **Analysis Date** : 09/25/24 13:27 **File ID** : V30240925B02
LCSD Sample ID : WG1976724-4 **Analysis Date** : 09/25/24 13:49 **File ID** : V30240925B03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	8.8	88	10	8.5	85	3	70-130	20
1,2-Dichlorobenzene	10	9.8	98	10	9.6	96	2	70-130	20
1,3-Dichlorobenzene	10	9.9	99	10	9.7	97	2	70-130	20
1,4-Dichlorobenzene	10	9.9	99	10	9.8	98	1	70-130	20
Methyl tert butyl ether	10	6.5	65	10	6.3	63	3	63-130	20
p/m-Xylene	20	20	100	20	20	100	0	70-130	20
o-Xylene	20	20	100	20	19	95	5	70-130	20
cis-1,2-Dichloroethene	10	11	110	10	10	100	10	70-130	20
Styrene	20	21	105	20	20	100	5	70-130	20
Dichlorodifluoromethane	10	11	110	10	11	110	0	36-147	20
Acetone	10	14	140	10	14	140	0	58-148	20
Carbon disulfide	10	12	120	10	12	120	0	51-130	20
2-Butanone	10	11	110	10	10	100	10	63-138	20
4-Methyl-2-pentanone	10	10	100	10	10	100	0	59-130	20
2-Hexanone	10	11	110	10	11	110	0	57-130	20
Bromochloromethane	10	11	110	10	10	100	10	70-130	20
1,2-Dibromoethane	10	12	120	10	11	110	9	70-130	20
1,2-Dibromo-3-chloropropane	10	11	110	10	11	110	0	41-144	20
Isopropylbenzene	10	9.2	92	10	9.1	91	1	70-130	20
1,2,3-Trichlorobenzene	10	9.0	90	10	8.8	88	2	70-130	20
1,2,4-Trichlorobenzene	10	8.6	86	10	8.5	85	1	70-130	20
Methyl Acetate	10	14	140 Q	10	13	130	7	70-130	20
Cyclohexane	10	8.1	81	10	7.8	78	4	70-130	20
Freon-113	10	9.3	93	10	8.6	86	8	70-130	20
Methyl cyclohexane	10	8.7	87	10	8.4	84	4	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976724-5	**Lab File ID**	: V30240925B05
Instrument ID	: VOA130		
Matrix	: WATER	**Analysis Date**	: 09/25/24 14:33

Client Sample No.	Lab Sample ID	Analysis Date
WG1976724-3LCS	WG1976724-3	09/25/24 13:27
WG1976724-4LCSD	WG1976724-4	09/25/24 13:49
MW-4S	L2454059-01	09/25/24 15:39
MW-4D2	L2454059-02	09/25/24 16:00
TRIP BLANK	L2454059-03	09/25/24 16:22

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA130	**Analysis Date**	: 08/16/24 20:39
Tune Standard	: WG1961896-1	**Tune File ID**	: V30240816NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 80.0% of mass 95	48.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (.8)1
174	Greater than 50.0% of mass 95	79.1
175	5.0 - 9.0% of mass 174	6 (7.6)1
176	Greater than 95.0% but less than 101% of mass	77.6 (98.1)1
177	5.0 - 9.0% of mass 176	5 (6.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1866595-1	V30240816N04	08/16/24 22:06
STD0.5PPB	R1866595-2	V30240816N06	08/16/24 22:49
STD2PPB	R1866595-4	V30240816N08	08/16/24 23:33
STD10PPB	R1866595-3	V30240816N10	08/17/24 00:16
STD30PPB	R1866595-6	V30240816N11	08/17/24 00:38
STD80PPB	R1866595-5	V30240816N12	08/17/24 01:00
STD120PPB	R1866595-7	V30240816N13	08/17/24 01:22
STD200PPB	R1866595-8	V30240816N14	08/17/24 01:44
Correlation Data Summary	R1866595-9	V30240816N19	08/17/24 03:32
ICV Quant Report	R1866595-9	V30240816N19	08/17/24 03:32

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA130	**Analysis Date**	: 09/25/24 12:47
Tune Standard	: WG1976724-1	**Tune File ID**	: V30240925BBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 80.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	72.2
175	5.0 - 9.0% of mass 174	5.3 (7.3)1
176	Greater than 95.0% but less than 101% of mass	69.3 (96)1
177	5.0 - 9.0% of mass 176	4 (5.8)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976724-2CCAL	WG1976724-2	V30240925B02	09/25/24 13:27
WG1976724-3LCS	WG1976724-3	V30240925B02	09/25/24 13:27
WG1976724-4LCSD	WG1976724-4	V30240925B03	09/25/24 13:49
WG1976724-5BLANK	WG1976724-5	V30240925B05	09/25/24 14:33
MW-4S	L2454059-01	V30240925B08	09/25/24 15:39
MW-4D2	L2454059-02	V30240925B09	09/25/24 16:00
TRIP BLANK	L2454059-03	V30240925B10	09/25/24 16:22

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA130	**Analysis Date**	: 09/25/24 13:27:00
Sample No	: WG1976724-2	**Lab File ID**	: V30240925B02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1976724-2	392408	6.10	321701	9.64	181602	12.33
Upper Limit	784816	6.60	643402	10.14	363204	12.83
Lower Limit	196204	5.60	160851	9.14	90801	11.83
Sample ID						
WG1976724-3 LCS	392408	6.10	321701	9.64	181602	12.33
WG1976724-4 LCSD	393114	6.10	320619	9.64	181344	12.33
WG1976724-5 BLANK	369575	6.10	277694	9.64	149352	12.33
MW-4S	350805	6.10	266253	9.64	141703	12.33
MW-4D2	337569	6.10	255137	9.64	134844	12.33
TRIP BLANK	334044	6.09	251603	9.64	136093	12.33

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

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

* Values outside of QC limits

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Volatile Organics - EPA 8260D (WATER)

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

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

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

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Volatile Organics - EPA 8260D (WATER)

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

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

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

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

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

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

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

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

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

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

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 15:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B08	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 15:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B08	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 15:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B08	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 16:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B09	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 16:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B09	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 16:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B09	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-03	**Date Collected**	: 09/19/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 16:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B10	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-03	**Date Collected**	: 09/19/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 16:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B10	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-03	**Date Collected**	: 09/19/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 16:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240925B10	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976724-5	**Date Collected**	: NA
Client ID	: WG1976724-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 14:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V30240925B05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976724-5	**Date Collected**	: NA
Client ID	: WG1976724-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 14:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V30240925B05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976724-5	**Date Collected**	: NA
Client ID	: WG1976724-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 14:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V30240925B05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B08.D
Acq On : 25 Sep 2024 03:39 pm
Operator : VOA130:MJV
Sample : L2454059-01,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 26 09:58:17 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.099	96	350805	10.000	ug/L	0.00
Standard Area 1 = 392408			Recovery = 89.40%			
63) Chlorobenzene-d5	9.644	117	266253	10.000	ug/L	0.00
Standard Area 1 = 321701			Recovery = 82.76%			
84) 1,4-Dichlorobenzene-d4	12.334	152	141703	10.000	ug/L	0.00
Standard Area 1 = 181602			Recovery = 78.03%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.276	113	97200	10.606	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.06%			
47) 1,2-Dichloroethane-d4	5.806	65	88622	10.117	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.17%			
64) Toluene-d8	7.798	98	349788	10.190	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.90%			
88) 4-Bromofluorobenzene	11.128	95	125145	10.073	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.73%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.858	50	190	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.262	94	108	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D. d		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.609	43	696	0.793	ug/L #	67
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.730	43	101	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.109	83	1947	0.191	ug/L #	77
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B08.D
Acq On : 25 Sep 2024 03:39 pm
Operator : VOA130:MJV
Sample : L2454059-01,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 26 09:58:17 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.644	91	459		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

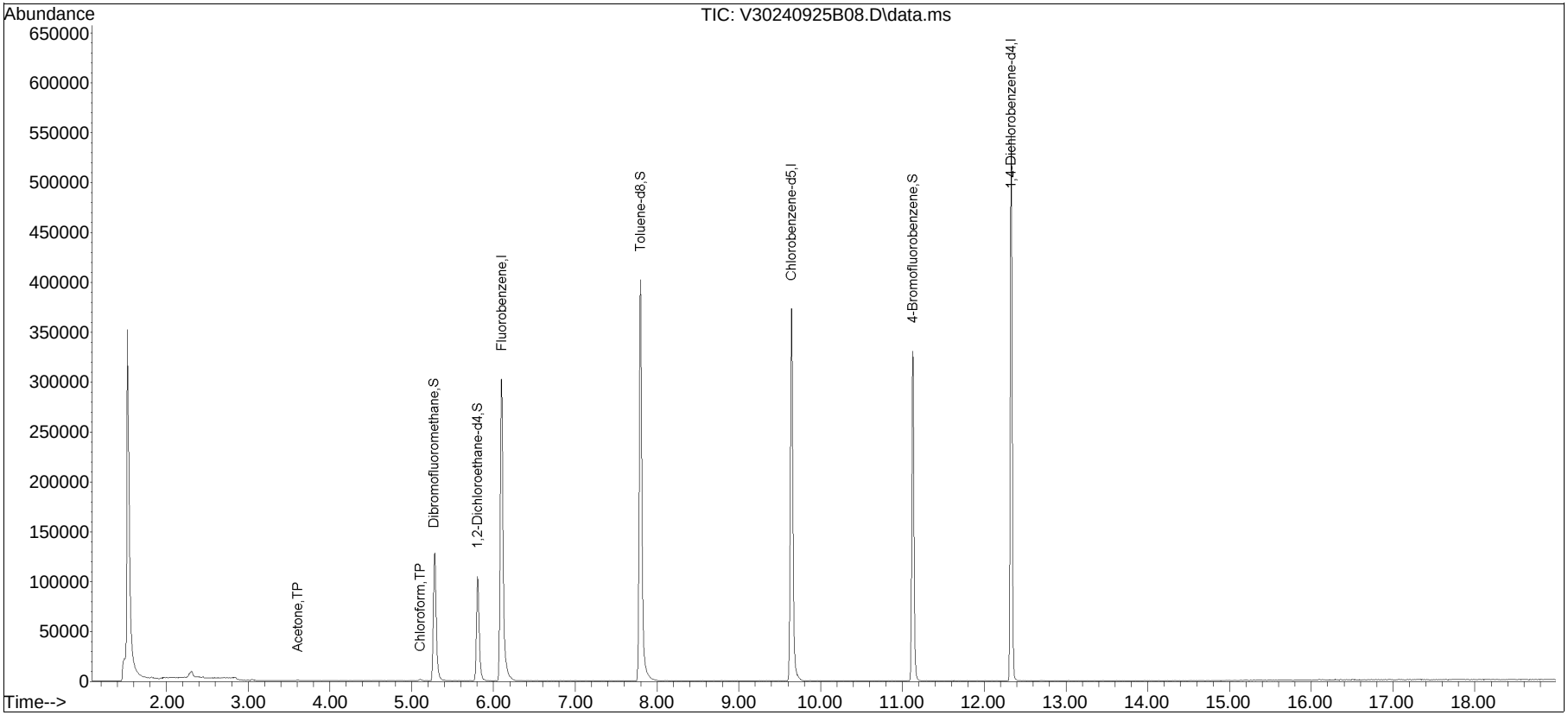
(#) = qualifier out of range (m) = manual integration (+) = signals summed

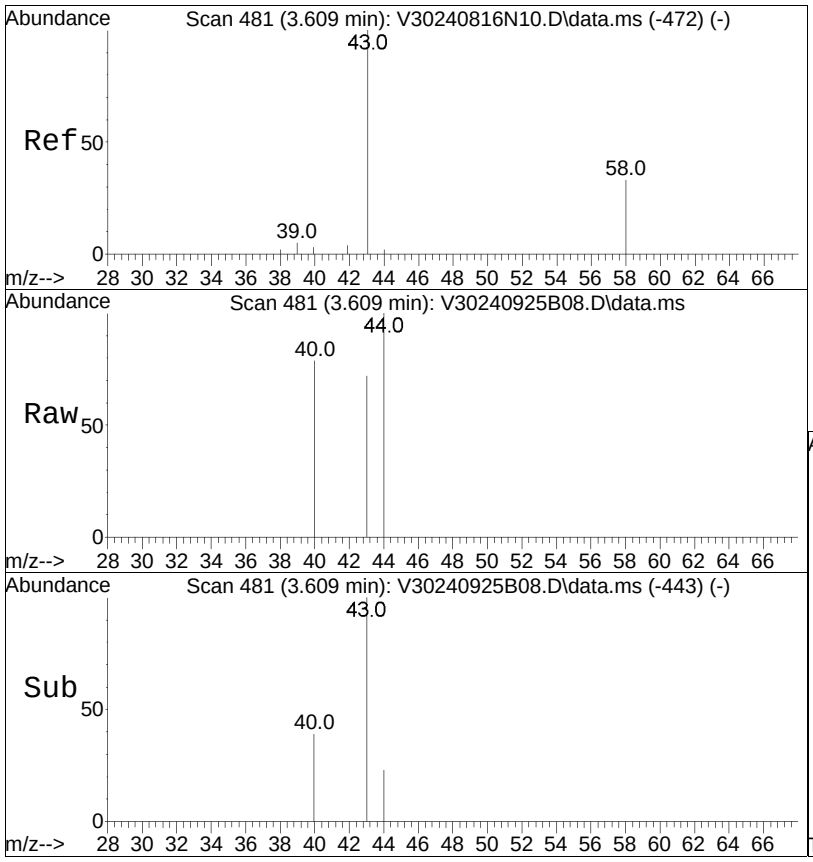
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B08.D
Acq On : 25 Sep 2024 03:39 pm
Operator : VOA130:MJV
Sample : L2454059-01,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 26 09:58:17 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

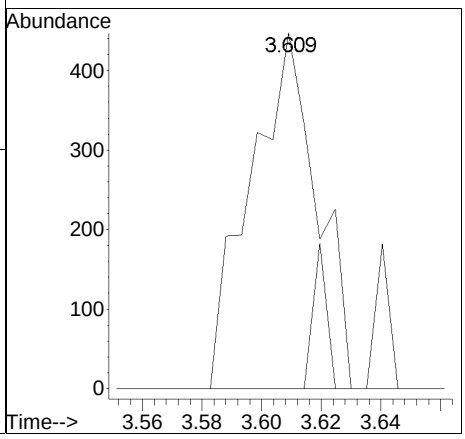


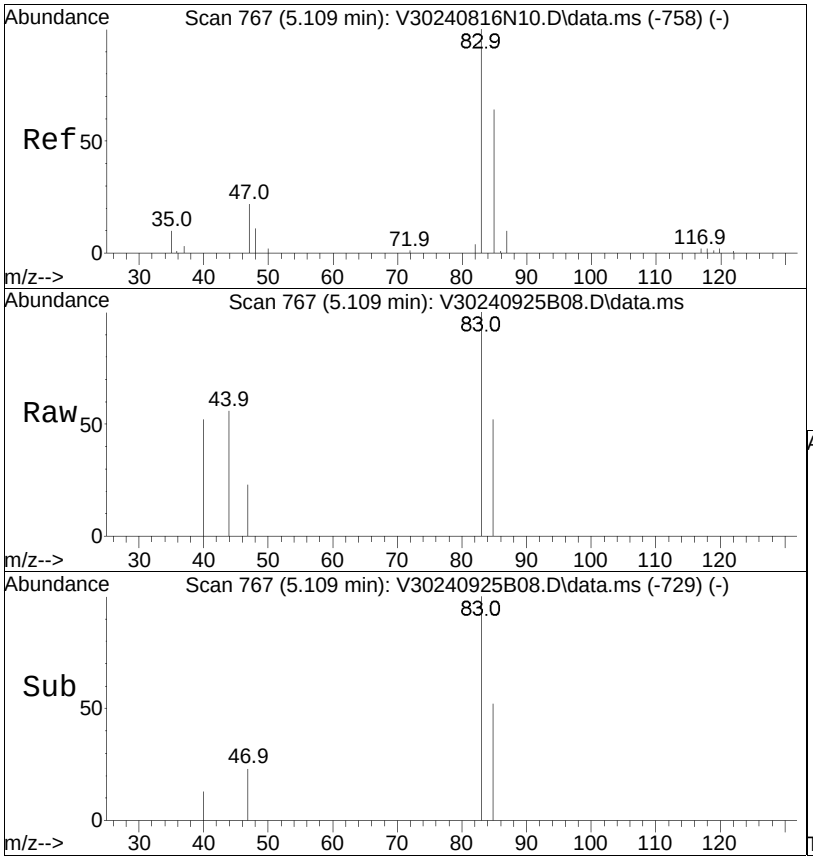


#17
Acetone
Concen: 0.79 ug/L
RT: 3.609 min Scan# 481
Delta R.T. 0.000 min
Lab File: V30240925B08.D
Acq: 25 Sep 2024 03:39 pm

Tgt Ion: 43 Resp: 696

Ion	Ratio	Lower	Upper
43	100		
58	8.3	20.1	30.1#

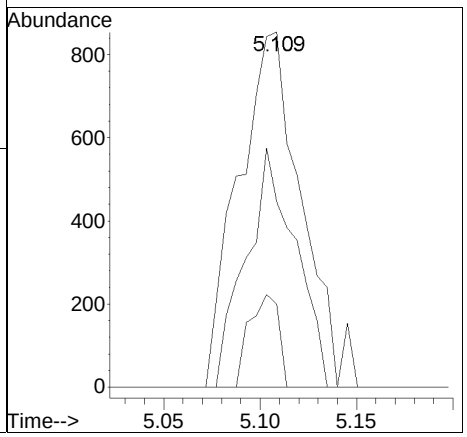




#35
Chloroform
Concen: 0.19 ug/L
RT: 5.109 min Scan# 767
Delta R.T. -0.000 min
Lab File: V30240925B08.D
Acq: 25 Sep 2024 03:39 pm

Tgt Ion: 83 Resp: 1947

Ion	Ratio	Lower	Upper
83	100		
85	52.5	41.4	86.0
47	12.1	20.5	42.5#
48	0.0	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA130\2024\240925B\	QMethod	: V130_240816N_8260D.m
Data File	: V30240925B08.D	Operator	: VOA130:MJV
Date Inj'd	: 9/25/2024 3:39 pm	Instrument	: VOA130
Sample	: L2454059-01,31,10,10,,A	Quant Date	: 9/26/2024 9:45 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B09.D
Acq On : 25 Sep 2024 04:00 pm
Operator : VOA130:MJV
Sample : L2454059-02,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 26 09:58:41 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.099	96	337569	10.000	ug/L	0.00
Standard Area 1 = 392408			Recovery = 86.03%			
63) Chlorobenzene-d5	9.644	117	255137	10.000	ug/L	0.00
Standard Area 1 = 321701			Recovery = 79.31%			
84) 1,4-Dichlorobenzene-d4	12.328	152	134844	10.000	ug/L	0.00
Standard Area 1 = 181602			Recovery = 74.25%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.282	113	98042	11.118	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.18%			
47) 1,2-Dichloroethane-d4	5.806	65	90594	10.748	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.48%			
64) Toluene-d8	7.798	98	334980	10.184	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.84%			
88) 4-Bromofluorobenzene	11.128	95	118773	10.046	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.863	50	198	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.262	94	182	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.	d	
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.740	43	70	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.103	83	3574	0.364	ug/L #	87
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B09.D
Acq On : 25 Sep 2024 04:00 pm
Operator : VOA130:MJV
Sample : L2454059-02,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 26 09:58:41 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	0.000		0	N.D.		
45) Benzene	0.000		0	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	6.220	95	180	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	0.000		0	N.D.		
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	8.307	166	408	0.078	ug/L #	37
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.644	91	380	N.D.		
81) p/m Xylene	0.000		0	N.D.		
82) o Xylene	0.000		0	N.D.		
83) Styrene	0.000		0	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	0.000		0	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	0.000		0	N.D.		
106) 1,4-Dichlorobenzene	0.000		0	N.D.		
109) 1,2-Dichlorobenzene	0.000		0	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

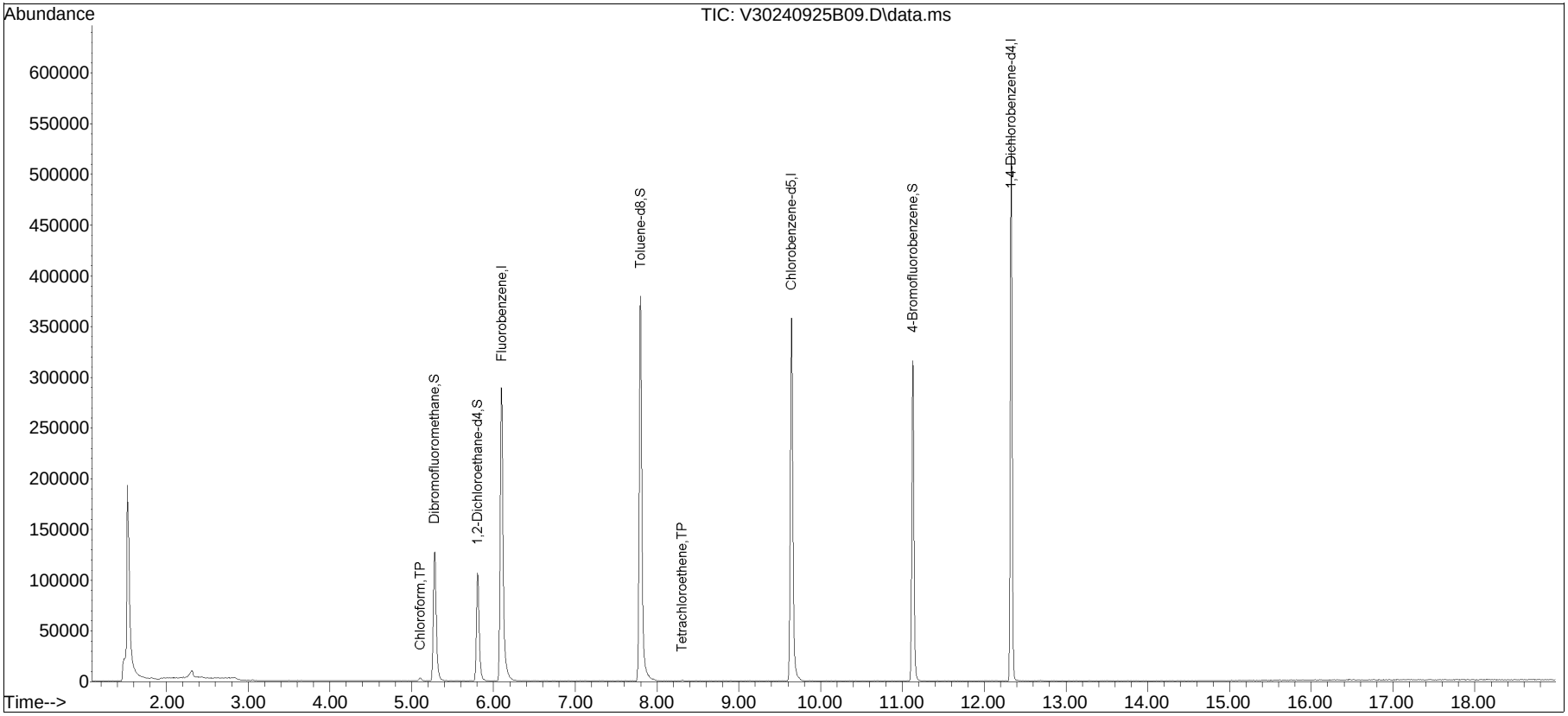
(#) = qualifier out of range (m) = manual integration (+) = signals summed

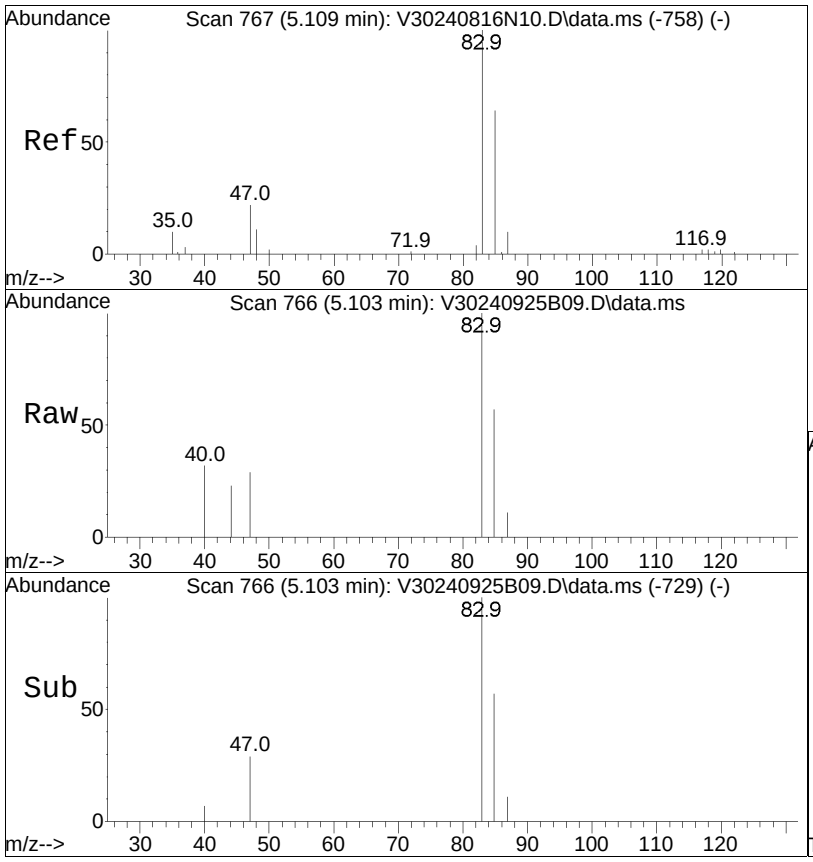
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B09.D
Acq On : 25 Sep 2024 04:00 pm
Operator : VOA130:MJV
Sample : L2454059-02,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 26 09:58:41 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

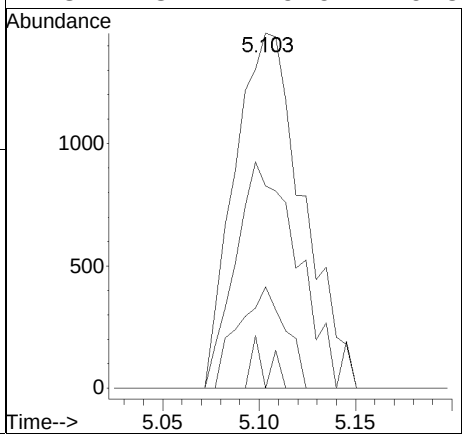


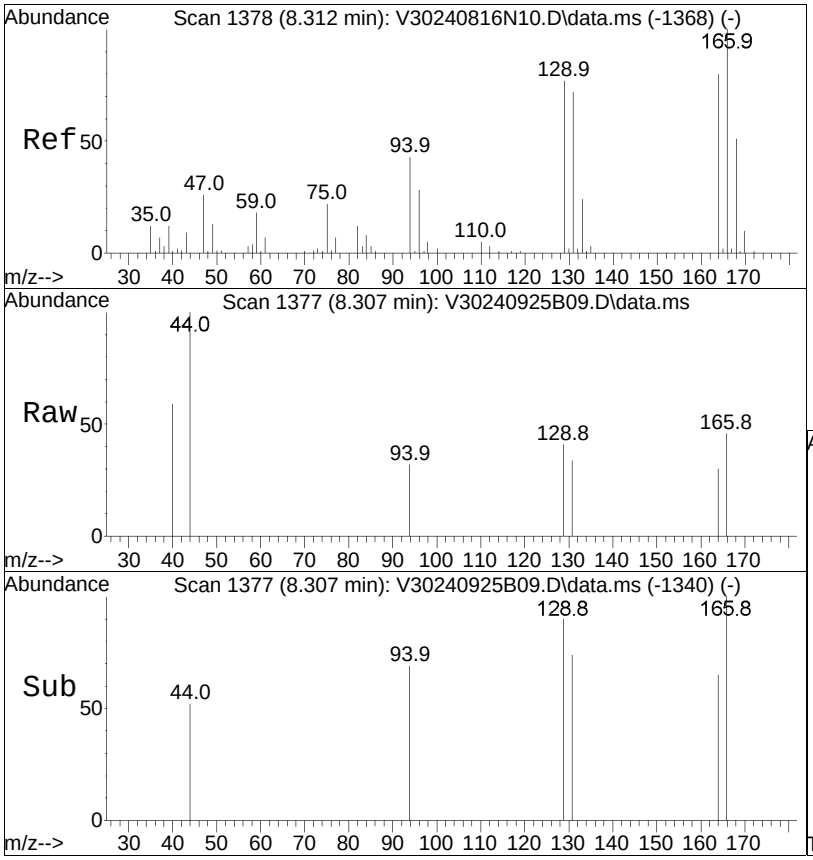


#35
Chloroform
Concen: 0.36 ug/L
RT: 5.103 min Scan# 766
Delta R.T. -0.006 min
Lab File: V30240925B09.D
Acq: 25 Sep 2024 04:00 pm

Tgt Ion: 83 Resp: 3574

Ion	Ratio	Lower	Upper
83	100		
85	59.4	41.4	86.0
47	19.8	20.5	42.5#
48	3.2	9.9	20.5#

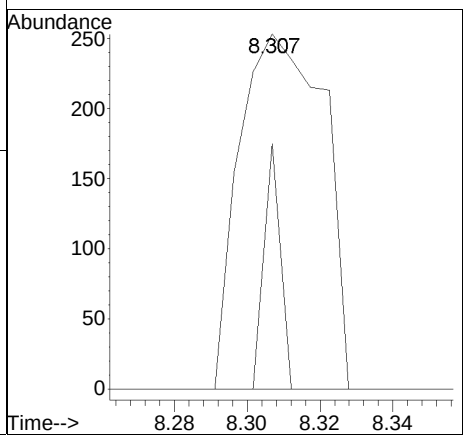




#67
Tetrachloroethene
Concen: 0.08 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. -0.005 min
Lab File: V30240925B09.D
Acq: 25 Sep 2024 04:00 pm

Tgt Ion:166 Resp: 408

Ion	Ratio	Lower	Upper
166	100		
168	0.0	38.6	58.0#
94	13.5	42.6	63.8#



Manual Integration Report

Data Path	: K:\VOA130\2024\240925B\	QMethod	: V130_240816N_8260D.m
Data File	: V30240925B09.D	Operator	: VOA130:MJV
Date Inj'd	: 9/25/2024 4:00 pm	Instrument	: VOA130
Sample	: L2454059-02,31,10,10,,A	Quant Date	: 9/26/2024 9:45 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B10.D
Acq On : 25 Sep 2024 04:22 pm
Operator : VOA130:MJV
Sample : L2454059-03,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 26 09:59:07 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	334044	10.000	ug/L	0.00
Standard Area 1 = 392408			Recovery = 85.13%			
63) Chlorobenzene-d5	9.644	117	251603	10.000	ug/L	0.00
Standard Area 1 = 321701			Recovery = 78.21%			
84) 1,4-Dichlorobenzene-d4	12.334	152	136093	10.000	ug/L	0.00
Standard Area 1 = 181602			Recovery = 74.94%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.282	113	86556	9.919	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.19%			
47) 1,2-Dichloroethane-d4	5.806	65	81758	9.802	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.02%			
64) Toluene-d8	7.798	98	336276	10.367	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.67%			
88) 4-Bromofluorobenzene	11.128	95	117731	9.866	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	1.874	50	99		N.D.	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	2.262	94	124		N.D.	
6) Chloroethane	0.000		0		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
11) Carbon disulfide	3.043	76	1071		N.D.	
12) Freon-113	0.000		0		N.D.	
15) Methylene chloride	3.583	84	48		N.D.	
17) Acetone	0.000		0		N.D.	d
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
19) Methyl acetate	0.000		0		N.D.	d
21) Methyl tert-butyl ether	0.000		0		N.D.	
25) 1,1-Dichloroethane	0.000		0		N.D.	
30) cis-1,2-Dichloroethene	0.000		0		N.D.	
33) Bromochloromethane	0.000		0		N.D.	
34) Cyclohexane	0.000		0		N.D.	
35) Chloroform	0.000		0		N.D.	
37) Carbon tetrachloride	0.000		0		N.D.	

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B10.D
Acq On : 25 Sep 2024 04:22 pm
Operator : VOA130:MJV
Sample : L2454059-03,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 26 09:59:07 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.210	95	144		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	0.000		0		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

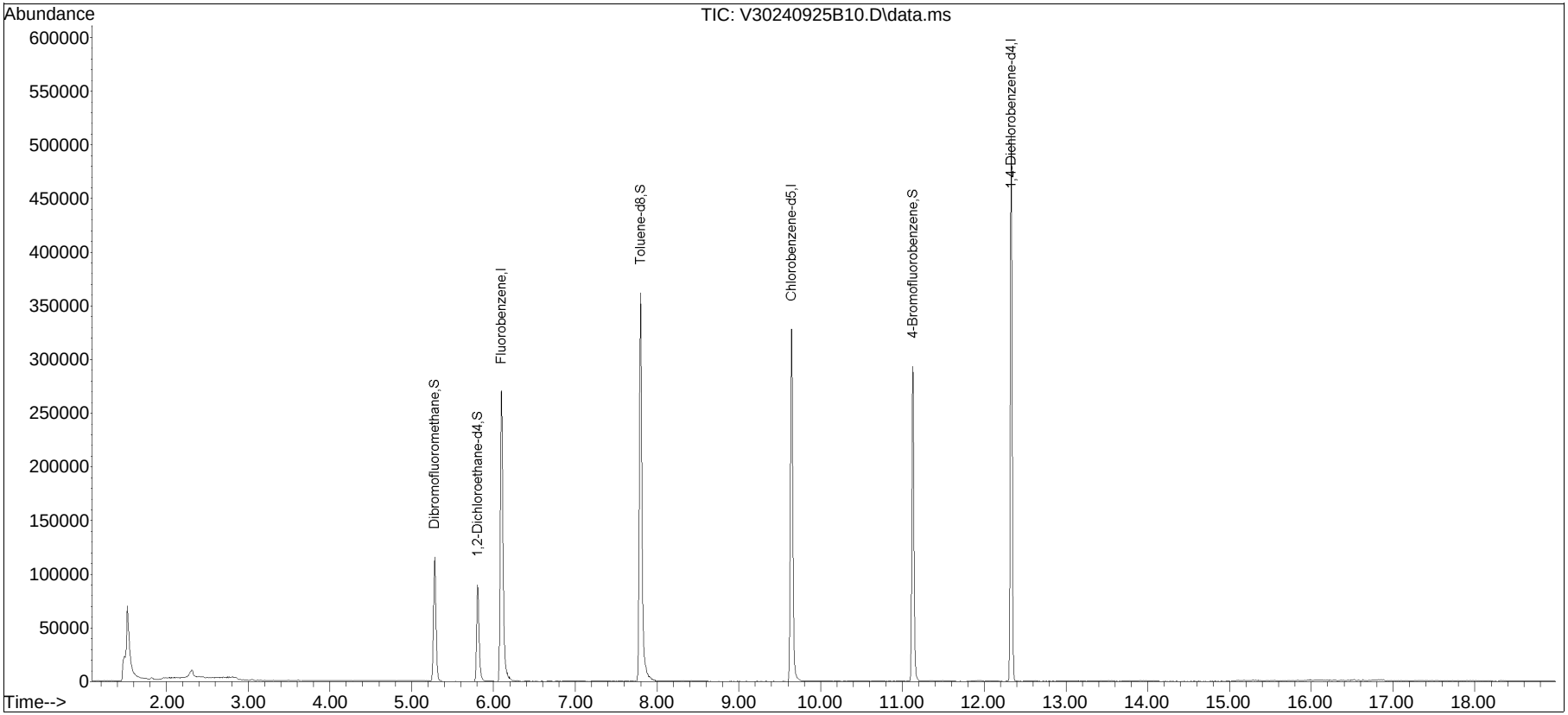
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B10.D
Acq On : 25 Sep 2024 04:22 pm
Operator : VOA130:MJV
Sample : L2454059-03,31,10,10,,A
Misc : WG1976724,ICAL21400
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 26 09:59:07 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA130\2024\240925B\	QMethod	: V130_240816N_8260D.m
Data File	: V30240925B10.D	Operator	: VOA130:MJV
Date Inj'd	: 9/25/2024 4:22 pm	Instrument	: VOA130
Sample	: L2454059-03,31,10,10,,A	Quant Date	: 9/26/2024 9:45 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21400**
Calibration dates	**: 08/16/24 22:06 08/17/24 01:44**		

Calibration Files
L11 =V30240816N04.D L1 =V30240816N06.D L2 =V30240816N08.D L3 =V30240816N10.D L4 =V30240816N11.D
L6 =V30240816N12.D L8 =V30240816N13.D L10 =V30240816N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.175	0.208	0.229	0.252	0.258	0.244	0.250	0.231	13.07
3)	TP	Chloromethane		0.248	0.240	0.243	0.258	0.264	0.245	0.247	0.249	3.46
4)	TP	Vinyl chloride	0.219	0.171	0.203	0.221	0.243	0.250	0.237	0.245	0.224	11.84
5)	TP	Bromomethane		0.142	0.122	0.122	0.136	0.143	0.135	0.139	0.134	6.42
6)	TP	Chloroethane		0.127	0.131	0.139	0.150	0.156	0.145	0.149	0.143	7.51
7)	TP	Trichlorofluor		0.183	0.221	0.242	0.267	0.285	0.271	0.294	0.252	15.60
8)	TP	Ethyl ether		0.058	0.062	0.066	0.073	0.083	0.080	0.086	0.073	15.01
10)	TP	1,1-Dichloroet		0.122	0.139	0.149	0.164	0.169	0.161	0.175	0.154	12.15
11)	TP	Carbon disulfide		0.400	0.428	0.448	0.496	0.528	0.511	0.561	0.482	12.03
12)	TP	Freon-113			0.112	0.132	0.160	0.170	0.159	0.165	0.150	15.19
13)	TP	Iodomethane		0.323	0.230	0.226	0.255	0.280	0.268	0.291	0.268	12.85
14)	TP	Acrolein		0.022	0.020	0.018	0.019	0.020	0.021	0.023	0.020	8.76
15)	TP	Methylene chlo		0.201	0.193	0.195	0.211	0.221	0.207	0.216	0.206	5.17
17)	TP	Acetone			0.027	0.023	0.023	0.025	0.024	0.027	0.025	7.12
18)	TP	trans-1,2-Dich		0.121	0.139	0.154	0.171	0.178	0.167	0.181	0.159	13.95
19)	TP	Methyl acetate		0.061	0.054	0.054	0.053	0.058	0.057	0.063	0.057	6.42
21)	TP	Methyl tert butyl ether		0.296	0.305	0.299	0.302	0.347	0.350	0.395	0.328	11.40
22)	TP	tert-Butyl alc		0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.006#	12.64
24)	TP	Diisopropyl ether		0.354	0.373	0.416	0.448	0.441	0.394	0.395	0.403	8.55
25)	TP	1,1-Dichloroet		0.250	0.275	0.290	0.315	0.325	0.303	0.335	0.299#	10.05
26)	TP	Halothane			0.083	0.095	0.118	0.139	0.131	0.135	0.117	19.77
27)	TP	Acrylonitrile		0.028	0.034	0.034	0.036	0.039	0.039	0.044	0.036	13.69
28)	TP	Ethyl tert-but		0.349	0.355	0.388	0.409	0.405	0.374	0.394	0.382	6.13
29)	TP	Vinyl acetate		0.263	0.226	0.220	0.238	0.259	0.257	0.277	0.249	8.45
30)	TP	cis-1,2-Dichlo		0.160	0.167	0.175	0.198	0.206	0.192	0.205	0.186#	9.97
31)	TP	2,2-Dichloropr		0.180	0.184	0.209	0.248	0.269	0.254	0.260	0.229	16.33
33)	TP	Bromochloromet		0.075	0.079	0.083	0.091	0.097	0.092	0.102	0.089#	10.87
34)	TP	Cyclohexane		0.172	0.199	0.216	0.252	0.285	0.273	0.285	0.240	18.73
35)	TP	Chloroform		0.242	0.263	0.276	0.315	0.325	0.302	0.315	0.291#	10.79
36)	TP	Ethyl acetate		0.086	0.086	0.077	0.074	0.079	0.077	0.084	0.081	6.10
37)	TP	Carbon tetrachloride		0.125	0.146	0.166	0.201	0.238	0.230		*Q	0.9971
38)	TP	Tetrahydrofuran		0.033	0.028	0.023	0.023	0.025	0.025	0.028	0.027	13.60
39)	S	Dibromofluoromethane	0.240	0.240	0.240	0.246	0.258	0.277	0.287	0.303	0.261	9.46
40)	TP	1,1,1-Trichlor		0.158	0.186	0.207	0.244	0.277	0.261	0.275	*Q	0.9985
42)	TP	2-Butanone		0.050	0.040	0.035	0.033	0.034	0.034	0.037	0.038	15.52

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21400**
Calibration dates	**: 08/16/24 22:06 08/17/24 01:44**		

Calibration Files
L11 =V30240816N04.D L1 =V30240816N06.D L2 =V30240816N08.D L3 =V30240816N10.D L4 =V30240816N11.D
L6 =V30240816N12.D L8 =V30240816N13.D L10 =V30240816N14.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
43) TP	1,1-Dichloropr		0.151	0.177	0.188	0.203	0.224	0.215	0.231	0.198	14.22
45) TP	Benzene	0.695	0.575	0.607	0.626	0.648	0.648	0.599	0.632	0.629	5.82
46) TP	Tertiary-Amyl Methyl Ether		0.323	0.342	0.358	0.379	0.377	0.346	0.348	0.353	5.64
47) S	1,2-Dichloroethane-d4	0.222	0.225	0.229	0.242	0.242	0.265	0.280	0.292	0.250	10.67
48) TP	1,2-Dichloroet		0.152	0.158	0.170	0.187	0.203	0.193	0.203	0.181	11.54
51) TP	Methyl cyclohe		0.184	0.222	0.244	0.276	0.283	0.262	0.269	0.249	14.17
52) TP	Trichloroethene	0.179	0.152	0.155	0.162	0.170	0.178	0.166	0.180	0.168#	6.47
54) TP	Dibromomethane		0.069	0.078	0.082	0.087	0.095	0.092	0.101	0.086	12.50
55) TP	1,2-Dichloropr		0.118	0.136	0.140	0.148	0.163	0.155	0.168	0.147#	11.73
57) TP	2-Chloroethyl		0.073	0.081	0.090	0.095	0.093	0.088	0.086	0.087	8.84
58) TP	Bromodichlorom		0.170	0.166	0.176	0.197	0.232	0.225	0.242	0.201#	15.90
61) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	7.61
62) TP	cis-1,3-Dichlo		0.179	0.199	0.217	0.233	0.255	0.244	0.265	0.227#	13.57
63) I	Chlorobenzene-d5	----------ISTD----------									
64) S	Toluene-d8	1.335	1.348	1.330	1.333	1.296	1.261	1.219	1.192	1.289	4.57
65) TP	Toluene		0.486	0.531	0.557	0.573	0.536	0.471	0.474	0.518	7.94
66) TP	4-Methyl-2-pen			0.038	0.045	0.046	0.045	0.041	0.042	0.043	6.82
67) TP	Tetrachloroethene		0.184	0.213	0.221	0.227	0.212	0.189	0.193	0.206	8.13
69) TP	trans-1,3-Dich		0.202	0.215	0.235	0.241	0.240	0.222	0.241	0.228#	6.64
71) TP	Ethyl methacry		0.155	0.186	0.211	0.219	0.213	0.196	0.198	0.197	10.98
72) TP	1,1,2-Trichlor		0.119	0.120	0.123	0.118	0.113	0.105	0.114	0.116#	5.26
73) TP	Chlorodibromom		0.150	0.151	0.156	0.160	0.164	0.157	0.177	0.159#	5.70
74) TP	1,3-Dichloropr		0.230	0.250	0.253	0.242	0.233	0.217	0.235	0.237	5.24
75) TP	1,2-Dibromoethane		0.125	0.122	0.117	0.110	0.111	0.106	0.122	0.116#	6.37
77) TP	2-Hexanone		0.061	0.069	0.070	0.075	0.073	0.069	0.070	0.070	6.47
78) T	Chlorobenzene		0.545	0.570	0.600	0.623	0.601	0.535	0.554	0.575	5.79
79) TP	Ethylbenzene		0.851	0.930	1.007	1.069	1.041	0.941	0.977	0.974	7.60
80) T	1,1,1,2-Tetrac		0.150	0.159	0.166	0.177	0.174	0.157	0.171	0.165	6.04
81) TP	p/m Xylene		0.348	0.377	0.399	0.419	0.410	0.372	0.392	0.388	6.29
82) TP	o Xylene		0.346	0.363	0.381	0.400	0.391	0.358	0.380	0.374	5.14
83) TP	Styrene		0.547	0.597	0.639	0.672	0.659	0.593	0.612	0.617	6.99
84) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85) TP	Bromoform		0.158	0.173	0.179	0.184	0.175	0.161	0.171	0.172	5.40
87) TP	Isopropylbenzene		1.447	1.665	1.821	1.897	1.731	1.545	1.587	1.670	9.47
88) S	4-Bromofluorobenzene	0.890	0.885	0.888	0.899	0.892	0.856	0.849	0.855	0.877	2.25
89) TP	Bromobenzene		0.401	0.431	0.466	0.485	0.451	0.404	0.420	0.437	7.29

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21400**
Calibration dates	**: 08/16/24 22:06 08/17/24 01:44**		

Calibration Files
L11 =V30240816N04.D L1 =V30240816N06.D L2 =V30240816N08.D L3 =V30240816N10.D L4 =V30240816N11.D
L6 =V30240816N12.D L8 =V30240816N13.D L10 =V30240816N14.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
90) TP	n-Propylbenzene		1.767	2.008	2.199	2.259	2.092	1.873	1.867	2.009	9.16
91) TP	1,4-Dichlorobu		0.447	0.444	0.473	0.455	0.407	0.371	0.382	0.425	9.17
92) TP	1,1,2,2-Tetrac		0.284	0.289	0.318	0.322	0.303	0.283	0.294	0.299	5.28
93) TP	4-Ethyltoluene		1.447	1.657	1.819	1.897	1.779	1.601	1.619	1.688	9.07
94) TP	2-Chlorotoluene		1.163	1.266	1.339	1.404	1.286	1.123	1.152	1.248	8.43
95) TP	1,3,5-Trimethy		1.267	1.420	1.576	1.694	1.622	1.452	1.446	1.496	9.60
96) TP	1,2,3-Trichlor		0.260	0.252	0.273	0.255	0.224	0.206	0.219	0.241	10.23
97) TP	trans-1,4-Dich		0.064	0.075	0.076	0.070	0.069	0.067	0.075	0.071	6.44
98) TP	4-Chlorotoluene		1.210	1.323	1.389	1.450	1.351	1.206	1.234	1.309	7.24
99) TP	tert-Butylbenzene		1.099	1.241	1.324	1.365	1.249	1.129	1.151	1.223	8.24
102) TP	1,2,4-Trimethy		1.151	1.328	1.508	1.637	1.607	1.446	1.442	1.446	11.56
103) TP	sec-Butylbenzene		1.490	1.761	1.934	1.980	1.824	1.657	1.643	1.756	9.87
104) TP	p-Isopropyltol		1.273	1.476	1.643	1.718	1.648	1.492	1.474	1.532	9.82
105) TP	1,3-Dichlorobe		0.811	0.843	0.896	0.934	0.890	0.805	0.829	0.858	5.70
106) TP	1,4-Dichlorobe		0.803	0.862	0.907	0.938	0.902	0.816	0.833	0.866	5.90
107) TP	p-Diethylbenzene		0.721	0.800	0.912	0.982	0.995	0.909	0.929	0.893	11.05
108) TP	n-Butylbenzene		1.002	1.185	1.331	1.433	1.417	1.283	1.265	1.274	11.60
109) TP	1,2-Dichlorobe		0.764	0.808	0.849	0.878	0.837	0.767	0.784	0.813	5.40
110) TP	1,2,4,5-Tetram		1.125	1.232	1.349	1.497	1.534	1.392	1.403	1.362	10.54
111) TP	1,2-Dibromo-3-		0.032	0.045	0.046	0.042	0.043	0.042	0.045	0.042	11.31
112) TP	1,3,5-Trichlor		0.500	0.550	0.602	0.660	0.671	0.605	0.627	0.602	10.04
113) TP	Hexachlorobuta		0.172	0.193	0.210	0.228	0.229	0.206	0.208	0.207	9.58
114) TP	1,2,4-Trichlor		0.465	0.521	0.556	0.594	0.588	0.532	0.553	0.544	8.10
115) TP	Naphthalene		1.090	1.159	1.225	1.216	1.148	1.067	1.087	1.142	5.54
116) TP	1,2,3-Trichlor		0.470	0.497	0.538	0.553	0.533	0.484	0.499	0.510	6.05

Response Factor Report VOA130

Method Path : K:\VOA130\2024\240816NICAL\
Method File : V130_240816N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Aug 21 06:44:30 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240816N04.D L1 =V30240816N06.D L2 =V30240816N08.D L3 =V30240816N10.D L4 =V30240816N11.D
L6 =V30240816N12.D L8 =V30240816N13.D L10 =V30240816N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------	----------	----------		
2)	TP	Dichlorodifluo...		0.175	0.208	0.229	0.252	0.258	0.244	0.250	0.231	13.07
3)	TP	Chloromethane		0.248	0.240	0.243	0.258	0.264	0.245	0.247	0.249	3.46
4)	TP	Vinyl chloride	0.219	0.171	0.203	0.221	0.243	0.250	0.237	0.245	0.224	11.84
5)	TP	Bromomethane		0.142	0.122	0.122	0.136	0.143	0.135	0.139	0.134	6.42
6)	TP	Chloroethane		0.127	0.131	0.139	0.150	0.156	0.145	0.149	0.143	7.51
7)	TP	Trichlorofluor...		0.183	0.221	0.242	0.267	0.285	0.271	0.294	0.252	15.60
8)	TP	Ethyl ether		0.058	0.062	0.066	0.073	0.083	0.080	0.086	0.073	15.01
10)	TP	1,1-Dichloroet...		0.122	0.139	0.149	0.164	0.169	0.161	0.175	0.154	12.15
11)	TP	Carbon disulfide		0.400	0.428	0.448	0.496	0.528	0.511	0.561	0.482	12.03
12)	TP	Freon-113			0.112	0.132	0.160	0.170	0.159	0.165	0.150	15.19
13)	TP	Iodomethane		0.323	0.230	0.226	0.255	0.280	0.268	0.291	0.268	12.85
14)	TP	Acrolein		0.022	0.020	0.018	0.019	0.020	0.021	0.023	0.020	8.76
15)	TP	Methylene chlo...		0.201	0.193	0.195	0.211	0.221	0.207	0.216	0.206	5.17
17)	TP	Acetone			0.027	0.023	0.023	0.025	0.024	0.027	0.025	7.12
18)	TP	trans-1,2-Dich...		0.121	0.139	0.154	0.171	0.178	0.167	0.181	0.159	13.95
19)	TP	Methyl acetate		0.061	0.054	0.054	0.053	0.058	0.057	0.063	0.057	6.42
21)	TP	Methyl tert-bu...		0.296	0.305	0.299	0.302	0.347	0.350	0.395	0.328	11.40
22)	TP	tert-Butyl alc...		0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.006#	12.64
24)	TP	Diisopropyl ether		0.354	0.373	0.416	0.448	0.441	0.394	0.395	0.403	8.55
25)	TP	1,1-Dichloroet...		0.250	0.275	0.290	0.315	0.325	0.303	0.335	0.299#	10.05
26)	TP	Halothane			0.083	0.095	0.118	0.139	0.131	0.135	0.117	19.77
27)	TP	Acrylonitrile		0.028	0.034	0.034	0.036	0.039	0.039	0.044	0.036	13.69
28)	TP	Ethyl tert-but...		0.349	0.355	0.388	0.409	0.405	0.374	0.394	0.382	6.13
29)	TP	Vinyl acetate		0.263	0.226	0.220	0.238	0.259	0.257	0.277	0.249	8.45
30)	TP	cis-1,2-Dichlo...		0.160	0.167	0.175	0.198	0.206	0.192	0.205	0.186#	9.97
31)	TP	2,2-Dichloropr...		0.180	0.184	0.209	0.248	0.269	0.254	0.260	0.229	16.33
33)	TP	Bromochloromet...		0.075	0.079	0.083	0.091	0.097	0.092	0.102	0.089#	10.87
34)	TP	Cyclohexane		0.172	0.199	0.216	0.252	0.285	0.273	0.285	0.240	18.73
35)	TP	Chloroform		0.242	0.263	0.276	0.315	0.325	0.302	0.315	0.291#	10.79
36)	TP	Ethyl acetate		0.086	0.086	0.077	0.074	0.079	0.077	0.084	0.081	6.10

Response Factor Report VOA130

Method Path : K:\VOA130\2024\240816NICAL\
Method File : V130_240816N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Aug 21 06:44:30 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240816N04.D L1 =V30240816N06.D L2 =V30240816N08.D L3 =V30240816N10.D L4 =V30240816N11.D
L6 =V30240816N12.D L8 =V30240816N13.D L10 =V30240816N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
37)	TP	Carbon tetrach...		0.125	0.146	0.166	0.201	0.238	0.230	*Q		0.9971
38)	TP	Tetrahydrofuran		0.033	0.028	0.023	0.023	0.025	0.025	0.028	0.027	13.60
39)	S	Dibromofluorom...	0.240	0.240	0.240	0.246	0.258	0.277	0.287	0.303	0.261	9.46
40)	TP	1,1,1-Trichlor...		0.158	0.186	0.207	0.244	0.277	0.261	0.275	*Q	0.9985
42)	TP	2-Butanone		0.050	0.040	0.035	0.033	0.034	0.034	0.037	0.038	15.52
43)	TP	1,1-Dichloropr...		0.151	0.177	0.188	0.203	0.224	0.215	0.231	0.198	14.22
45)	TP	Benzene	0.695	0.575	0.607	0.626	0.648	0.648	0.599	0.632	0.629	5.82
46)	TP	tert-Amyl meth...		0.323	0.342	0.358	0.379	0.377	0.346	0.348	0.353	5.64
47)	S	1,2-Dichloroet...	0.222	0.225	0.229	0.242	0.242	0.265	0.280	0.292	0.250	10.67
48)	TP	1,2-Dichloroet...		0.152	0.158	0.170	0.187	0.203	0.193	0.203	0.181	11.54
51)	TP	Methyl cyclohe...		0.184	0.222	0.244	0.276	0.283	0.262	0.269	0.249	14.17
52)	TP	Trichloroethene	0.179	0.152	0.155	0.162	0.170	0.178	0.166	0.180	0.168#	6.47
54)	TP	Dibromomethane		0.069	0.078	0.082	0.087	0.095	0.092	0.101	0.086	12.50
55)	TP	1,2-Dichloropr...		0.118	0.136	0.140	0.148	0.163	0.155	0.168	0.147#	11.73
57)	TP	2-Chloroethyl ...		0.073	0.081	0.090	0.095	0.093	0.088	0.086	0.087	8.84
58)	TP	Bromodichlorom...		0.170	0.166	0.176	0.197	0.232	0.225	0.242	0.201#	15.90
61)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	7.61
62)	TP	cis-1,3-Dichlo...		0.179	0.199	0.217	0.233	0.255	0.244	0.265	0.227#	13.57
63)	I	Chlorobenzene-d5	----------ISTD----------									
64)	S	Toluene-d8	1.335	1.348	1.330	1.333	1.296	1.261	1.219	1.192	1.289	4.57
65)	TP	Toluene		0.486	0.531	0.557	0.573	0.536	0.471	0.474	0.518	7.94
66)	TP	4-Methyl-2-pen...			0.038	0.045	0.046	0.045	0.041	0.042	0.043	6.82
67)	TP	Tetrachloroethene		0.184	0.213	0.221	0.227	0.212	0.189	0.193	0.206	8.13
69)	TP	trans-1,3-Dich...		0.202	0.215	0.235	0.241	0.240	0.222	0.241	0.228#	6.64
71)	TP	Ethyl methacry...		0.155	0.186	0.211	0.219	0.213	0.196	0.198	0.197	10.98
72)	TP	1,1,2-Trichlor...		0.119	0.120	0.123	0.118	0.113	0.105	0.114	0.116#	5.26
73)	TP	Chlorodibromom...		0.150	0.151	0.156	0.160	0.164	0.157	0.177	0.159#	5.70
74)	TP	1,3-Dichloropr...		0.230	0.250	0.253	0.242	0.233	0.217	0.235	0.237	5.24
75)	TP	1,2-Dibromoethane		0.125	0.122	0.117	0.110	0.111	0.106	0.122	0.116#	6.37
77)	TP	2-Hexanone		0.061	0.069	0.070	0.075	0.073	0.069	0.070	0.070	6.47
78)	T	Chlorobenzene		0.545	0.570	0.600	0.623	0.601	0.535	0.554	0.575	5.79

Method Path : K:\VOA130\2024\240816NICAL\
Method File : V130_240816N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Aug 21 06:44:30 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240816N04.D L1 =V30240816N06.D L2 =V30240816N08.D L3 =V30240816N10.D L4 =V30240816N11.D
L6 =V30240816N12.D L8 =V30240816N13.D L10 =V30240816N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
79)	TP	Ethylbenzene		0.851	0.930	1.007	1.069	1.041	0.941	0.977	0.974	7.60
80)	T	1,1,1,2-Tetrac...		0.150	0.159	0.166	0.177	0.174	0.157	0.171	0.165	6.04
81)	TP	p/m Xylene		0.348	0.377	0.399	0.419	0.410	0.372	0.392	0.388	6.29
82)	TP	o Xylene		0.346	0.363	0.381	0.400	0.391	0.358	0.380	0.374	5.14
83)	TP	Styrene		0.547	0.597	0.639	0.672	0.659	0.593	0.612	0.617	6.99
84)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85)	TP	Bromoform		0.158	0.173	0.179	0.184	0.175	0.161	0.171	0.172	5.40
87)	TP	Isopropylbenzene		1.447	1.665	1.821	1.897	1.731	1.545	1.587	1.670	9.47
88)	S	4-Bromofluorob...	0.890	0.885	0.888	0.899	0.892	0.856	0.849	0.855	0.877	2.25
89)	TP	Bromobenzene		0.401	0.431	0.466	0.485	0.451	0.404	0.420	0.437	7.29
90)	TP	n-Propylbenzene		1.767	2.008	2.199	2.259	2.092	1.873	1.867	2.009	9.16
91)	TP	1,4-Dichlorobu...		0.447	0.444	0.473	0.455	0.407	0.371	0.382	0.425	9.17
92)	TP	1,1,2,2-Tetrac...		0.284	0.289	0.318	0.322	0.303	0.283	0.294	0.299	5.28
93)	TP	4-Ethyltoluene		1.447	1.657	1.819	1.897	1.779	1.601	1.619	1.688	9.07
94)	TP	2-Chlorotoluene		1.163	1.266	1.339	1.404	1.286	1.123	1.152	1.248	8.43
95)	TP	1,3,5-Trimethy...		1.267	1.420	1.576	1.694	1.622	1.452	1.446	1.496	9.60
96)	TP	1,2,3-Trichlor...		0.260	0.252	0.273	0.255	0.224	0.206	0.219	0.241	10.23
97)	TP	trans-1,4-Dich...		0.064	0.075	0.076	0.070	0.069	0.067	0.075	0.071	6.44
98)	TP	4-Chlorotoluene		1.210	1.323	1.389	1.450	1.351	1.206	1.234	1.309	7.24
99)	TP	tert-Butylbenzene		1.099	1.241	1.324	1.365	1.249	1.129	1.151	1.223	8.24
102)	TP	1,2,4-Trimethy...		1.151	1.328	1.508	1.637	1.607	1.446	1.442	1.446	11.56
103)	TP	sec-Butylbenzene		1.490	1.761	1.934	1.980	1.824	1.657	1.643	1.756	9.87
104)	TP	p-Isopropyltol...		1.273	1.476	1.643	1.718	1.648	1.492	1.474	1.532	9.82
105)	TP	1,3-Dichlorobe...		0.811	0.843	0.896	0.934	0.890	0.805	0.829	0.858	5.70
106)	TP	1,4-Dichlorobe...		0.803	0.862	0.907	0.938	0.902	0.816	0.833	0.866	5.90
107)	TP	p-Diethylbenzene		0.721	0.800	0.912	0.982	0.995	0.909	0.929	0.893	11.05
108)	TP	n-Butylbenzene		1.002	1.185	1.331	1.433	1.417	1.283	1.265	1.274	11.60
109)	TP	1,2-Dichlorobe...		0.764	0.808	0.849	0.878	0.837	0.767	0.784	0.813	5.40
110)	TP	1,2,4,5-Tetram...		1.125	1.232	1.349	1.497	1.534	1.392	1.403	1.362	10.54
111)	TP	1,2-Dibromo-3-...		0.032	0.045	0.046	0.042	0.043	0.042	0.045	0.042	11.31
112)	TP	1,3,5-Trichlor...		0.500	0.550	0.602	0.660	0.671	0.605	0.627	0.602	10.04

Method Path : K:\VOA130\2024\240816NICAL\
Method File : V130_240816N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Aug 21 06:44:30 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240816N04.D L1 =V30240816N06.D L2 =V30240816N08.D L3 =V30240816N10.D L4 =V30240816N11.D
L6 =V30240816N12.D L8 =V30240816N13.D L10 =V30240816N14.D

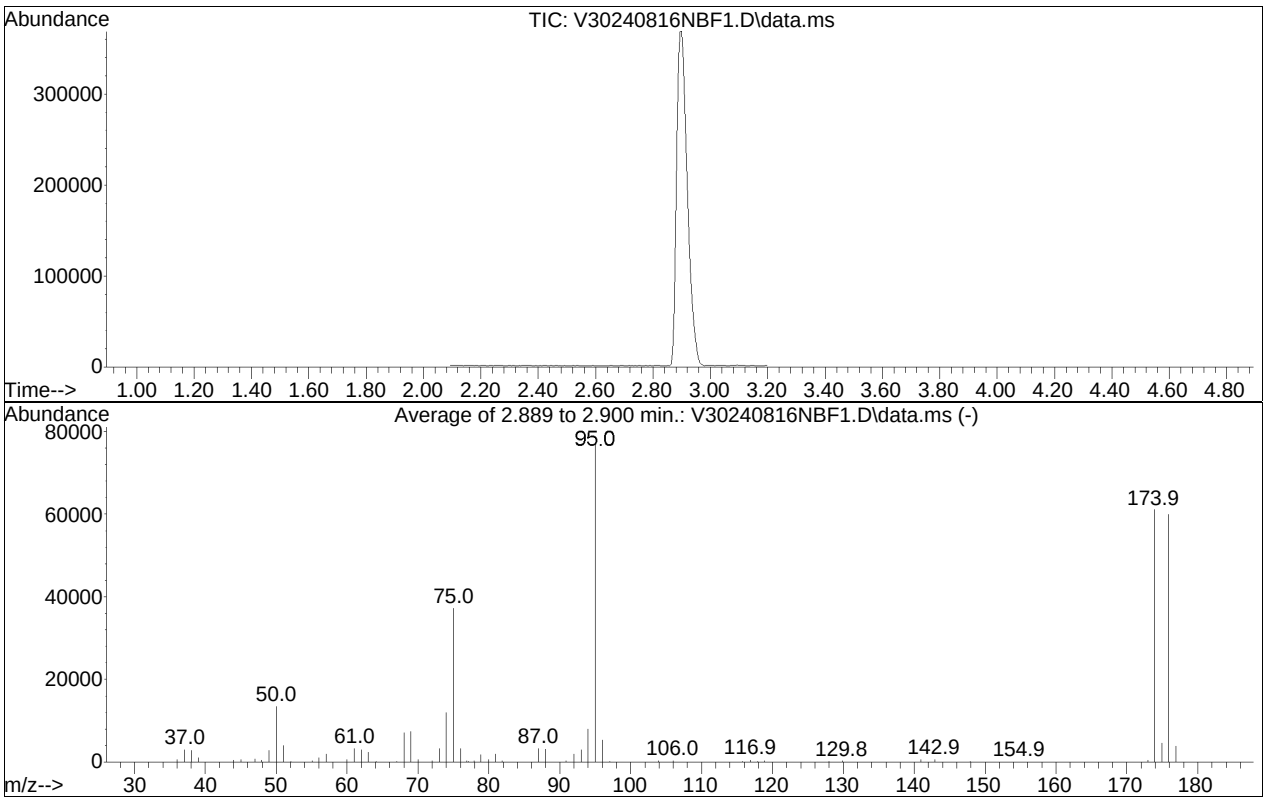
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
113) TP	Hexachlorobuta...	0.172	0.193	0.210	0.228	0.229	0.206	0.208	0.207		9.58
114) TP	1,2,4-Trichlor...	0.465	0.521	0.556	0.594	0.588	0.532	0.553	0.544		8.10
115) TP	Naphthalene	1.090	1.159	1.225	1.216	1.148	1.067	1.087	1.142		5.54
116) TP	1,2,3-Trichlor...	0.470	0.497	0.538	0.553	0.533	0.484	0.499	0.510		6.05

(#) = Out of Range

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816NBF1.D
Acq On : 16 Aug 2024 08:39 pm
Operator : VOA130:TMS
Sample : WG1961896-1
Misc : WG1961896
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Aug 21 06:44:30 2024



AutoFind: Scans 153, 154, 155; Background Corrected with Scan 145

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	13464	PASS
75	95	30	60	48.2	37235	PASS
95	95	100	100	100.0	77320	PASS
96	95	5	9	7.0	5437	PASS
173	174	0.00	2	0.8	505	PASS
174	95	50	100	79.1	61187	PASS
175	174	5	9	7.6	4646	PASS
176	174	95	101	98.1	59995	PASS
177	176	5	9	6.4	3843	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N04.D
Acq On : 16 Aug 2024 10:06 pm
Operator : VOA130:PID
Sample : I8260STD0.19PPB
Misc : WG1961896,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 21 06:34:02 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.099	96	561675	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 107.17%			
63) Chlorobenzene-d5	9.649	117	419434	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 99.56%			
84) 1,4-Dichlorobenzene-d4	12.334	152	222832	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 103.16%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.287	113	134532	9.169	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.69%			
47) 1,2-Dichloroethane-d4	5.811	65	124493	8.877	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.77%			
64) Toluene-d8	7.803	98	560142	10.359	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.59%			
88) 4-Bromofluorobenzene	11.128	95	198360	10.153	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.53%			
Target Compounds						Qvalue
4) Vinyl chloride	1.947	62	2342	0.186	ug/L #	87
37) Carbon tetrachloride	5.255	117	1505M3	0.144	ug/L	
45) Benzene	5.680	78	7416M6	0.210	ug/L	
52) Trichloroethene	6.288	95	1914M6	0.203	ug/L	

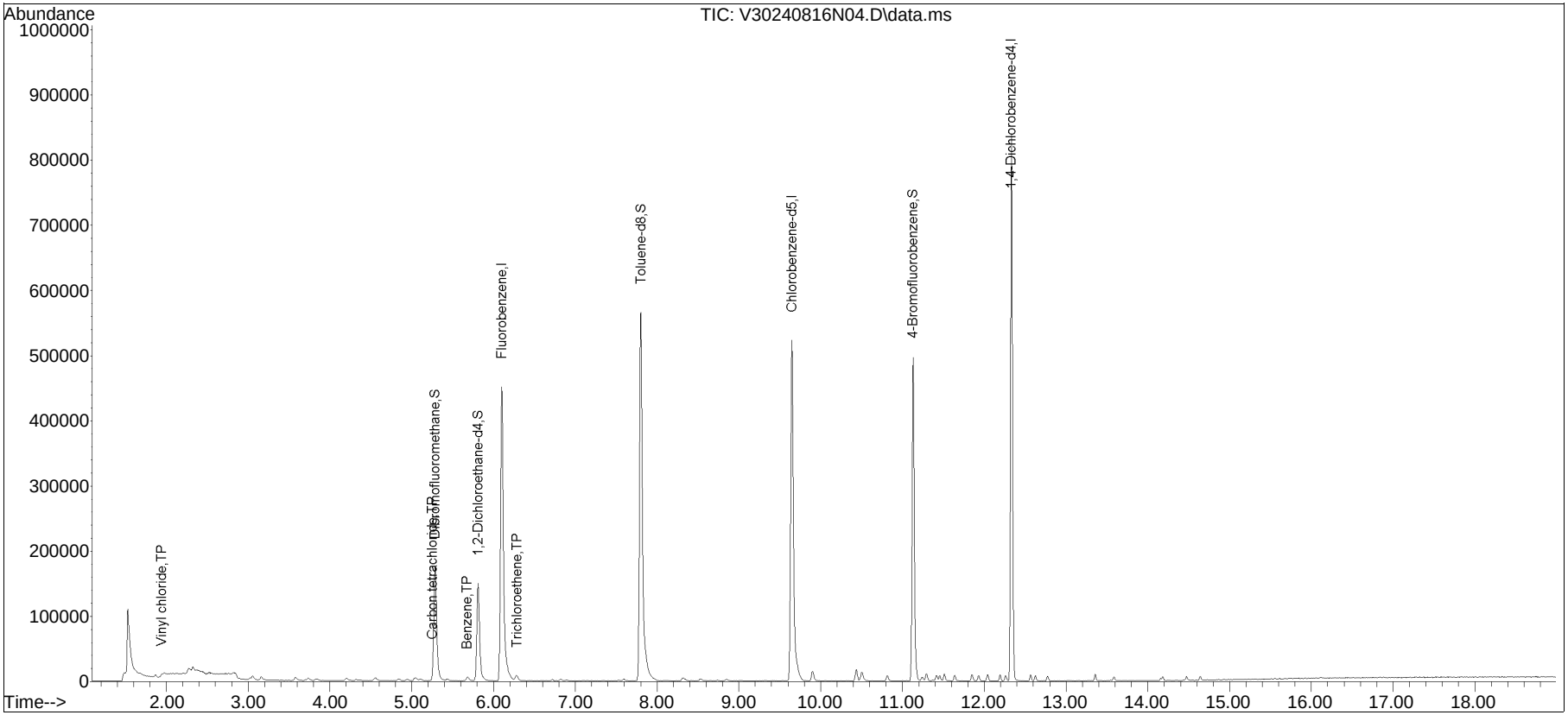
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N04.D
Acq On : 16 Aug 2024 10:06 pm
Operator : VOA130:PID
Sample : I8260STD0.19PPB
Misc : WG1961896,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 21 06:34:02 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

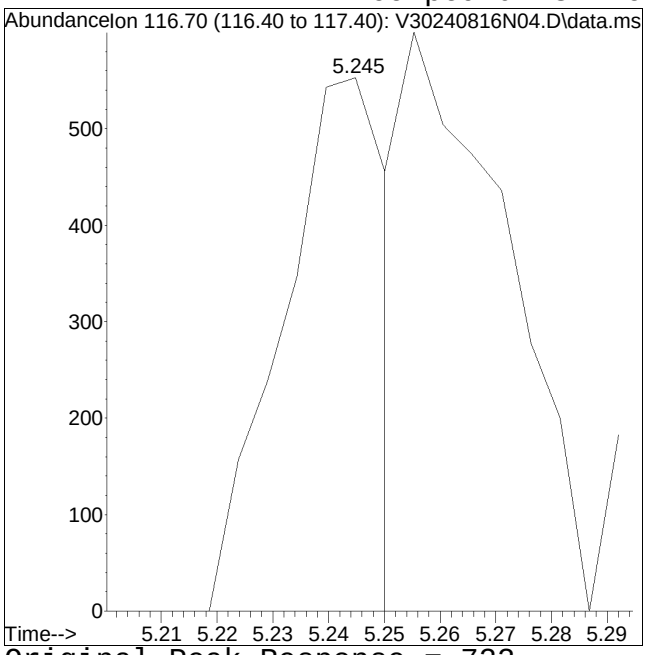
Sub List : 8260-L11 - Level 11 for 8260-LRR productN10.D•



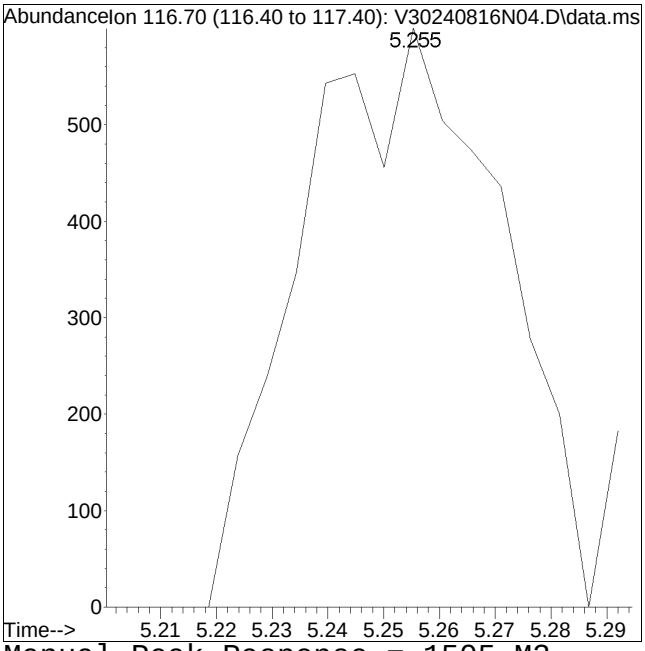
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N04.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 10:06 pm Instrument : VOA130
Sample : I8260STD0.19PPB Quant Date : 8/21/2024 6:33 am

Compound #37: Carbon tetrachloride



Original Peak Response = 722



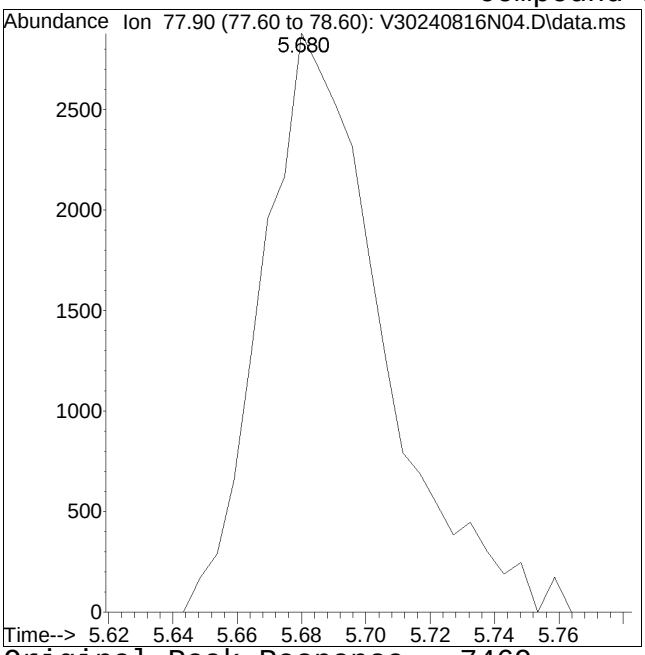
Manual Peak Response = 1505 M3

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

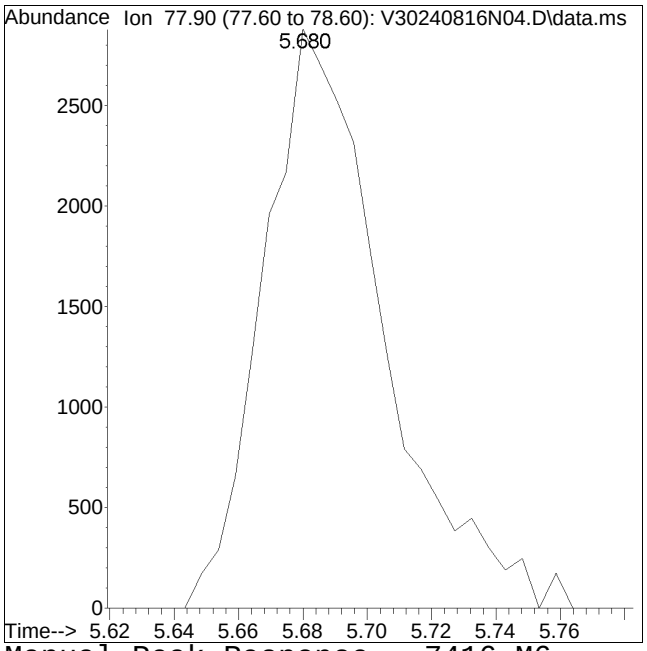
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N04.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 10:06 pm Instrument : VOA130
Sample : I8260STD0.19PPB Quant Date : 8/21/2024 6:33 am

Compound #45: Benzene



Original Peak Response = 7469



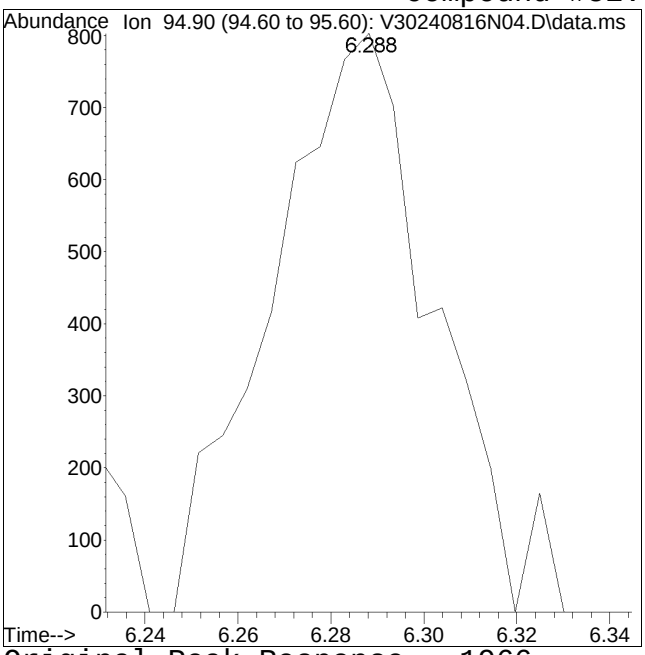
Manual Peak Response = 7416 M6

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

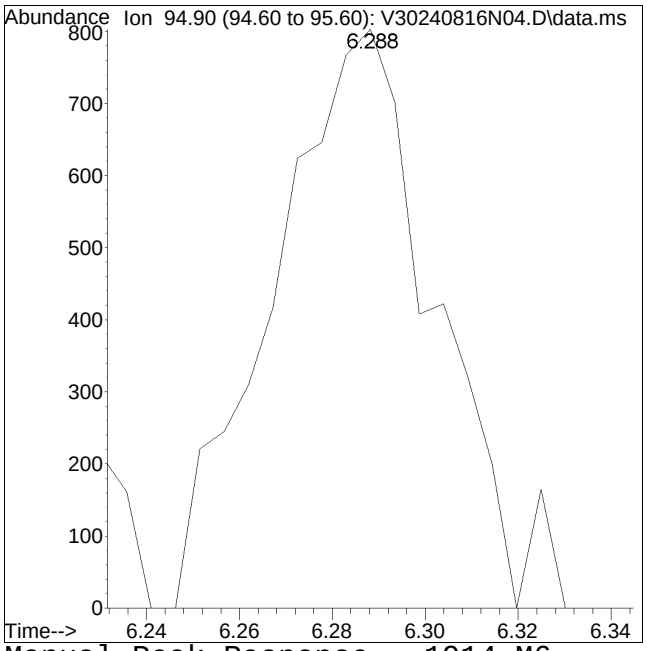
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N04.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 10:06 pm Instrument : VOA130
Sample : I8260STD0.19PPB Quant Date : 8/21/2024 6:33 am

Compound #52: Trichloroethene



Original Peak Response = 1966



Manual Peak Response = 1914 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N06.D
Acq On : 16 Aug 2024 10:49 pm
Operator : VOA130:PID
Sample : I8260STD0.5PPB
Misc : WG1961896,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 06:34:10 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	560839	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 107.02%			
63) Chlorobenzene-d5	9.649	117	419964	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 99.68%			
84) 1,4-Dichlorobenzene-d4	12.334	152	224099	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 103.75%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.287	113	134800	9.201	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.01%			
47) 1,2-Dichloroethane-d4	5.811	65	125985	8.996	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.96%			
64) Toluene-d8	7.798	98	566143	10.456	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.56%			
88) 4-Bromofluorobenzene	11.128	95	198376	10.096	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.675	85	4894	0.378	ug/L #	89
3) Chloromethane	1.863	50	6956	0.497	ug/L	98
4) Vinyl chloride	1.947	62	4804	0.383	ug/L	95
5) Bromomethane	2.267	94	3977	0.529	ug/L	97
6) Chloroethane	2.388	64	3555	0.445	ug/L	90
7) Trichlorofluoromethane	2.534	101	5136	0.364	ug/L	87
8) Ethyl ether	2.833	74	1622	0.398	ug/L #	72
10) 1,1-Dichloroethene	3.022	96	3424M1	0.396	ug/L	
11) Carbon disulfide	3.053	76	11221	0.415	ug/L	100
12) Freon-113	3.064	101	2513M6	0.318	ug/L	
13) Iodomethane	3.164	142	9059M6	0.604	ug/L	
14) Acrolein	3.337	56	610	0.536	ug/L #	72
15) Methylene chloride	3.578	84	5633	0.487	ug/L	73
17) Acetone	3.614	43	1882	1.082	ug/L #	72
18) trans-1,2-Dichloroethene	3.735	96	3393	0.381	ug/L	82
19) Methyl acetate	3.735	43	1698	0.531	ug/L #	88
21) Methyl tert-butyl ether	3.835	73	8313	0.452	ug/L	88
22) tert-Butyl alcohol	3.913	59	676	2.038	ug/L #	30
24) Diisopropyl ether	4.196	45	9917	0.439	ug/L #	86
25) 1,1-Dichloroethane	4.322	63	6997	0.417	ug/L	100
26) Halothane	4.380	117	2041	0.330	ug/L	98

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N06.D
Acq On : 16 Aug 2024 10:49 pm
Operator : VOA130:PID
Sample : I8260STD0.5PPB
Misc : WG1961896,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 06:34:10 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.359	53	788	0.388	ug/L	#	86
28) Ethyl tert-butyl ether	4.548	59	9779	0.456	ug/L		92
29) Vinyl acetate	4.553	43	7376	0.529	ug/L		98
30) cis-1,2-Dichloroethene	4.847	96	4487	0.430	ug/L	#	74
31) 2,2-Dichloropropane	4.946	77	5050	0.393	ug/L		93
33) Bromochloromethane	5.035	128	2114	0.426	ug/L	#	54
34) Cyclohexane	5.046	56	4824	0.358	ug/L		76
35) Chloroform	5.109	83	6776	0.415	ug/L	#	91
36) Ethyl acetate	5.224	43	2425	0.536	ug/L	#	80
37) Carbon tetrachloride	5.250	117	3517	0.337	ug/L	#	82
38) Tetrahydrofuran	5.271	42	926M6	0.620	ug/L		
40) 1,1,1-Trichloroethane	5.313	97	4439	0.344	ug/L	#	78
42) 2-Butanone	5.397	43	1397	0.662	ug/L	#	60
43) 1,1-Dichloropropene	5.439	75	4247	0.382	ug/L		95
45) Benzene	5.680	78	16126	0.457	ug/L		94
46) tert-Amyl methyl ether	5.796	73	9046	0.457	ug/L		98
48) 1,2-Dichloroethane	5.885	62	4270	0.421	ug/L		93
51) Methyl cyclohexane	6.278	83	5159	0.370	ug/L	#	79
52) Trichloroethene	6.283	95	4267	0.454	ug/L		97
54) Dibromomethane	6.718	93	1933	0.399	ug/L	#	85
55) 1,2-Dichloropropane	6.823	63	3304	0.401	ug/L		96
57) 2-Chloroethyl vinyl ether	7.531	63	2043	0.421	ug/L		89
58) Bromodichloromethane	6.897	83	4761	0.422	ug/L	#	93
61) 1,4-Dioxane	7.106	88	4974	94.264	ug/L		90
62) cis-1,3-Dichloropropene	7.589	75	5011	0.393	ug/L		90
65) Toluene	7.861	92	10199	0.469	ug/L		98
66) 4-Methyl-2-pentanone	8.297	58	436	0.262	ug/L	#	1
67) Tetrachloroethene	8.318	166	3866	0.448	ug/L		89
69) trans-1,3-Dichloropropene	8.344	75	4252	0.444	ug/L		89
71) Ethyl methacrylate	8.538	69	3262	0.394	ug/L	#	74
72) 1,1,2-Trichloroethane	8.527	83	2498	0.513	ug/L		97
73) Chlorodibromomethane	8.742	129	3156	0.472	ug/L	#	95
74) 1,3-Dichloropropane	8.847	76	4832	0.485	ug/L		100
75) 1,2-Dibromoethane	9.015	107	2635	0.541	ug/L		93
77) 2-Hexanone	9.319	43	1277	0.437	ug/L	#	73
78) Chlorobenzene	9.670	112	11442	0.474	ug/L	#	70
79) Ethylbenzene	9.712	91	17860	0.437	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.754	131	3151	0.455	ug/L	#	62
81) p/m Xylene	9.901	106	14625	0.897	ug/L		93
82) o Xylene	10.436	106	14536	0.925	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N06.D
Acq On : 16 Aug 2024 10:49 pm
Operator : VOA130:PID
Sample : I8260STD0.5PPB
Misc : WG1961896,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 06:34:10 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.499	104	22973	0.887	ug/L		94
85) Bromoform	10.525	173	1771	0.460	ug/L		99
87) Isopropylbenzene	10.813	105	16219	0.433	ug/L		96
89) Bromobenzene	11.248	156	4497	0.459	ug/L		99
90) n-Propylbenzene	11.290	91	19794	0.440	ug/L		95
91) 1,4-Dichlorobutane	11.301	55	5014	0.526	ug/L		97
92) 1,1,2,2-Tetrachloroethane	11.369	83	3187	0.475	ug/L	#	96
93) 4-Ethyltoluene	11.416	105	16211	0.428	ug/L		98
94) 2-Chlorotoluene	11.453	91	13032	0.466	ug/L	#	82
95) 1,3,5-Trimethylbenzene	11.511	105	14197	0.423	ug/L		99
96) 1,2,3-Trichloropropane	11.511	75	2909	0.538	ug/L		92
97) trans-1,4-Dichloro-2-b...	11.563	53	718	0.452	ug/L		92
98) 4-Chlorotoluene	11.636	91	13559	0.462	ug/L		96
99) tert-Butylbenzene	11.851	119	12315	0.449	ug/L		93
102) 1,2,4-Trimethylbenzene	11.930	105	12893	0.398	ug/L		96
103) sec-Butylbenzene	12.040	105	16690	0.424	ug/L		93
104) p-Isopropyltoluene	12.192	119	14259	0.415	ug/L		95
105) 1,3-Dichlorobenzene	12.260	146	9088	0.472	ug/L		96
106) 1,4-Dichlorobenzene	12.349	146	9001M3	0.464	ug/L		
107) p-Diethylbenzene	12.570	119	8081	0.404	ug/L		94
108) n-Butylbenzene	12.622	91	11225	0.393	ug/L		95
109) 1,2-Dichlorobenzene	12.774	146	8559	0.470	ug/L		96
110) 1,2,4,5-Tetramethylben...	13.356	119	12609	0.413	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.545	155	357	0.378	ug/L		85
112) 1,3,5-Trichlorobenzene	13.587	180	5602	0.415	ug/L		91
113) Hexachlorobutadiene	14.158	225	1930	0.417	ug/L		97
114) 1,2,4-Trichlorobenzene	14.179	180	5211	0.427	ug/L		94
115) Naphthalene	14.473	128	12218	0.478	ug/L		100
116) 1,2,3-Trichlorobenzene	14.641	180	5261	0.460	ug/L		97

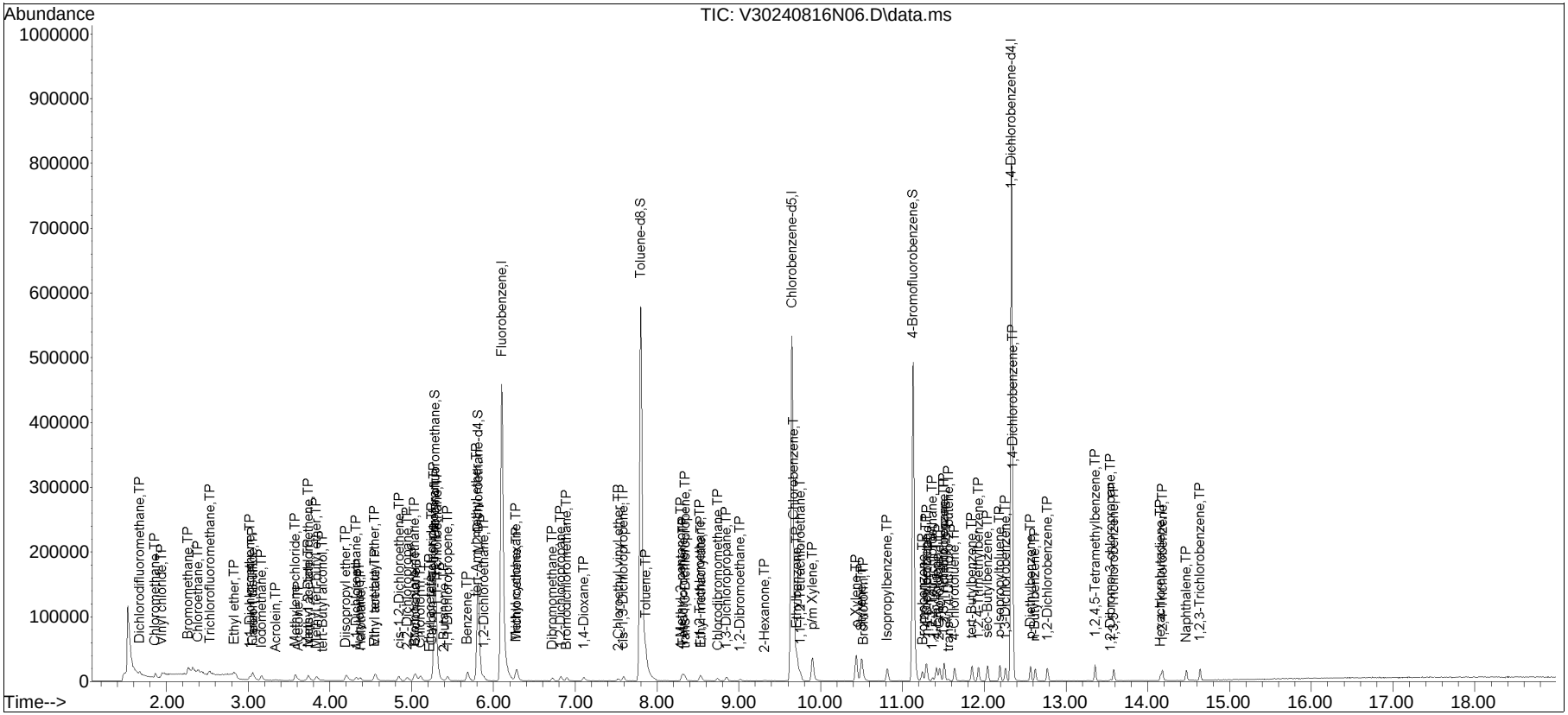
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N06.D
Acq On : 16 Aug 2024 10:49 pm
Operator : VOA130:PID
Sample : I8260STD0.5PPB
Misc : WG1961896,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 06:34:10 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V30240816N10.D•

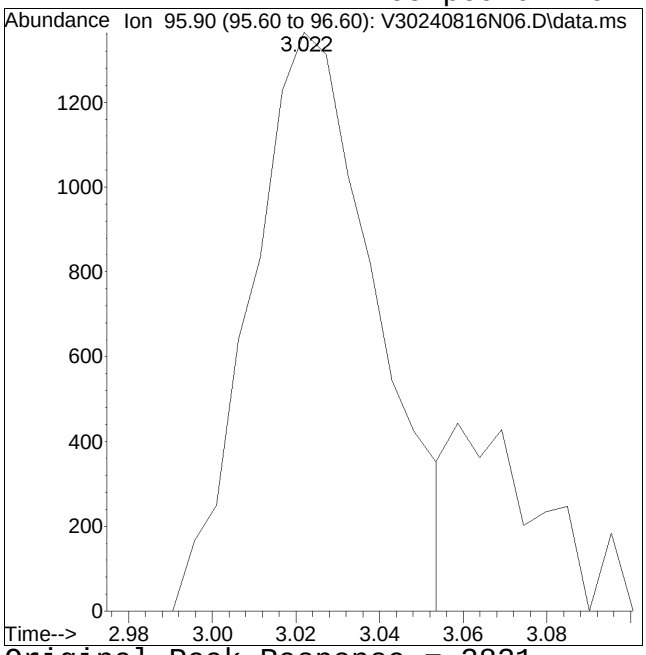


Manual Integration Report

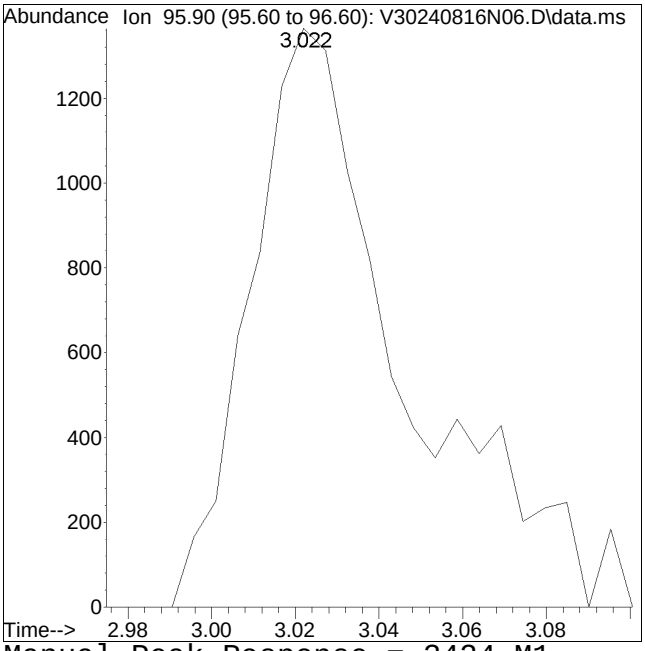
Data Path : K:\VOA130\2024\240816NICALQ
Data File : V30240816N06.D
Date Inj'd : 8/16/2024 10:49 pm
Sample : I8260STD0.5PPB

Method : V130_240816N_8260D.m
Operator : VOA130:PID
Instrument : VOA130
Quant Date : 8/21/2024 6:34 am

Compound #10: 1,1-Dichloroethene



Original Peak Response = 2821



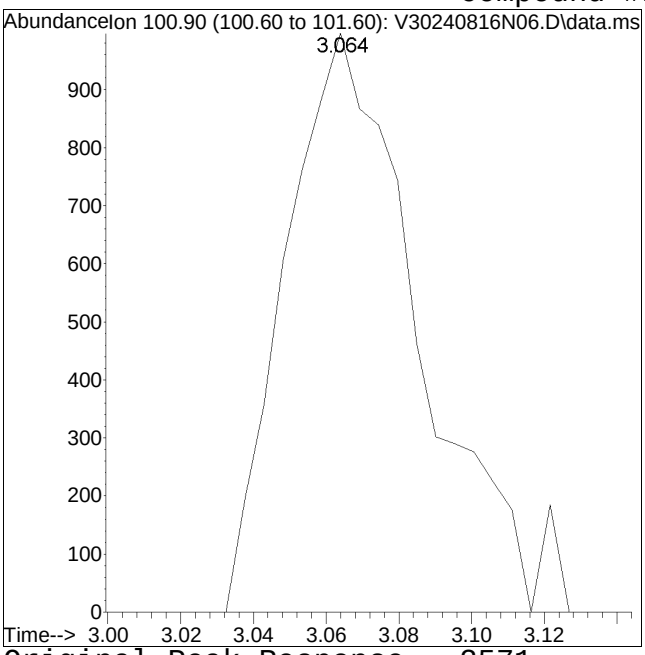
Manual Peak Response = 3424 M1

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

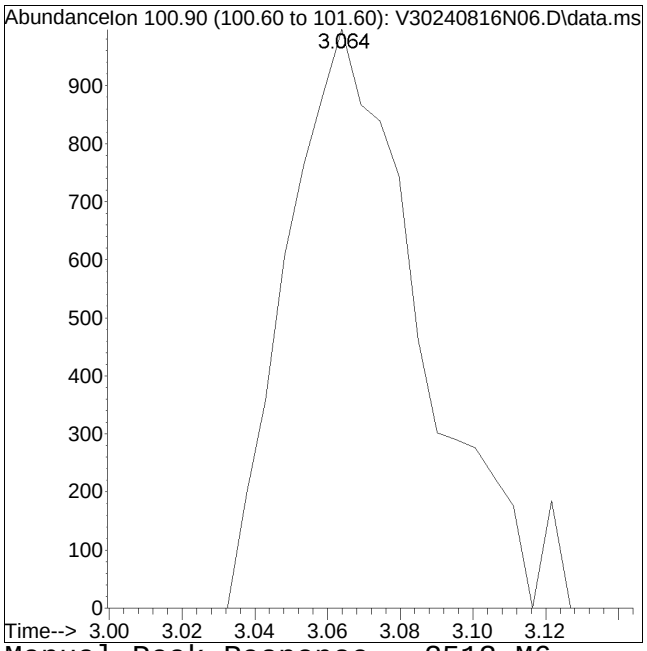
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N06.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 10:49 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 8/21/2024 6:34 am

Compound #12: Freon-113



Original Peak Response = 2571



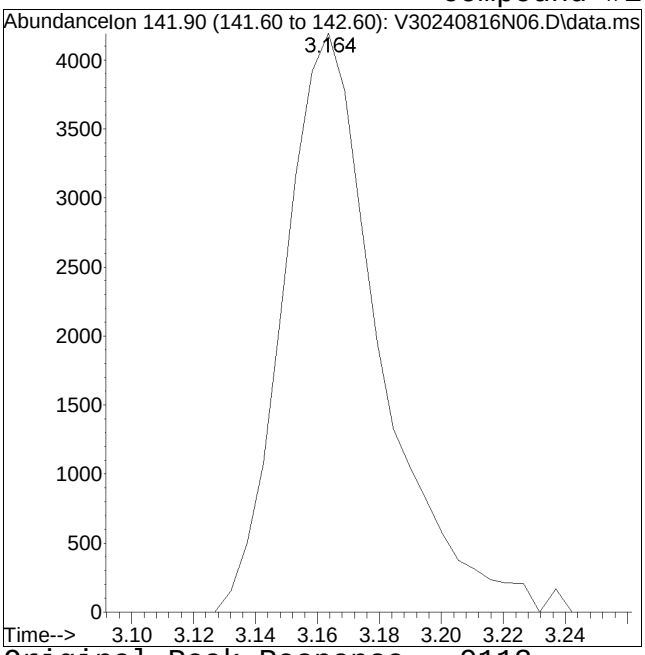
Manual Peak Response = 2513 M6

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

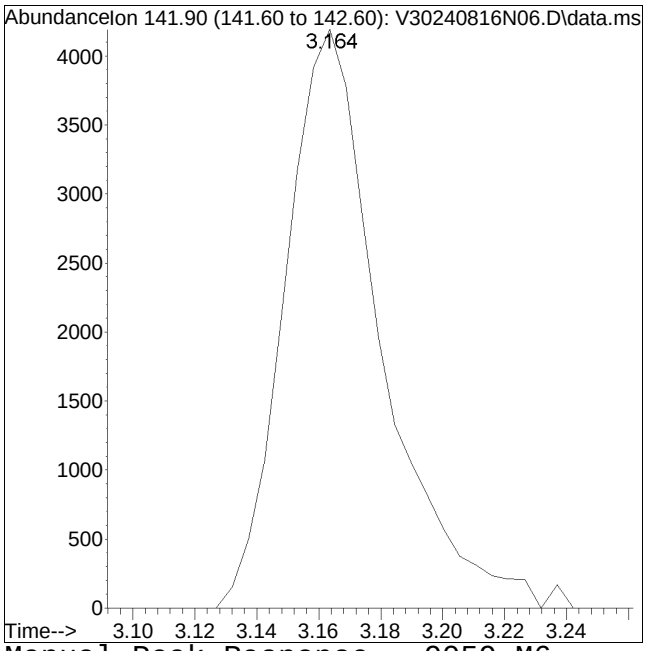
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N06.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 10:49 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 8/21/2024 6:34 am

Compound #13: Iodomethane



Original Peak Response = 9113



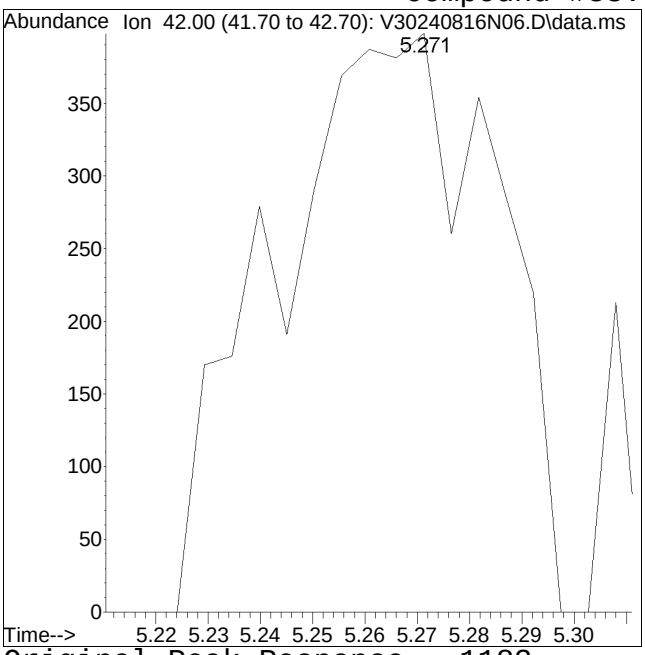
Manual Peak Response = 9059 M6

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

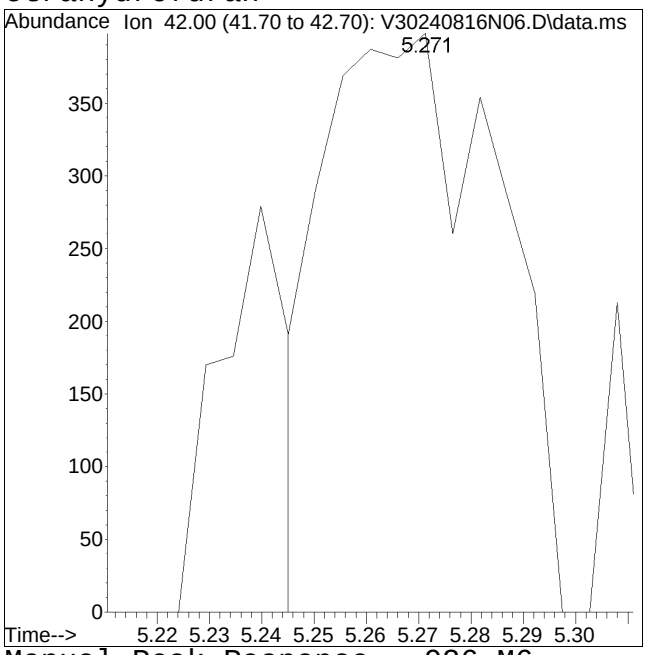
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N06.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 10:49 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 8/21/2024 6:34 am

Compound #38: Tetrahydrofuran



Original Peak Response = 1183



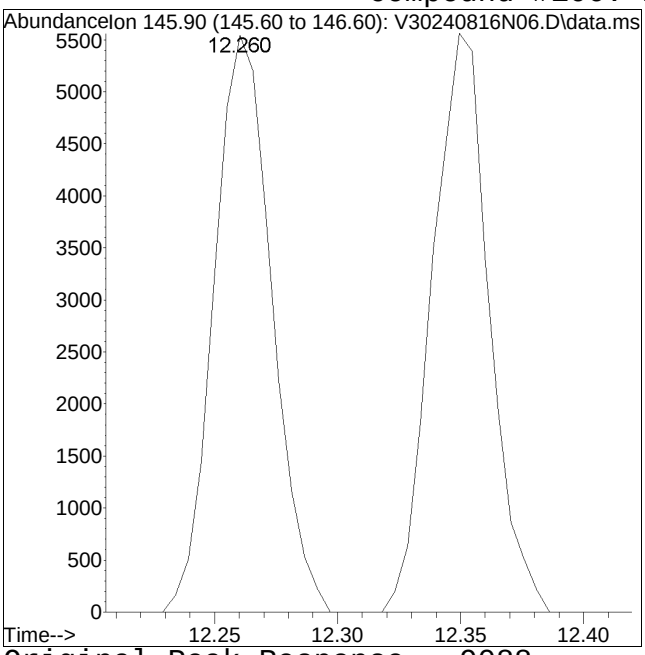
Manual Peak Response = 926 M6

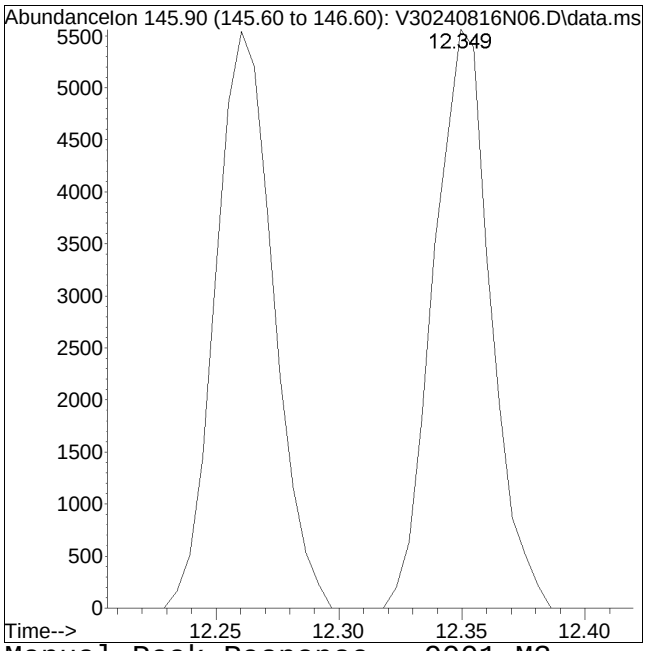
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N06.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 10:49 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 8/21/2024 6:34 am

Compound #106: 1,4-Dichlorobenzene





Original Peak Response = 9088 Manual Peak Response = 9001 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N08.D
Acq On : 16 Aug 2024 11:33 pm
Operator : VOA130:PID
Sample : I8260STD2PPB
Misc : WG1961896,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 06:34:18 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.105	96	530487	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 101.22%			
63) Chlorobenzene-d5	9.649	117	407939	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 96.83%			
84) 1,4-Dichlorobenzene-d4	12.334	152	214011	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 99.08%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.287	113	127252	9.182	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.82%			
47) 1,2-Dichloroethane-d4	5.811	65	121578	9.178	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.78%			
64) Toluene-d8	7.798	98	542454	10.314	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.14%			
88) 4-Bromofluorobenzene	11.133	95	189958	10.123	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.23%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.674	85	22060	1.801	ug/L	95
3) Chloromethane	1.863	50	25471	1.925	ug/L	98
4) Vinyl chloride	1.947	62	21512	1.812	ug/L	97
5) Bromomethane	2.267	94	12939	1.819	ug/L	94
6) Chloroethane	2.387	64	13937	1.843	ug/L	91
7) Trichlorofluoromethane	2.529	101	23449	1.755	ug/L	100
8) Ethyl ether	2.828	74	6594	1.710	ug/L	83
10) 1,1-Dichloroethene	3.022	96	14752	1.803	ug/L #	71
11) Carbon disulfide	3.053	76	45363	1.775	ug/L	99
12) Freon-113	3.064	101	11852	1.585	ug/L	88
13) Iodomethane	3.163	142	24430	1.721	ug/L	99
14) Acrolein	3.336	56	2087	1.937	ug/L #	63
15) Methylene chloride	3.578	84	20475	1.871	ug/L	75
17) Acetone	3.620	43	2866	1.742	ug/L #	85
18) trans-1,2-Dichloroethene	3.735	96	14735	1.749	ug/L	80
19) Methyl acetate	3.735	43	5687	1.881	ug/L #	86
21) Methyl tert-butyl ether	3.835	73	32312	1.859	ug/L #	89
22) tert-Butyl alcohol	3.913	59	2877	9.171	ug/L #	53
24) Diisopropyl ether	4.202	45	39554	1.850	ug/L #	93
25) 1,1-Dichloroethane	4.322	63	29131	1.836	ug/L	98
26) Halothane	4.375	117	8788	1.501	ug/L	98

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N08.D
Acq On : 16 Aug 2024 11:33 pm
Operator : VOA130:PID
Sample : I8260STD2PPB
Misc : WG1961896,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 06:34:18 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.348	53	3592	1.869	ug/L		91
28) Ethyl tert-butyl ether	4.553	59	37715	1.861	ug/L		83
29) Vinyl acetate	4.553	43	23988	1.819	ug/L	#	90
30) cis-1,2-Dichloroethene	4.841	96	17766	1.799	ug/L	#	76
31) 2,2-Dichloropropane	4.946	77	19481	1.603	ug/L		83
33) Bromochloromethane	5.030	128	8388	1.786	ug/L	#	56
34) Cyclohexane	5.051	56	21103	1.655	ug/L		77
35) Chloroform	5.103	83	27866	1.804	ug/L		92
36) Ethyl acetate	5.219	43	9155	2.138	ug/L		96
37) Carbon tetrachloride	5.255	117	15445	1.565	ug/L	#	93
38) Tetrahydrofuran	5.266	42	3008	2.131	ug/L	#	88
40) 1,1,1-Trichloroethane	5.313	97	19741	1.620	ug/L		92
42) 2-Butanone	5.402	43	4234M3	2.120	ug/L		
43) 1,1-Dichloropropene	5.439	75	18735	1.780	ug/L		94
45) Benzene	5.680	78	64368	1.930	ug/L		94
46) tert-Amyl methyl ether	5.801	73	36250	1.935	ug/L		95
48) 1,2-Dichloroethane	5.879	62	16802	1.750	ug/L	#	95
51) Methyl cyclohexane	6.283	83	23583	1.788	ug/L		81
52) Trichloroethene	6.283	95	16428	1.847	ug/L		91
54) Dibromomethane	6.724	93	8317	1.815	ug/L	#	90
55) 1,2-Dichloropropane	6.828	63	14466	1.857	ug/L		96
57) 2-Chloroethyl vinyl ether	7.526	63	8569	1.865	ug/L	#	85
58) Bromodichloromethane	6.897	83	17650	1.653	ug/L		99
61) 1,4-Dioxane	7.101	88	17971	360.062	ug/L	#	90
62) cis-1,3-Dichloropropene	7.594	75	21160	1.755	ug/L	#	85
65) Toluene	7.856	92	43342	2.050	ug/L		99
66) 4-Methyl-2-pentanone	8.291	58	3101	1.921	ug/L	#	87
67) Tetrachloroethene	8.317	166	17394	2.074	ug/L	#	88
69) trans-1,3-Dichloropropene	8.338	75	17557	1.886	ug/L	#	77
71) Ethyl methacrylate	8.532	69	15210	1.892	ug/L	#	83
72) 1,1,2-Trichloroethane	8.527	83	9758	2.063	ug/L		93
73) Chlorodibromomethane	8.737	129	12355	1.901	ug/L		97
74) 1,3-Dichloropropane	8.847	76	20419	2.110	ug/L		100
75) 1,2-Dibromoethane	9.015	107	9951	2.102	ug/L		99
77) 2-Hexanone	9.308	43	5639	1.989	ug/L		98
78) Chlorobenzene	9.670	112	46492	1.981	ug/L		89
79) Ethylbenzene	9.712	91	75885	1.910	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.754	131	12944	1.924	ug/L		97
81) p/m Xylene	9.901	106	61522	3.883	ug/L		92
82) o Xylene	10.436	106	59227	3.880	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N08.D
Acq On : 16 Aug 2024 11:33 pm
Operator : VOA130:PID
Sample : I8260STD2PPB
Misc : WG1961896,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 06:34:18 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.499	104	97381	3.870	ug/L	93
85) Bromoform	10.520	173	7400	2.015	ug/L	99
87) Isopropylbenzene	10.813	105	71264	1.994	ug/L	96
89) Bromobenzene	11.243	156	18457	1.974	ug/L	99
90) n-Propylbenzene	11.290	91	85956	1.999	ug/L	94
91) 1,4-Dichlorobutane	11.296	55	18984	2.085	ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.369	83	12370	1.933	ug/L	99
93) 4-Ethyltoluene	11.416	105	70913	1.963	ug/L	95
94) 2-Chlorotoluene	11.453	91	54188M1	2.030	ug/L	
95) 1,3,5-Trimethylbenzene	11.510	105	60766	1.897	ug/L	96
96) 1,2,3-Trichloropropane	11.510	75	10779	2.089	ug/L	85
97) trans-1,4-Dichloro-2-b...	11.558	53	3215	2.121	ug/L	96
98) 4-Chlorotoluene	11.636	91	56607	2.021	ug/L	95
99) tert-Butylbenzene	11.851	119	53108	2.030	ug/L	94
102) 1,2,4-Trimethylbenzene	11.930	105	56828	1.837	ug/L	97
103) sec-Butylbenzene	12.040	105	75389	2.007	ug/L	93
104) p-Isopropyltoluene	12.192	119	63193	1.927	ug/L	96
105) 1,3-Dichlorobenzene	12.260	146	36099	1.965	ug/L	98
106) 1,4-Dichlorobenzene	12.349	146	36898	1.991	ug/L	97
107) p-Diethylbenzene	12.564	119	34250	1.793	ug/L	97
108) n-Butylbenzene	12.622	91	50734	1.861	ug/L	97
109) 1,2-Dichlorobenzene	12.774	146	34587	1.989	ug/L	97
110) 1,2,4,5-Tetramethylben...	13.356	119	52713	1.809	ug/L	96
111) 1,2-Dibromo-3-chloropr...	13.550	155	1931	2.143	ug/L	99
112) 1,3,5-Trichlorobenzene	13.582	180	23537	1.827	ug/L	95
113) Hexachlorobutadiene	14.158	225	8264	1.868	ug/L	98
114) 1,2,4-Trichlorobenzene	14.179	180	22280	1.913	ug/L	99
115) Naphthalene	14.473	128	49591	2.030	ug/L	100
116) 1,2,3-Trichlorobenzene	14.641	180	21285	1.949	ug/L	96

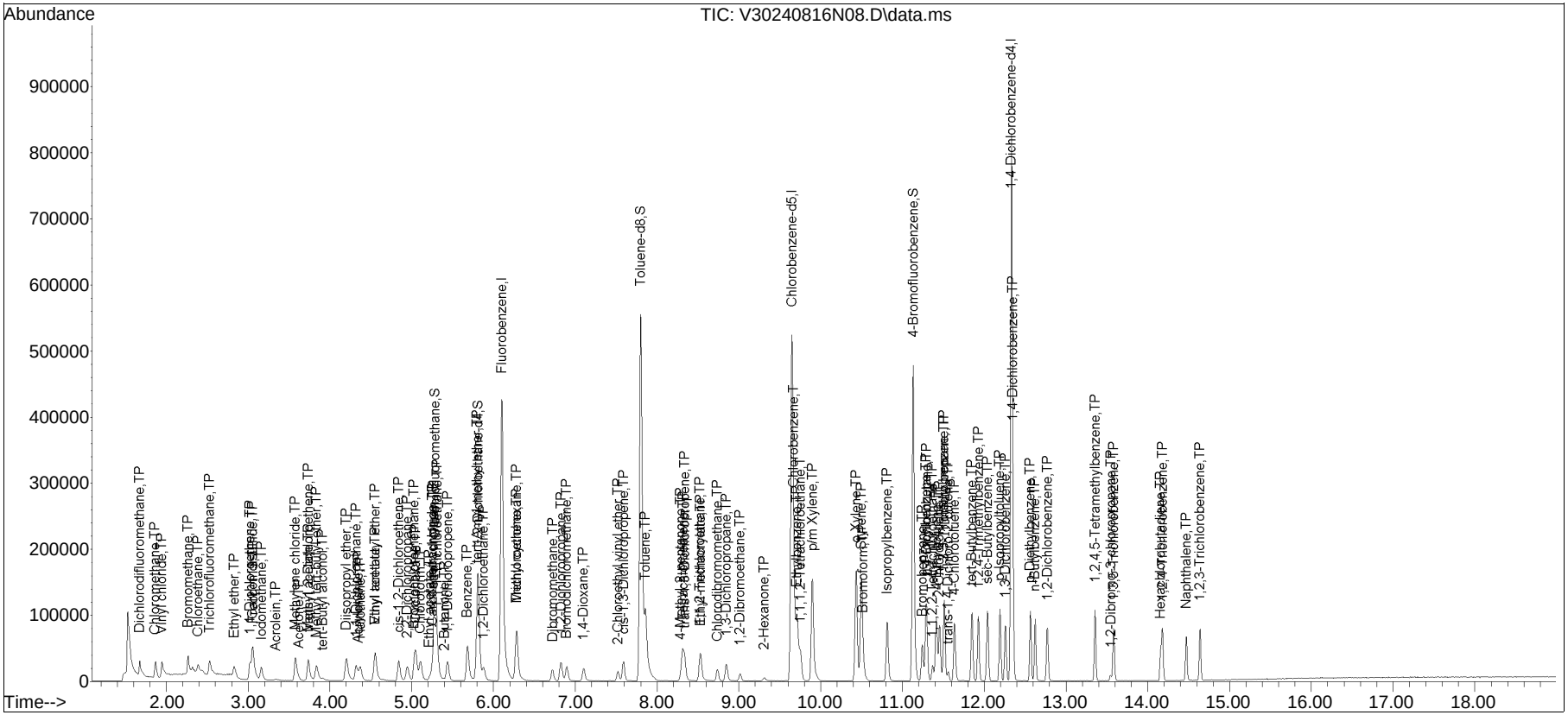
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N08.D
Acq On : 16 Aug 2024 11:33 pm
Operator : VOA130:PID
Sample : I8260STD2PPB
Misc : WG1961896,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 06:34:18 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

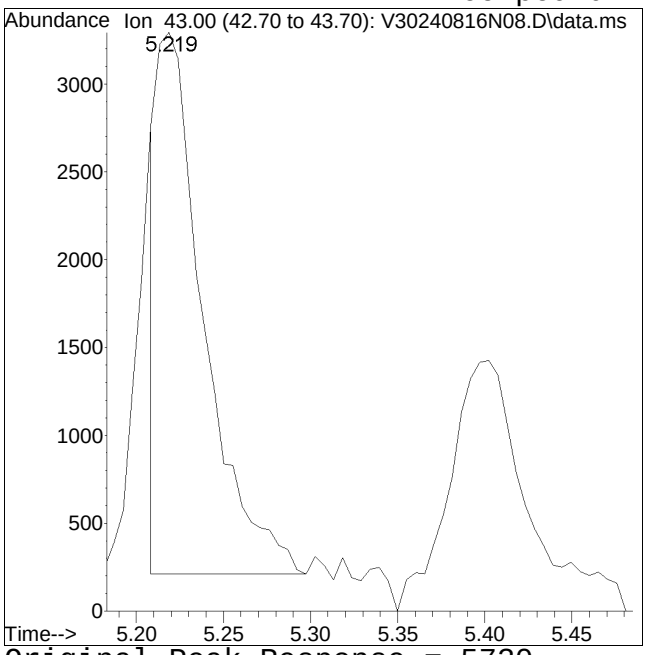
Sub List : 8260-Curve - Megamix plus Diox\V30240816N10.D•

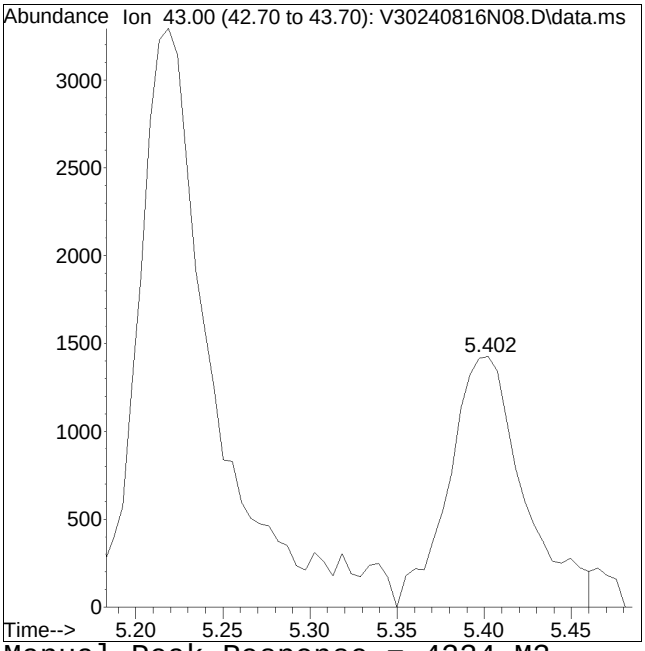


Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N08.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 11:33 pm Instrument : VOA130
Sample : I8260STD2PPB Quant Date : 8/21/2024 6:34 am

Compound #42: 2-Butanone





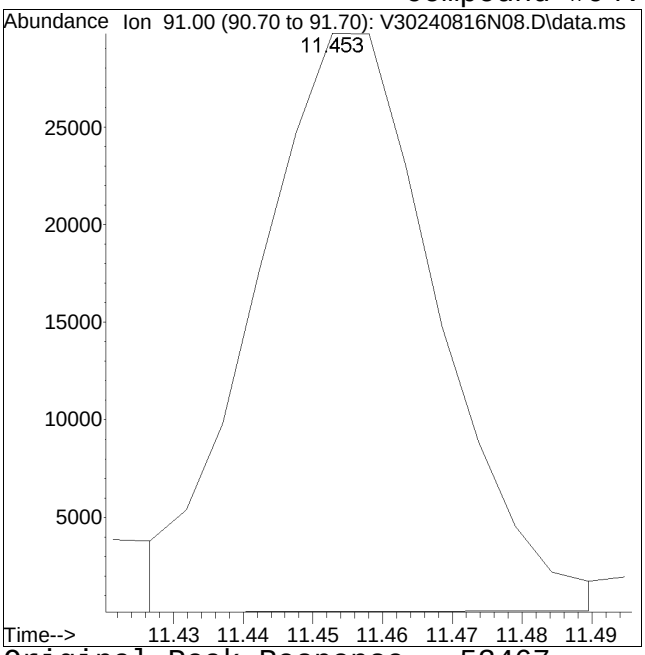
Original Peak Response = 5730 Manual Peak Response = 4234 M3

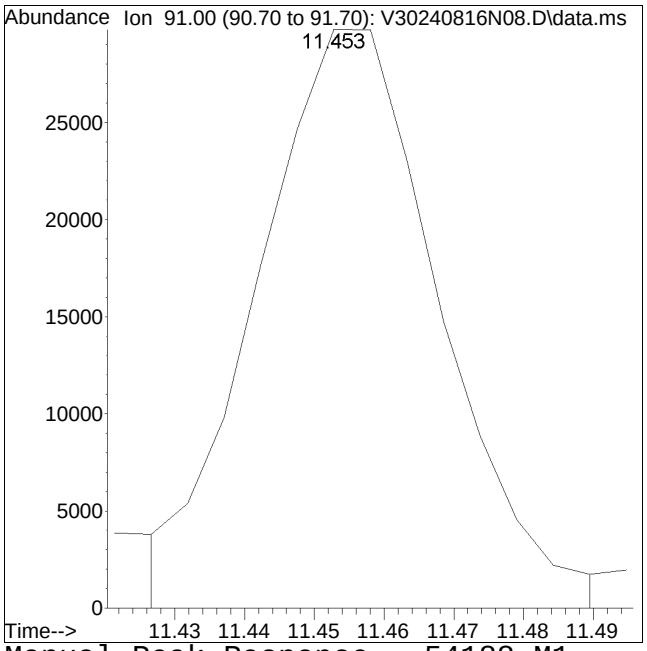
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N08.D Operator : VOA130:PID
Date Inj'd : 8/16/2024 11:33 pm Instrument : VOA130
Sample : I8260STD2PPB Quant Date : 8/21/2024 6:34 am

Compound #94: 2-Chlorotoluene





Original Peak Response = 53467 Manual Peak Response = 54188 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N10.D
Acq On : 17 Aug 2024 12:16 am
Operator : VOA130:PID
Sample : I8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:34:25 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	524074	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 100.00%			
63) Chlorobenzene-d5	9.649	117	421293	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.334	152	215997	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.282	113	128732	9.403	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.03%			
47) 1,2-Dichloroethane-d4	5.811	65	126648	9.678	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.78%			
64) Toluene-d8	7.798	98	561417	10.336	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.36%			
88) 4-Bromofluorobenzene	11.133	95	194180	10.253	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.53%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.675	85	120157	9.928	ug/L	95
3) Chloromethane	1.869	50	127519	9.755	ug/L	98
4) Vinyl chloride	1.947	62	115993	9.892	ug/L	100
5) Bromomethane	2.267	94	64180	9.135	ug/L	97
6) Chloroethane	2.388	64	72759	9.742	ug/L	99
7) Trichlorofluoromethane	2.529	101	126586	9.590	ug/L	99
8) Ethyl ether	2.828	74	34799	9.132	ug/L	78
10) 1,1-Dichloroethene	3.022	96	77902	9.640	ug/L #	71
11) Carbon disulfide	3.053	76	234936	9.306	ug/L	100
12) Freon-113	3.064	101	69162	9.362	ug/L	85
13) Iodomethane	3.164	142	118403	8.443	ug/L	99
14) Acrolein	3.337	56	9279	8.719	ug/L	95
15) Methylene chloride	3.578	84	102010	9.438	ug/L	76
17) Acetone	3.609	43	12175	7.489	ug/L #	87
18) trans-1,2-Dichloroethene	3.735	96	80797	9.708	ug/L	79
19) Methyl acetate	3.735	43	28300	9.474	ug/L #	80
21) Methyl tert-butyl ether	3.835	73	156534	9.115	ug/L #	87
22) tert-Butyl alcohol	3.919	59	15008	48.427	ug/L #	53
24) Diisopropyl ether	4.202	45	218206	10.332	ug/L #	94
25) 1,1-Dichloroethane	4.322	63	152025	9.699	ug/L #	97
26) Halothane	4.369	117	49634	8.581	ug/L	98

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N10.D
Acq On : 17 Aug 2024 12:16 am
Operator : VOA130:PID
Sample : I8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:34:25 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.354	53	17845	9.399	ug/L		96
28) Ethyl tert-butyl ether	4.548	59	203304	10.156	ug/L		80
29) Vinyl acetate	4.553	43	115093	8.836	ug/L	#	89
30) cis-1,2-Dichloroethene	4.841	96	91708	9.402	ug/L	#	79
31) 2,2-Dichloropropane	4.946	77	109376	9.111	ug/L		78
33) Bromochloromethane	5.035	128	43612	9.400	ug/L	#	56
34) Cyclohexane	5.051	56	113358	8.999	ug/L		77
35) Chloroform	5.109	83	144628	9.479	ug/L		91
36) Ethyl acetate	5.219	43	40537	9.582	ug/L	#	93
37) Carbon tetrachloride	5.250	117	86809	8.903	ug/L		98
38) Tetrahydrofuran	5.256	42	11804	8.464	ug/L	#	75
40) 1,1,1-Trichloroethane	5.313	97	108420	9.004	ug/L		92
42) 2-Butanone	5.392	43	18434M3	9.343	ug/L		
43) 1,1-Dichloropropene	5.434	75	98542	9.478	ug/L		94
45) Benzene	5.680	78	328137	9.958	ug/L		94
46) tert-Amyl methyl ether	5.796	73	187493	10.130	ug/L		94
48) 1,2-Dichloroethane	5.880	62	89212	9.406	ug/L	#	97
51) Methyl cyclohexane	6.283	83	127689	9.799	ug/L		82
52) Trichloroethene	6.283	95	84794	9.647	ug/L		91
54) Dibromomethane	6.718	93	43089	9.518	ug/L	#	88
55) 1,2-Dichloropropane	6.823	63	73205	9.515	ug/L		96
57) 2-Chloroethyl vinyl ether	7.515	63	47424	10.449	ug/L	#	80
58) Bromodichloromethane	6.897	83	91976	8.718	ug/L	#	99
61) 1,4-Dioxane	7.106	88	23397	474.512	ug/L	#	88
62) cis-1,3-Dichloropropene	7.589	75	113483	9.526	ug/L	#	81
65) Toluene	7.861	92	234799	10.753	ug/L		99
66) 4-Methyl-2-pentanone	8.291	58	18912	11.342	ug/L	#	77
67) Tetrachloroethene	8.312	166	92898	10.728	ug/L	#	91
69) trans-1,3-Dichloropropene	8.339	75	98990	10.299	ug/L	#	76
71) Ethyl methacrylate	8.533	69	89040	10.722	ug/L		88
72) 1,1,2-Trichloroethane	8.522	83	51928	10.631	ug/L		95
73) Chlorodibromomethane	8.737	129	65738	9.795	ug/L		98
74) 1,3-Dichloropropane	8.847	76	106523	10.659	ug/L		99
75) 1,2-Dibromoethane	9.015	107	49203	10.063	ug/L		100
77) 2-Hexanone	9.303	43	29298	10.006	ug/L	#	87
78) Chlorobenzene	9.670	112	252735	10.427	ug/L		95
79) Ethylbenzene	9.712	91	424054	10.338	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.754	131	69965	10.072	ug/L		98
81) p/m Xylene	9.896	106	336347	20.558	ug/L		92
82) o Xylene	10.431	106	320837	20.353	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N10.D
Acq On : 17 Aug 2024 12:16 am
Operator : VOA130:PID
Sample : I8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:34:25 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.499	104	538159	20.707	ug/L		92
85) Bromoform	10.520	173	38755	10.454	ug/L		96
87) Isopropylbenzene	10.813	105	393242	10.900	ug/L		96
89) Bromobenzene	11.243	156	100716	10.673	ug/L		100
90) n-Propylbenzene	11.290	91	474949	10.944	ug/L		95
91) 1,4-Dichlorobutane	11.301	55	102127	11.114	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.369	83	68724	10.638	ug/L		99
93) 4-Ethyltoluene	11.411	105	392842	10.773	ug/L		98
94) 2-Chlorotoluene	11.453	91	289162M1	10.731	ug/L		
95) 1,3,5-Trimethylbenzene	11.511	105	340364	10.530	ug/L		96
96) 1,2,3-Trichloropropane	11.505	75	58877M1	11.306	ug/L		
97) trans-1,4-Dichloro-2-b...	11.558	53	16408	10.728	ug/L	#	88
98) 4-Chlorotoluene	11.636	91	299917	10.608	ug/L		93
99) tert-Butylbenzene	11.851	119	285976	10.829	ug/L		93
102) 1,2,4-Trimethylbenzene	11.925	105	325714	10.432	ug/L		97
103) sec-Butylbenzene	12.040	105	417822	11.018	ug/L		94
104) p-Isopropyltoluene	12.192	119	354964	10.727	ug/L		96
105) 1,3-Dichlorobenzene	12.260	146	193568	10.440	ug/L		97
106) 1,4-Dichlorobenzene	12.350	146	195941	10.476	ug/L		98
107) p-Diethylbenzene	12.564	119	196886	10.211	ug/L		96
108) n-Butylbenzene	12.622	91	287406	10.447	ug/L	#	97
109) 1,2-Dichlorobenzene	12.769	146	183485	10.454	ug/L		97
110) 1,2,4,5-Tetramethylben...	13.356	119	291458	9.909	ug/L		96
111) 1,2-Dibromo-3-chloropr...	13.545	155	9896	10.882	ug/L		97
112) 1,3,5-Trichlorobenzene	13.582	180	129978	9.994	ug/L		96
113) Hexachlorobutadiene	14.158	225	45417	10.173	ug/L		98
114) 1,2,4-Trichlorobenzene	14.179	180	120183	10.223	ug/L		98
115) Naphthalene	14.468	128	264659	10.732	ug/L		100
116) 1,2,3-Trichlorobenzene	14.635	180	116202	10.540	ug/L		98

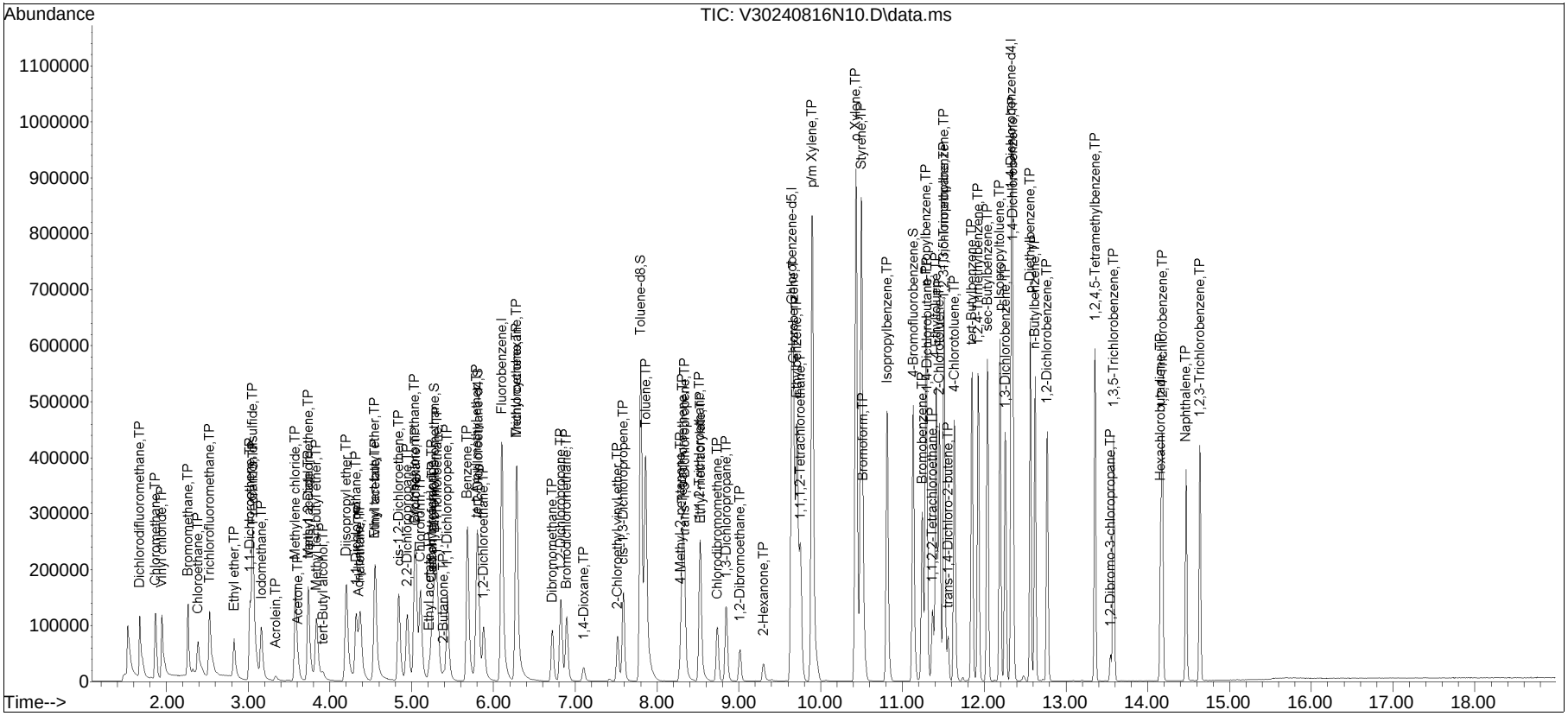
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N10.D
Acq On : 17 Aug 2024 12:16 am
Operator : VOA130:PID
Sample : I8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:34:25 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

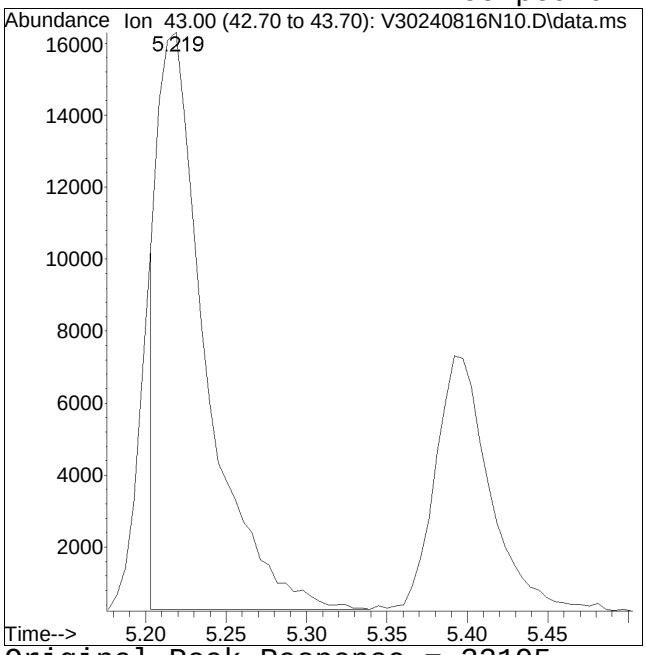
Sub List : 8260-Curve - Megamix plus Diox\V30240816N10.D•

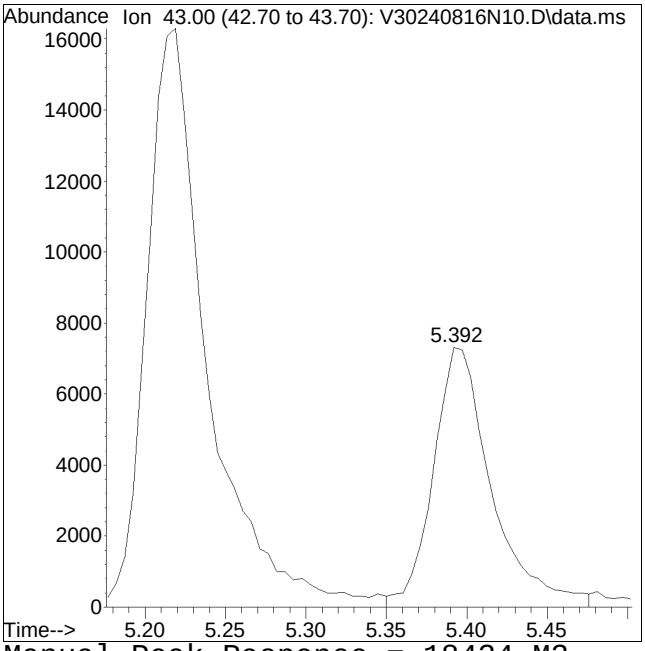


Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N10.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 12:16 am Instrument : VOA130
Sample : I8260STD10PPB Quant Date : 8/21/2024 6:34 am

Compound #42: 2-Butanone





Original Peak Response = 33195 Manual Peak Response = 18434 M3

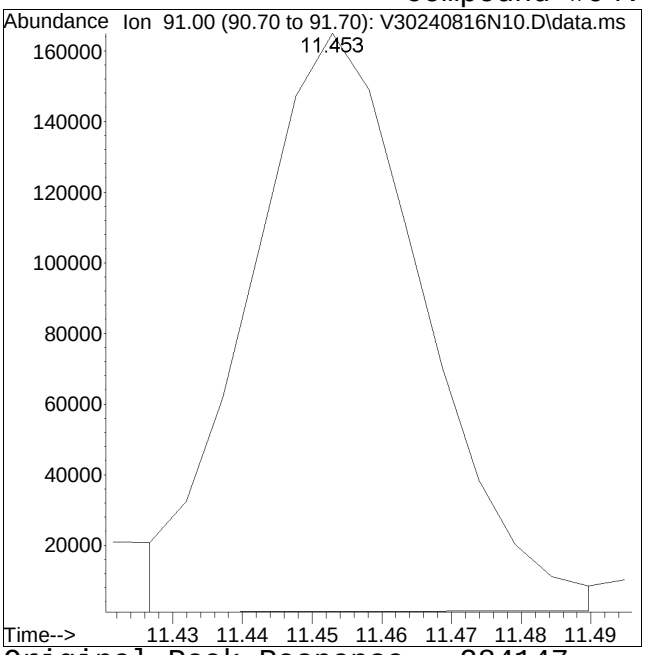
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

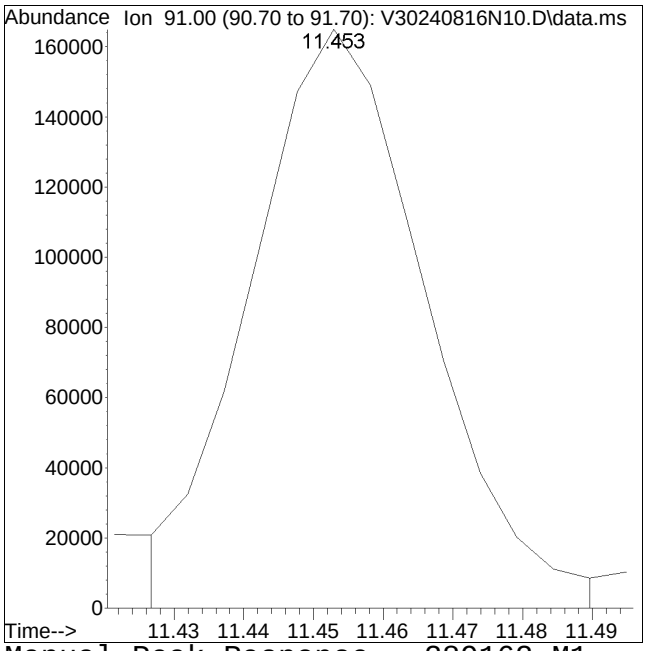
Data Path : K:\VOA130\2024\240816NICALQ
Data File : V30240816N10.D
Date Inj'd : 8/17/2024 12:16 am
Sample : I8260STD10PPB

Method : V130_240816N_8260D.m
Operator : VOA130:PID
Instrument : VOA130
Quant Date : 8/21/2024 6:34 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 284147



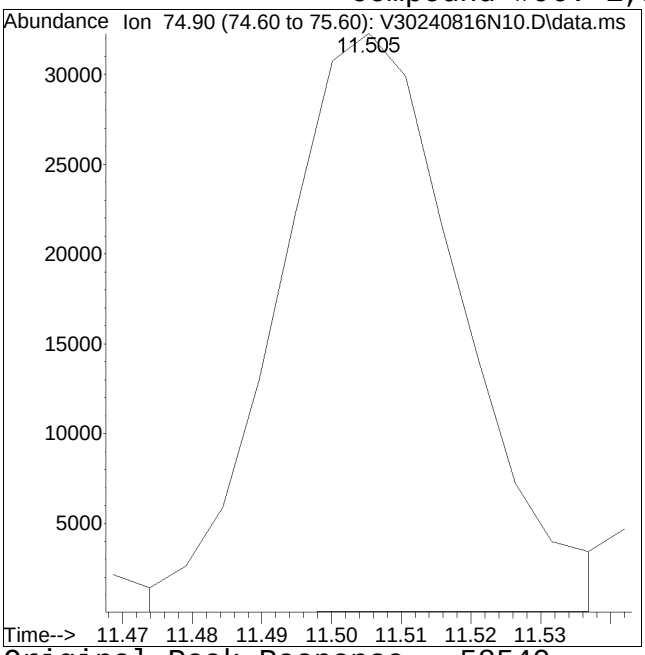
Manual Peak Response = 289162 M1

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

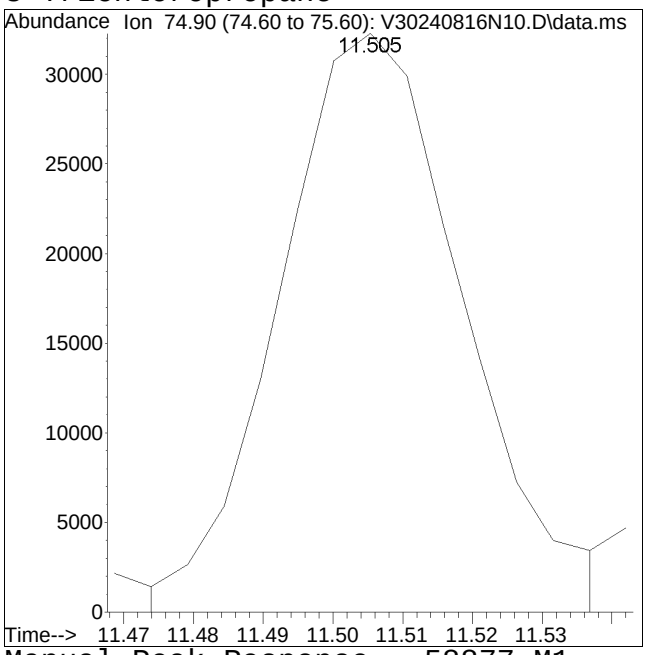
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N10.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 12:16 am Instrument : VOA130
Sample : I8260STD10PPB Quant Date : 8/21/2024 6:34 am

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 58540



Manual Peak Response = 58877 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N11.D
Acq On : 17 Aug 2024 12:38 am
Operator : VOA130:PID
Sample : I8260STD30PPB
Misc : WG1961896,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:34:34 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	494454	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 94.35%			
63) Chlorobenzene-d5	9.649	117	421884	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 100.14%			
84) 1,4-Dichlorobenzene-d4	12.334	152	219497	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 101.62%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.287	113	127353	9.859	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.59%			
47) 1,2-Dichloroethane-d4	5.811	65	119822	9.705	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.05%			
64) Toluene-d8	7.798	98	546654	10.050	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.50%			
88) 4-Bromofluorobenzene	11.133	95	195699	10.169	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.675	85	373790	32.734	ug/L	95
3) Chloromethane	1.869	50	383332	31.082	ug/L	98
4) Vinyl chloride	1.947	62	360325	32.570	ug/L	100
5) Bromomethane	2.267	94	201212	30.356	ug/L	98
6) Chloroethane	2.388	64	222546	31.582	ug/L	98
7) Trichlorofluoromethane	2.529	101	396130	31.807	ug/L	98
8) Ethyl ether	2.828	74	108538	30.189	ug/L	78
10) 1,1-Dichloroethene	3.022	96	243205	31.898	ug/L #	70
11) Carbon disulfide	3.053	76	735522	30.881	ug/L	100
12) Freon-113	3.064	101	237547	34.083	ug/L	86
13) Iodomethane	3.164	142	377618	28.541	ug/L	99
14) Acrolein	3.337	56	27926	27.813	ug/L	99
15) Methylene chloride	3.578	84	313345	30.728	ug/L	76
17) Acetone	3.609	43	34651	22.591	ug/L #	86
18) trans-1,2-Dichloroethene	3.735	96	253705	32.310	ug/L	80
19) Methyl acetate	3.735	43	79212	28.105	ug/L #	77
21) Methyl tert-butyl ether	3.835	73	448499	27.680	ug/L	91
22) tert-Butyl alcohol	3.913	59	42910	146.753	ug/L #	53
24) Diisopropyl ether	4.202	45	664169	33.332	ug/L #	93
25) 1,1-Dichloroethane	4.322	63	467902	31.640	ug/L #	97
26) Halothane	4.375	117	174320	31.941	ug/L	98

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N11.D
Acq On : 17 Aug 2024 12:38 am
Operator : VOA130:PID
Sample : I8260STD30PPB
Misc : WG1961896,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:34:34 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.354	53	53199	29.698	ug/L		94
28) Ethyl tert-butyl ether	4.548	59	605991	32.085	ug/L		81
29) Vinyl acetate	4.553	43	353420	28.757	ug/L	#	90
30) cis-1,2-Dichloroethene	4.841	96	293221	31.863	ug/L	#	76
31) 2,2-Dichloropropane	4.946	77	368554	32.538	ug/L	#	77
33) Bromochloromethane	5.035	128	134937	30.825	ug/L	#	55
34) Cyclohexane	5.051	56	374412	31.505	ug/L		79
35) Chloroform	5.109	83	467630	32.485	ug/L		93
36) Ethyl acetate	5.214	43	110091	27.581	ug/L	#	93
37) Carbon tetrachloride	5.250	117	297447	32.334	ug/L		99
38) Tetrahydrofuran	5.256	42	34454M6	26.185	ug/L		
40) 1,1,1-Trichloroethane	5.313	97	362049	31.868	ug/L		91
42) 2-Butanone	5.392	43	48986M3	26.316	ug/L		
43) 1,1-Dichloropropene	5.439	75	301240	30.709	ug/L		93
45) Benzene	5.680	78	961321	30.920	ug/L		95
46) tert-Amyl methyl ether	5.796	73	561908	32.179	ug/L		93
48) 1,2-Dichloroethane	5.880	62	276756	30.926	ug/L	#	96
51) Methyl cyclohexane	6.278	83	410098	33.356	ug/L	#	80
52) Trichloroethene	6.283	95	251930	30.381	ug/L		92
54) Dibromomethane	6.718	93	129475	30.314	ug/L	#	88
55) 1,2-Dichloropropane	6.823	63	219766	30.275	ug/L		96
57) 2-Chloroethyl vinyl ether	7.515	63	140281	32.761	ug/L	#	77
58) Bromodichloromethane	6.897	83	292415	29.378	ug/L	#	97
61) 1,4-Dioxane	7.101	88	27849	598.637	ug/L	#	87
62) cis-1,3-Dichloropropene	7.589	75	346214	30.802	ug/L	#	81
65) Toluene	7.861	92	724664	33.140	ug/L		98
66) 4-Methyl-2-pentanone	8.286	58	57913	34.684	ug/L	#	72
67) Tetrachloroethene	8.312	166	287318	33.133	ug/L	#	92
69) trans-1,3-Dichloropropene	8.333	75	305013	31.690	ug/L	#	74
71) Ethyl methacrylate	8.527	69	277184	33.333	ug/L		92
72) 1,1,2-Trichloroethane	8.522	83	149652	30.594	ug/L		95
73) Chlorodibromomethane	8.737	129	201982	30.052	ug/L		98
74) 1,3-Dichloropropane	8.847	76	306377	30.613	ug/L		100
75) 1,2-Dibromoethane	9.015	107	139081	28.405	ug/L		100
77) 2-Hexanone	9.298	43	95270	32.490	ug/L		90
78) Chlorobenzene	9.670	112	788937	32.504	ug/L		96
79) Ethylbenzene	9.712	91	1352650	32.929	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.754	131	224530	32.278	ug/L		99
81) p/m Xylene	9.896	106	1061615	64.798	ug/L		90
82) o Xylene	10.431	106	1013079	64.176	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N11.D
Acq On : 17 Aug 2024 12:38 am
Operator : VOA130:PID
Sample : I8260STD30PPB
Misc : WG1961896,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:34:34 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.499	104	1700890	65.353	ug/L		93
85) Bromoform	10.520	173	121133	32.155	ug/L		97
87) Isopropylbenzene	10.813	105	1249130	34.072	ug/L		96
89) Bromobenzene	11.243	156	319573	33.327	ug/L		99
90) n-Propylbenzene	11.290	91	1487721	33.734	ug/L		94
91) 1,4-Dichlorobutane	11.296	55	299310	32.053	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.369	83	211932	32.282	ug/L		99
93) 4-Ethyltoluene	11.416	105	1249229	33.712	ug/L		97
94) 2-Chlorotoluene	11.453	91	924504M6	33.762	ug/L		
95) 1,3,5-Trimethylbenzene	11.511	105	1115255	33.953	ug/L		96
96) 1,2,3-Trichloropropane	11.505	75	167760M1	31.700	ug/L		
97) trans-1,4-Dichloro-2-b...	11.558	53	46043	29.623	ug/L	#	81
98) 4-Chlorotoluene	11.636	91	954674	33.229	ug/L		92
99) tert-Butylbenzene	11.851	119	899097	33.503	ug/L		92
102) 1,2,4-Trimethylbenzene	11.925	105	1078145	33.980	ug/L		96
103) sec-Butylbenzene	12.040	105	1303733	33.832	ug/L		93
104) p-Isopropyltoluene	12.192	119	1131063	33.637	ug/L		96
105) 1,3-Dichlorobenzene	12.255	146	615006	32.641	ug/L		97
106) 1,4-Dichlorobenzene	12.350	146	617489	32.487	ug/L		98
107) p-Diethylbenzene	12.564	119	646896	33.016	ug/L		95
108) n-Butylbenzene	12.622	91	943341	33.743	ug/L	#	97
109) 1,2-Dichlorobenzene	12.769	146	578260	32.420	ug/L		97
110) 1,2,4,5-Tetramethylben...	13.356	119	985705	32.976	ug/L		95
111) 1,2-Dibromo-3-chloropr...	13.545	155	27951	30.246	ug/L		98
112) 1,3,5-Trichlorobenzene	13.582	180	434808	32.900	ug/L		95
113) Hexachlorobutadiene	14.158	225	150148	33.097	ug/L		99
114) 1,2,4-Trichlorobenzene	14.179	180	391419	32.765	ug/L		99
115) Naphthalene	14.468	128	800510	31.943	ug/L		100
116) 1,2,3-Trichlorobenzene	14.635	180	363999	32.490	ug/L		98

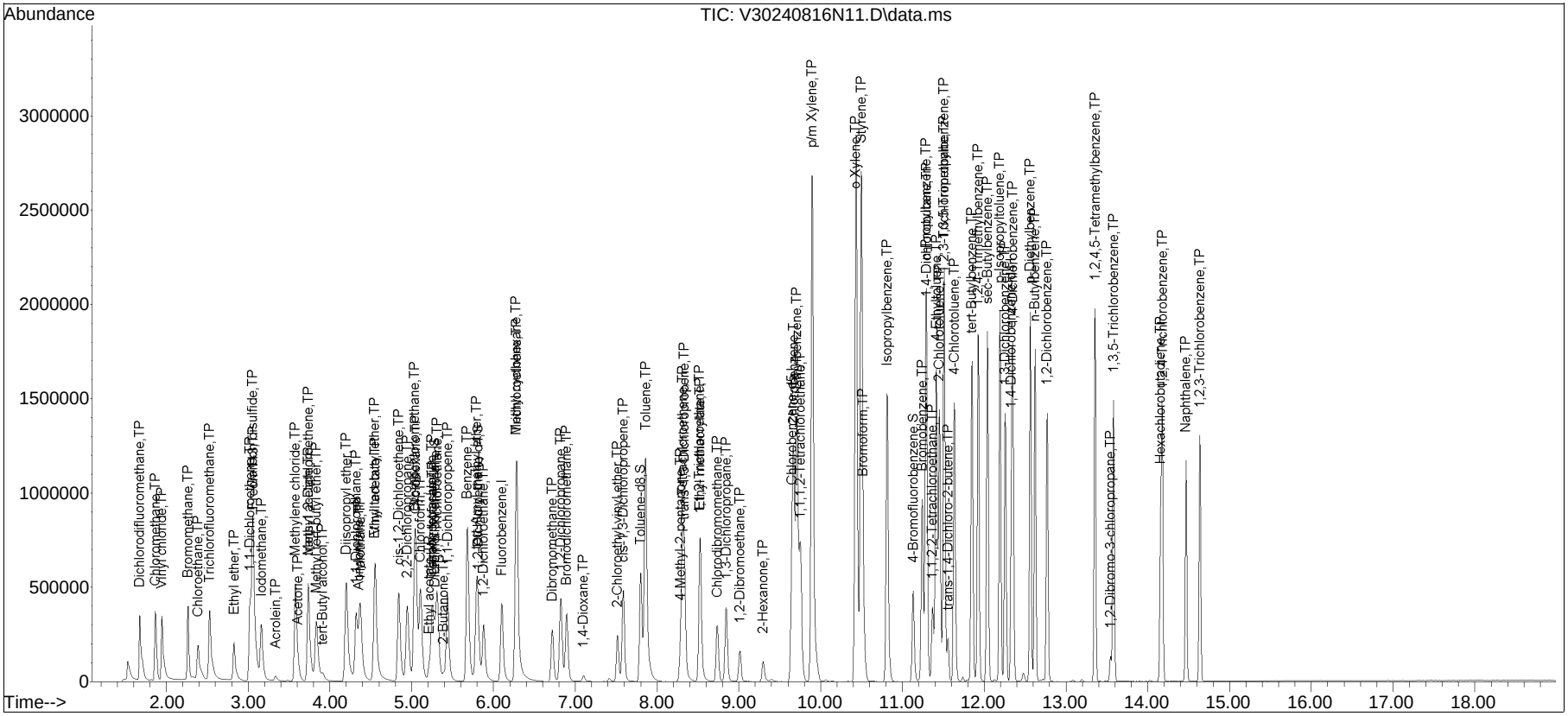
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N11.D
Acq On : 17 Aug 2024 12:38 am
Operator : VOA130:PID
Sample : I8260STD30PPB
Misc : WG1961896,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:34:34 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

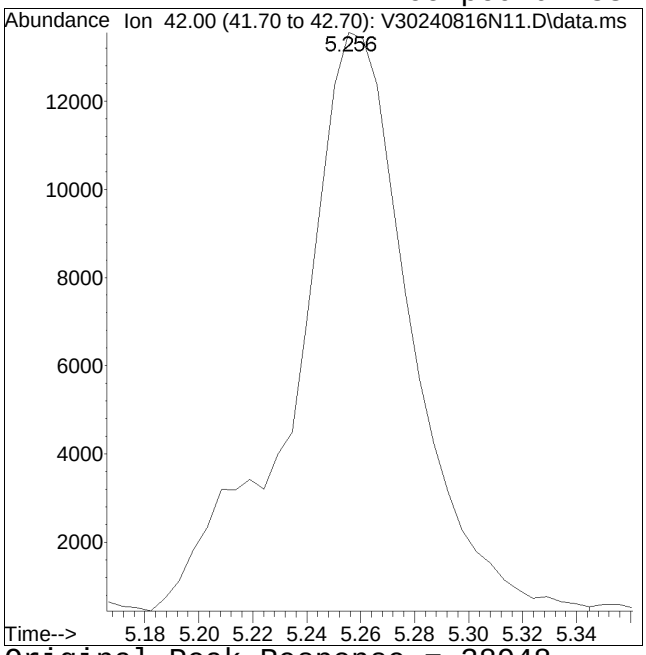
Sub List : 8260-Curve - Megamix plus Diox\V30240816N10.D•



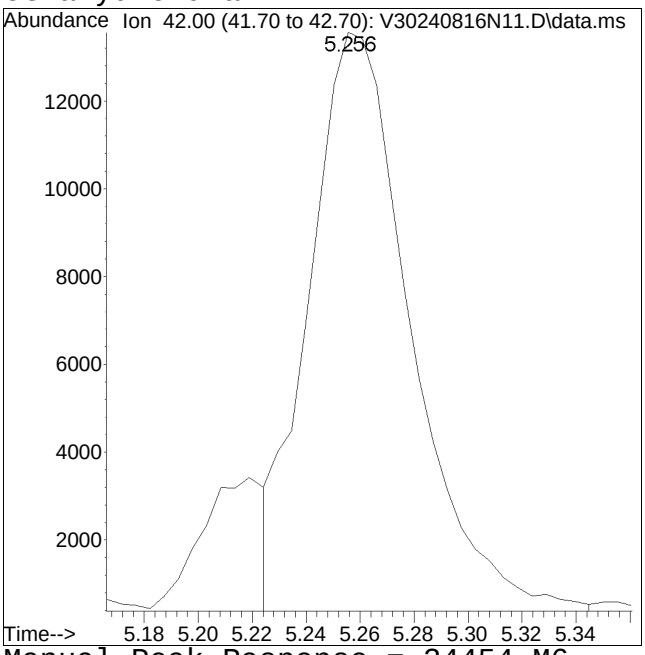
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N11.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 12:38 am Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 8/21/2024 6:34 am

Compound #38: Tetrahydrofuran



Original Peak Response = 38948



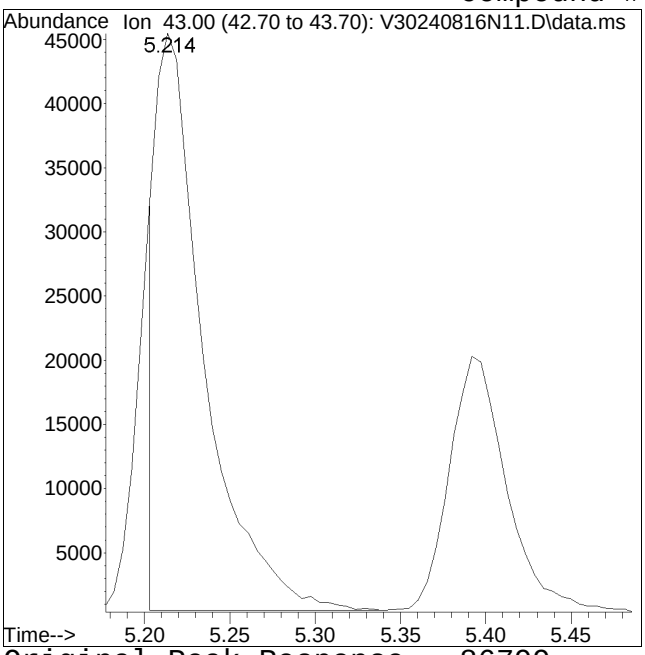
Manual Peak Response = 34454 M6

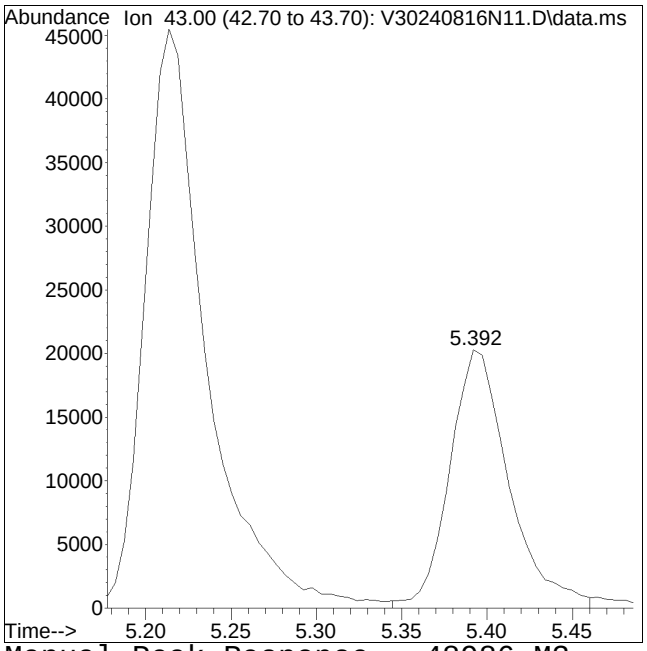
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N11.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 12:38 am Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 8/21/2024 6:34 am

Compound #42: 2-Butanone





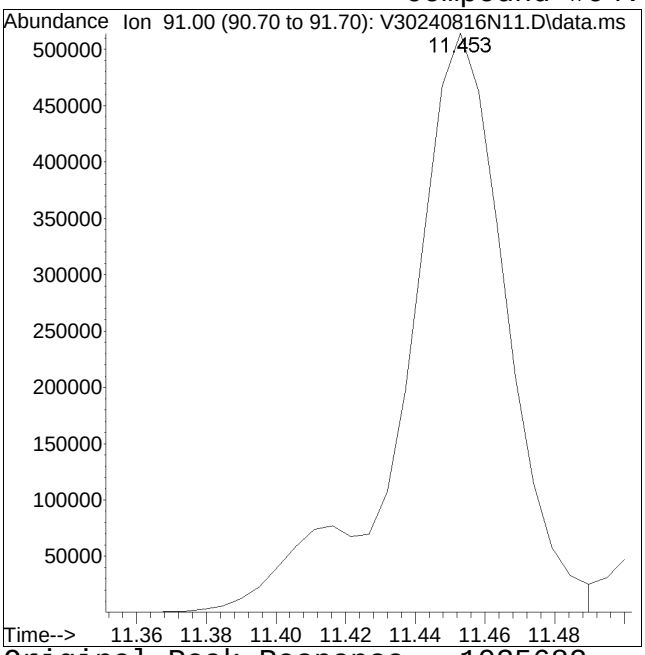
Original Peak Response = 86799 Manual Peak Response = 48986 M3

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

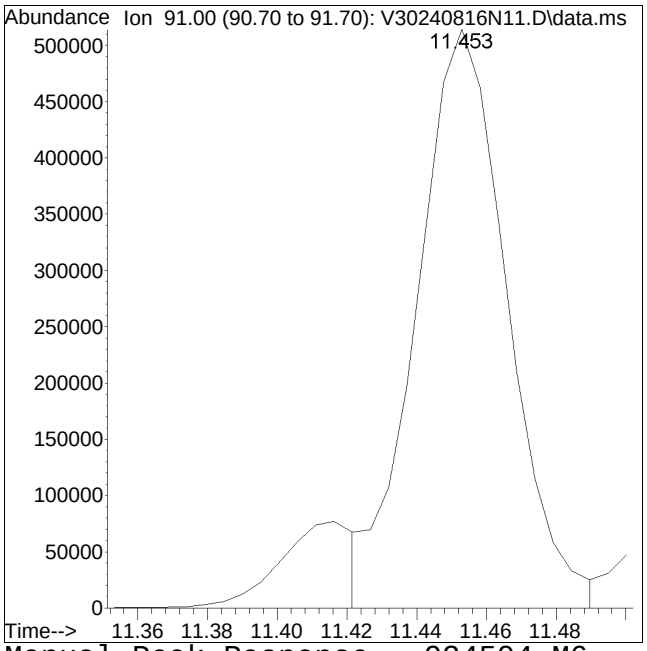
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N11.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 12:38 am Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 8/21/2024 6:34 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 1035682



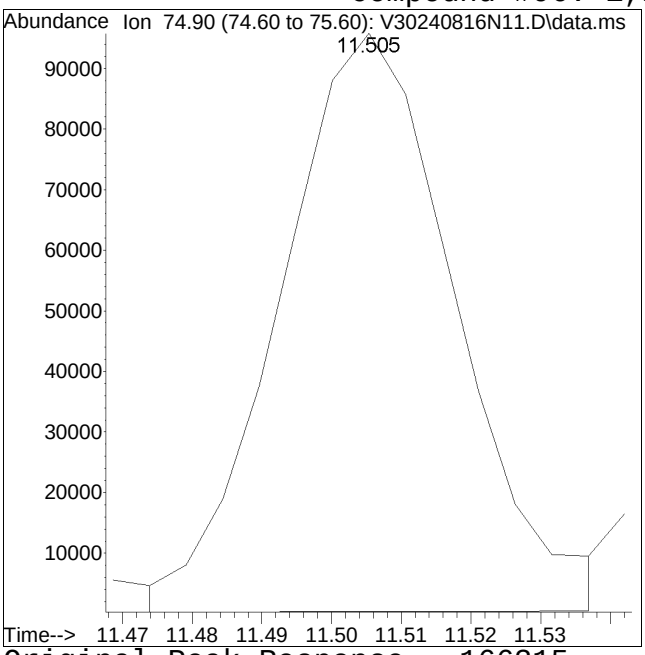
Manual Peak Response = 924504 M6

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

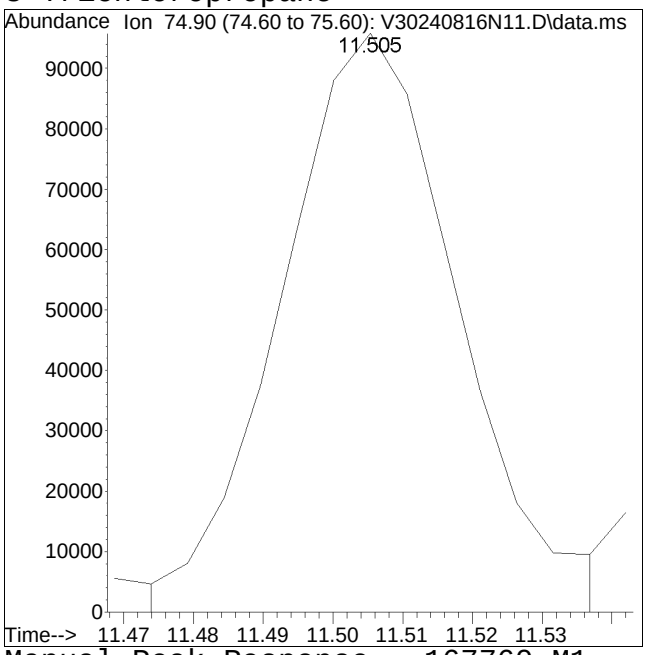
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N11.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 12:38 am Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 8/21/2024 6:34 am

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 166315



Manual Peak Response = 167760 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N12.D
Acq On : 17 Aug 2024 01:00 am
Operator : VOA130:PID
Sample : I8260STD80PPB
Misc : WG1961896,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 06:34:42 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	466497	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 89.01%			
63) Chlorobenzene-d5	9.649	117	425028	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 100.89%			
84) 1,4-Dichlorobenzene-d4	12.334	152	240974	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 111.56%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.282	113	129119	10.595	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.95%			
47) 1,2-Dichloroethane-d4	5.811	65	123755	10.624	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.24%			
64) Toluene-d8	7.798	98	536036	9.782	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.82%			
88) 4-Bromofluorobenzene	11.128	95	206372	9.768	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.674	85	964389	89.517	ug/L	95
3) Chloromethane	1.863	50	985416	84.688	ug/L	97
4) Vinyl chloride	1.947	62	933976	89.483	ug/L	100
5) Bromomethane	2.262	94	532061	85.081	ug/L	98
6) Chloroethane	2.388	64	583829	87.818	ug/L	99
7) Trichlorofluoromethane	2.529	101	1063790	90.535	ug/L	99
8) Ethyl ether	2.828	74	309942	91.375	ug/L #	78
10) 1,1-Dichloroethene	3.022	96	631161	87.742	ug/L #	70
11) Carbon disulfide	3.053	76	1971693	87.743	ug/L	99
12) Freon-113	3.064	101	633701	96.371	ug/L	85
13) Iodomethane	3.164	142	1044042	83.641	ug/L	99
14) Acrolein	3.337	56	76140	80.378	ug/L	98
15) Methylene chloride	3.578	84	825711	85.825	ug/L	75
17) Acetone	3.609	43	92608	63.996	ug/L #	86
18) trans-1,2-Dichloroethene	3.735	96	664943	89.758	ug/L	79
19) Methyl acetate	3.735	43	215258	80.953	ug/L #	78
21) Methyl tert-butyl ether	3.835	73	1295967	84.778	ug/L	91
22) tert-Butyl alcohol	3.913	59	114494	415.038	ug/L #	53
24) Diisopropyl ether	4.196	45	1646227	87.568	ug/L #	93
25) 1,1-Dichloroethane	4.322	63	1213736	86.994	ug/L #	97
26) Halothane	4.375	117	517833	100.570	ug/L	98

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N12.D
Acq On : 17 Aug 2024 01:00 am
Operator : VOA130:PID
Sample : I8260STD80PPB
Misc : WG1961896,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 06:34:42 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.354	53	144605	85.564	ug/L		94
28) Ethyl tert-butyl ether	4.548	59	1511705	84.837	ug/L		84
29) Vinyl acetate	4.553	43	965034	83.229	ug/L	#	88
30) cis-1,2-Dichloroethene	4.841	96	767034	88.347	ug/L	#	76
31) 2,2-Dichloropropane	4.946	77	1002860	93.845	ug/L	#	77
33) Bromochloromethane	5.030	128	361902	87.628	ug/L	#	54
34) Cyclohexane	5.051	56	1063525	94.853	ug/L		79
35) Chloroform	5.109	83	1213641	89.361	ug/L		92
36) Ethyl acetate	5.214	43	294564	78.220	ug/L	#	95
37) Carbon tetrachloride	5.250	117	890065M6	102.552	ug/L		
38) Tetrahydrofuran	5.256	42	94770M6	76.342	ug/L		
40) 1,1,1-Trichloroethane	5.313	97	1033930	96.461	ug/L		91
42) 2-Butanone	5.392	43	127769	72.752	ug/L		93
43) 1,1-Dichloropropene	5.434	75	834953	90.217	ug/L		93
45) Benzene	5.680	78	2418569	82.453	ug/L		94
46) tert-Amyl methyl ether	5.796	73	1406380	85.367	ug/L		93
48) 1,2-Dichloroethane	5.879	62	758277	89.812	ug/L	#	97
51) Methyl cyclohexane	6.278	83	1055352	90.984	ug/L	#	79
52) Trichloroethene	6.283	95	662627	84.696	ug/L		92
54) Dibromomethane	6.718	93	354614	88.001	ug/L	#	88
55) 1,2-Dichloropropane	6.823	63	607624	88.722	ug/L		96
57) 2-Chloroethyl vinyl ether	7.515	63	348808	86.342	ug/L	#	78
58) Bromodichloromethane	6.897	83	867663	92.397	ug/L	#	98
61) 1,4-Dioxane	7.101	88	36783	838.065	ug/L	#	86
62) cis-1,3-Dichloropropene	7.583	75	951010	89.680	ug/L	#	80
65) Toluene	7.856	92	1821777	82.696	ug/L		97
66) 4-Methyl-2-pentanone	8.286	58	151526	90.078	ug/L	#	70
67) Tetrachloroethene	8.312	166	720610	82.486	ug/L	#	92
69) trans-1,3-Dichloropropene	8.333	75	816544	84.208	ug/L	#	74
71) Ethyl methacrylate	8.527	69	725682	86.621	ug/L		93
72) 1,1,2-Trichloroethane	8.522	83	384040	77.931	ug/L		94
73) Chlorodibromomethane	8.737	129	557691	82.363	ug/L		98
74) 1,3-Dichloropropane	8.847	76	792513	78.601	ug/L		100
75) 1,2-Dibromoethane	9.010	107	376947	76.416	ug/L		100
77) 2-Hexanone	9.293	43	247502	83.782	ug/L	#	86
78) Chlorobenzene	9.670	112	2043840	83.584	ug/L		96
79) Ethylbenzene	9.712	91	3540685	85.557	ug/L		95
80) 1,1,1,2-Tetrachloroethane	9.754	131	590843	84.310	ug/L		99
81) p/m Xylene	9.896	106	2789255	168.989	ug/L		89
82) o Xylene	10.430	106	2660274	167.276	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N12.D
Acq On : 17 Aug 2024 01:00 am
Operator : VOA130:PID
Sample : I8260STD80PPB
Misc : WG1961896,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 06:34:42 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.499	104	4481699	170.925	ug/L		93
85) Bromoform	10.520	173	337346	81.569	ug/L		99
87) Isopropylbenzene	10.813	105	3336211	82.890	ug/L		95
89) Bromobenzene	11.243	156	868557	82.505	ug/L		99
90) n-Propylbenzene	11.290	91	4032489	83.287	ug/L		93
91) 1,4-Dichlorobutane	11.296	55	784333	76.509	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.369	83	584525	81.101	ug/L		99
93) 4-Ethyltoluene	11.416	105	3428929	84.287	ug/L		96
94) 2-Chlorotoluene	11.453	91	2478847M6	82.458	ug/L		
95) 1,3,5-Trimethylbenzene	11.511	105	3126063	86.689	ug/L		96
96) 1,2,3-Trichloropropane	11.505	75	432353M4	74.416	ug/L		
97) trans-1,4-Dichloro-2-b...	11.558	53	133113	78.008	ug/L	#	76
98) 4-Chlorotoluene	11.636	91	2603681	82.549	ug/L		92
99) tert-Butylbenzene	11.851	119	2408200	81.739	ug/L		93
102) 1,2,4-Trimethylbenzene	11.925	105	3097058	88.911	ug/L		96
103) sec-Butylbenzene	12.040	105	3515934	83.107	ug/L		92
104) p-Isopropyltoluene	12.192	119	3177769	86.081	ug/L		95
105) 1,3-Dichlorobenzene	12.255	146	1716560	82.985	ug/L		97
106) 1,4-Dichlorobenzene	12.349	146	1739080	83.342	ug/L		98
107) p-Diethylbenzene	12.564	119	1918116	89.171	ug/L		95
108) n-Butylbenzene	12.622	91	2731803	89.006	ug/L	#	96
109) 1,2-Dichlorobenzene	12.769	146	1614066	82.427	ug/L		97
110) 1,2,4,5-Tetramethylben...	13.356	119	2957960	90.138	ug/L		95
111) 1,2-Dibromo-3-chloropr...	13.545	155	83188	81.994	ug/L		95
112) 1,3,5-Trichlorobenzene	13.582	180	1293697	89.163	ug/L		95
113) Hexachlorobutadiene	14.158	225	442082	88.762	ug/L		100
114) 1,2,4-Trichlorobenzene	14.179	180	1134055	86.469	ug/L		99
115) Naphthalene	14.468	128	2213522	80.455	ug/L		100
116) 1,2,3-Trichlorobenzene	14.635	180	1026614	83.468	ug/L		98

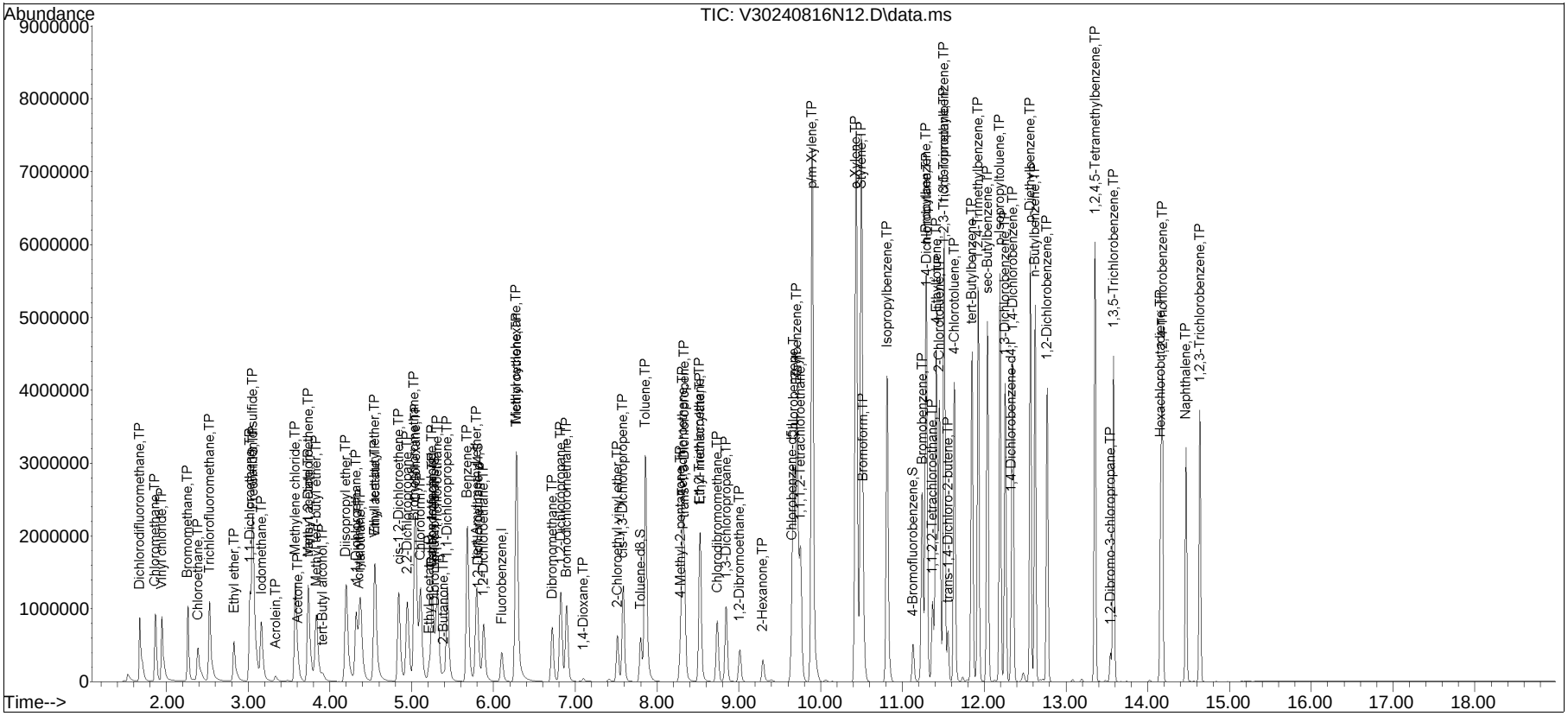
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N12.D
Acq On : 17 Aug 2024 01:00 am
Operator : VOA130:PID
Sample : I8260STD80PPB
Misc : WG1961896,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 06:34:42 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

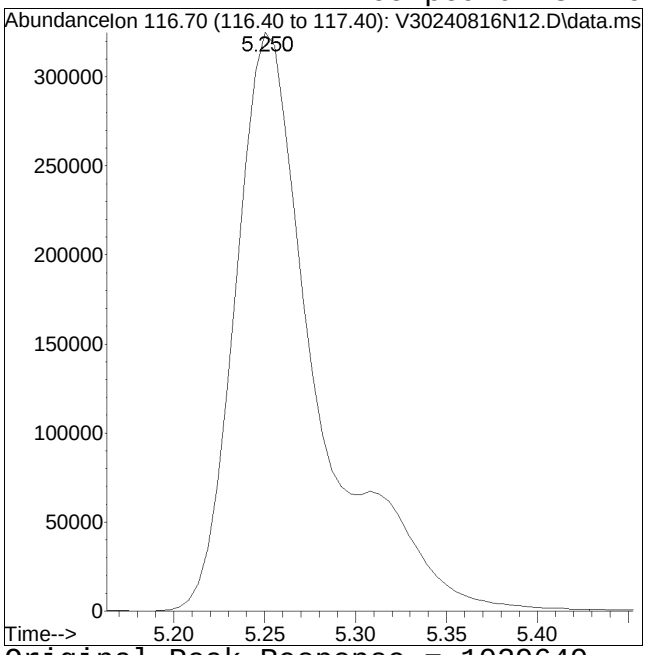
Sub List : 8260-Curve - Megamix plus Diox\V30240816N10.D•



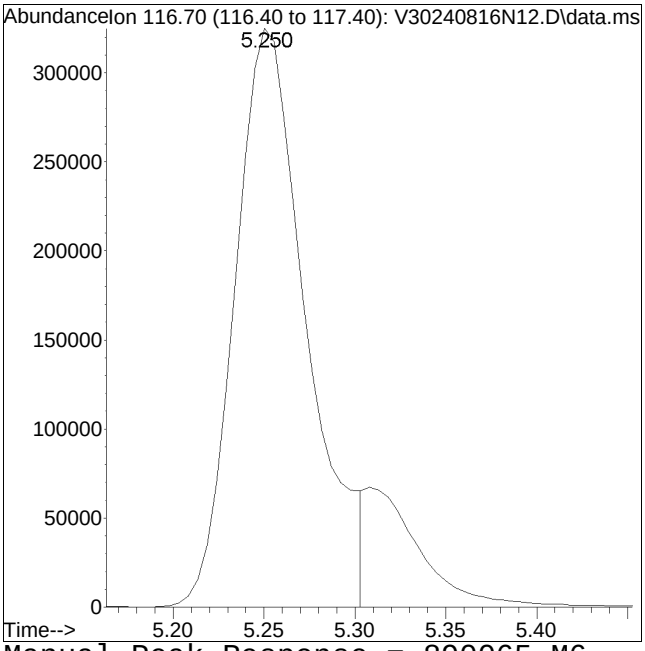
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N12.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:00 am Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 8/21/2024 6:34 am

Compound #37: Carbon tetrachloride



Original Peak Response = 1029649



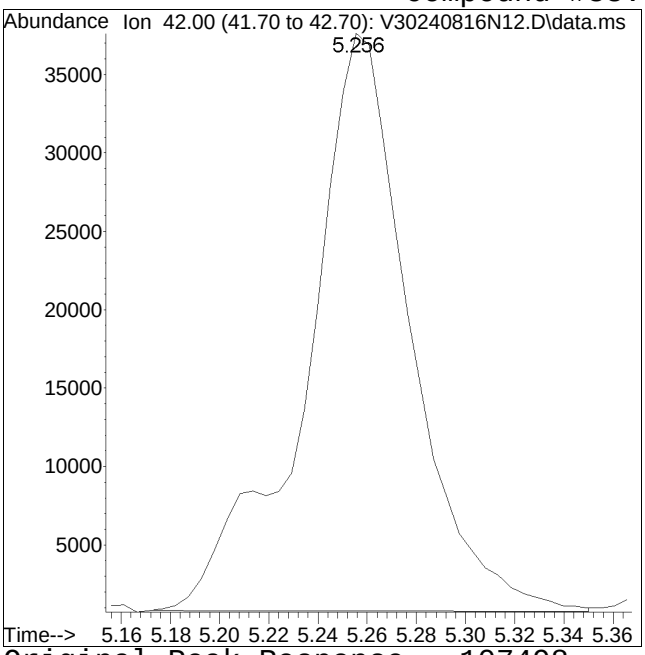
Manual Peak Response = 890065 M6

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

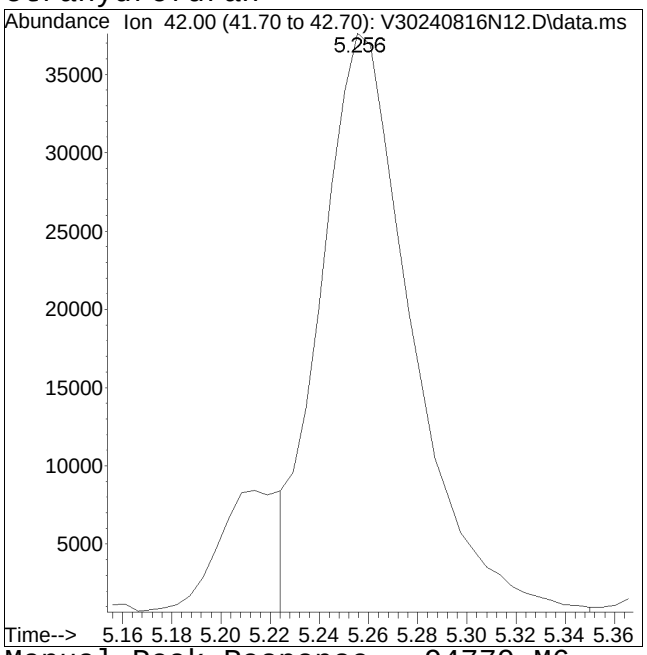
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N12.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:00 am Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 8/21/2024 6:34 am

Compound #38: Tetrahydrofuran



Original Peak Response = 107498



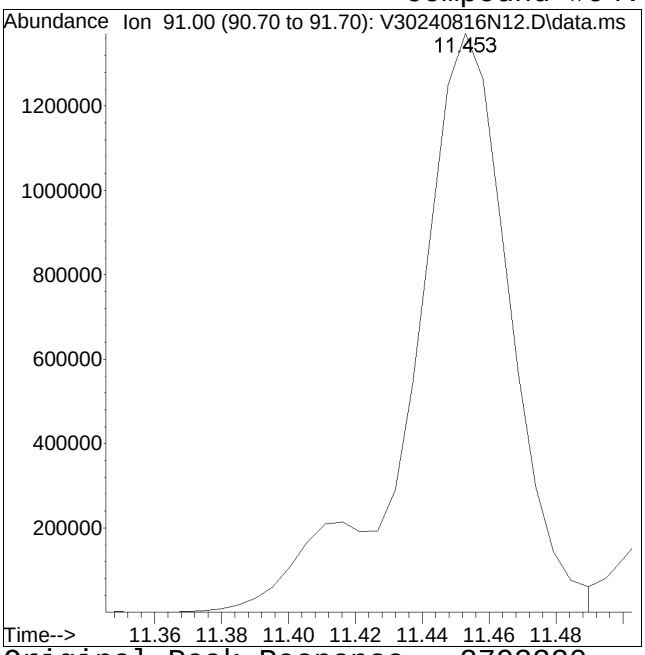
Manual Peak Response = 94770 M6

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

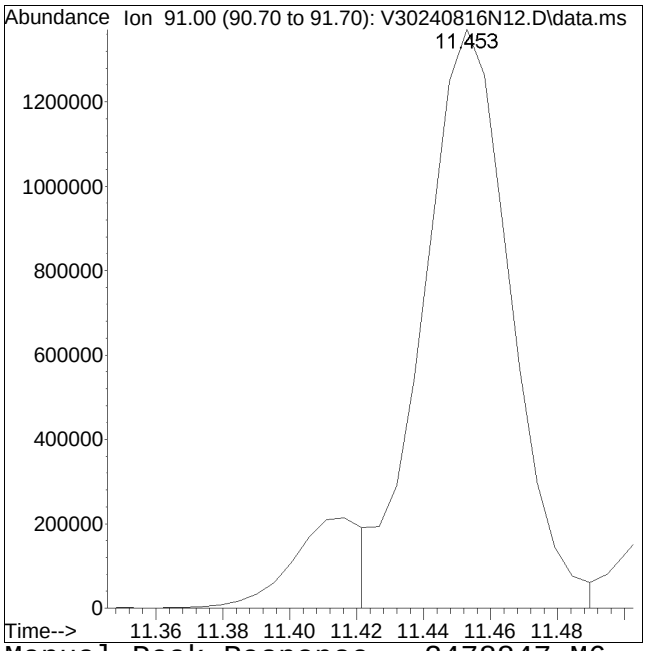
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N12.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:00 am Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 8/21/2024 6:34 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 2793320



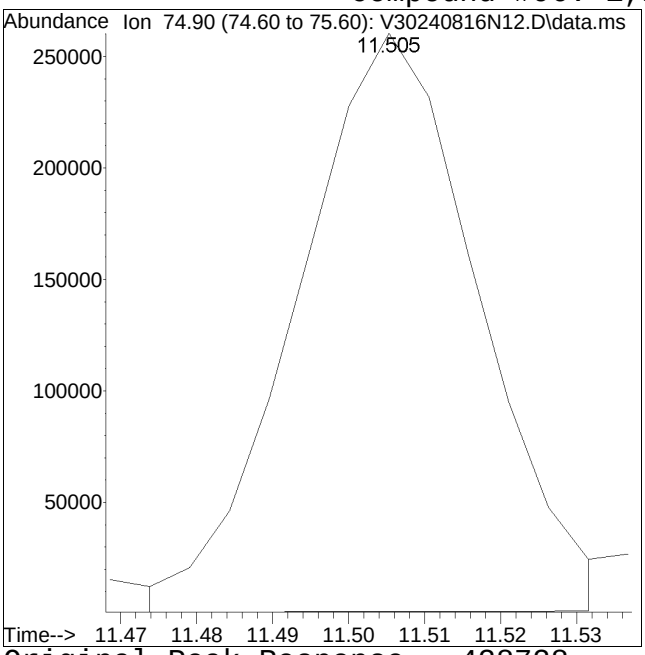
Manual Peak Response = 2478847 M6

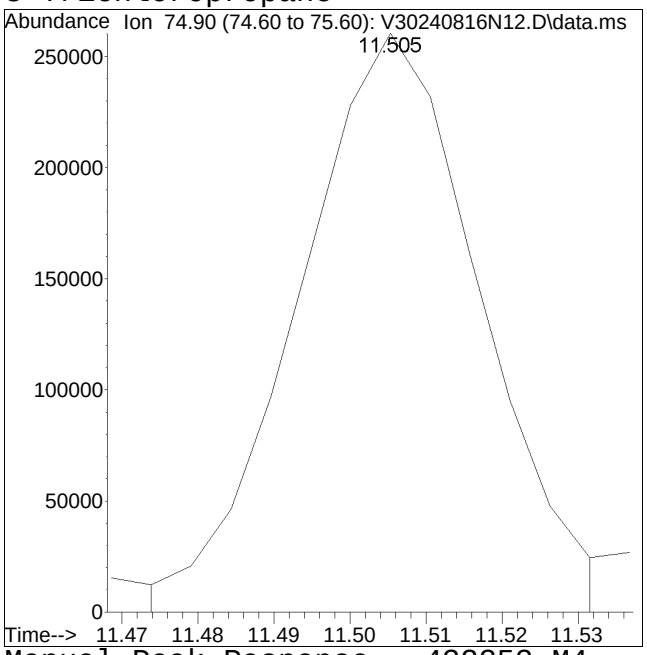
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N12.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:00 am Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 8/21/2024 6:34 am

Compound #96: 1,2,3-Trichloropropane





Original Peak Response = 428728 Manual Peak Response = 432353 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N13.D
Acq On : 17 Aug 2024 01:22 am
Operator : VOA130:PID
Sample : I8260STD120PPB
Misc : WG1961896,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 06:34:50 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	463713	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 88.48%			
63) Chlorobenzene-d5	9.649	117	434184	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 103.06%			
84) 1,4-Dichlorobenzene-d4	12.334	152	253757	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 117.48%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.287	113	133248	11.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.00%			
47) 1,2-Dichloroethane-d4	5.811	65	130039	11.231	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.31%			
64) Toluene-d8	7.798	98	529425	9.458	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.58%			
88) 4-Bromofluorobenzene	11.128	95	215490	9.685	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.85%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.674	85	1357867	126.797	ug/L	95
3) Chloromethane	1.863	50	1362835	117.828	ug/L	98
4) Vinyl chloride	1.947	62	1316024	126.844	ug/L	100
5) Bromomethane	2.262	94	749025	120.494	ug/L	98
6) Chloroethane	2.382	64	806812	122.087	ug/L	99
7) Trichlorofluoromethane	2.529	101	1510134	129.293	ug/L	98
8) Ethyl ether	2.828	74	447322	132.668	ug/L #	78
10) 1,1-Dichloroethene	3.022	96	896885	125.431	ug/L #	70
11) Carbon disulfide	3.053	76	2844390	127.339	ug/L	100
12) Freon-113	3.064	101	882207	134.968	ug/L	85
13) Iodomethane	3.164	142	1491583	120.212	ug/L	99
14) Acrolein	3.337	56	115640	122.809	ug/L	98
15) Methylene chloride	3.578	84	1150741	120.326	ug/L	75
17) Acetone	3.609	43	135116	93.931	ug/L #	85
18) trans-1,2-Dichloroethene	3.735	96	930338	126.336	ug/L	79
19) Methyl acetate	3.735	43	316956	119.914	ug/L #	79
21) Methyl tert-butyl ether	3.835	73	1945356	128.023	ug/L	90
22) tert-Butyl alcohol	3.913	59	175135	638.672	ug/L #	53
24) Diisopropyl ether	4.196	45	2195140	117.467	ug/L #	93
25) 1,1-Dichloroethane	4.322	63	1687924	121.707	ug/L #	97
26) Halothane	4.375	117	728484	142.330	ug/L	98

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N13.D
Acq On : 17 Aug 2024 01:22 am
Operator : VOA130:PID
Sample : I8260STD120PPB
Misc : WG1961896,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 06:34:50 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.354	53	218831	130.261	ug/L		94
28) Ethyl tert-butyl ether	4.548	59	2081625	117.522	ug/L		87
29) Vinyl acetate	4.553	43	1431054	124.162	ug/L	#	88
30) cis-1,2-Dichloroethene	4.841	96	1067617	123.706	ug/L	#	76
31) 2,2-Dichloropropane	4.946	77	1414582	133.168	ug/L	#	77
33) Bromochloromethane	5.035	128	514600	125.349	ug/L	#	54
34) Cyclohexane	5.051	56	1517357	136.141	ug/L		79
35) Chloroform	5.109	83	1681813	124.577	ug/L		92
36) Ethyl acetate	5.214	43	430866	115.101	ug/L	#	94
37) Carbon tetrachloride	5.250	117	1280316	148.401	ug/L		87
38) Tetrahydrofuran	5.256	42	141026	114.285	ug/L	#	74
40) 1,1,1-Trichloroethane	5.313	97	1454333	136.497	ug/L		91
42) 2-Butanone	5.392	43	190012M3	108.843	ug/L		
43) 1,1-Dichloropropene	5.434	75	1197493	130.166	ug/L		93
45) Benzene	5.680	78	3335941	114.411	ug/L		94
46) tert-Amyl methyl ether	5.796	73	1926350	117.631	ug/L		93
48) 1,2-Dichloroethane	5.879	62	1074114	127.985	ug/L	#	97
51) Methyl cyclohexane	6.278	83	1459937	126.619	ug/L	#	79
52) Trichloroethene	6.283	95	926449	119.128	ug/L		91
54) Dibromomethane	6.718	93	512476	127.940	ug/L	#	87
55) 1,2-Dichloropropane	6.823	63	860091	126.339	ug/L		96
57) 2-Chloroethyl vinyl ether	7.515	63	490272	122.088	ug/L	#	77
58) Bromodichloromethane	6.897	83	1254000	134.339	ug/L	#	98
61) 1,4-Dioxane	7.096	88	54466	1248.406	ug/L	#	85
62) cis-1,3-Dichloropropene	7.583	75	1356736	128.709	ug/L	#	80
65) Toluene	7.856	92	2456182	109.143	ug/L		97
66) 4-Methyl-2-pentanone	8.286	58	215741	125.548	ug/L	#	70
67) Tetrachloroethene	8.312	166	983886	110.247	ug/L	#	92
69) trans-1,3-Dichloropropene	8.333	75	1158187	116.922	ug/L	#	74
71) Ethyl methacrylate	8.527	69	1022688	119.499	ug/L		93
72) 1,1,2-Trichloroethane	8.522	83	544865	108.234	ug/L		94
73) Chlorodibromomethane	8.737	129	816967	118.110	ug/L		98
74) 1,3-Dichloropropane	8.847	76	1129249	109.637	ug/L		100
75) 1,2-Dibromoethane	9.015	107	550863	109.318	ug/L		99
77) 2-Hexanone	9.293	43	357619	118.504	ug/L	#	86
78) Chlorobenzene	9.670	112	2784987	111.491	ug/L		95
79) Ethylbenzene	9.712	91	4902790	115.972	ug/L		95
80) 1,1,1,2-Tetrachloroethane	9.754	131	818660	114.355	ug/L		99
81) p/m Xylene	9.896	106	3875521	229.850	ug/L		88
82) o Xylene	10.430	106	3730844	229.645	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N13.D
Acq On : 17 Aug 2024 01:22 am
Operator : VOA130:PID
Sample : I8260STD120PPB
Misc : WG1961896,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 06:34:50 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.499	104	6181248	230.772	ug/L		94
85) Bromoform	10.520	173	491374	112.827	ug/L		97
87) Isopropylbenzene	10.813	105	4703262	110.969	ug/L		95
89) Bromobenzene	11.243	156	1229356	110.894	ug/L		99
90) n-Propylbenzene	11.290	91	5703633	111.869	ug/L		92
91) 1,4-Dichlorobutane	11.296	55	1130157	104.689	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.369	83	862591	113.653	ug/L	#	99
93) 4-Ethyltoluene	11.416	105	4874802	113.792	ug/L		96
94) 2-Chlorotoluene	11.453	91	3418841M1	107.998	ug/L		
95) 1,3,5-Trimethylbenzene	11.511	105	4420805	116.418	ug/L		95
96) 1,2,3-Trichloropropane	11.505	75	627594M1	102.580	ug/L		
97) trans-1,4-Dichloro-2-b...	11.558	53	203617	113.315	ug/L	#	75
98) 4-Chlorotoluene	11.636	91	3673870	110.611	ug/L		91
99) tert-Butylbenzene	11.851	119	3437959	110.812	ug/L		92
102) 1,2,4-Trimethylbenzene	11.925	105	4404194	120.067	ug/L		95
103) sec-Butylbenzene	12.040	105	5047127	113.291	ug/L		91
104) p-Isopropyltoluene	12.192	119	4541864	116.834	ug/L		96
105) 1,3-Dichlorobenzene	12.255	146	2452000	112.567	ug/L		97
106) 1,4-Dichlorobenzene	12.349	146	2486151	113.142	ug/L		97
107) p-Diethylbenzene	12.564	119	2769008	122.243	ug/L		95
108) n-Butylbenzene	12.622	91	3906511	120.868	ug/L	#	96
109) 1,2-Dichlorobenzene	12.769	146	2335401	113.257	ug/L		97
110) 1,2,4,5-Tetramethylben...	13.356	119	4237623	122.628	ug/L		95
111) 1,2-Dibromo-3-chloropr...	13.545	155	126715	118.605	ug/L		98
112) 1,3,5-Trichlorobenzene	13.582	180	1842839	120.612	ug/L		95
113) Hexachlorobutadiene	14.158	225	628372	119.810	ug/L		99
114) 1,2,4-Trichlorobenzene	14.179	180	1621050	117.374	ug/L		99
115) Naphthalene	14.468	128	3249833	112.171	ug/L		100
116) 1,2,3-Trichlorobenzene	14.635	180	1473949	113.802	ug/L		98

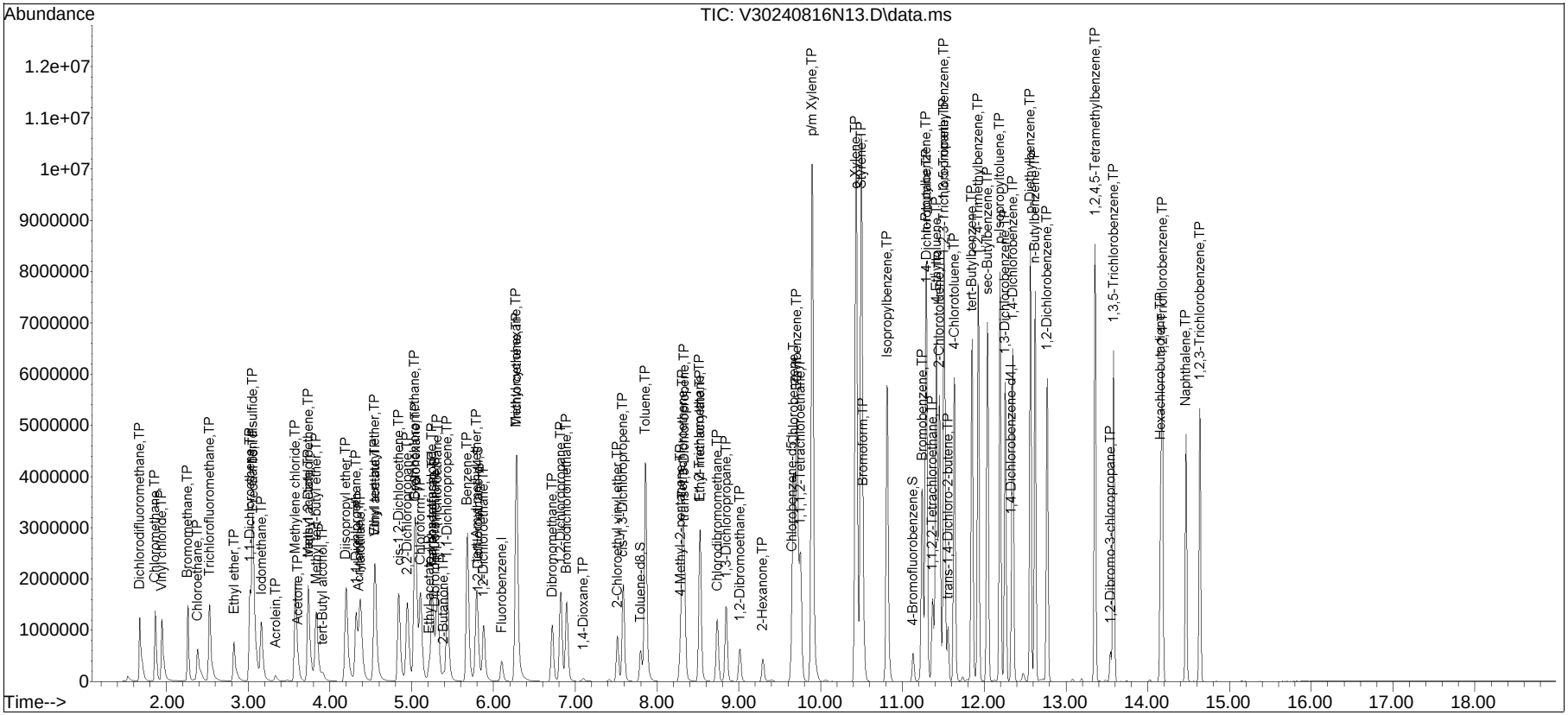
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N13.D
Acq On : 17 Aug 2024 01:22 am
Operator : VOA130:PID
Sample : I8260STD120PPB
Misc : WG1961896,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 06:34:50 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

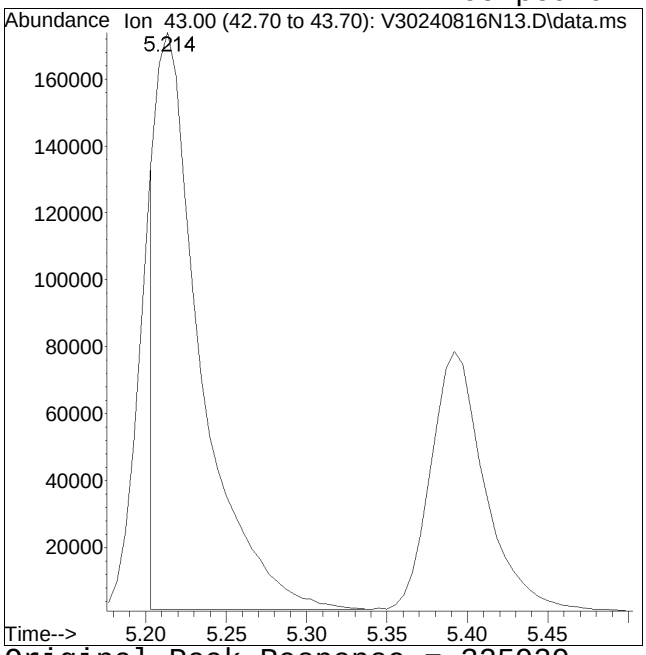
Sub List : 8260-Curve - Megamix plus Diox\V30240816N10.D•

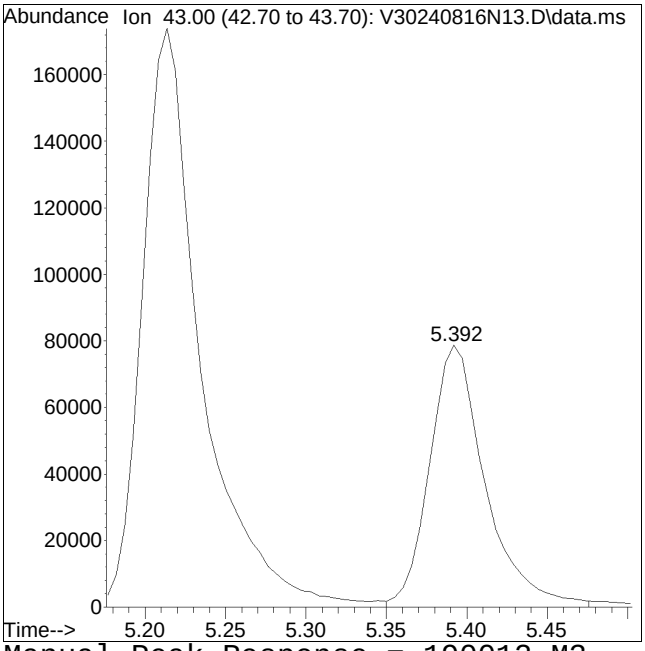


Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N13.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:22 am Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 8/21/2024 6:34 am

Compound #42: 2-Butanone





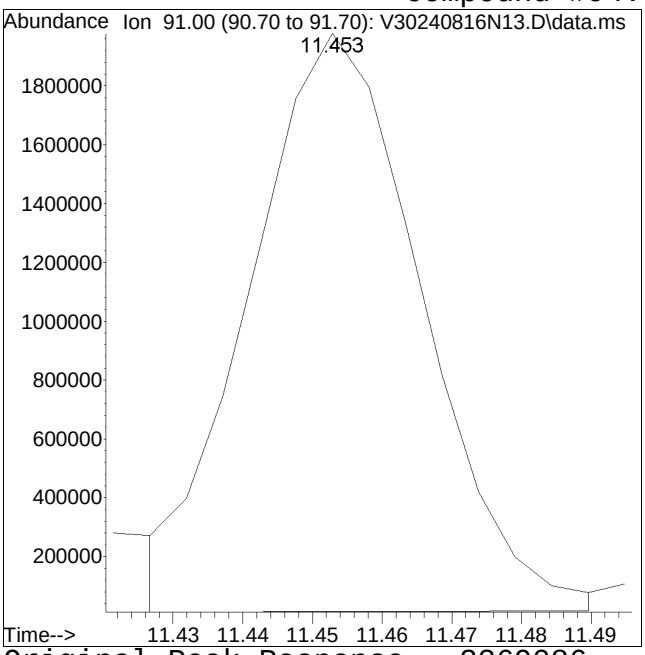
Original Peak Response = 325929 Manual Peak Response = 190012 M3

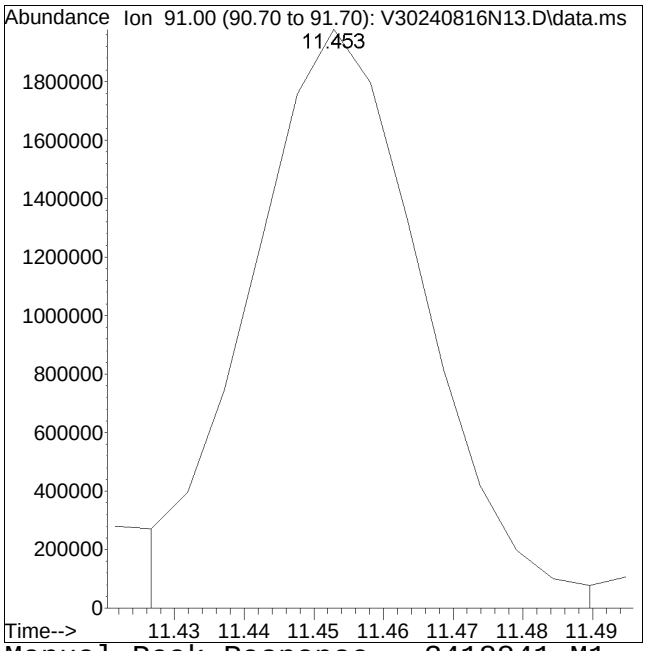
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N13.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:22 am Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 8/21/2024 6:34 am

Compound #94: 2-Chlorotoluene



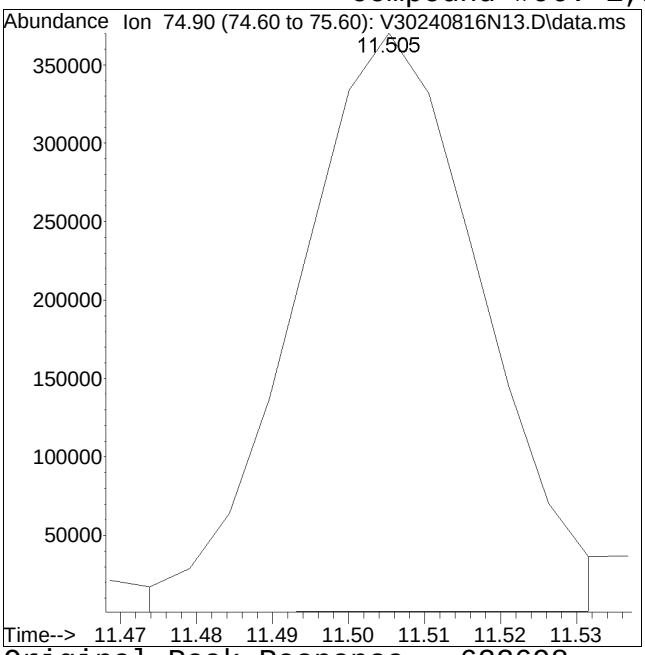


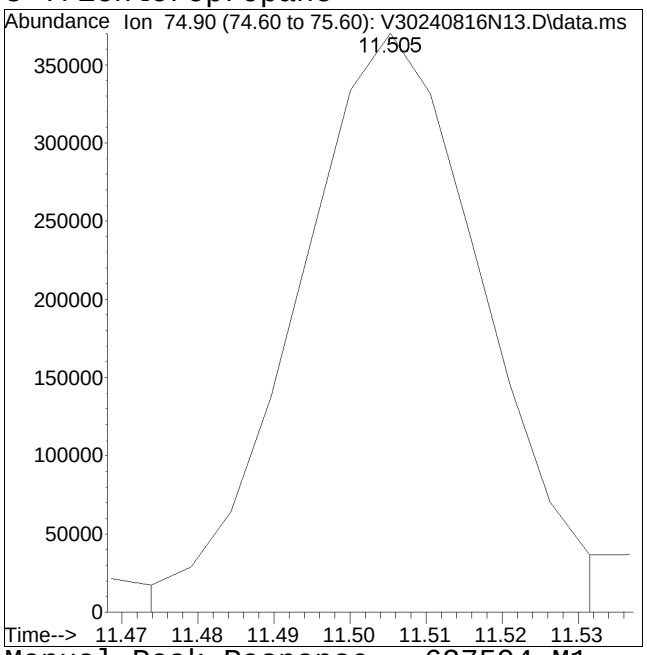
Original Peak Response = 3369086 Manual Peak Response = 3418841 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N13.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:22 am Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 8/21/2024 6:34 am

Compound #96: 1,2,3-Trichloropropane





Original Peak Response = 622698 Manual Peak Response = 627594 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N14.D
Acq On : 17 Aug 2024 01:44 am
Operator : VOA130:PID
Sample : I8260STD200PPB
Misc : WG1961896,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 06:34:58 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	453820	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 86.59%			
63) Chlorobenzene-d5	9.649	117	415908	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 98.72%			
84) 1,4-Dichlorobenzene-d4	12.334	152	256397	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 118.70%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.282	113	137417	11.591	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.91%			
47) 1,2-Dichloroethane-d4	5.811	65	132690	11.710	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.10%			
64) Toluene-d8	7.798	98	495660	9.244	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.44%			
88) 4-Bromofluorobenzene	11.128	95	219249	9.753	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.53%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.674	85	2273058	216.884	ug/L	95
3) Chloromethane	1.863	50	2243418	198.189	ug/L	97
4) Vinyl chloride	1.947	62	2227311	219.357	ug/L	100
5) Bromomethane	2.262	94	1264502	207.853	ug/L	98
6) Chloroethane	2.377	64	1353850	209.331	ug/L	99
7) Trichlorofluoromethane	2.529	101	2668107	233.415	ug/L	98
8) Ethyl ether	2.828	74	780394	236.497	ug/L #	78
10) 1,1-Dichloroethene	3.022	96	1591538	227.431	ug/L #	70
11) Carbon disulfide	3.053	76	5088173	232.755	ug/L	99
12) Freon-113	3.064	101	1496950	234.010	ug/L	85
13) Iodomethane	3.158	142	2645181	217.831	ug/L	99
14) Acrolein	3.336	56	208793	226.571	ug/L	99
15) Methylene chloride	3.578	84	1959241	209.333	ug/L	74
17) Acetone	3.609	43	248057	176.205	ug/L #	84
18) trans-1,2-Dichloroethene	3.735	96	1644520	228.187	ug/L	79
19) Methyl acetate	3.735	43	570087	220.384	ug/L #	79
21) Methyl tert-butyl ether	3.835	73	3584556	241.040	ug/L	90
22) tert-Butyl alcohol	3.913	59	327045	1218.648	ug/L #	53
24) Diisopropyl ether	4.196	45	3583136	195.922	ug/L #	92
25) 1,1-Dichloroethane	4.322	63	3044182	224.285	ug/L #	96
26) Halothane	4.375	117	1226402	244.837	ug/L	97

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N14.D
Acq On : 17 Aug 2024 01:44 am
Operator : VOA130:PID
Sample : I8260STD200PPB
Misc : WG1961896,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 06:34:58 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.354	53	396200	240.983	ug/L		95
28) Ethyl tert-butyl ether	4.548	59	3576234	206.304	ug/L		88
29) Vinyl acetate	4.553	43	2515167	222.980	ug/L	#	87
30) cis-1,2-Dichloroethene	4.841	96	1863150	220.591	ug/L	#	78
31) 2,2-Dichloropropane	4.946	77	2357442	226.766	ug/L	#	78
33) Bromochloromethane	5.035	128	922527	229.613	ug/L	#	53
34) Cyclohexane	5.051	56	2588309	237.292	ug/L		78
35) Chloroform	5.109	83	2859007	216.391	ug/L		92
36) Ethyl acetate	5.214	43	765942	209.074	ug/L	#	95
37) Carbon tetrachloride	5.250	117	2193215	259.757	ug/L		98
38) Tetrahydrofuran	5.255	42	257910M6	213.562	ug/L		
40) 1,1,1-Trichloroethane	5.313	97	2492992	239.081	ug/L		91
42) 2-Butanone	5.392	43	337850	197.747	ug/L		94
43) 1,1-Dichloropropene	5.434	75	2093711	232.545	ug/L		93
45) Benzene	5.680	78	5734906	200.974	ug/L		95
46) tert-Amyl methyl ether	5.795	73	3160574	197.206	ug/L		92
48) 1,2-Dichloroethane	5.879	62	1844762	224.602	ug/L	#	97
51) Methyl cyclohexane	6.278	83	2441749	216.388	ug/L	#	79
52) Trichloroethene	6.283	95	1630538	214.234	ug/L		92
54) Dibromomethane	6.718	93	914220	233.210	ug/L	#	87
55) 1,2-Dichloropropane	6.823	63	1527391	229.251	ug/L		96
57) 2-Chloroethyl vinyl ether	7.515	63	780072	198.488	ug/L	#	77
58) Bromodichloromethane	6.897	83	2200931	240.922	ug/L	#	97
61) 1,4-Dioxane	7.101	88	95859	2245.064	ug/L	#	85
62) cis-1,3-Dichloropropene	7.589	75	2400925	232.732	ug/L	#	79
65) Toluene	7.856	92	3944044	182.959	ug/L		96
66) 4-Methyl-2-pentanone	8.286	58	346472	210.485	ug/L	#	69
67) Tetrachloroethene	8.312	166	1607168	188.001	ug/L	#	92
69) trans-1,3-Dichloropropene	8.333	75	2004030	211.203	ug/L	#	73
71) Ethyl methacrylate	8.527	69	1646422	200.834	ug/L		89
72) 1,1,2-Trichloroethane	8.522	83	948485	196.690	ug/L		95
73) Chlorodibromomethane	8.737	129	1472316	222.208	ug/L		98
74) 1,3-Dichloropropane	8.847	76	1958507	198.504	ug/L		100
75) 1,2-Dibromoethane	9.010	107	1012259	209.708	ug/L		99
77) 2-Hexanone	9.293	43	585237	202.452	ug/L	#	86
78) Chlorobenzene	9.670	112	4605118	192.458	ug/L		95
79) Ethylbenzene	9.712	91	8130946	200.784	ug/L		93
80) 1,1,1,2-Tetrachloroethane	9.754	131	1423193	207.536	ug/L		99
81) p/m Xylene	9.901	106	6529044	404.240	ug/L		84
82) o Xylene	10.436	106	6320516	406.143	ug/L		84

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N14.D
Acq On : 17 Aug 2024 01:44 am
Operator : VOA130:PID
Sample : I8260STD200PPB
Misc : WG1961896,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 06:34:58 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.499	104	10175927	396.605	ug/L		97
85) Bromoform	10.520	173	875339	198.921	ug/L		98
87) Isopropylbenzene	10.813	105	8135868	189.982	ug/L		93
89) Bromobenzene	11.243	156	2151998	192.123	ug/L		99
90) n-Propylbenzene	11.290	91	9572398	185.816	ug/L	#	90
91) 1,4-Dichlorobutane	11.296	55	1956721	179.390	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.369	83	1506147	196.404	ug/L	#	98
93) 4-Ethyltoluene	11.416	105	8300110	191.753	ug/L		94
94) 2-Chlorotoluene	11.453	91	5908728M4	184.729	ug/L		
95) 1,3,5-Trimethylbenzene	11.510	105	7413250	193.211	ug/L		94
96) 1,2,3-Trichloropropane	11.505	75	1120652M4	181.283	ug/L		
97) trans-1,4-Dichloro-2-b...	11.558	53	383016	210.957	ug/L	#	76
98) 4-Chlorotoluene	11.636	91	6329236	188.596	ug/L		90
99) tert-Butylbenzene	11.851	119	5902118	188.278	ug/L		93
102) 1,2,4-Trimethylbenzene	11.930	105	7395435	199.539	ug/L		93
103) sec-Butylbenzene	12.040	105	8424968	187.165	ug/L		89
104) p-Isopropyltoluene	12.197	119	7557217	192.399	ug/L		95
105) 1,3-Dichlorobenzene	12.260	146	4248838	193.049	ug/L		97
106) 1,4-Dichlorobenzene	12.349	146	4270244	192.333	ug/L		98
107) p-Diethylbenzene	12.564	119	4763645	208.134	ug/L		95
108) n-Butylbenzene	12.622	91	6489372	198.715	ug/L	#	93
109) 1,2-Dichlorobenzene	12.774	146	4022687	193.074	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.356	119	7196943	206.121	ug/L		93
111) 1,2-Dibromo-3-chloropr...	13.545	155	229287	212.403	ug/L		97
112) 1,3,5-Trichlorobenzene	13.582	180	3213197	208.135	ug/L		95
113) Hexachlorobutadiene	14.158	225	1064086	200.797	ug/L		99
114) 1,2,4-Trichlorobenzene	14.179	180	2834556	203.127	ug/L		100
115) Naphthalene	14.468	128	5572182	190.349	ug/L		100
116) 1,2,3-Trichlorobenzene	14.635	180	2557265	195.410	ug/L		98

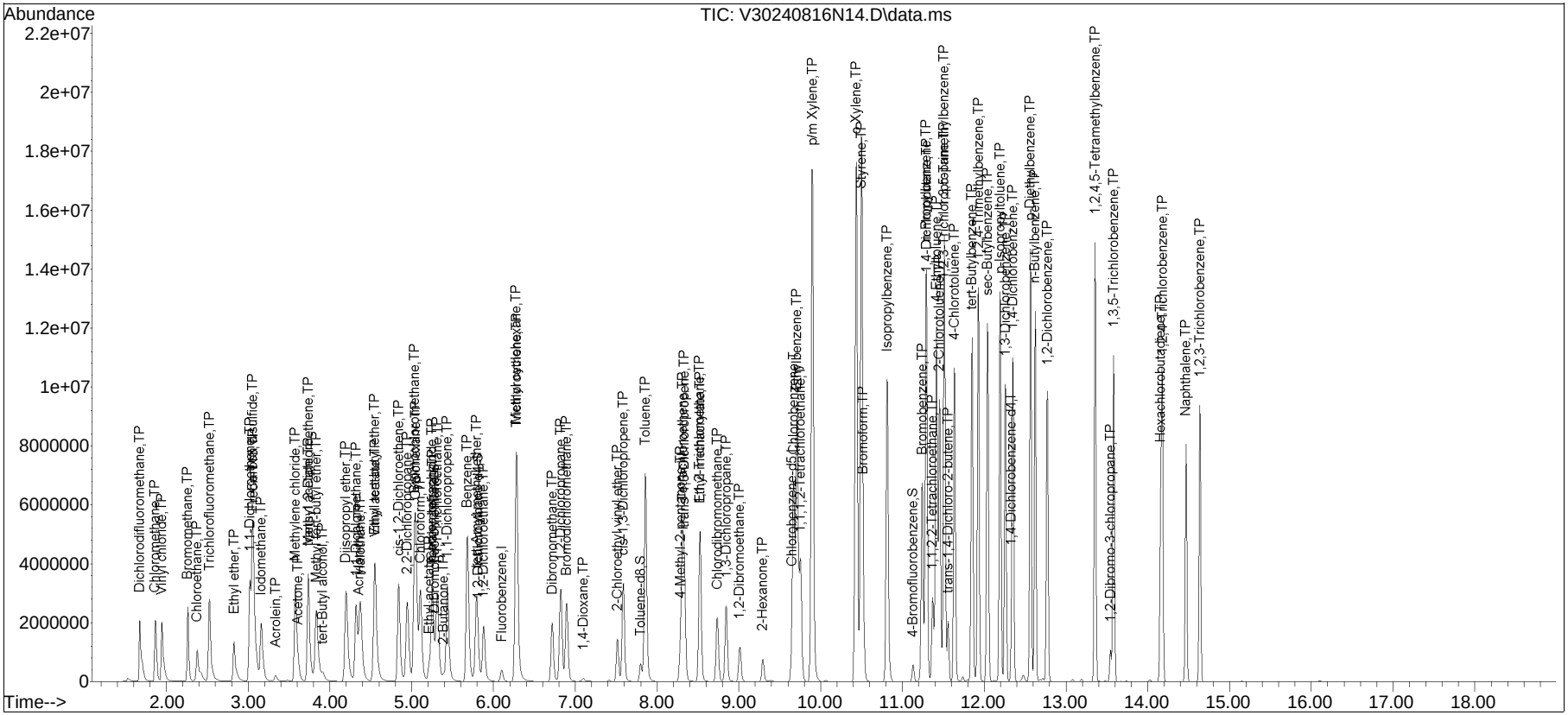
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N14.D
Acq On : 17 Aug 2024 01:44 am
Operator : VOA130:PID
Sample : I8260STD200PPB
Misc : WG1961896,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 06:34:58 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:33:36 2024
Response via : Initial Calibration

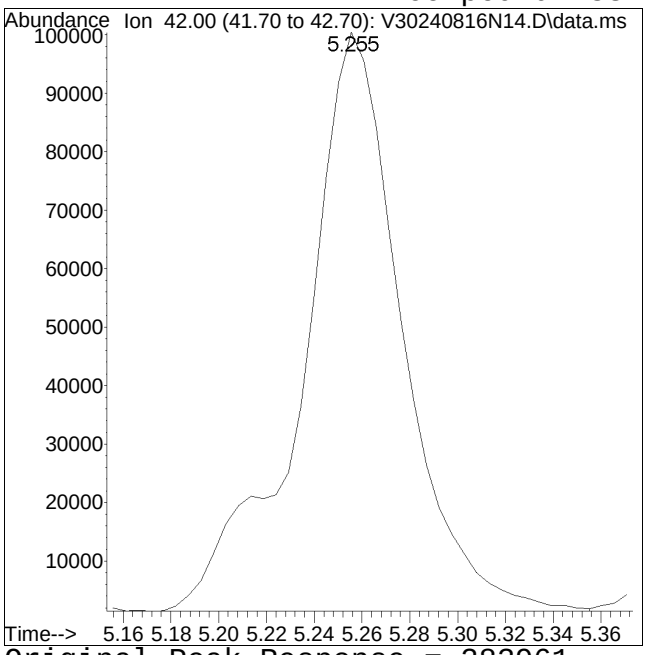
Sub List : 8260-Curve - Megamix plus Diox\V30240816N10.D•



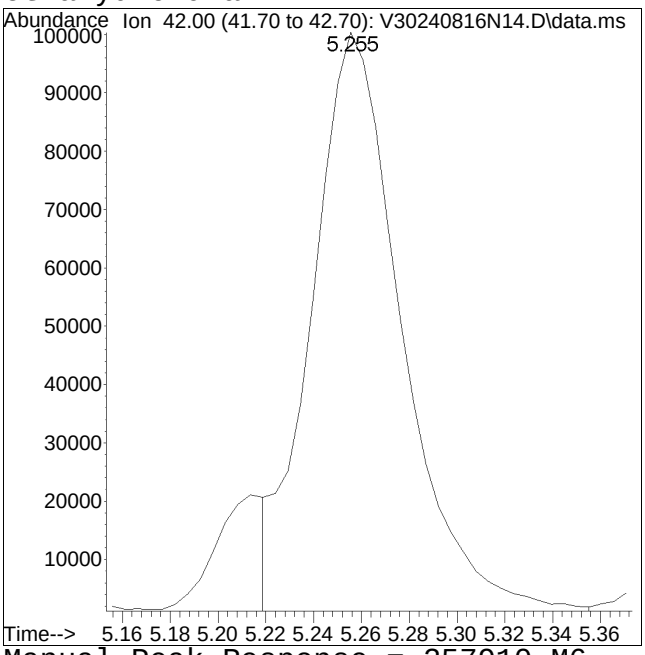
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N14.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:44 am Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 8/21/2024 6:34 am

Compound #38: Tetrahydrofuran



Original Peak Response = 283961



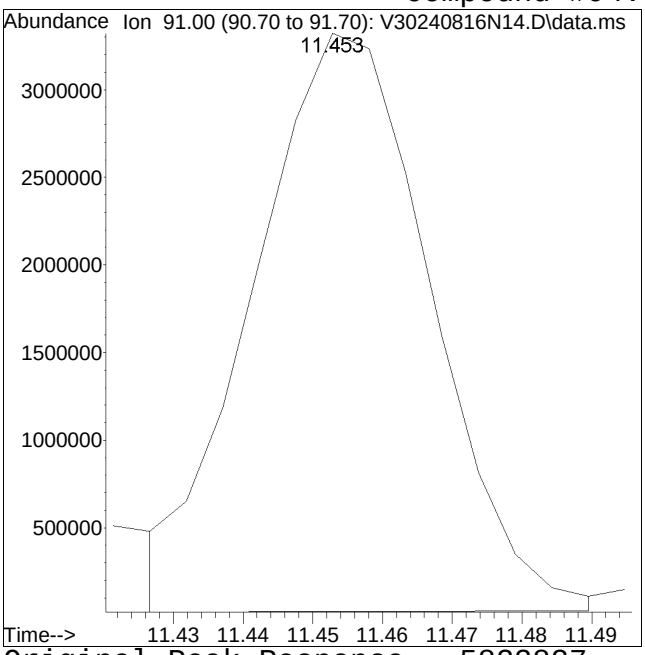
Manual Peak Response = 257910 M6

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

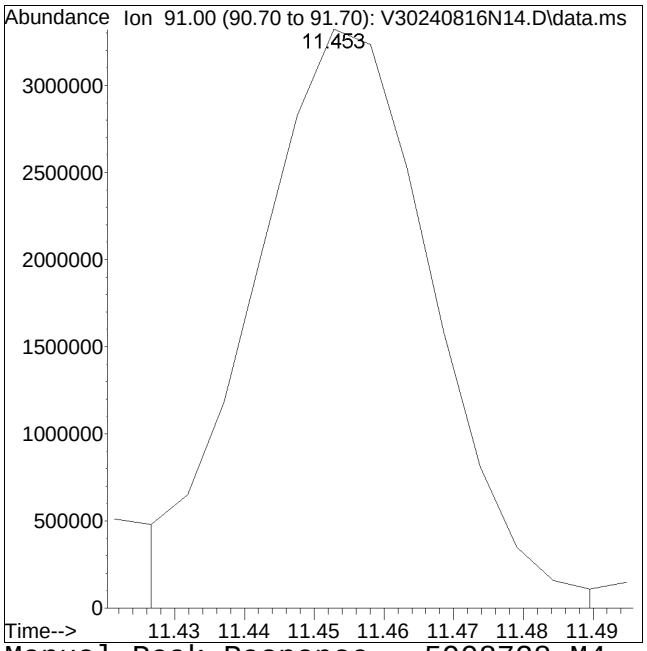
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N14.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:44 am Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 8/21/2024 6:34 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 5823827



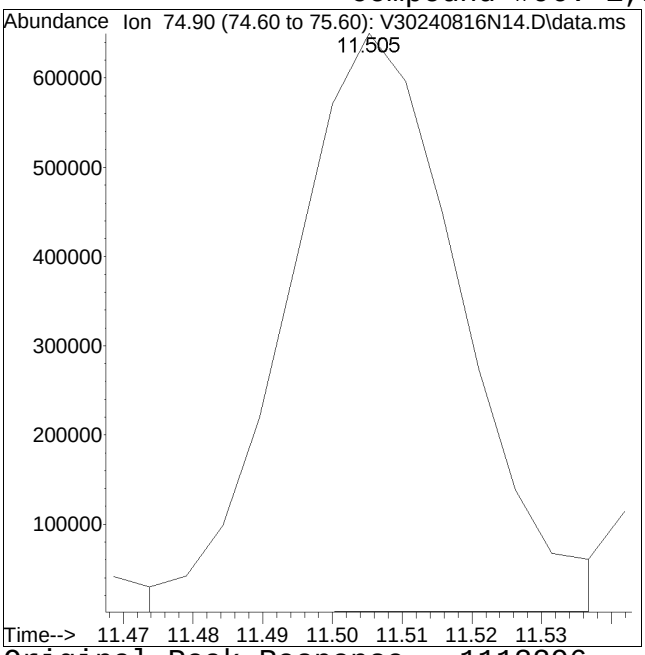
Manual Peak Response = 5908728 M4

M4 = Poor automated baseline construction.

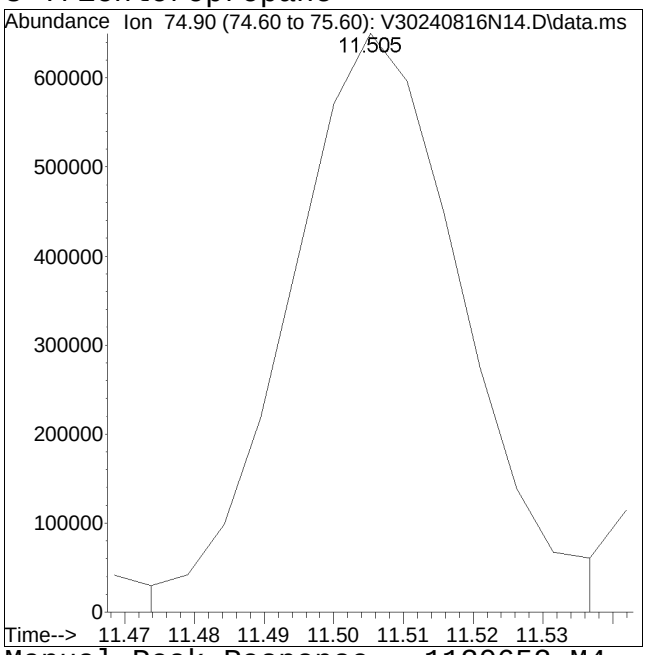
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N14.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 1:44 am Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 8/21/2024 6:34 am

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 1113296



Manual Peak Response = 1120652 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N19.D
Acq On : 17 Aug 2024 03:32 am
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 21 06:46:12 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.00
2	TP	Dichlorodifluoromethane	0.231	0.200	13.4	83	0.00
3	TP	Chloromethane	0.249	0.264	-6.0	103	0.00
4	TP	Vinyl chloride	0.224	0.225	-0.4	97	0.00
5	TP	Bromomethane	0.134	0.136	-1.5	106	0.00
6	TP	Chloroethane	0.143	0.145	-1.4	99	0.00
7	TP	Trichlorofluoromethane	0.252	0.263	-4.4	103	0.00
8	TP	Ethyl ether	0.073	0.069	5.5	98	0.00
10	TP	1,1-Dichloroethene	0.154	0.155	-0.6	99	0.00
11	TP	Carbon disulfide	0.482	0.437	9.3	93	0.00
12	TP	Freon-113	0.150	0.137	8.7	99	0.00
13	TP	Iodomethane	0.268	0.239	10.8	101	0.00
14	TP	Acrolein	0.020	0.015	25.0#	79	0.00
15	TP	Methylene chloride	0.206	0.205	0.5	100	0.00
17	TP	Acetone	0.025	0.023	8.0	94	0.00
18	TP	trans-1,2-Dichloroethene	0.159	0.163	-2.5	100	0.00
19	TP	Methyl acetate	0.057	0.053	7.0	93	0.00
21	TP	Methyl tert-butyl ether	0.328	0.259	21.0#	82	0.00
22	TP	tert-Butyl alcohol	0.00591	0.00567#	4.1	94	0.00
24	TP	Diisopropyl ether	0.403	0.431	-6.9	98	0.00
25	TP	1,1-Dichloroethane	0.299	0.311	-4.0	102	0.00
26	TP	Halothane	0.117	0.102	12.8	102	0.00
27	TP	Acrylonitrile	0.036	0.033	8.3	91	0.00
28	TP	Ethyl tert-butyl ether	0.382	0.388	-1.6	95	0.00
29	TP	Vinyl acetate	0.249	0.209	16.1	90	0.00
30	TP	cis-1,2-Dichloroethene	0.186	0.189#	-1.6	103	0.00
31	TP	2,2-Dichloropropane	0.229	0.210	8.3	96	0.00
33	TP	Bromochloromethane	0.089	0.086#	3.4	98	0.00
34	TP	Cyclohexane	0.240	0.218	9.2	96	0.00
35	TP	Chloroform	0.291	0.314	-7.9	108	0.00
36	TP	Ethyl acetate	0.081	0.077	4.9	94	0.00
37	TP	Carbon tetrachloride	* 10.000	8.454	15.5	94	0.00
38	TP	Tetrahydrofuran	0.027	0.021	22.2#	89	0.00
39	S	Dibromofluoromethane	0.261	0.248	5.0	96	0.00
40	TP	1,1,1-Trichloroethane	* 10.000	9.007	9.9	101	0.00
42	TP	2-Butanone	0.038	0.032	15.8	87	0.00
43	TP	1,1-Dichloropropene	0.198	0.200	-1.0	101	0.00
45	TP	Benzene	0.629	0.640	-1.7	97	0.00
46	TP	tert-Amyl methyl ether	0.353	0.353	0.0	94	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N19.D
Acq On : 17 Aug 2024 03:32 am
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 21 06:46:12 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	S	1,2-Dichloroethane-d4	0.250	0.240	4.0	94	0.00
48	TP	1,2-Dichloroethane	0.181	0.178	1.7	99	0.00
51	TP	Methyl cyclohexane	0.249	0.254	-2.0	99	0.00
52	TP	Trichloroethene	0.168	0.162#	3.6	95	0.00
54	TP	Dibromomethane	0.086	0.084	2.3	97	0.00
55	TP	1,2-Dichloropropane	0.147	0.147#	0.0	100	0.00
57	TP	2-Chloroethyl vinyl ether	0.087	0.081	6.9	85	0.00
58	TP	Bromodichloromethane	0.201	0.177#	11.9	96	0.00
61	TP	1,4-Dioxane	0.00094	0.00100#	-6.4	107	0.00
62	TP	cis-1,3-Dichloropropene	0.227	0.217#	4.4	95	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	S	Toluene-d8	1.289	1.316	-2.1	96	0.00
65	TP	Toluene	0.518	0.571	-10.2	100	0.00
66	TP	4-Methyl-2-pentanone	0.043	0.044	-2.3	96	0.00
67	TP	Tetrachloroethene	0.206	0.230	-11.7	101	0.00
69	TP	trans-1,3-Dichloropropene	0.228	0.228#	0.0	94	0.00
71	TP	Ethyl methacrylate	0.197	0.201	-2.0	92	0.00
72	TP	1,1,2-Trichloroethane	0.116	0.124#	-6.9	98	0.00
73	TP	Chlorodibromomethane	0.159	0.153#	3.8	96	0.00
74	TP	1,3-Dichloropropane	0.237	0.251	-5.9	96	0.00
75	TP	1,2-Dibromoethane	0.116	0.110#	5.2	91	0.00
77	TP	2-Hexanone	0.070	0.067	4.3	93	0.00
78	T	Chlorobenzene	0.575	0.631	-9.7	102	0.00
79	TP	Ethylbenzene	0.974	1.039	-6.7	100	0.00
80	T	1,1,1,2-Tetrachloroethane	0.165	0.170	-3.0	100	0.00
81	TP	p/m Xylene	0.388	0.410	-5.7	100	0.00
82	TP	o Xylene	0.374	0.391	-4.5	100	0.00
83	TP	Styrene	0.617	0.657	-6.5	100	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
85	TP	Bromoform	0.172	0.179	-4.1	97	0.00
87	TP	Isopropylbenzene	1.670	1.871	-12.0	100	0.00
88	S	4-Bromofluorobenzene	0.877	0.888	-1.3	96	0.00
89	TP	Bromobenzene	0.437	0.482	-10.3	101	0.00
90	TP	n-Propylbenzene	2.009	2.258	-12.4	100	0.00
91	TP	1,4-Dichlorobutane	0.425	0.451	-6.1	93	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.299	0.323	-8.0	99	0.00
93	TP	4-Ethyltoluene	1.688	1.942	-15.0	104	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N19.D
Acq On : 17 Aug 2024 03:32 am
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 21 06:46:12 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
94 TP	2-Chlorotoluene	1.248	1.423	-14.0	104	0.00
95 TP	1,3,5-Trimethylbenzene	1.496	1.604	-7.2	99	0.00
96 TP	1,2,3-Trichloropropane	0.241	0.264	-9.5	95	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.071	0.064	9.9	82	0.00
98 TP	4-Chlorotoluene	1.309	1.452	-10.9	102	0.00
99 TP	tert-Butylbenzene	1.223	1.367	-11.8	101	0.00
102 TP	1,2,4-Trimethylbenzene	1.446	1.580	-9.3	102	0.00
103 TP	sec-Butylbenzene	1.756	1.984	-13.0	100	0.00
104 TP	p-Isopropyltoluene	1.532	1.679	-9.6	100	0.00
105 TP	1,3-Dichlorobenzene	0.858	0.936	-9.1	102	0.00
106 TP	1,4-Dichlorobenzene	0.866	0.942	-8.8	101	0.00
107 TP	p-Diethylbenzene	0.893	0.924	-3.5	99	0.00
108 TP	n-Butylbenzene	1.274	1.446	-13.5	106	0.00
109 TP	1,2-Dichlorobenzene	0.813	0.876	-7.7	100	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.362	1.377	-1.1	99	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.042	0.044	-4.8	94	0.00
112 TP	1,3,5-Trichlorobenzene	0.602	0.610	-1.3	99	0.00
113 TP	Hexachlorobutadiene	0.207	0.211	-1.9	98	0.00
114 TP	1,2,4-Trichlorobenzene	0.544	0.569	-4.6	100	0.00
115 TP	Naphthalene	1.142	1.211	-6.0	96	0.00
116 TP	1,2,3-Trichlorobenzene	0.510	0.545	-6.9	99	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 12 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N19.D
Acq On : 17 Aug 2024 03:32 am
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 21 06:46:12 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	497541	10.000	ug/L	0.00
Standard Area 1 = 524074			Recovery = 94.94%			
63) Chlorobenzene-d5	9.649	117	409481	10.000	ug/L	0.00
Standard Area 1 = 421293			Recovery = 97.20%			
84) 1,4-Dichlorobenzene-d4	12.334	152	210593	10.000	ug/L	0.00
Standard Area 1 = 215997			Recovery = 97.50%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.287	113	123290	9.486	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.86%			
47) 1,2-Dichloroethane-d4	5.811	65	119340	9.606	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.06%			
64) Toluene-d8	7.798	98	539029	10.210	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.10%			
88) 4-Bromofluorobenzene	11.133	95	187013	10.128	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.675	85	99300	8.642	ug/L	95
3) Chloromethane	1.869	50	131380	10.587	ug/L	98
4) Vinyl chloride	1.947	62	112080	10.068	ug/L	99
5) Bromomethane	2.267	94	67888	10.179	ug/L	97
6) Chloroethane	2.388	64	72051	10.161	ug/L	97
7) Trichlorofluoromethane	2.529	101	130875	10.443	ug/L	98
8) Ethyl ether	2.828	74	34148	9.439	ug/L	79
10) 1,1-Dichloroethene	3.022	96	77079	10.047	ug/L #	71
11) Carbon disulfide	3.053	76	217324	9.068	ug/L	100
12) Freon-113	3.064	101	68289	9.180	ug/L	87
13) Iodomethane	3.158	142	119070	8.944	ug/L	99
14) Acrolein	3.337	56	7348	7.273	ug/L	99
15) Methylene chloride	3.578	84	101954	9.936	ug/L	76
17) Acetone	3.609	43	11458	9.210	ug/L #	87
18) trans-1,2-Dichloroethene	3.735	96	81090	10.263	ug/L	80
19) Methyl acetate	3.735	43	26326	9.283	ug/L #	77
21) Methyl tert-butyl ether	3.835	73	128915	7.907	ug/L	88
22) tert-Butyl alcohol	3.913	59	14095	47.906	ug/L #	53
24) Diisopropyl ether	4.202	45	214575	10.702	ug/L #	94
25) 1,1-Dichloroethane	4.322	63	154734	10.398	ug/L #	98
26) Halothane	4.375	117	50771	8.749	ug/L	98

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N19.D
Acq On : 17 Aug 2024 03:32 am
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 21 06:46:12 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.354	53	16322	9.055	ug/L		95
28) Ethyl tert-butyl ether	4.553	59	193156	10.164	ug/L	#	78
29) Vinyl acetate	4.553	43	104025	8.412	ug/L	#	90
30) cis-1,2-Dichloroethene	4.841	96	94039	10.156	ug/L	#	77
31) 2,2-Dichloropropane	4.946	77	104716	9.188	ug/L		79
33) Bromochloromethane	5.035	128	42658	9.684	ug/L	#	52
34) Cyclohexane	5.051	56	108704	9.090	ug/L		77
35) Chloroform	5.104	83	156042	10.773	ug/L		92
36) Ethyl acetate	5.219	43	38205	9.512	ug/L	#	94
37) Carbon tetrachloride	5.250	117	81437M6	8.454	ug/L		
38) Tetrahydrofuran	5.261	42	10513M4	7.940	ug/L		
40) 1,1,1-Trichloroethane	5.313	97	109358	9.007	ug/L		92
42) 2-Butanone	5.392	43	15983	8.533	ug/L		95
43) 1,1-Dichloropropene	5.434	75	99408	10.071	ug/L		92
45) Benzene	5.680	78	318465	10.180	ug/L		95
46) tert-Amyl methyl ether	5.796	73	175636	9.996	ug/L		94
48) 1,2-Dichloroethane	5.880	62	88671	9.847	ug/L	#	98
51) Methyl cyclohexane	6.283	83	126300	10.209	ug/L		81
52) Trichloroethene	6.283	95	80629	9.663	ug/L		90
54) Dibromomethane	6.718	93	41799	9.726	ug/L	#	89
55) 1,2-Dichloropropane	6.823	63	73085	10.006	ug/L		96
57) 2-Chloroethyl vinyl ether	7.521	63	40453	9.389	ug/L	#	81
58) Bromodichloromethane	6.897	83	88234	8.810	ug/L	#	99
61) 1,4-Dioxane	7.101	88	24938	532.736	ug/L	#	86
62) cis-1,3-Dichloropropene	7.589	75	108095	9.557	ug/L	#	81
65) Toluene	7.861	92	233986	11.025	ug/L		99
66) 4-Methyl-2-pentanone	8.286	58	18106	10.352	ug/L	#	70
67) Tetrachloroethene	8.312	166	94046	11.174	ug/L		92
69) trans-1,3-Dichloropropene	8.333	75	93372	9.995	ug/L	#	77
71) Ethyl methacrylate	8.533	69	82336	10.201	ug/L	#	87
72) 1,1,2-Trichloroethane	8.522	83	50635	10.665	ug/L		96
73) Chlorodibromomethane	8.737	129	62837	9.632	ug/L		98
74) 1,3-Dichloropropane	8.847	76	102642	10.567	ug/L		99
75) 1,2-Dibromoethane	9.015	107	44870	9.442	ug/L		100
77) 2-Hexanone	9.298	43	27374	9.618	ug/L	#	87
78) Chlorobenzene	9.670	112	258401	10.969	ug/L		96
79) Ethylbenzene	9.712	91	425521	10.673	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.754	131	69697	10.323	ug/L		98
81) p/m Xylene	9.896	106	336052	21.133	ug/L		92
82) o Xylene	10.431	106	320405	20.912	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N19.D
Acq On : 17 Aug 2024 03:32 am
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 21 06:46:12 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240816NICAL\V30240816N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.499	104	537742	21.287	ug/L		93
85) Bromoform	10.520	173	37598	10.403	ug/L		96
87) Isopropylbenzene	10.813	105	394120	11.205	ug/L		97
89) Bromobenzene	11.243	156	101499	11.032	ug/L		99
90) n-Propylbenzene	11.290	91	475454	11.237	ug/L		95
91) 1,4-Dichlorobutane	11.301	55	94990	10.603	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.369	83	67917	10.783	ug/L		99
93) 4-Ethyltoluene	11.416	105	409070	11.506	ug/L		97
94) 2-Chlorotoluene	11.453	91	299669M1	11.406	ug/L		
95) 1,3,5-Trimethylbenzene	11.511	105	337827	10.720	ug/L		97
96) 1,2,3-Trichloropropane	11.505	75	55660M1	10.962	ug/L		
97) trans-1,4-Dichloro-2-b...	11.558	53	13451	9.020	ug/L	#	92
98) 4-Chlorotoluene	11.636	91	305833	11.095	ug/L		93
99) tert-Butylbenzene	11.851	119	287970	11.184	ug/L		93
102) 1,2,4-Trimethylbenzene	11.925	105	332788	10.932	ug/L		97
103) sec-Butylbenzene	12.040	105	417735	11.299	ug/L		94
104) p-Isopropyltoluene	12.192	119	353619	10.961	ug/L		96
105) 1,3-Dichlorobenzene	12.255	146	197028	10.899	ug/L		97
106) 1,4-Dichlorobenzene	12.350	146	198408	10.880	ug/L		98
107) p-Diethylbenzene	12.564	119	194535	10.348	ug/L		95
108) n-Butylbenzene	12.622	91	304506	11.353	ug/L		97
109) 1,2-Dichlorobenzene	12.769	146	184396	10.775	ug/L		97
110) 1,2,4,5-Tetramethylben...	13.356	119	289995	10.112	ug/L		96
111) 1,2-Dibromo-3-chloropr...	13.545	155	9351	10.546	ug/L		100
112) 1,3,5-Trichlorobenzene	13.582	180	128500	10.134	ug/L		95
113) Hexachlorobutadiene	14.158	225	44501	10.224	ug/L		99
114) 1,2,4-Trichlorobenzene	14.179	180	119819	10.454	ug/L		99
115) Naphthalene	14.468	128	255062	10.608	ug/L		100
116) 1,2,3-Trichlorobenzene	14.635	180	114711	10.672	ug/L		98

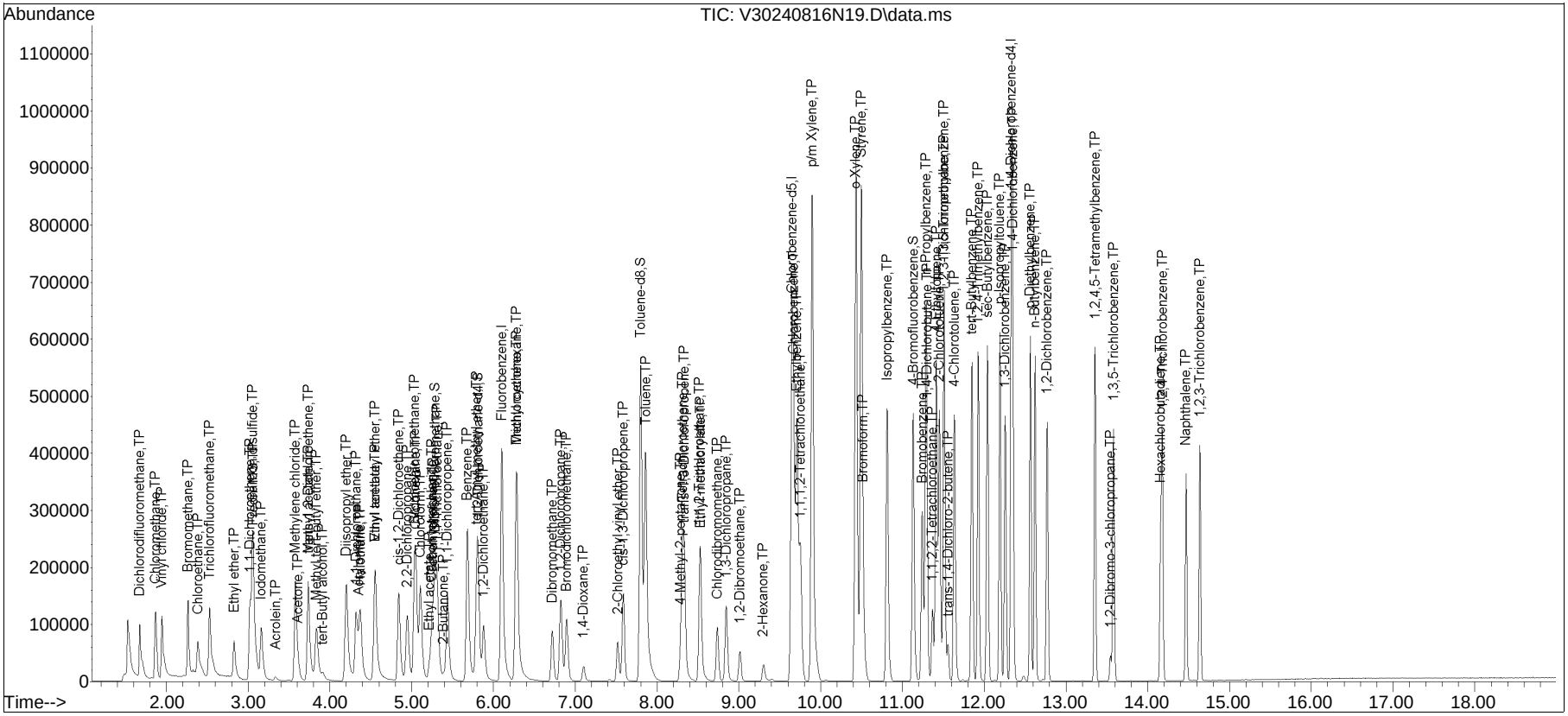
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240816NICAL\
Data File : V30240816N19.D
Acq On : 17 Aug 2024 03:32 am
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1961896,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 21 06:46:12 2024
Quant Method : K:\VOA130\2024\240816NICAL\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

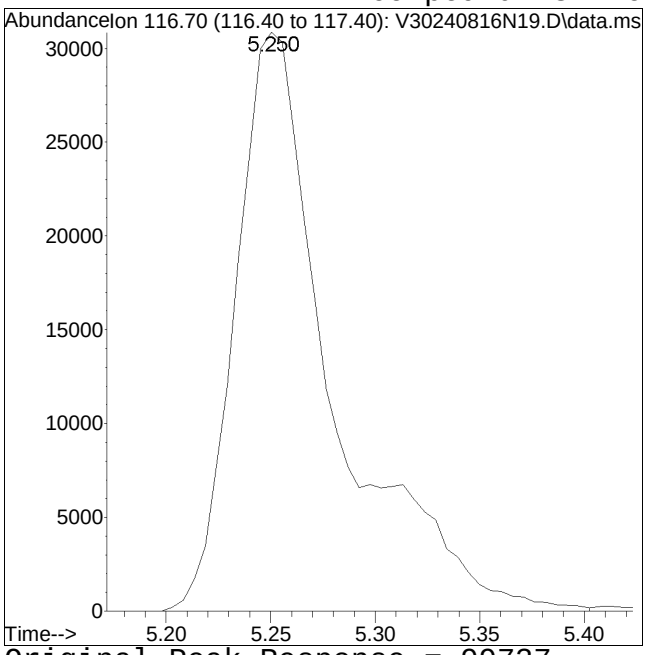
Sub List : 8260-Curve - Megamix plus Diox\V30240816N10.D•



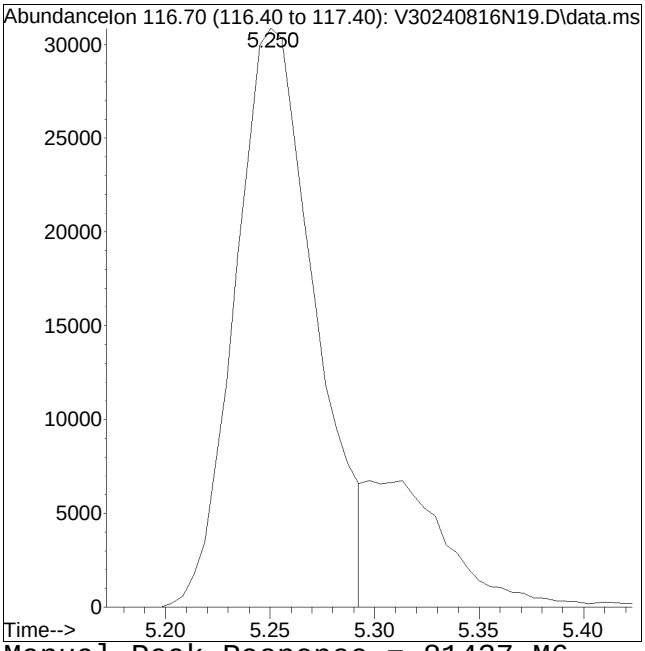
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N19.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 3:32 am Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 8/21/2024 6:45 am

Compound #37: Carbon tetrachloride



Original Peak Response = 99737



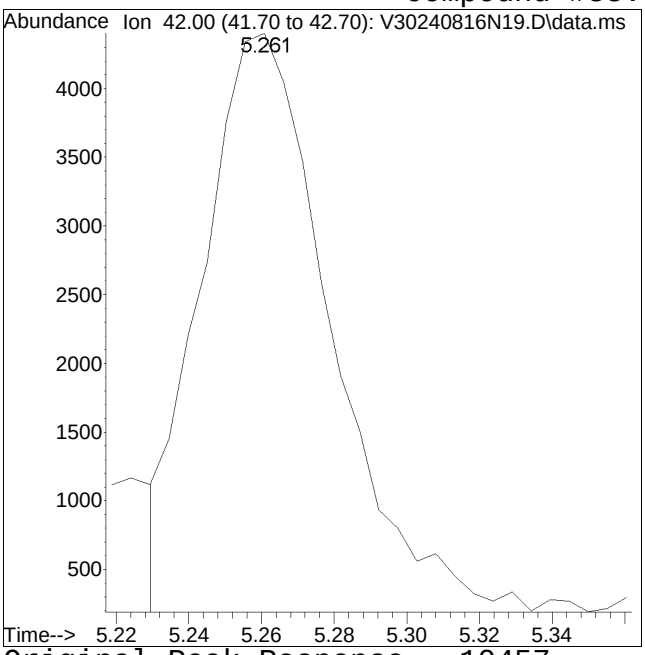
Manual Peak Response = 81437 M6

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

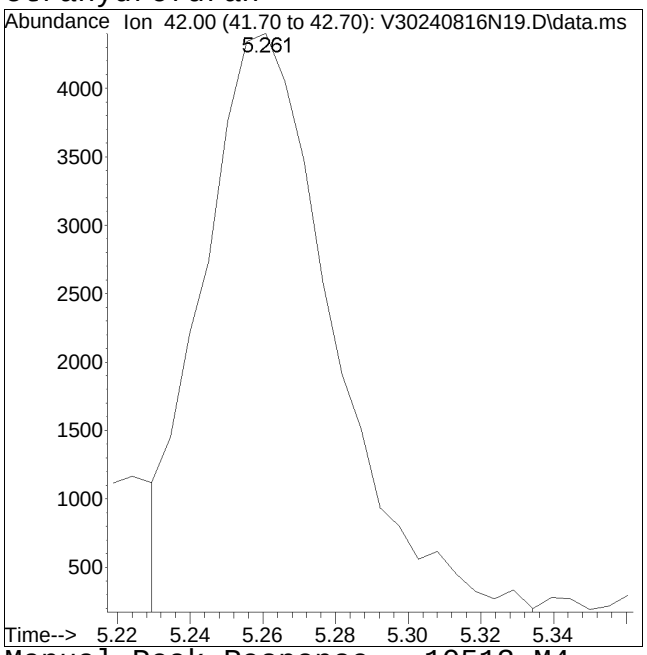
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N19.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 3:32 am Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 8/21/2024 6:45 am

Compound #38: Tetrahydrofuran



Original Peak Response = 10457



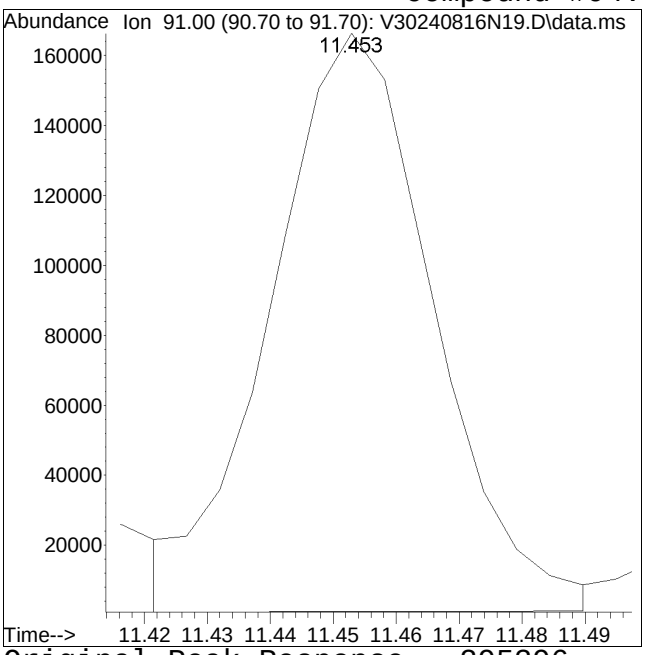
Manual Peak Response = 10513 M4

M4 = Poor automated baseline construction.

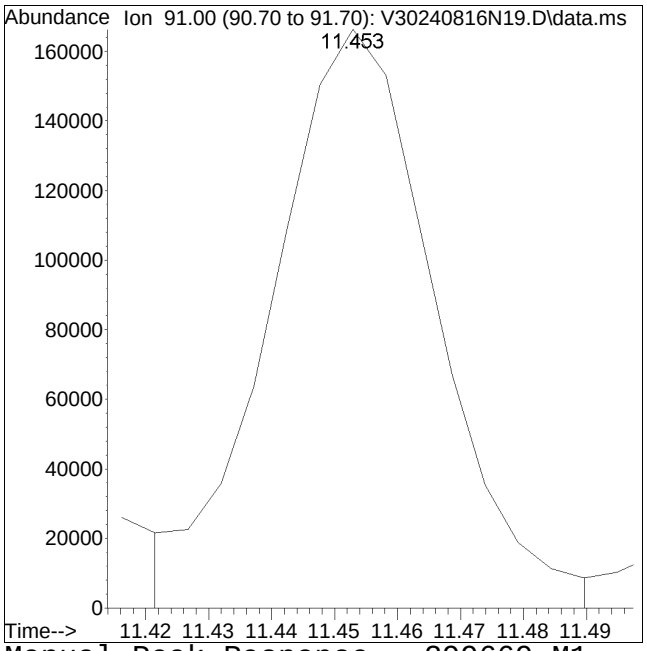
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N19.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 3:32 am Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 8/21/2024 6:45 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 295396



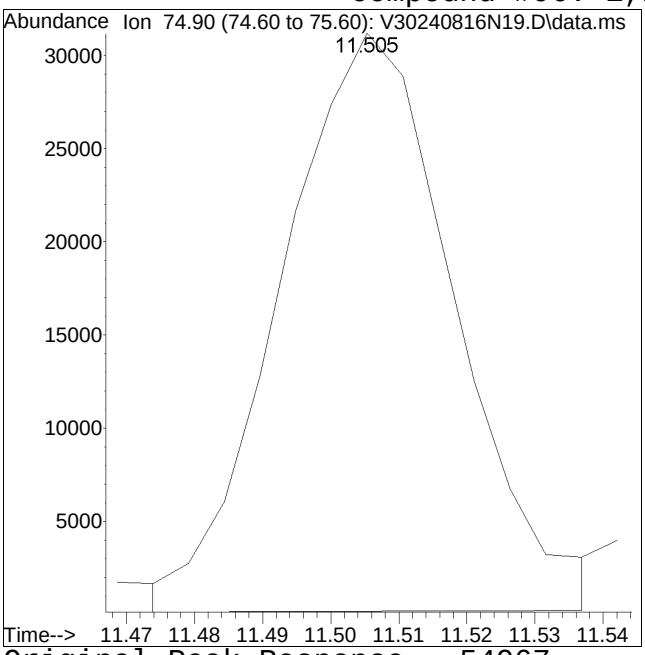
Manual Peak Response = 299669 M1

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

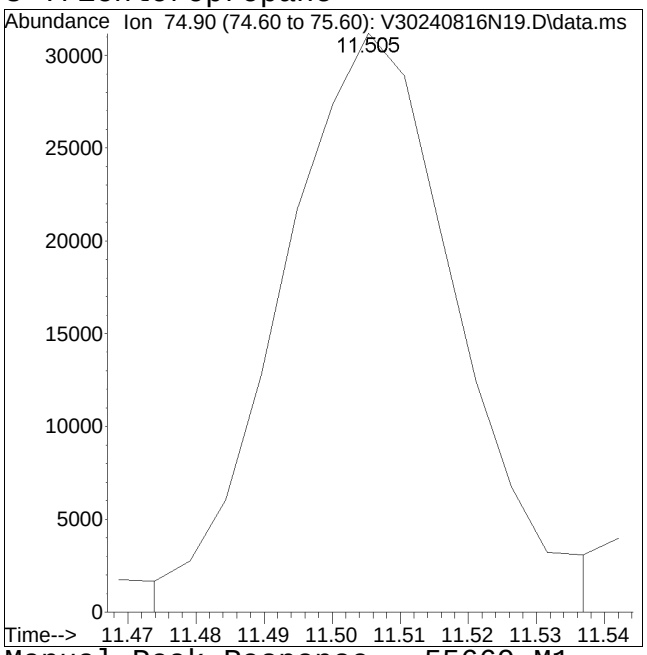
Manual Integration Report

Data Path : K:\VOA130\2024\240816NICALQMethod : V130_240816N_8260D.m
Data File : V30240816N19.D Operator : VOA130:PID
Date Inj'd : 8/17/2024 3:32 am Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 8/21/2024 6:45 am

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 54967



Manual Peak Response = 55660 M1

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

Evaluate Relative Error Report VOA130

Method Path : K:\VOA130\2024\240816NICAL\
Method File : V130_240816N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Aug 21 06:44:30 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	TP Carbon tetrachloride	Q	ug/L	10.0	8.551	-14.5	0.50	0.622	24.4
40	TP 1,1,1-Trichloroethane	Q	ug/L	10.0	8.498	-15.0	0.50	0.623	24.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	TP Carbon tetrachloride	Quadratic	0.997052	0.003235	0.198041	-0.00606473
40	TP 1,1,1-Trichloroethane	Quadratic	0.998547	0.001220	0.251536	-0.00776009

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA130	**Calibration Date**	: 09/25/24 13:27		
Lab File ID	: V30240925B02	**Init. Calib. Date(s)**	: 08/16/24	08/17/24	
Sample No	: WG1976724-2	**Init. Calib. Times**	: 22:06	01:44	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	75	0
Dichlorodifluoromethane	0.231	0.257	-	-11.3	20	84	0
Chloromethane	0.249	0.254	-	-2	20	78	0
Vinyl chloride	0.224	0.27	-	-20.5*	20	91	0
Bromomethane	0.134	0.089	-	33.6*	20	55	0
Chloroethane	0.143	0.163	-	-14	20	88	-.01
Trichlorofluoromethane	0.252	0.292	-	-15.9	20	91	0
Ethyl ether	0.073	0.067	-	8.2	20	76	0
1,1-Dichloroethene	0.154	0.178	-	-15.6	20	90	0
Carbon disulfide	0.482	0.58	-	-20.3*	20	97	0
Freon-113	0.15	0.14	-	6.7	20	79	-.01
Acrolein	0.02	0.024	-	-20	20	100	0
Methylene chloride	0.206	0.233	-	-13.1	20	89	0
Acetone	0.025	0.036	-	-44*	20	116	0
trans-1,2-Dichloroethene	0.159	0.168	-	-5.7	20	82	0
Methyl acetate	0.057	0.078	-	-36.8*	20	109	0
Methyl tert-butyl ether	0.328	0.212	-	35.4*	20	53	0
tert-Butyl alcohol	0.00591	0.00736*	-	-24.5*	20	96	0
Diisopropyl ether	0.403	0.414	-	-2.7	20	74	0
1,1-Dichloroethane	0.299	0.389	-	-30.1*	20	100	0
Halothane	0.117	0.087	-	25.6*	20	69	0
Acrylonitrile	0.036	0.05	-	-38.9*	20	110	0
Ethyl tert-butyl ether	0.382	0.32	-	16.2	20	62	0
Vinyl acetate	0.249	0.237	-	4.8	20	81	0
cis-1,2-Dichloroethene	0.186	0.199*	-	-7	20	85	0
2,2-Dichloropropane	0.229	0.209	-	8.7	20	75	0
Bromochloromethane	0.089	0.097*	-	-9	20	88	0
Cyclohexane	0.24	0.195	-	18.7	20	68	0
Chloroform	0.291	0.339	-	-16.5	20	92	0
Ethyl acetate	0.081	0.089	-	-9.9	20	86	0
Carbon tetrachloride	10	7.904	-	21*	20	69	0
Tetrahydrofuran	0.027	0.032	-	-18.5	20	106	0
Dibromofluoromethane	0.261	0.309	-	-18.4	20	94	0
1,1,1-Trichloroethane	10	7.933	-	20.7*	20	70	0
2-Butanone	0.038	0.043	-	-13.2	20	92	0
1,1-Dichloropropene	0.198	0.168	-	15.2	20	67	0
Benzene	0.629	0.634	-	-0.8	20	76	0
tert-Amyl methyl ether	0.353	0.281	-	20.4*	20	59	0
1,2-Dichloroethane-d4	0.25	0.294	-	-17.6	20	91	0
1,2-Dichloroethane	0.181	0.188	-	-3.9	20	83	0
Methyl cyclohexane	0.249	0.216	-	13.3	20	66	-.01
Trichloroethene	0.168	0.148*	-	11.9	20	68	0
Dibromomethane	0.086	0.094	-	-9.3	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA130	**Calibration Date**	: 09/25/24 13:27		
Lab File ID	: V30240925B02	**Init. Calib. Date(s)**	: 08/16/24	08/17/24	
Sample No	: WG1976724-2	**Init. Calib. Times**	: 22:06	01:44	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.147	0.143*	-	2.7	20	77	0
Bromodichloromethane	0.201	0.173*	-	13.9	20	74	0
1,4-Dioxane	0.00094	0.00121*	-	-28.7*	20	102	0
cis-1,3-Dichloropropene	0.227	0.195*	-	14.1	20	67	0
Chlorobenzene-d5	1	1	-	0	20	76	0
Toluene-d8	1.289	1.363	-	-5.7	20	78	0
Toluene	0.518	0.547	-	-5.6	20	75	-.01
4-Methyl-2-pentanone	0.043	0.044	-	-2.3	20	75	0
Tetrachloroethene	0.206	0.196	-	4.9	20	68	0
trans-1,3-Dichloropropene	0.228	0.218*	-	4.4	20	71	0
Ethyl methacrylate	0.197	0.183	-	7.1	20	66	0
1,1,2-Trichloroethane	0.116	0.129*	-	-11.2	20	80	0
Chlorodibromomethane	0.159	0.142*	-	10.7	20	69	0
1,3-Dichloropropane	0.237	0.257	-	-8.4	20	78	0
1,2-Dibromoethane	0.116	0.134*	-	-15.5	20	88	0
2-Hexanone	0.07	0.075	-	-7.1	20	82	0
Chlorobenzene	0.575	0.577	-	-0.3	20	73	0
Ethylbenzene	0.974	0.981	-	-0.7	20	74	0
1,1,1,2-Tetrachloroethane	0.165	0.149	-	9.7	20	69	-.01
p/m Xylene	0.388	0.393	-	-1.3	20	75	0
o Xylene	0.374	0.369	-	1.3	20	74	0
Styrene	0.617	0.65	-	-5.3	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	84	0
Bromoform	0.172	0.153	-	11	20	71	0
Isopropylbenzene	1.67	1.545	-	7.5	20	71	0
4-Bromofluorobenzene	0.877	0.861	-	1.8	20	81	0
Bromobenzene	0.437	0.408	-	6.6	20	74	0
n-Propylbenzene	2.009	2.091	-	-4.1	20	80	0
1,4-Dichlorobutane	0.425	0.498	-	-17.2	20	89	0
1,1,2,2-Tetrachloroethane	0.299	0.34	-	-13.7	20	90	0
4-Ethyltoluene	1.688	1.644	-	2.6	20	76	0
2-Chlorotoluene	1.248	1.301	-	-4.2	20	82	0
1,3,5-Trimethylbenzene	1.496	1.468	-	1.9	20	78	0
1,2,3-Trichloropropane	0.241	0.289	-	-19.9	20	89	0
trans-1,4-Dichloro-2-buten	0.071	0.076	-	-7	20	84	0
4-Chlorotoluene	1.309	1.324	-	-1.1	20	80	0
tert-Butylbenzene	1.223	1.159	-	5.2	20	74	0
1,2,4-Trimethylbenzene	1.446	1.389	-	3.9	20	77	0
sec-Butylbenzene	1.756	1.788	-	-1.8	20	78	0
p-Isopropyltoluene	1.532	1.419	-	7.4	20	73	0
1,3-Dichlorobenzene	0.858	0.851	-	0.8	20	80	0
1,4-Dichlorobenzene	0.866	0.859	-	0.8	20	80	0
p-Diethylbenzene	0.893	0.787	-	11.9	20	73	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA130	**Calibration Date**	: 09/25/24 13:27		
Lab File ID	: V30240925B02	**Init. Calib. Date(s)**	: 08/16/24	08/17/24	
Sample No	: WG1976724-2	**Init. Calib. Times**	: 22:06	01:44	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.274	1.38	-	-8.3	20	87	0
1,2-Dichlorobenzene	0.813	0.798	-	1.8	20	79	0
1,2,4,5-Tetramethylbenzene	1.362	1.052	-	22.8*	20	66	0
1,2-Dibromo-3-chloropropan	0.042	0.046	-	-9.5	20	84	0
1,3,5-Trichlorobenzene	0.602	0.548	-	9	20	77	0
Hexachlorobutadiene	0.207	0.185	-	10.6	20	74	0
1,2,4-Trichlorobenzene	0.544	0.471	-	13.4	20	71	0
Naphthalene	1.142	0.967	-	15.3	20	66	0
1,2,3-Trichlorobenzene	0.51	0.462	-	9.4	20	72	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-2
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	75	0.00
2	TP	Dichlorodifluoromethane	0.231	0.257	-11.3	84	0.00
3	TP	Chloromethane	0.249	0.254	-2.0	78	0.00
4	TP	Vinyl chloride	0.224	0.270	-20.5#	91	0.00
5	TP	Bromomethane	0.134	0.089	33.6#	55	0.00
6	TP	Chloroethane	0.143	0.163	-14.0	88	-0.01
7	TP	Trichlorofluoromethane	0.252	0.292	-15.9	91	0.00
8	TP	Ethyl ether	0.073	0.067	8.2	76	0.00
10	TP	1,1-Dichloroethene	0.154	0.178	-15.6	90	0.00
11	TP	Carbon disulfide	0.482	0.580	-20.3#	97	0.00
12	TP	Freon-113	0.150	0.140	6.7	79	-0.01
14	TP	Acrolein	0.020	0.024	-20.0	100	0.00
15	TP	Methylene chloride	0.206	0.233	-13.1	89	0.00
17	TP	Acetone	0.025	0.036	-44.0#	116	0.00
18	TP	trans-1,2-Dichloroethene	0.159	0.168	-5.7	82	0.00
19	TP	Methyl acetate	0.057	0.078	-36.8#	109	0.00
21	TP	Methyl tert-butyl ether	0.328	0.212	35.4#	53	0.00
22	TP	tert-Butyl alcohol	0.00591	0.00736#	-24.5#	96	0.00
24	TP	Diisopropyl ether	0.403	0.414	-2.7	74	0.00
25	TP	1,1-Dichloroethane	0.299	0.389	-30.1#	100	0.00
26	TP	Halothane	0.117	0.087	25.6#	69	0.00
27	TP	Acrylonitrile	0.036	0.050	-38.9#	110	0.00
28	TP	Ethyl tert-butyl ether	0.382	0.320	16.2	62	0.00
29	TP	Vinyl acetate	0.249	0.237	4.8	81	0.00
30	TP	cis-1,2-Dichloroethene	0.186	0.199#	-7.0	85	0.00
31	TP	2,2-Dichloropropane	0.229	0.209	8.7	75	0.00
33	TP	Bromochloromethane	0.089	0.097#	-9.0	88	0.00
34	TP	Cyclohexane	0.240	0.195	18.7	68	0.00
35	TP	Chloroform	0.291	0.339	-16.5	92	0.00
36	TP	Ethyl acetate	0.081	0.089	-9.9	86	0.00
37	TP	Carbon tetrachloride	* 10.000	7.904	21.0#	69	0.00
38	TP	Tetrahydrofuran	0.027	0.032	-18.5	106	0.00
39	S	Dibromofluoromethane	0.261	0.309	-18.4	94	0.00
40	TP	1,1,1-Trichloroethane	* 10.000	7.933	20.7#	70	0.00
42	TP	2-Butanone	0.038	0.043	-13.2	92	0.00
43	TP	1,1-Dichloropropene	0.198	0.168	15.2	67	0.00
45	TP	Benzene	0.629	0.634	-0.8	76	0.00
46	TP	tert-Amyl methyl ether	0.353	0.281	20.4#	59	0.00
47	S	1,2-Dichloroethane-d4	0.250	0.294	-17.6	91	0.00

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-2
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	TP	1,2-Dichloroethane	0.181	0.188	-3.9	83	0.00
51	TP	Methyl cyclohexane	0.249	0.216	13.3	66	-0.01
52	TP	Trichloroethene	0.168	0.148#	11.9	68	0.00
54	TP	Dibromomethane	0.086	0.094	-9.3	85	0.00
55	TP	1,2-Dichloropropane	0.147	0.143#	2.7	77	0.00
58	TP	Bromodichloromethane	0.201	0.173#	13.9	74	0.00
61	TP	1,4-Dioxane	0.00094	0.00121#	-28.7#	102	0.00
62	TP	cis-1,3-Dichloropropene	0.227	0.195#	14.1	67	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
64	S	Toluene-d8	1.289	1.363	-5.7	78	0.00
65	TP	Toluene	0.518	0.547	-5.6	75	-0.01
66	TP	4-Methyl-2-pentanone	0.043	0.044	-2.3	75	0.00
67	TP	Tetrachloroethene	0.206	0.196	4.9	68	0.00
69	TP	trans-1,3-Dichloropropene	0.228	0.218#	4.4	71	0.00
71	TP	Ethyl methacrylate	0.197	0.183	7.1	66	0.00
72	TP	1,1,2-Trichloroethane	0.116	0.129#	-11.2	80	0.00
73	TP	Chlorodibromomethane	0.159	0.142#	10.7	69	0.00
74	TP	1,3-Dichloropropane	0.237	0.257	-8.4	78	0.00
75	TP	1,2-Dibromoethane	0.116	0.134#	-15.5	88	0.00
77	TP	2-Hexanone	0.070	0.075	-7.1	82	0.00
78	T	Chlorobenzene	0.575	0.577	-0.3	73	0.00
79	TP	Ethylbenzene	0.974	0.981	-0.7	74	0.00
80	T	1,1,1,2-Tetrachloroethane	0.165	0.149	9.7	69	-0.01
81	TP	p/m Xylene	0.388	0.393	-1.3	75	0.00
82	TP	o Xylene	0.374	0.369	1.3	74	0.00
83	TP	Styrene	0.617	0.650	-5.3	78	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00
85	TP	Bromoform	0.172	0.153	11.0	71	0.00
87	TP	Isopropylbenzene	1.670	1.545	7.5	71	0.00
88	S	4-Bromofluorobenzene	0.877	0.861	1.8	81	0.00
89	TP	Bromobenzene	0.437	0.408	6.6	74	0.00
90	TP	n-Propylbenzene	2.009	2.091	-4.1	80	0.00
91	TP	1,4-Dichlorobutane	0.425	0.498	-17.2	89	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.299	0.340	-13.7	90	0.00
93	TP	4-Ethyltoluene	1.688	1.644	2.6	76	0.00
94	TP	2-Chlorotoluene	1.248	1.301	-4.2	82	0.00
95	TP	1,3,5-Trimethylbenzene	1.496	1.468	1.9	78	0.00

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-2
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 TP	1,2,3-Trichloropropane	0.241	0.289	-19.9	89	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.071	0.076	-7.0	84	0.00
98 TP	4-Chlorotoluene	1.309	1.324	-1.1	80	0.00
99 TP	tert-Butylbenzene	1.223	1.159	5.2	74	0.00
102 TP	1,2,4-Trimethylbenzene	1.446	1.389	3.9	77	0.00
103 TP	sec-Butylbenzene	1.756	1.788	-1.8	78	0.00
104 TP	p-Isopropyltoluene	1.532	1.419	7.4	73	0.00
105 TP	1,3-Dichlorobenzene	0.858	0.851	0.8	80	0.00
106 TP	1,4-Dichlorobenzene	0.866	0.859	0.8	80	0.00
107 TP	p-Diethylbenzene	0.893	0.787	11.9	73	0.00
108 TP	n-Butylbenzene	1.274	1.380	-8.3	87	0.00
109 TP	1,2-Dichlorobenzene	0.813	0.798	1.8	79	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.362	1.052	22.8#	66	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.042	0.046	-9.5	84	0.00
112 TP	1,3,5-Trichlorobenzene	0.602	0.548	9.0	77	0.00
113 TP	Hexachlorobutadiene	0.207	0.185	10.6	74	0.00
114 TP	1,2,4-Trichlorobenzene	0.544	0.471	13.4	71	0.00
115 TP	Naphthalene	1.142	0.967	15.3	66	0.00
116 TP	1,2,3-Trichlorobenzene	0.510	0.462	9.4	72	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 12 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-2
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.099	96	392408	10.000	ug/L	0.00
Standard Area 1 = 392408			Recovery = 100.00%			
63) Chlorobenzene-d5	9.644	117	321701	10.000	ug/L	0.00
Standard Area 1 = 321701			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.328	152	181602	10.000	ug/L	0.00
Standard Area 1 = 181602			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.276	113	121295	11.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.32%			
47) 1,2-Dichloroethane-d4	5.806	65	115190	11.756	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.56%			
64) Toluene-d8	7.798	98	438513	10.573	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.73%			
88) 4-Bromofluorobenzene	11.128	95	156418	9.824	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.674	85	100935	11.138	ug/L	96
3) Chloromethane	1.863	50	99746	10.191	ug/L	97
4) Vinyl chloride	1.942	62	105899	12.062	ug/L	98
5) Bromomethane	2.261	94	35060	6.665	ug/L	99
6) Chloroethane	2.377	64	63940	11.434	ug/L	100
7) Trichlorofluoromethane	2.524	101	114674	11.602	ug/L	100
8) Ethyl ether	2.823	74	26415	9.258	ug/L	90
10) 1,1-Dichloroethene	3.017	96	69879	11.549	ug/L	79
11) Carbon disulfide	3.048	76	227632	12.042	ug/L	100
12) Freon-113	3.053	101	54830	9.345	ug/L	93
14) Acrolein	3.331	56	9297	11.667	ug/L	97
15) Methylene chloride	3.572	84	91266	11.277	ug/L	83
17) Acetone	3.609	43	14160	14.431	ug/L #	88
18) trans-1,2-Dichloroethene	3.730	96	65904	10.576	ug/L	88
19) Methyl acetate	3.730	43	30786	13.764	ug/L #	86
21) Methyl tert-butyl ether	3.829	73	83213	6.471	ug/L #	93
22) tert-Butyl alcohol	3.913	59	14447	62.258	ug/L #	78
24) Diisopropyl ether	4.196	45	162532	10.278	ug/L	96
25) 1,1-Dichloroethane	4.317	63	152727	13.013	ug/L	98
26) Halothane	4.369	117	34106	7.451	ug/L	98
27) Acrylonitrile	4.354	53	19696	13.855	ug/L	97

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-2
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.548	59	125695	8.386	ug/L		91
29) Vinyl acetate	4.548	43	92951	9.530	ug/L	#	95
30) cis-1,2-Dichloroethene	4.836	96	77950	10.673	ug/L		83
31) 2,2-Dichloropropane	4.941	77	81871	9.108	ug/L		82
33) Bromochloromethane	5.030	128	38254	11.011	ug/L	#	67
34) Cyclohexane	5.046	56	76645	8.126	ug/L		88
35) Chloroform	5.103	83	133089	11.650	ug/L		93
36) Ethyl acetate	5.213	43	34861	11.005	ug/L	#	96
37) Carbon tetrachloride	5.245	117	59836	7.904	ug/L		97
38) Tetrahydrofuran	5.255	42	12536M6	12.005	ug/L		
40) 1,1,1-Trichloroethane	5.308	97	75554	7.933	ug/L		94
42) 2-Butanone	5.386	43	16872	11.421	ug/L		96
43) 1,1-Dichloropropene	5.428	75	65982	8.475	ug/L		97
45) Benzene	5.675	78	248606	10.076	ug/L		96
46) tert-Amyl methyl ether	5.795	73	110264	7.957	ug/L		90
48) 1,2-Dichloroethane	5.874	62	73664	10.372	ug/L	#	98
51) Methyl cyclohexane	6.272	83	84750	8.686	ug/L		93
52) Trichloroethene	6.278	95	58068	8.823	ug/L		97
54) Dibromomethane	6.713	93	36833	10.866	ug/L		95
55) 1,2-Dichloropropane	6.818	63	56142	9.745	ug/L		98
58) Bromodichloromethane	6.891	83	67920	8.598	ug/L		97
61) 1,4-Dioxane	7.101	88	23796	644.534	ug/L	#	93
62) cis-1,3-Dichloropropene	7.583	75	76346	8.559	ug/L	#	80
65) Toluene	7.851	92	175933	10.551	ug/L		100
66) 4-Methyl-2-pentanone	8.286	58	14141	10.291	ug/L	#	87
67) Tetrachloroethene	8.307	166	63071	9.538	ug/L		95
69) trans-1,3-Dichloropropene	8.333	75	70221	9.568	ug/L	#	76
71) Ethyl methacrylate	8.527	69	58873	9.284	ug/L	#	86
72) 1,1,2-Trichloroethane	8.517	83	41569	11.145	ug/L		99
73) Chlorodibromomethane	8.732	129	45669	8.911	ug/L		97
74) 1,3-Dichloropropane	8.842	76	82623	10.827	ug/L		99
75) 1,2-Dibromoethane	9.009	107	43246	11.583	ug/L		100
77) 2-Hexanone	9.298	43	24082	10.770	ug/L		96
78) Chlorobenzene	9.665	112	185614	10.029	ug/L		90
79) Ethylbenzene	9.707	91	315431	10.070	ug/L		98
80) 1,1,1,2-Tetrachloroethane	9.743	131	48042	9.057	ug/L		98
81) p/m Xylene	9.890	106	252802	20.236	ug/L		94
82) o Xylene	10.430	106	237190	19.705	ug/L		98
83) Styrene	10.493	104	418179	21.071	ug/L		94
85) Bromoform	10.514	173	27695	8.886	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-2
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
87) Isopropylbenzene	10.808	105	280553	9.249	ug/L		98
89) Bromobenzene	11.238	156	74137	9.345	ug/L		97
90) n-Propylbenzene	11.285	91	379677	10.406	ug/L		98
91) 1,4-Dichlorobutane	11.295	55	90455	11.708	ug/L		96
92) 1,1,2,2-Tetrachloroethane	11.364	83	61684	11.357	ug/L		100
93) 4-Ethyltoluene	11.411	105	298497	9.736	ug/L		99
94) 2-Chlorotoluene	11.447	91	236304	10.430	ug/L	#	87
95) 1,3,5-Trimethylbenzene	11.505	105	266620	9.811	ug/L		99
96) 1,2,3-Trichloropropane	11.505	75	52569	12.006	ug/L		91
97) trans-1,4-Dichloro-2-b...	11.552	53	13797	10.729	ug/L		90
98) 4-Chlorotoluene	11.631	91	240372	10.112	ug/L		96
99) tert-Butylbenzene	11.846	119	210553	9.483	ug/L		96
102) 1,2,4-Trimethylbenzene	11.925	105	252240	9.609	ug/L		98
103) sec-Butylbenzene	12.035	105	324746	10.186	ug/L		96
104) p-Isopropyltoluene	12.187	119	257784	9.266	ug/L		98
105) 1,3-Dichlorobenzene	12.255	146	154497	9.911	ug/L		97
106) 1,4-Dichlorobenzene	12.344	146	156044	9.923	ug/L		99
107) p-Diethylbenzene	12.564	119	142889	8.814	ug/L		99
108) n-Butylbenzene	12.617	91	250629	10.836	ug/L		97
109) 1,2-Dichlorobenzene	12.769	146	144976	9.824	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.351	119	191085	7.727	ug/L		97
111) 1,2-Dibromo-3-chloropr...	13.539	155	8361	10.935	ug/L		94
112) 1,3,5-Trichlorobenzene	13.576	180	99463	9.096	ug/L		97
113) Hexachlorobutadiene	14.153	225	33686	8.975	ug/L		98
114) 1,2,4-Trichlorobenzene	14.174	180	85551	8.656	ug/L		99
115) Naphthalene	14.467	128	175535	8.466	ug/L		100
116) 1,2,3-Trichlorobenzene	14.635	180	83883	9.050	ug/L		99

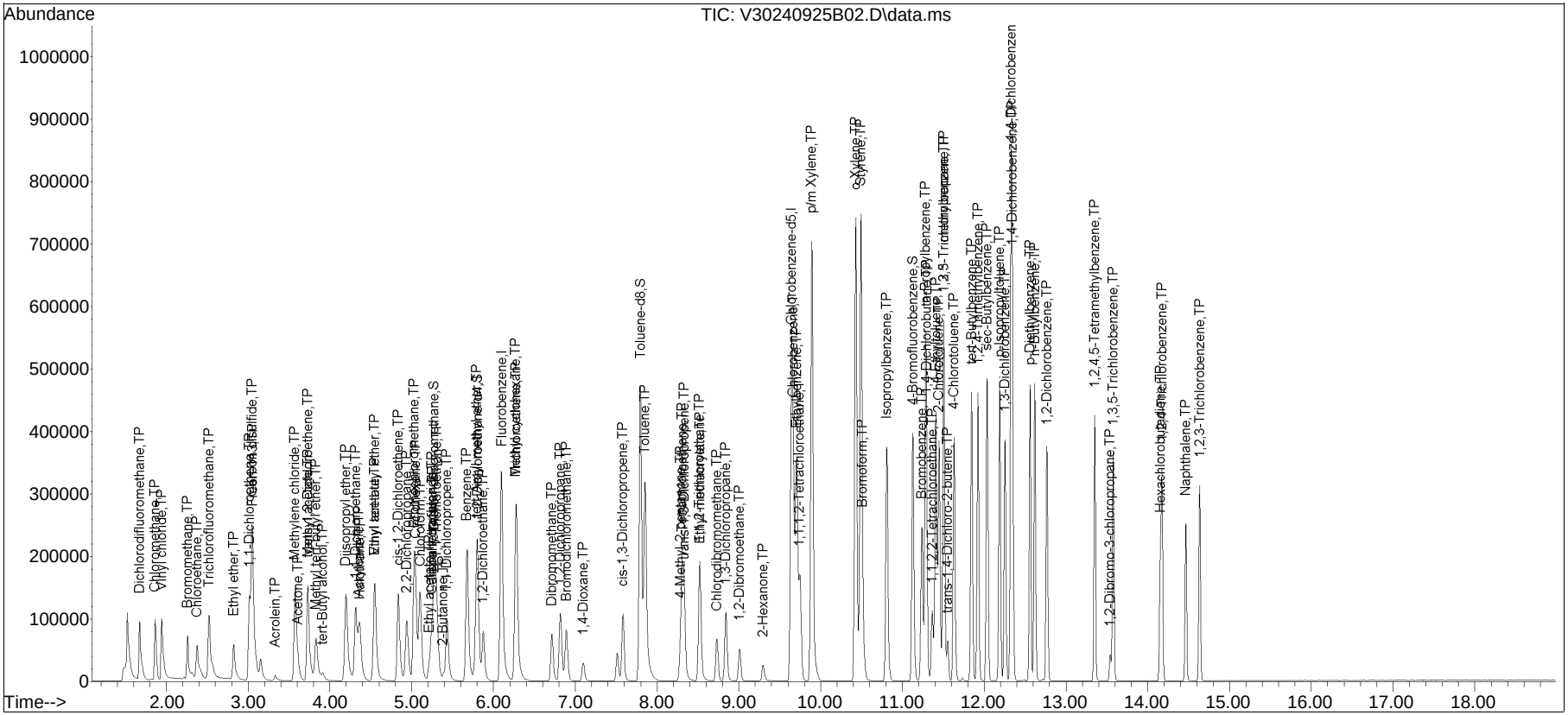
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-2
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

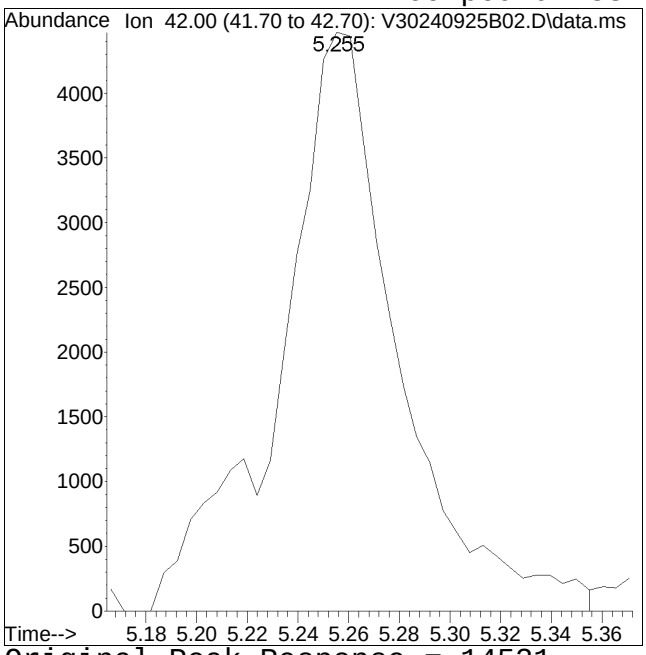
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



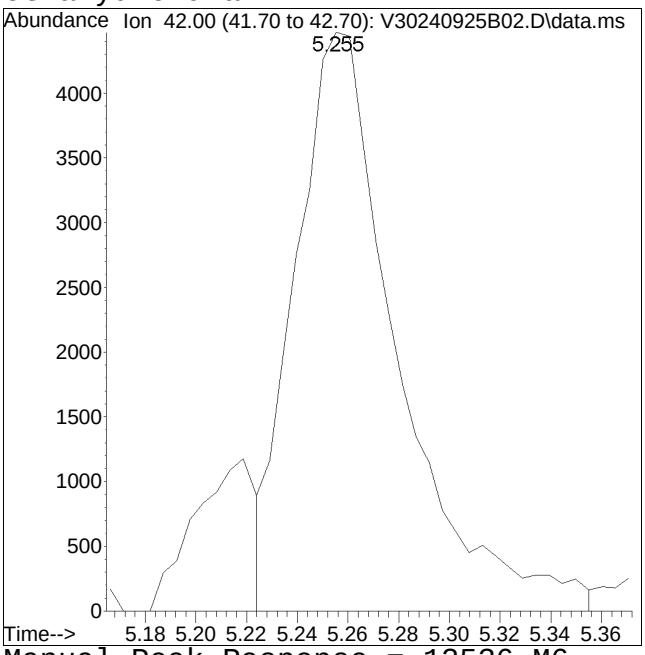
Manual Integration Report

Data Path	: K:\VOA130\2024\240925B\	QMethod	: V130_240816N_8260D.m
Data File	: V30240925B02.D	Operator	: VOA130:LAC
Date Inj'd	: 9/25/2024 1:27 pm	Instrument	: VOA130
Sample	: WG1976724-2	Quant Date	: 9/25/2024 1:47 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 14521



Manual Peak Response = 12536 M6

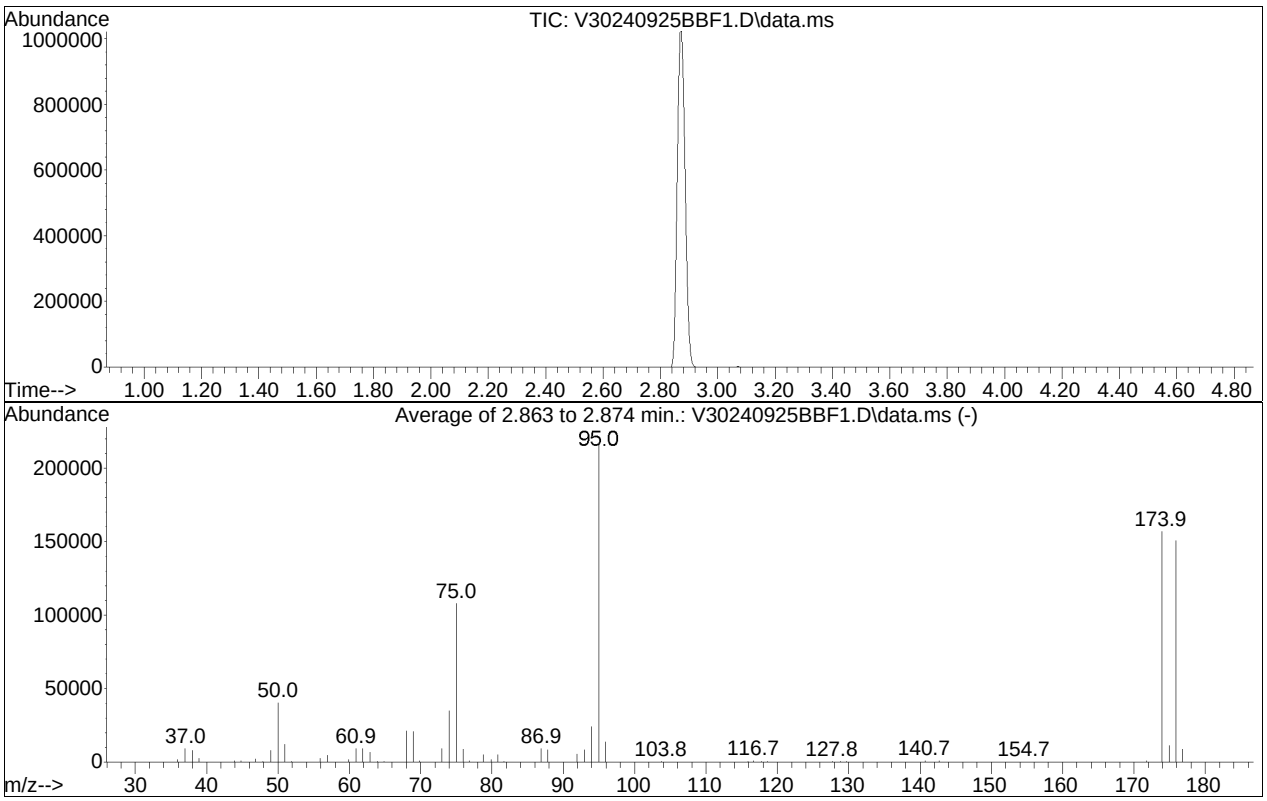
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

BFB

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925BBF1.D
Acq On : 25 Sep 2024 12:47 pm
Operator : VOA130:lac
Sample : WG1976724-1
Misc : WG1976724,ICAL21400
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Aug 21 06:44:30 2024



Spectrum Information: Average of 2.863 to 2.874 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	40483	PASS
75	95	30	60	49.7	107923	PASS
95	95	100	100	100.0	217344	PASS
96	95	5	9	6.4	13881	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.2	156963	PASS
175	174	5	9	7.3	11444	PASS
176	174	95	101	96.0	150624	PASS
177	176	5	9	5.8	8696	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B05.D
Acq On : 25 Sep 2024 02:33 pm
Operator : VOA130:LAC
Sample : WG1976724-5,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:56:17 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.099	96	369575	10.000	ug/L	0.00
Standard Area 1 = 392408			Recovery = 94.18%			
63) Chlorobenzene-d5	9.644	117	277694	10.000	ug/L	0.00
Standard Area 1 = 321701			Recovery = 86.32%			
84) 1,4-Dichlorobenzene-d4	12.328	152	149352	10.000	ug/L	0.00
Standard Area 1 = 181602			Recovery = 82.24%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.282	113	103070	10.676	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.76%			
47) 1,2-Dichloroethane-d4	5.806	65	94376	10.227	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.27%			
64) Toluene-d8	7.798	98	368010	10.279	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.79%			
88) 4-Bromofluorobenzene	11.128	95	131914	10.074	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.863	50	462	N.D.		
4) Vinyl chloride	1.942	62	64	N.D.		
5) Bromomethane	2.256	94	411	0.083	ug/L	99
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.043	76	3179	0.179	ug/L #	83
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.578	84	247	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.730	43	54	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B05.D
Acq On : 25 Sep 2024 02:33 pm
Operator : VOA130:LAC
Sample : WG1976724-5,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:56:17 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.267	95	112		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	9.660	112	102		N.D.	
79) Ethylbenzene	9.712	91	50		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	10.514	104	52		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.265	146	177		N.D.	
106) 1,4-Dichlorobenzene	12.349	146	339		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	14.184	180	57		N.D.	
116) 1,2,3-Trichlorobenzene	14.641	180	47		N.D.	

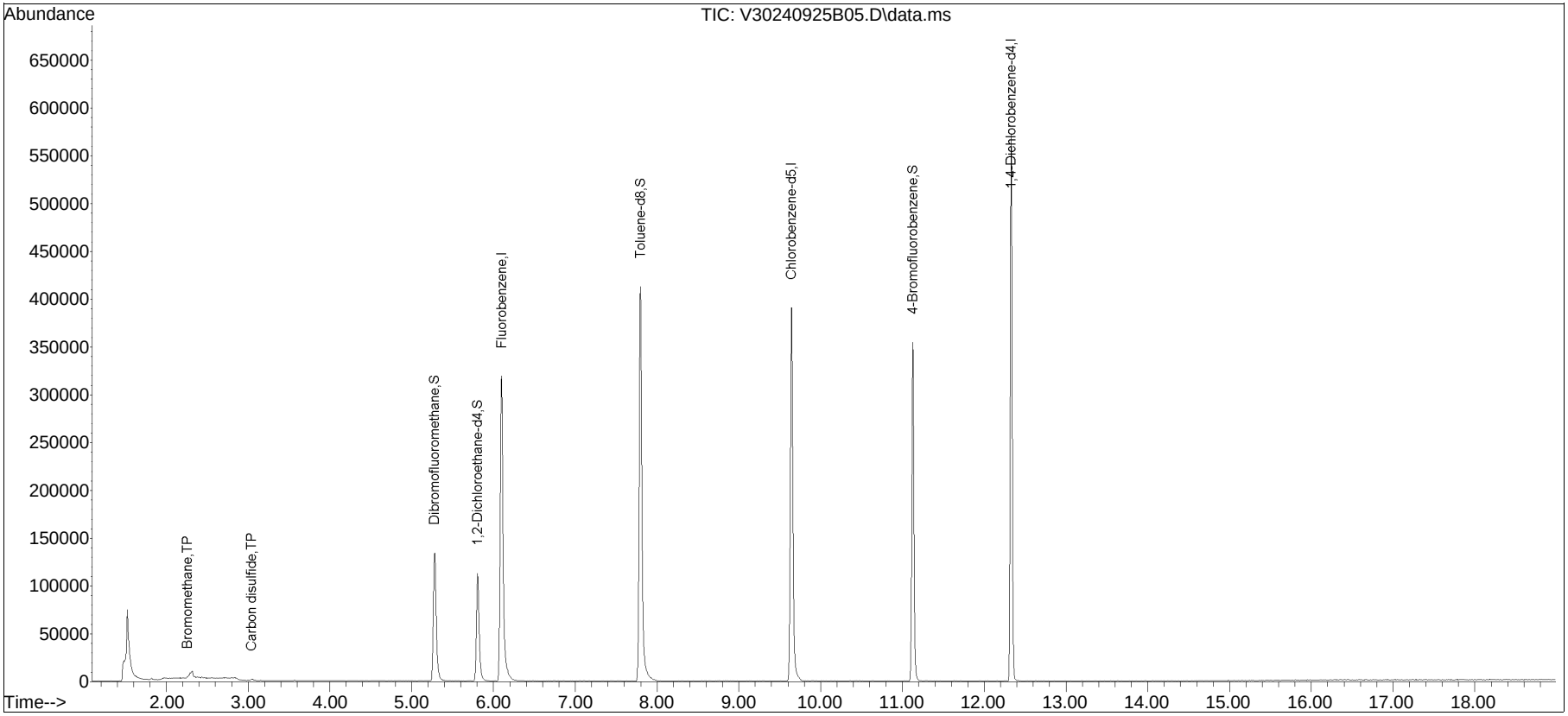
(#) = qualifier out of range (m) = manual integration (+) = signals summed

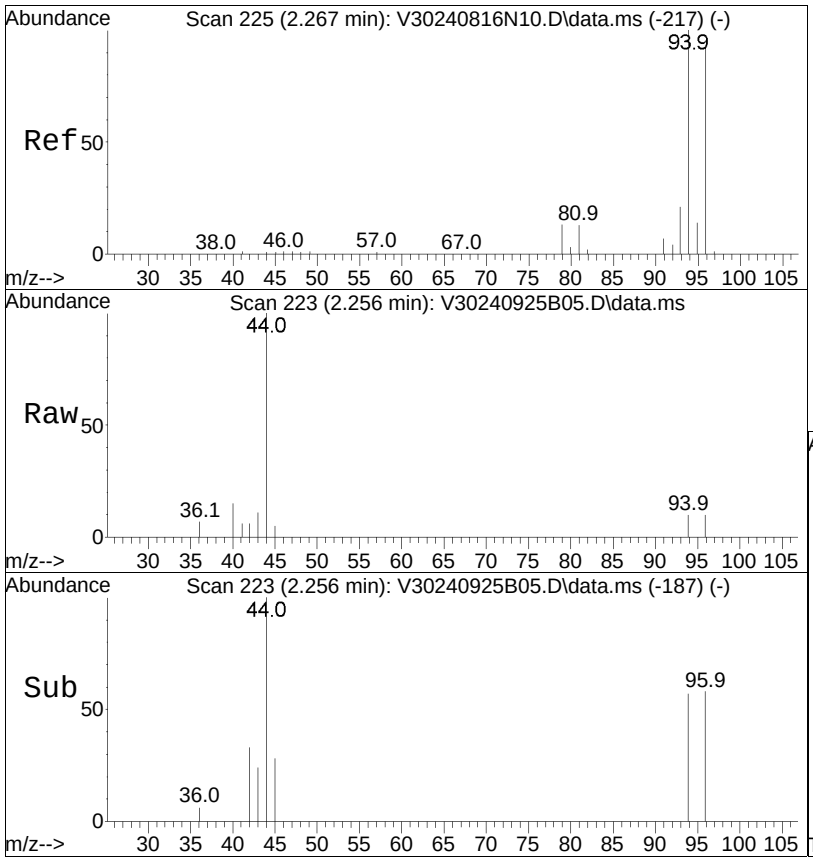
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B05.D
Acq On : 25 Sep 2024 02:33 pm
Operator : VOA130:LAC
Sample : WG1976724-5,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:56:17 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

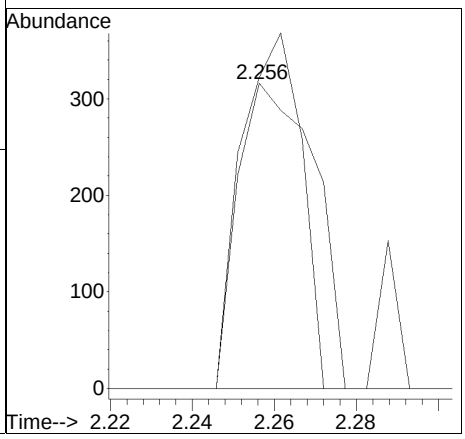


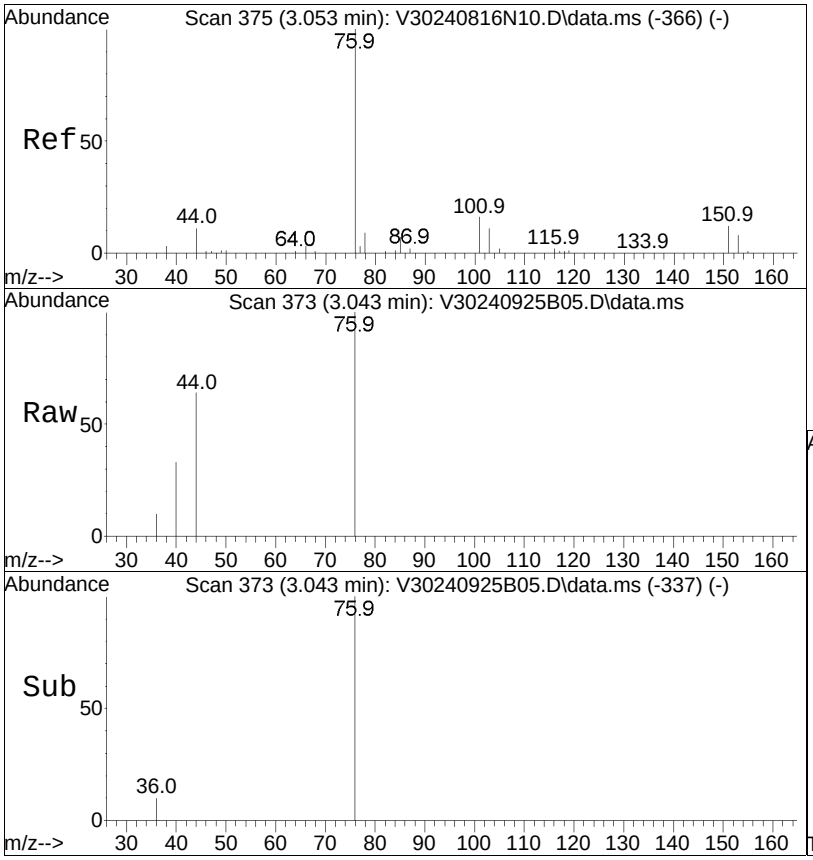


#5
Bromomethane
Concen: 0.08 ug/L
RT: 2.256 min Scan# 223
Delta R.T. -0.011 min
Lab File: V30240925B05.D
Acq: 25 Sep 2024 02:33 pm

Tgt Ion: 94 Resp: 411

Ion	Ratio	Lower	Upper
94	100		
96	91.2	73.7	110.5

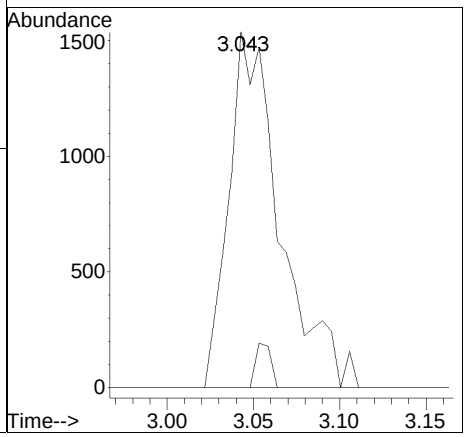




#11
Carbon disulfide
Concen: 0.18 ug/L
RT: 3.043 min Scan# 373
Delta R.T. -0.010 min
Lab File: V30240925B05.D
Acq: 25 Sep 2024 02:33 pm

Tgt Ion: 76 Resp: 3179

Ion	Ratio	Lower	Upper
76	100		
78	3.6	6.4	13.4#



Manual Integration Report

Data Path	: K:\VOA130\2024\240925B\	QMethod	: V130_240816N_8260D.m
Data File	: V30240925B05.D	Operator	: VOA130:LAC
Date Inj'd	: 9/25/2024 2:33 pm	Instrument	: VOA130
Sample	: WG1976724-5,31,10,10	Quant Date	: 9/25/2024 6:55 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-3,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.099	96	392408	10.000	ug/L	0.00
Standard Area 1 = 392408			Recovery = 100.00%			
63) Chlorobenzene-d5	9.644	117	321701	10.000	ug/L	0.00
Standard Area 1 = 321701			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.328	152	181602	10.000	ug/L	0.00
Standard Area 1 = 181602			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.276	113	121295	11.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.32%			
47) 1,2-Dichloroethane-d4	5.806	65	115190	11.756	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.56%			
64) Toluene-d8	7.798	98	438513	10.573	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.73%			
88) 4-Bromofluorobenzene	11.128	95	156418	9.824	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.674	85	100935	11.138	ug/L	96
3) Chloromethane	1.863	50	99746	10.191	ug/L	97
4) Vinyl chloride	1.942	62	105899	12.062	ug/L	98
5) Bromomethane	2.261	94	35060	6.665	ug/L	99
6) Chloroethane	2.377	64	63940	11.434	ug/L	100
7) Trichlorofluoromethane	2.524	101	114674	11.602	ug/L	100
10) 1,1-Dichloroethene	3.017	96	69879	11.549	ug/L	79
11) Carbon disulfide	3.048	76	227632	12.042	ug/L	100
12) Freon-113	3.053	101	54830	9.345	ug/L	93
15) Methylene chloride	3.572	84	91266	11.277	ug/L	83
17) Acetone	3.609	43	14160	14.431	ug/L #	88
18) trans-1,2-Dichloroethene	3.730	96	65904	10.576	ug/L	88
19) Methyl acetate	3.730	43	30786	13.764	ug/L #	86
21) Methyl tert-butyl ether	3.829	73	83213	6.471	ug/L #	93
25) 1,1-Dichloroethane	4.317	63	152727	13.013	ug/L	98
30) cis-1,2-Dichloroethene	4.836	96	77950	10.673	ug/L	83
33) Bromochloromethane	5.030	128	38254	11.011	ug/L #	67
34) Cyclohexane	5.046	56	76645	8.126	ug/L	88
35) Chloroform	5.103	83	133089	11.650	ug/L	93
37) Carbon tetrachloride	5.245	117	59836	7.904	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-3,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.308	97	75554	7.933	ug/L		94
42) 2-Butanone	5.386	43	16872	11.421	ug/L		96
45) Benzene	5.675	78	248606	10.076	ug/L		96
48) 1,2-Dichloroethane	5.874	62	73664	10.372	ug/L	#	98
51) Methyl cyclohexane	6.272	83	84750	8.686	ug/L		93
52) Trichloroethene	6.278	95	58068	8.823	ug/L		97
55) 1,2-Dichloropropane	6.818	63	56142	9.745	ug/L		98
58) Bromodichloromethane	6.891	83	67920	8.598	ug/L		97
62) cis-1,3-Dichloropropene	7.583	75	76346	8.559	ug/L	#	80
65) Toluene	7.851	92	175933	10.551	ug/L		100
66) 4-Methyl-2-pentanone	8.286	58	14141	10.291	ug/L	#	87
67) Tetrachloroethene	8.307	166	63071	9.538	ug/L		95
69) trans-1,3-Dichloropropene	8.333	75	70221	9.568	ug/L	#	76
72) 1,1,2-Trichloroethane	8.517	83	41569	11.145	ug/L		99
73) Chlorodibromomethane	8.732	129	45669	8.911	ug/L		97
75) 1,2-Dibromoethane	9.009	107	43246	11.583	ug/L		100
77) 2-Hexanone	9.298	43	24082	10.770	ug/L		96
78) Chlorobenzene	9.665	112	185614	10.029	ug/L		90
79) Ethylbenzene	9.707	91	315431	10.070	ug/L		98
81) p/m Xylene	9.890	106	252802	20.236	ug/L		94
82) o Xylene	10.430	106	237190	19.705	ug/L		98
83) Styrene	10.493	104	418179	21.071	ug/L		94
85) Bromoform	10.514	173	27695	8.886	ug/L		97
87) Isopropylbenzene	10.808	105	280553	9.249	ug/L		98
92) 1,1,2,2-Tetrachloroethane	11.364	83	61684	11.357	ug/L		100
105) 1,3-Dichlorobenzene	12.255	146	154497	9.911	ug/L		97
106) 1,4-Dichlorobenzene	12.344	146	156044	9.923	ug/L		99
109) 1,2-Dichlorobenzene	12.769	146	144976	9.824	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.539	155	8361	10.935	ug/L		94
114) 1,2,4-Trichlorobenzene	14.174	180	85551	8.656	ug/L		99
116) 1,2,3-Trichlorobenzene	14.635	180	83883	9.050	ug/L		99

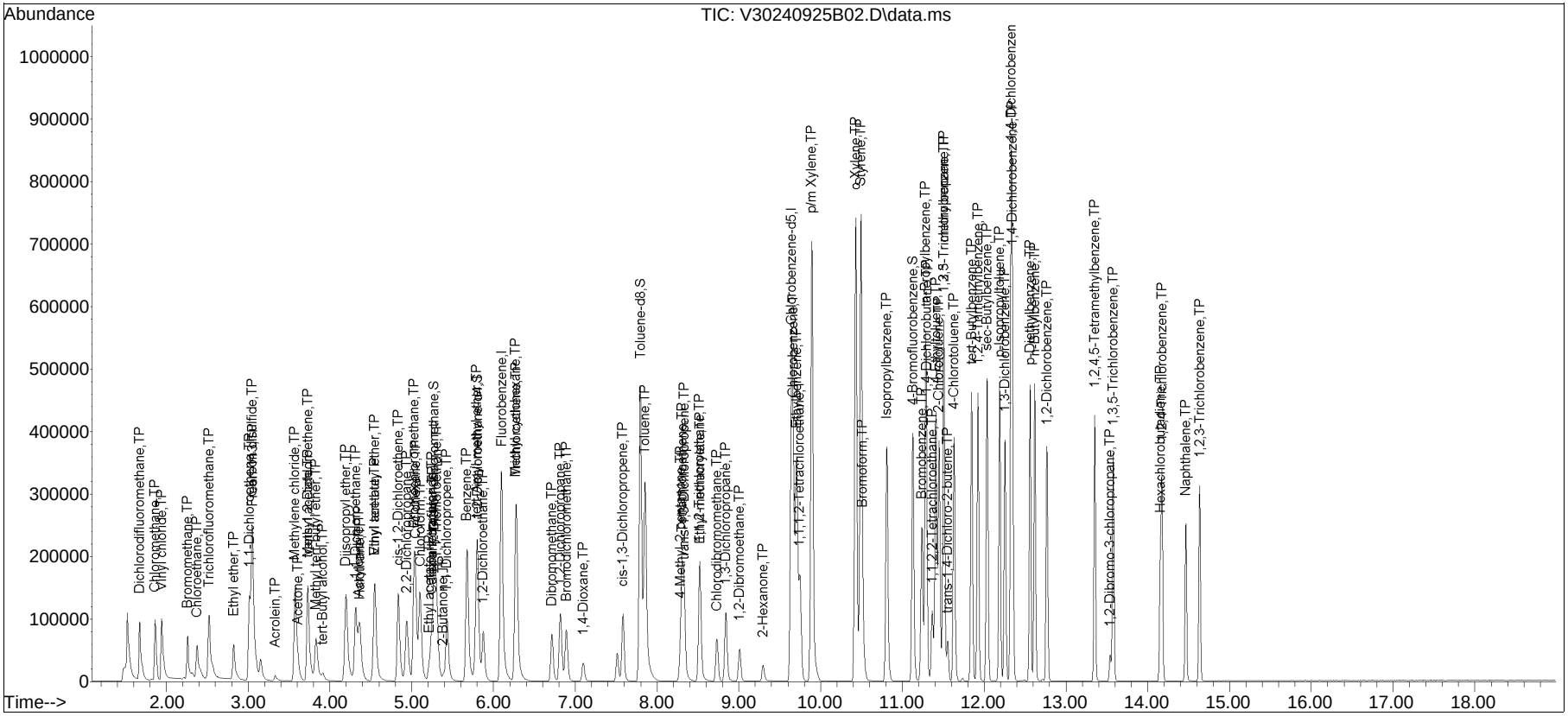
(#) = qualifier out of range (m) = manual integration (+) = signals summed

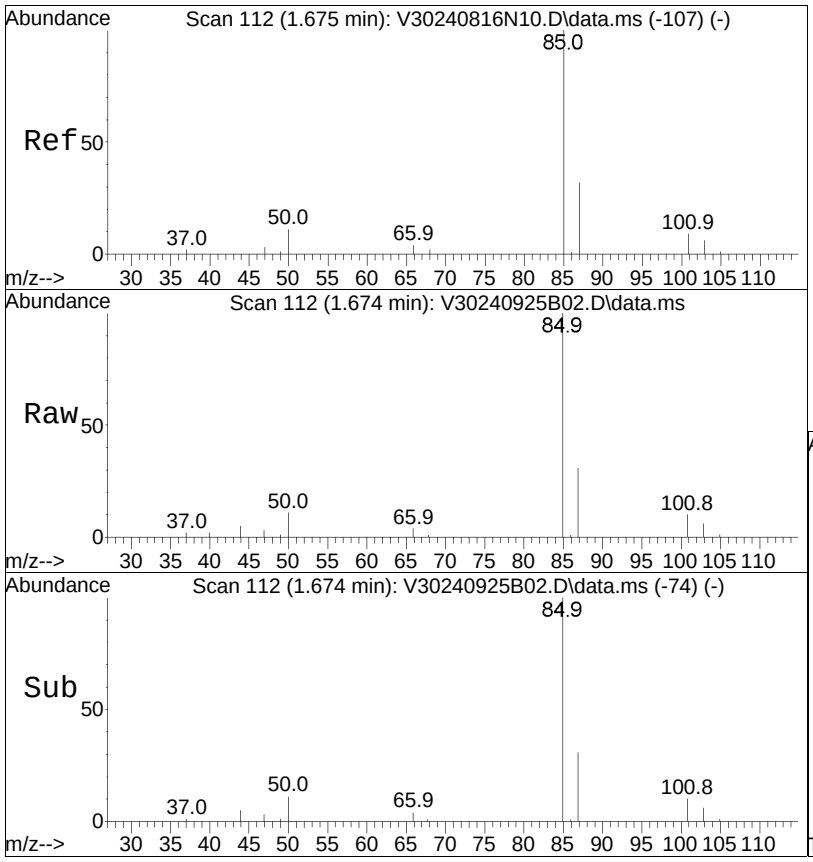
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B02.D
Acq On : 25 Sep 2024 01:27 pm
Operator : VOA130:LAC
Sample : WG1976724-3,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 13:47:37 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

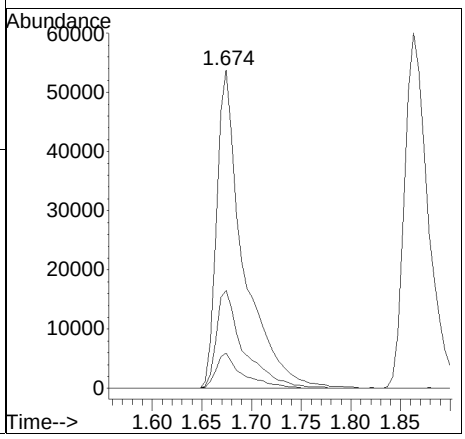


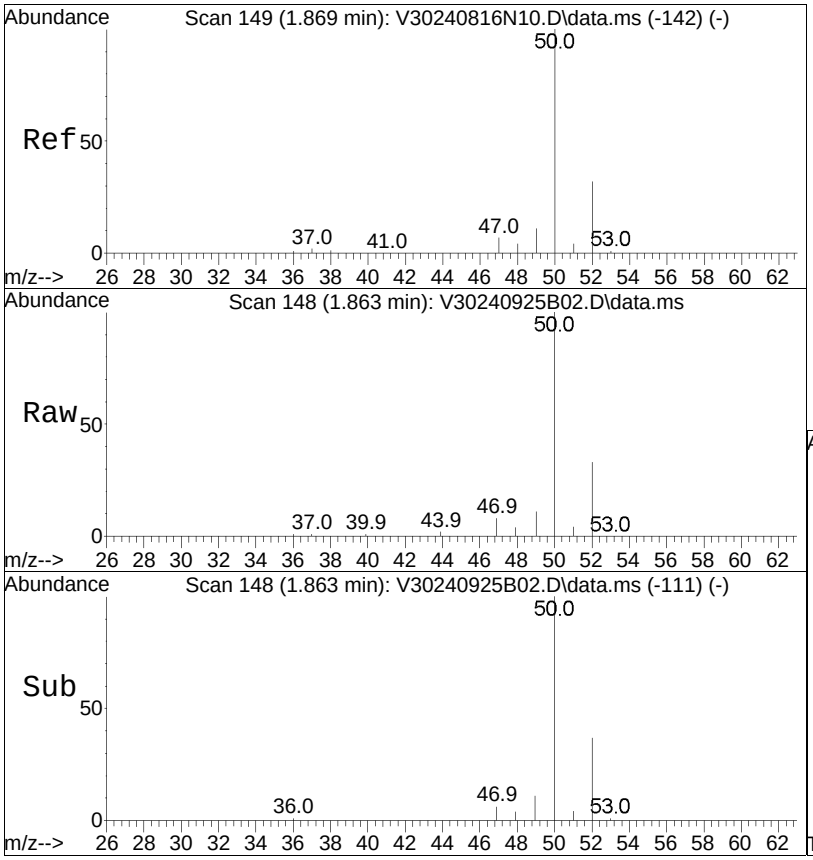


#2
Dichlorodifluoromethane
Concen: 11.14 ug/L
RT: 1.674 min Scan# 112
Delta R.T. -0.001 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 85 Resp: 100935

Ion	Ratio	Lower	Upper
85	100		
87	31.5	20.2	42.0
50	11.1	10.1	20.9

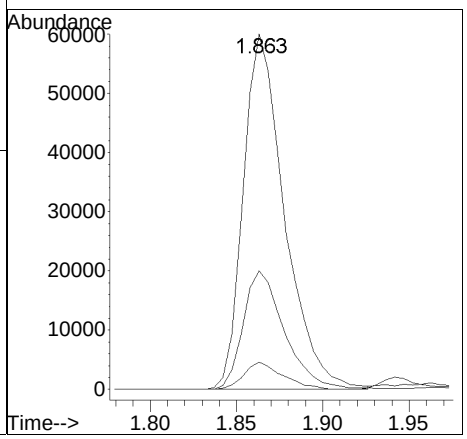


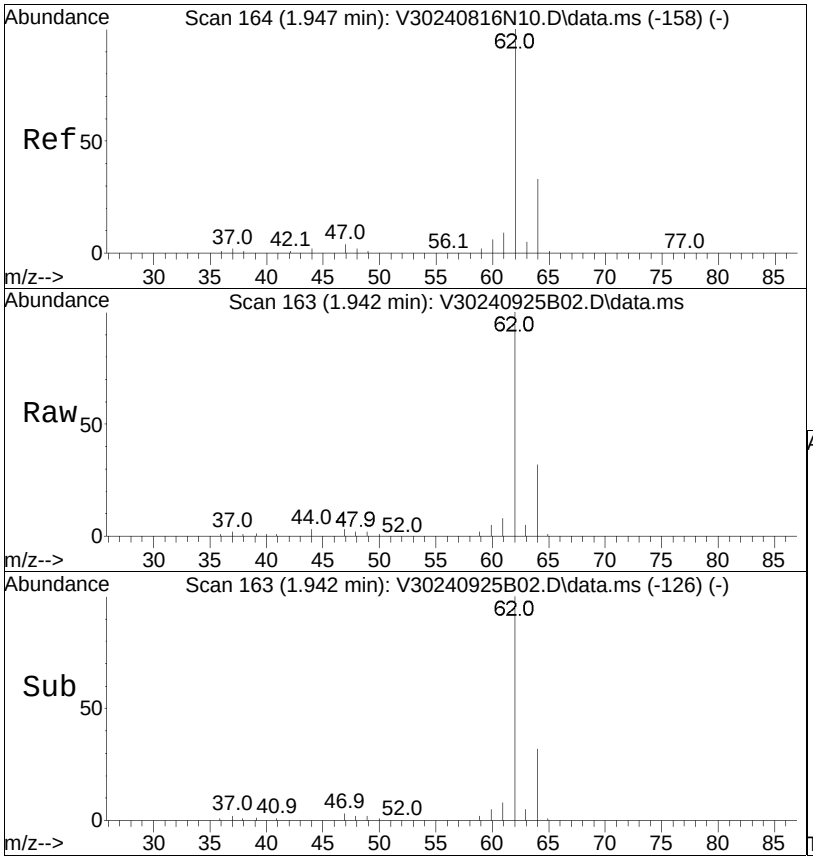


#3
Chloromethane
Concen: 10.19 ug/L
RT: 1.863 min Scan# 148
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 50 Resp: 99746

Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.1	37.7
47	7.3	6.5	9.7

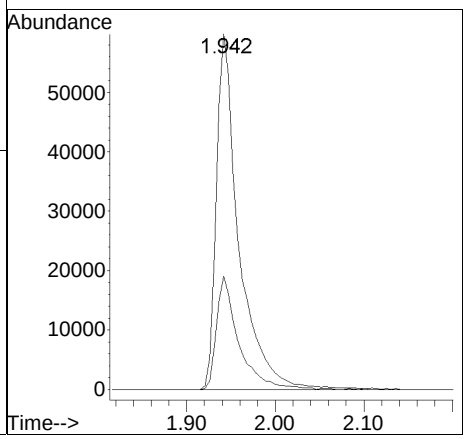


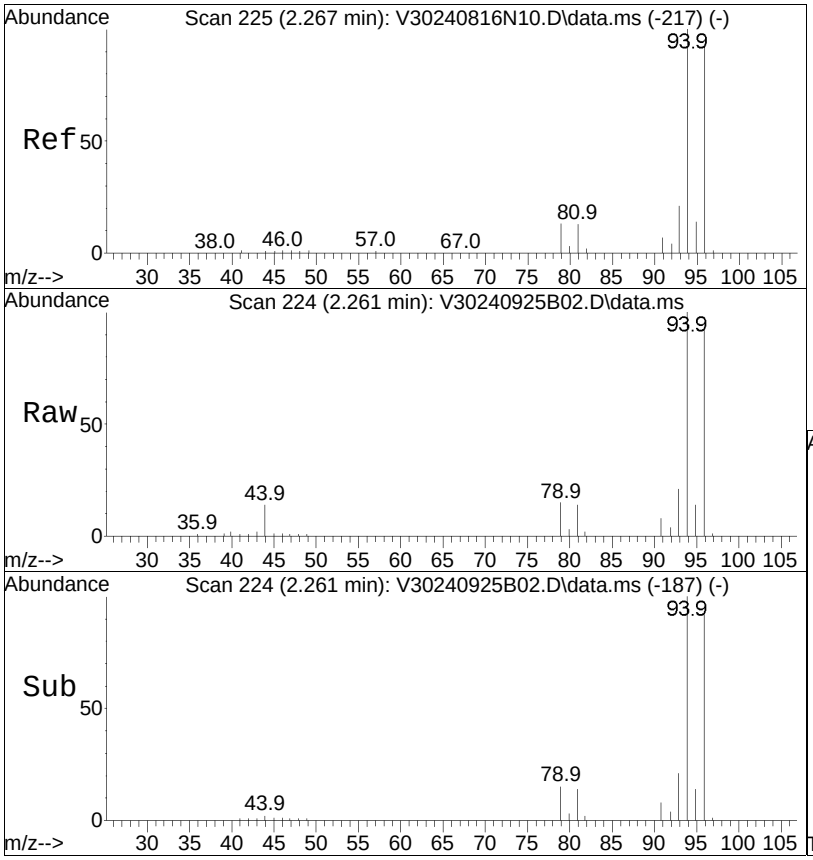


#4
Vinyl chloride
Concen: 12.06 ug/L
RT: 1.942 min Scan# 163
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 62 Resp: 105899

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.7	38.5

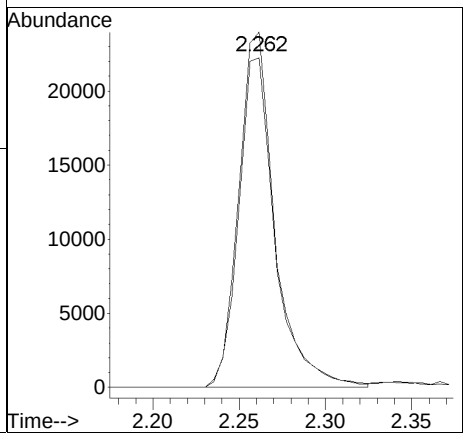


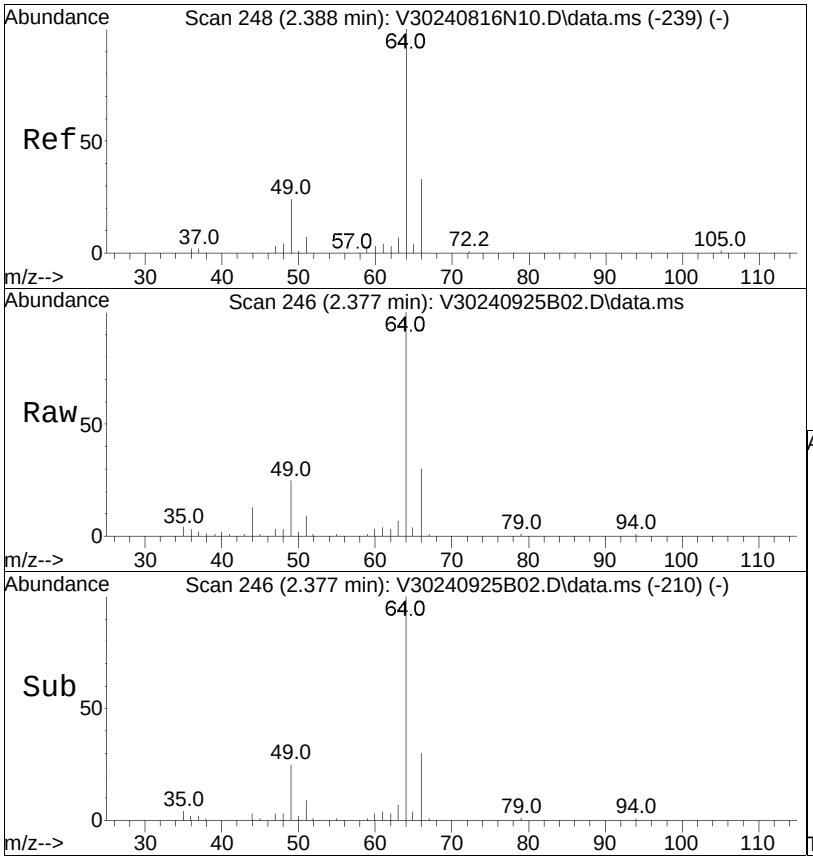


#5
Bromomethane
Concen: 6.66 ug/L
RT: 2.261 min Scan# 224
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 94 Resp: 35060

Ion	Ratio	Lower	Upper
94	100		
96	93.3	73.7	110.5

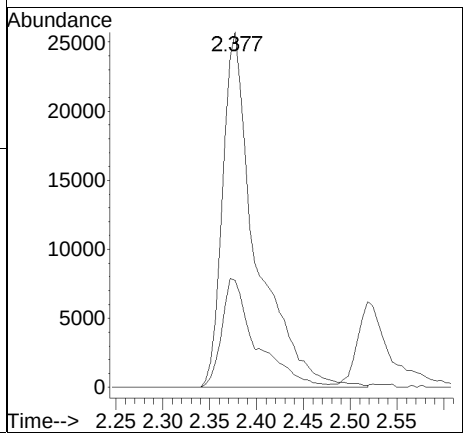


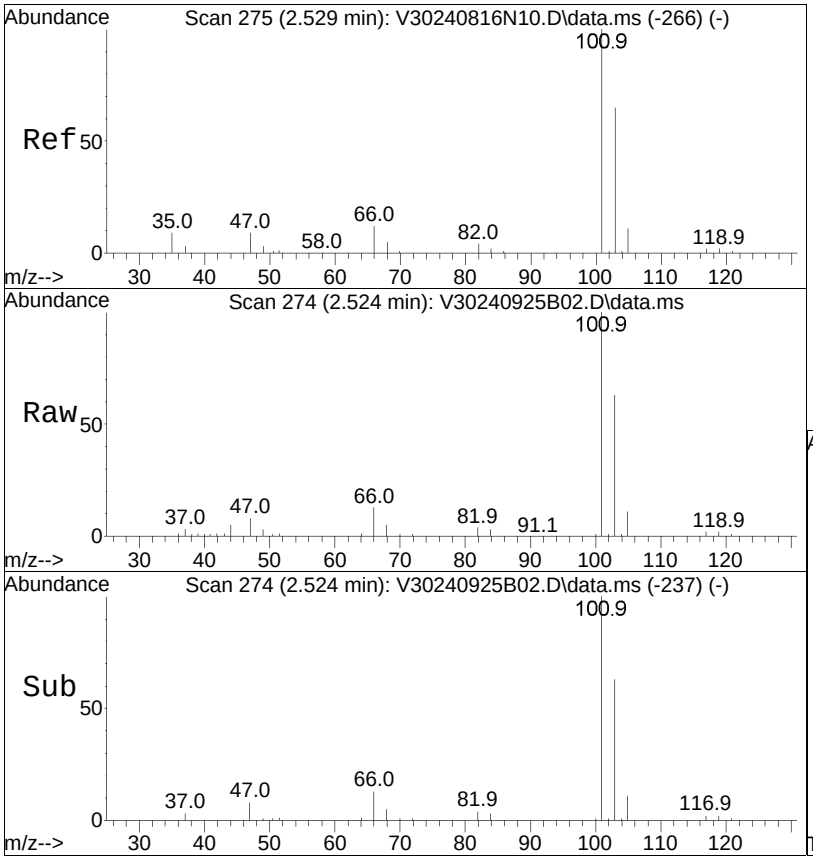


#6
Chloroethane
Concen: 11.43 ug/L
RT: 2.377 min Scan# 246
Delta R.T. -0.011 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 64 Resp: 63940

Ion	Ratio	Lower	Upper
64	100		
66	31.8	25.3	37.9

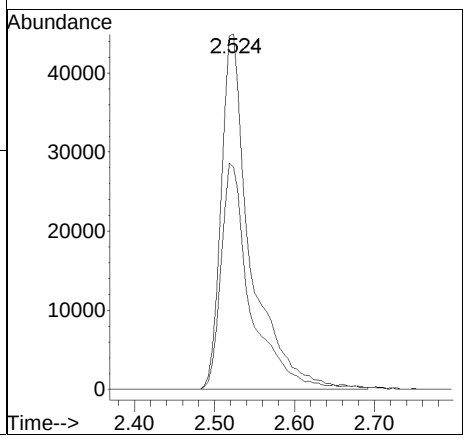


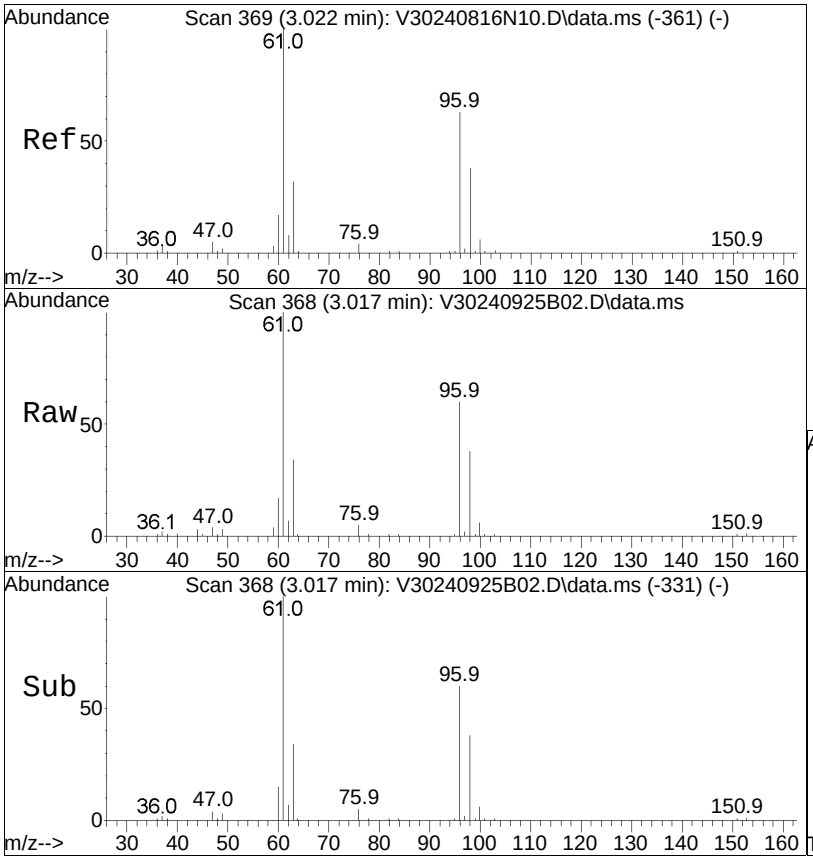


#7
Trichlorofluoromethane
Concen: 11.60 ug/L
RT: 2.524 min Scan# 274
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:101 Resp: 114674

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.0	76.4

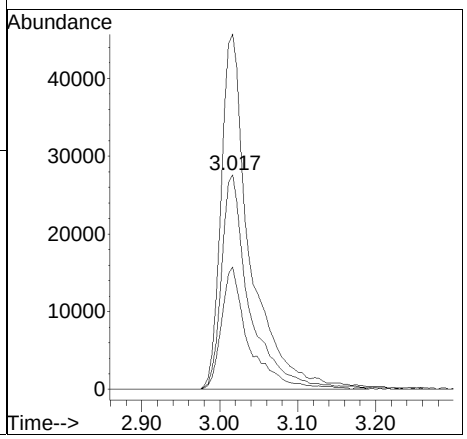


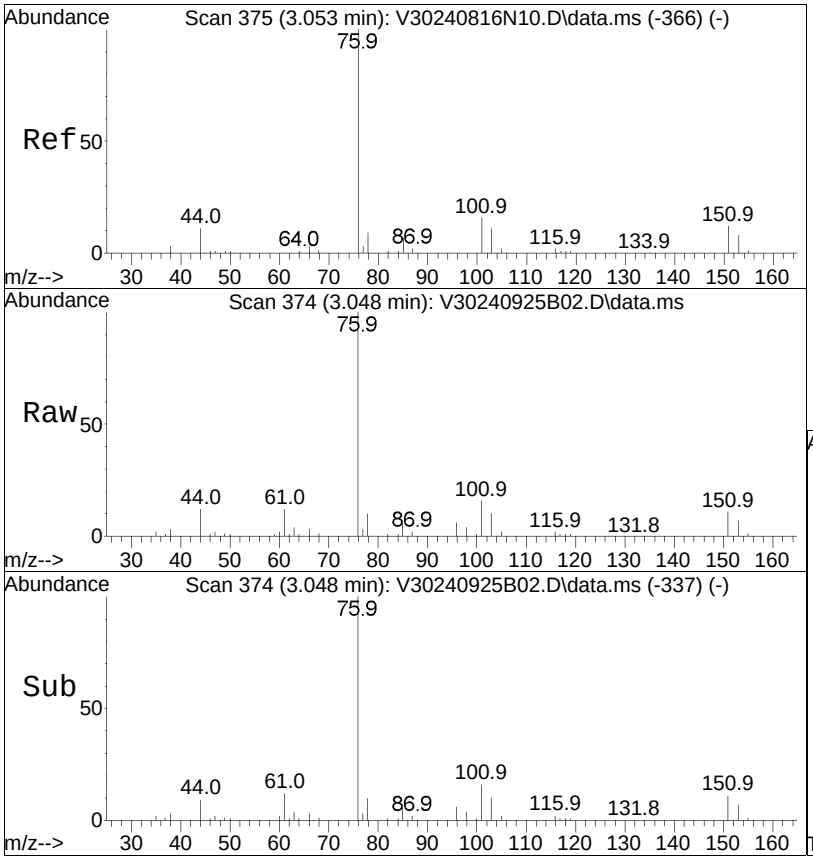


#10
1,1-Dichloroethene
Concen: 11.55 ug/L
RT: 3.017 min Scan# 368
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 96 Resp: 69879

Ion	Ratio	Lower	Upper
96	100		
61	169.9	165.5	248.3
63	55.0	51.9	77.9

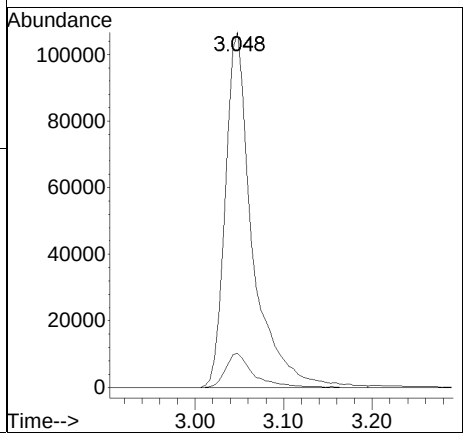


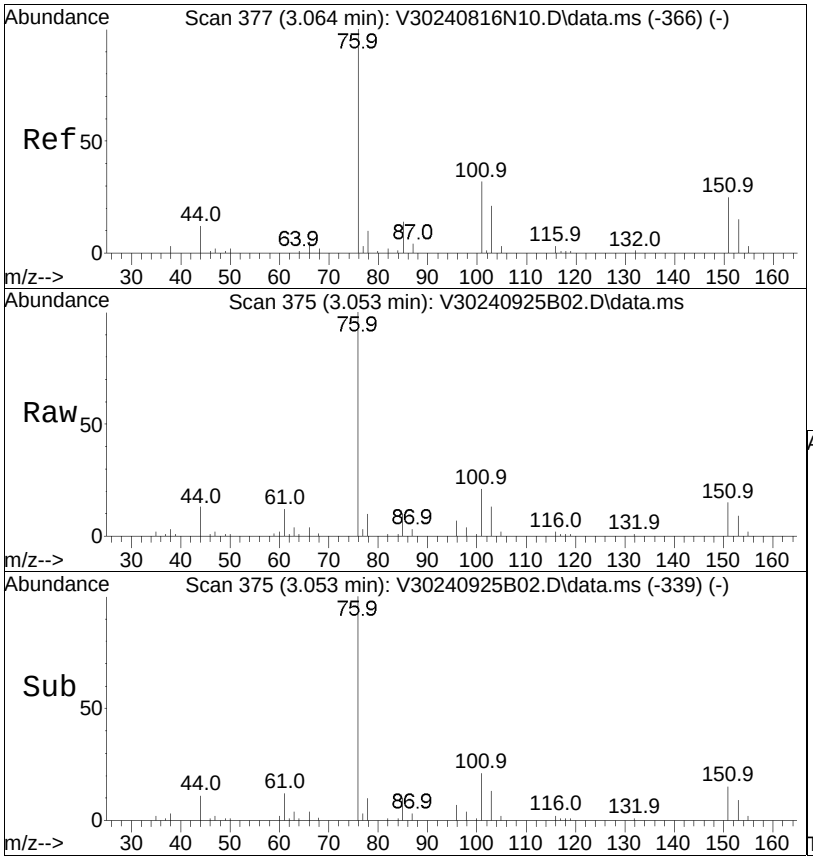


#11
Carbon disulfide
Concen: 12.04 ug/L
RT: 3.048 min Scan# 374
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 76 Resp: 227632

Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.4	13.4

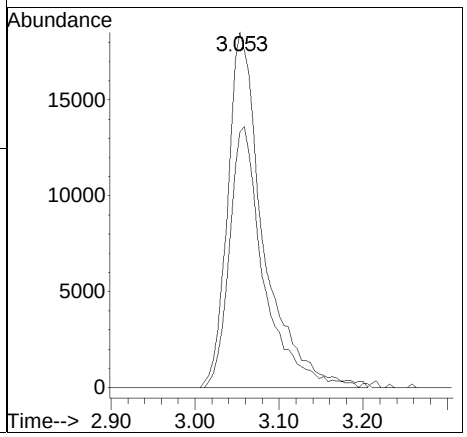


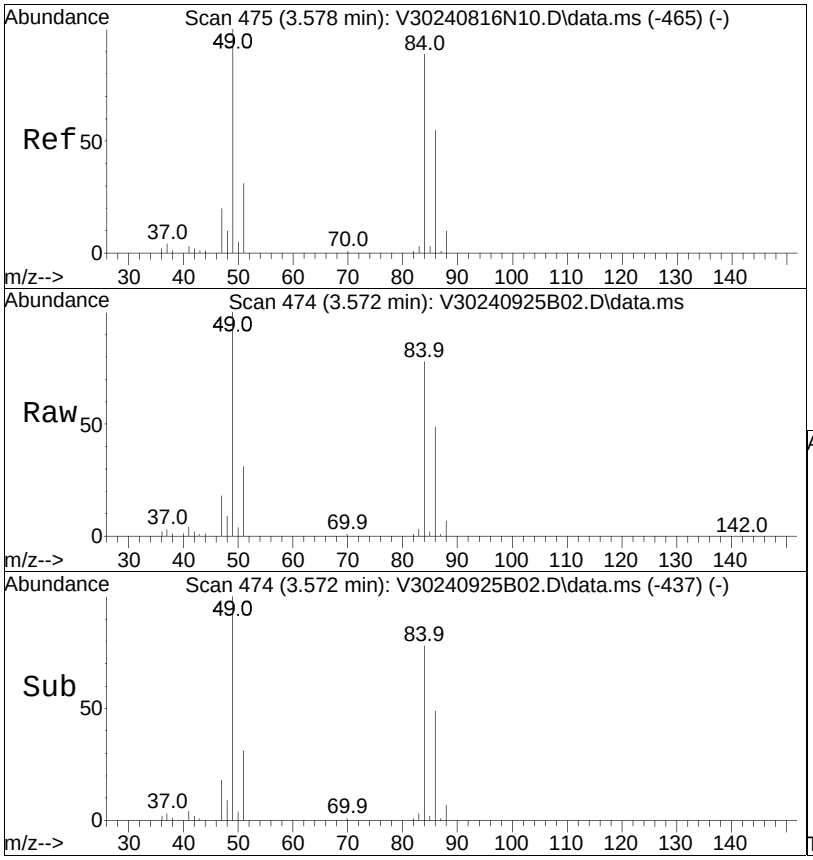


#12
Freon-113
Concen: 9.35 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.011 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:101 Resp: 54830

Ion	Ratio	Lower	Upper
101	100		
151	70.7	51.9	77.9

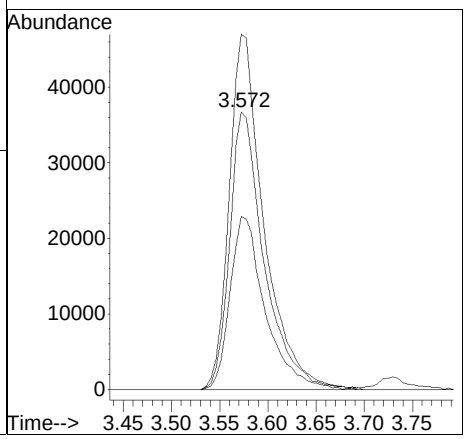


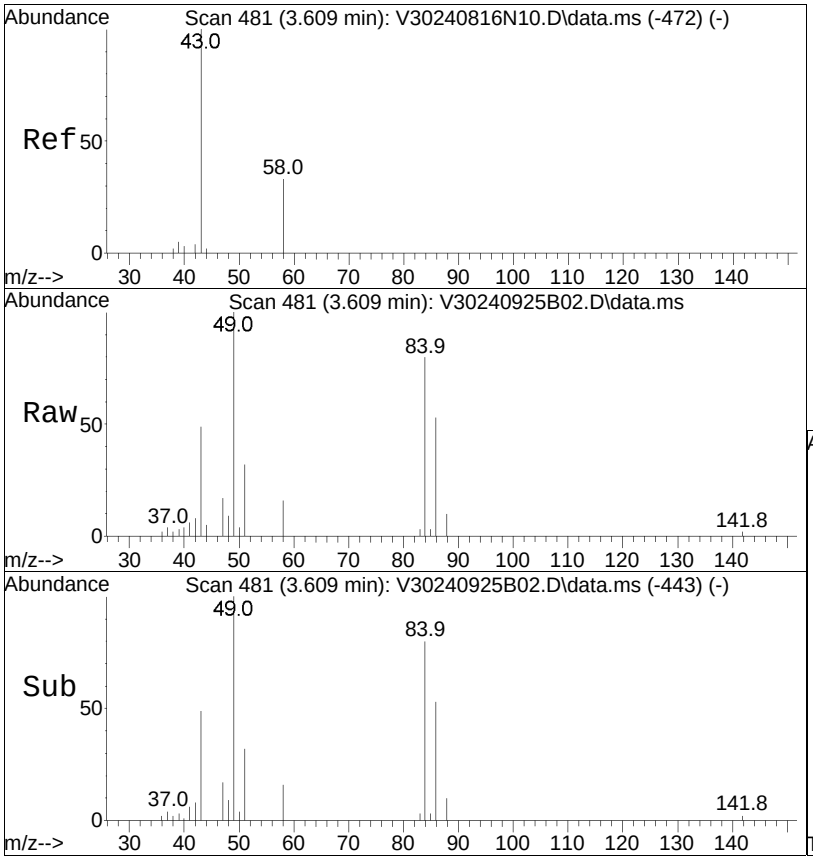


#15
Methylene chloride
Concen: 11.28 ug/L
RT: 3.572 min Scan# 474
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 84 Resp: 91266

Ion	Ratio	Lower	Upper
84	100		
86	63.6	41.7	86.5
49	128.6	103.9	215.9

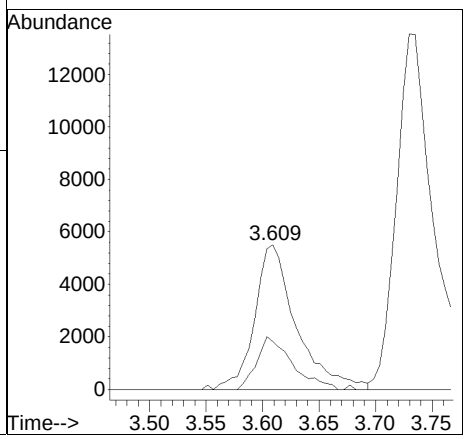


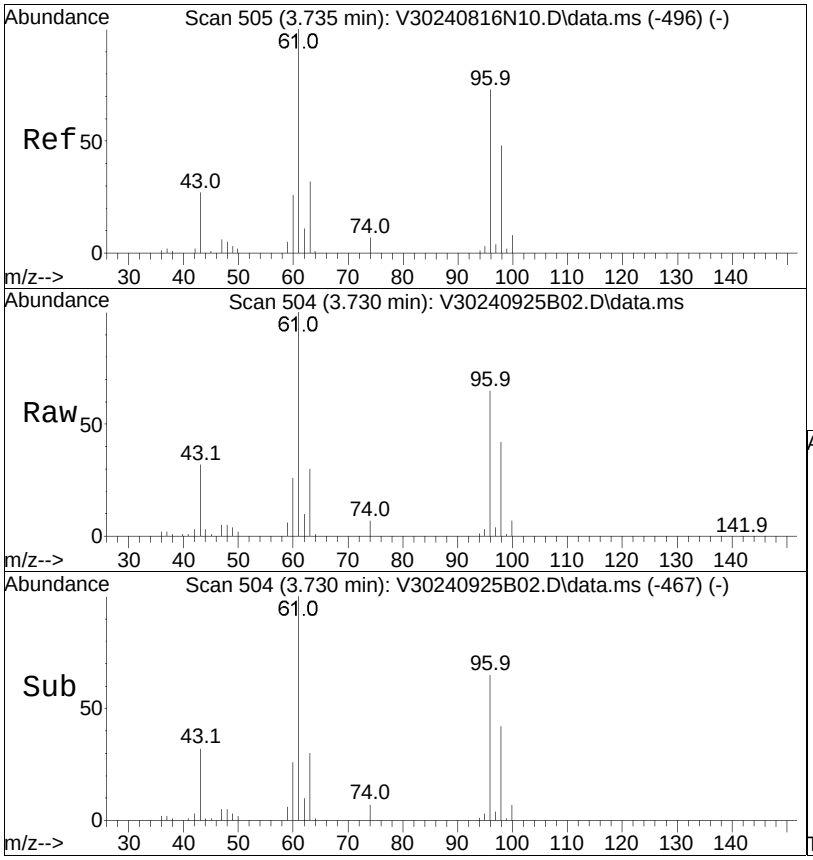


#17
Acetone
Concen: 14.43 ug/L
RT: 3.609 min Scan# 481
Delta R.T. -0.000 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 43 Resp: 14160

Ion	Ratio	Lower	Upper
43	100		
58	30.9	20.1	30.1#

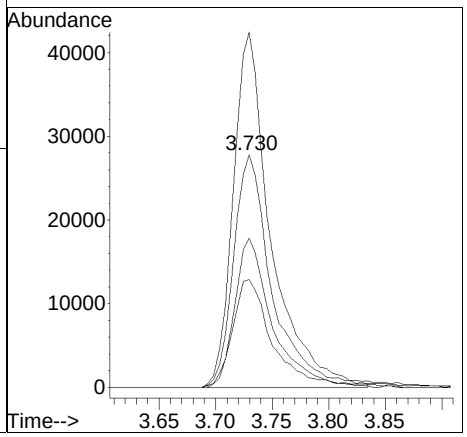


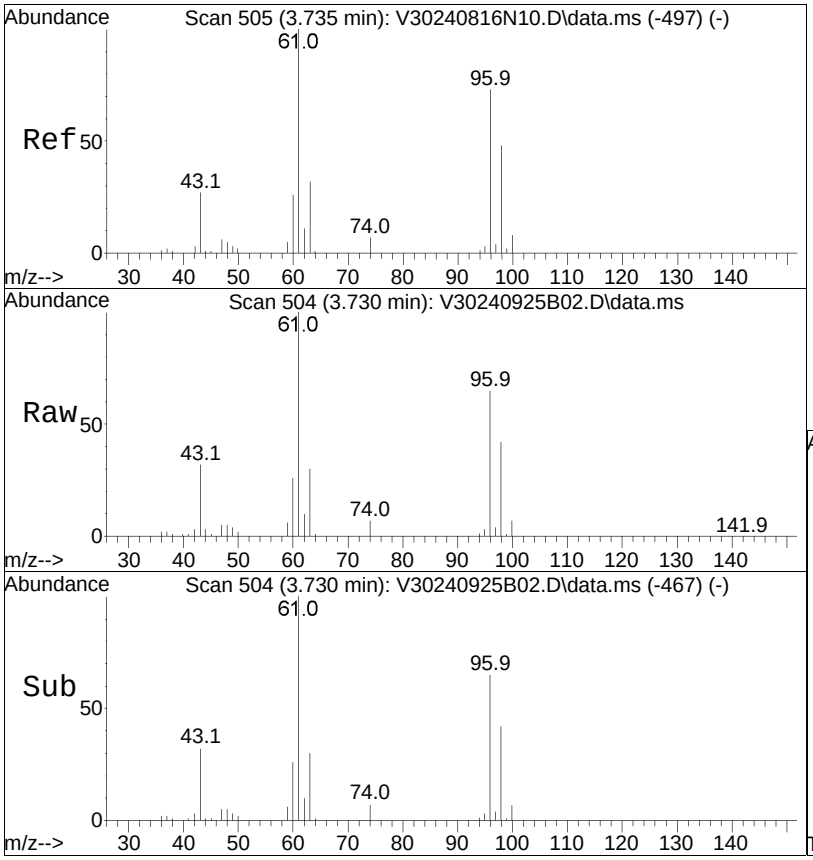


#18
trans-1,2-Dichloroethene
Concen: 10.58 ug/L
RT: 3.730 min Scan# 504
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 96 Resp: 65904

Ion	Ratio	Lower	Upper
96	100		
61	151.7	113.6	236.0
98	63.6	40.8	84.8
63	47.6	36.5	75.7

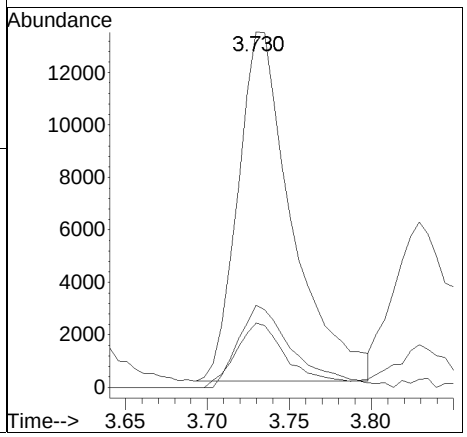


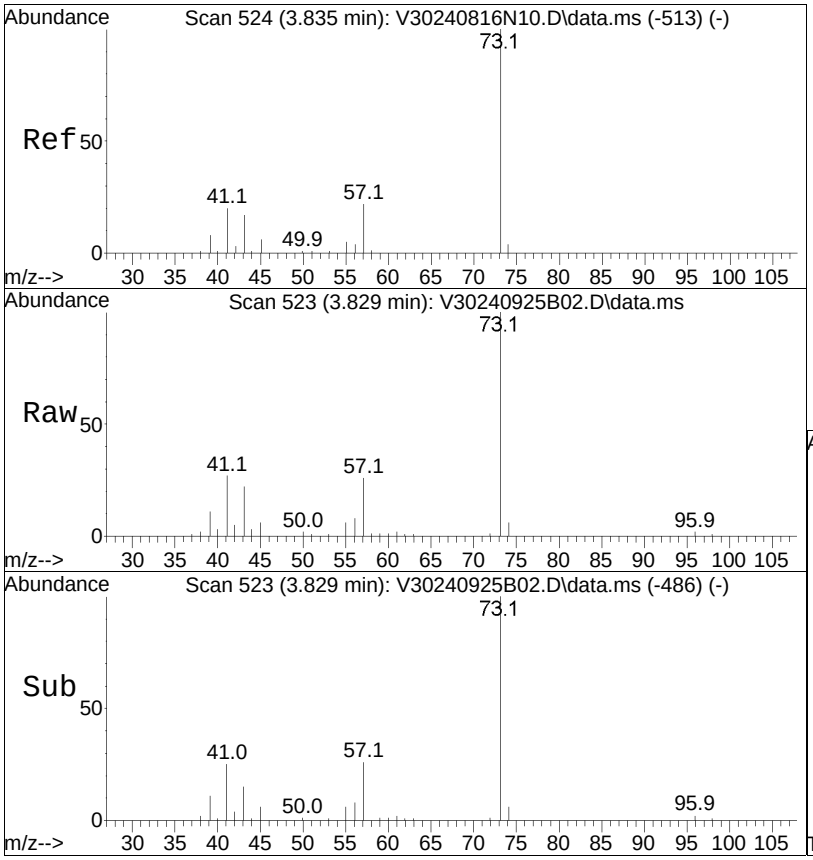


#19
Methyl acetate
Concen: 13.76 ug/L
RT: 3.730 min Scan# 504
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 43 Resp: 30786

Ion	Ratio	Lower	Upper
43	100		
74	23.5	14.6	22.0#
59	18.6	9.3	13.9#

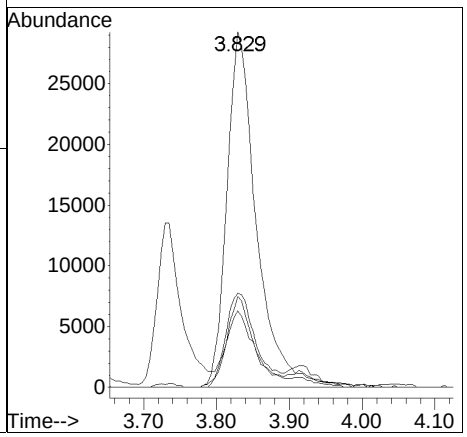


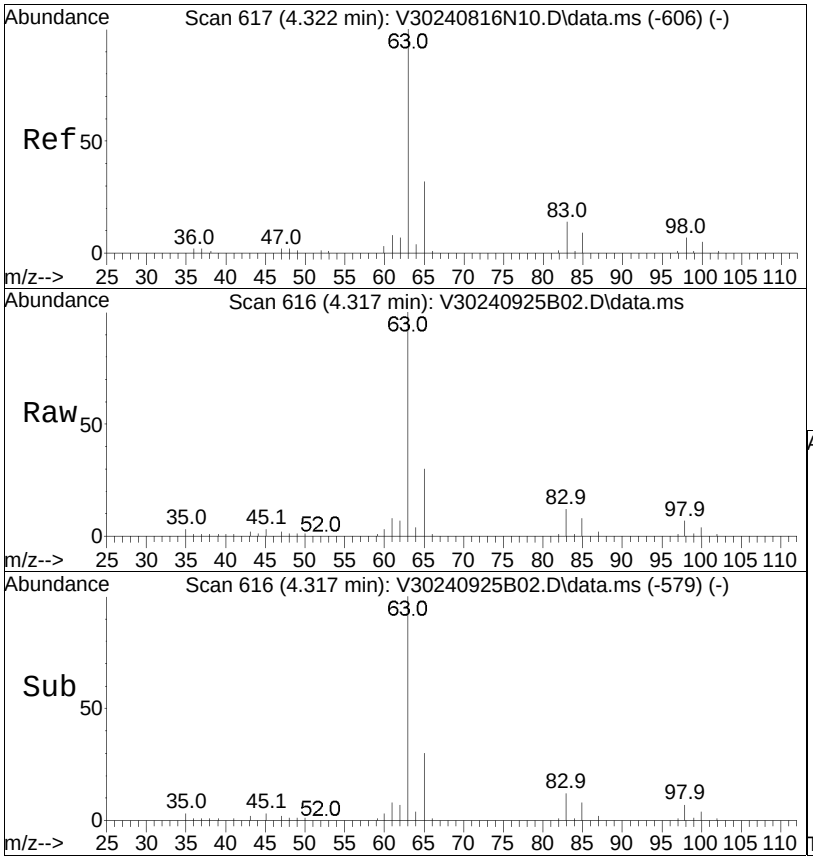


#21
Methyl tert-butyl ether
Concen: 6.47 ug/L
RT: 3.829 min Scan# 523
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 73 Resp: 83213

Ion	Ratio	Lower	Upper
73	100		
57	23.8	15.5	32.1
43	16.2	16.6	34.6#
41	27.3	17.2	35.6

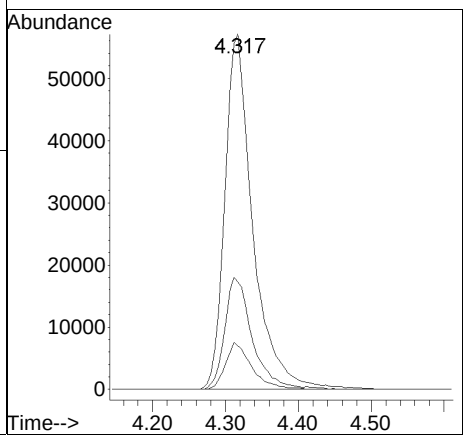


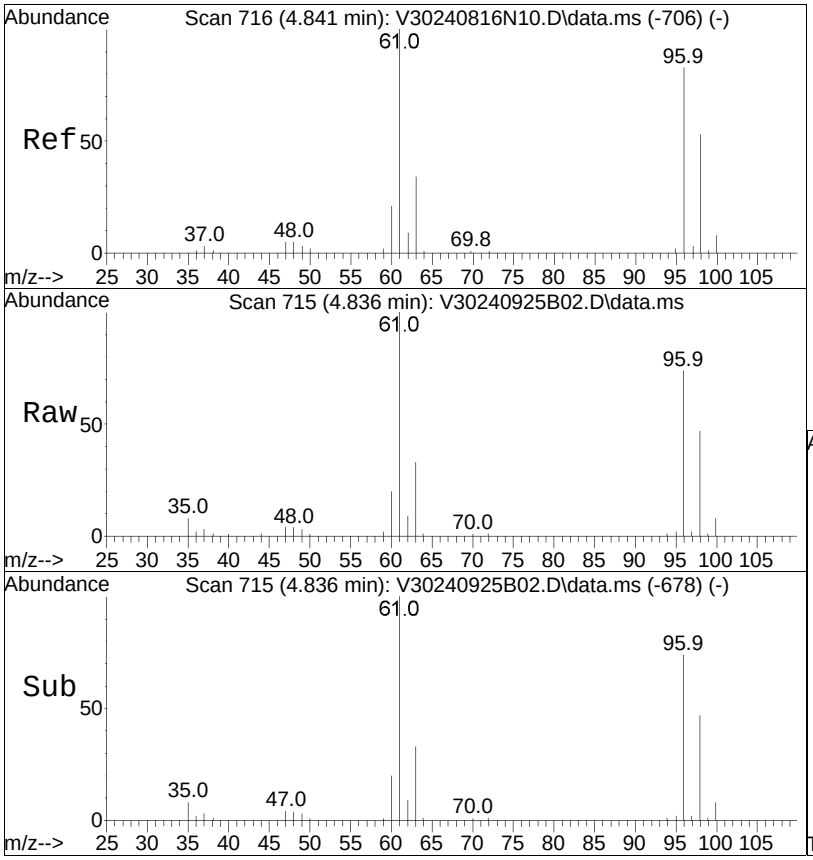


#25
1,1-Dichloroethane
Concen: 13.01 ug/L
RT: 4.317 min Scan# 616
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 63 Resp: 152727

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.5	36.7
83	12.4	8.9	13.3

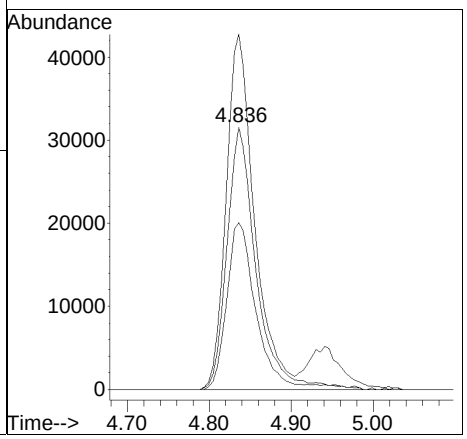


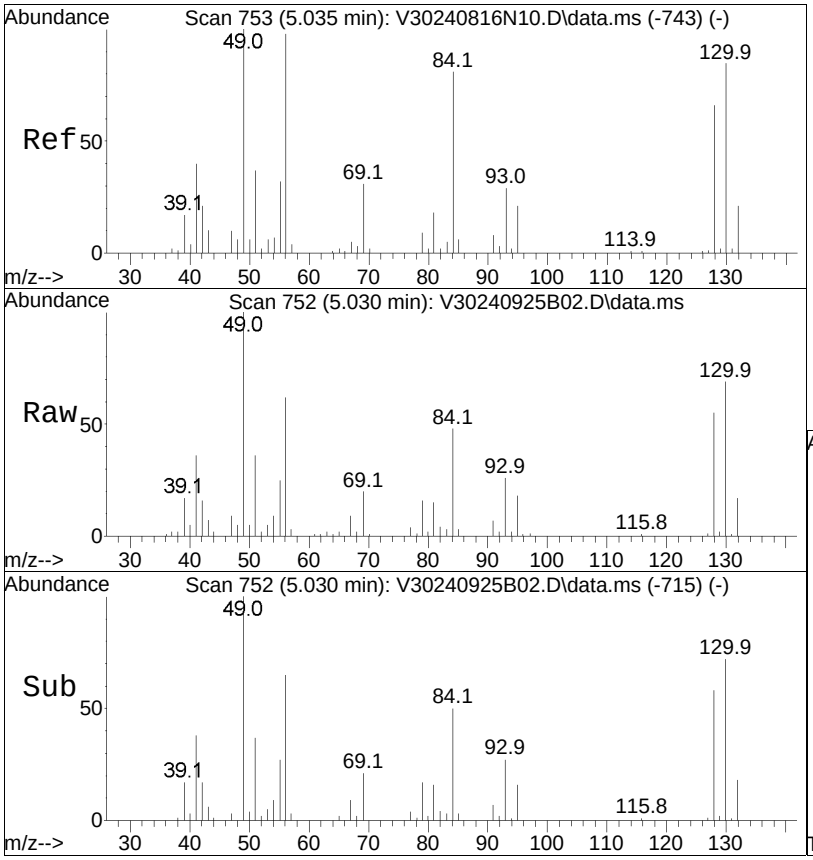


#30
cis-1,2-Dichloroethene
Concen: 10.67 ug/L
RT: 4.836 min Scan# 715
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 96 Resp: 77950

Ion	Ratio	Lower	Upper
96	100		
61	130.7	129.3	193.9
98	64.9	51.4	77.2

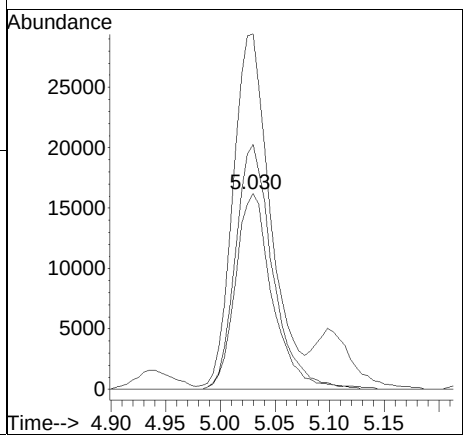


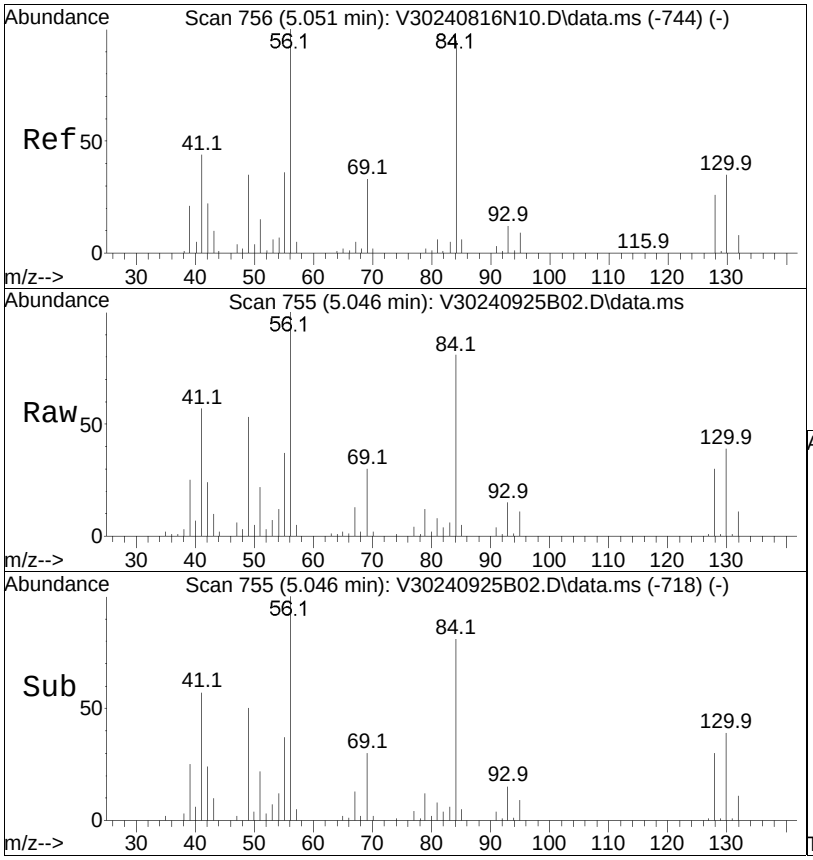


#33
Bromochloromethane
Concen: 11.01 ug/L
RT: 5.030 min Scan# 752
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:128 Resp: 38254

Ion	Ratio	Lower	Upper
128	100		
49	183.6	214.8	322.2#
130	126.3	105.4	158.2

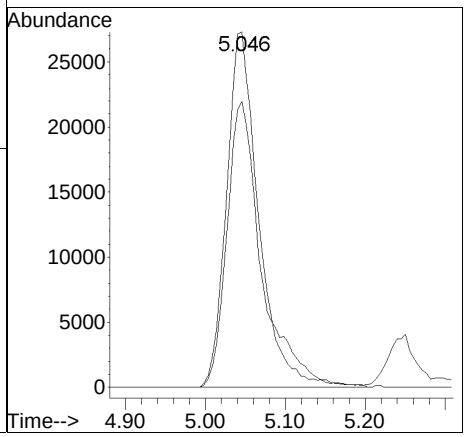


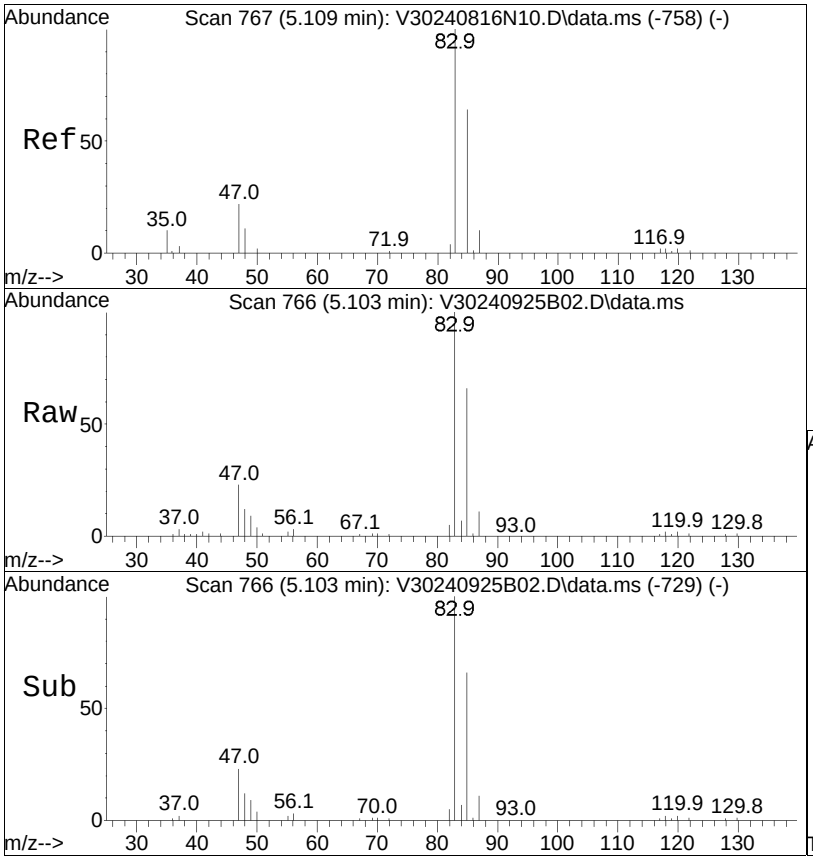


#34
Cyclohexane
Concen: 8.13 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 56 Resp: 76645

Ion	Ratio	Lower	Upper
56	100		
84	86.7	49.9	103.5

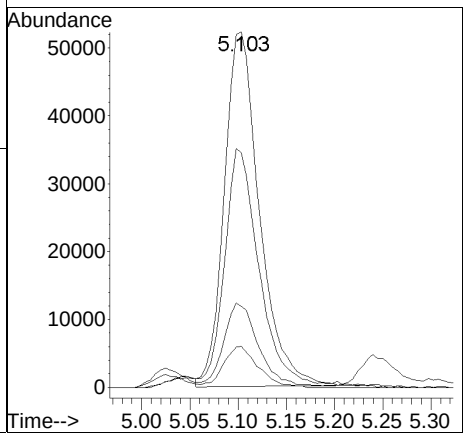


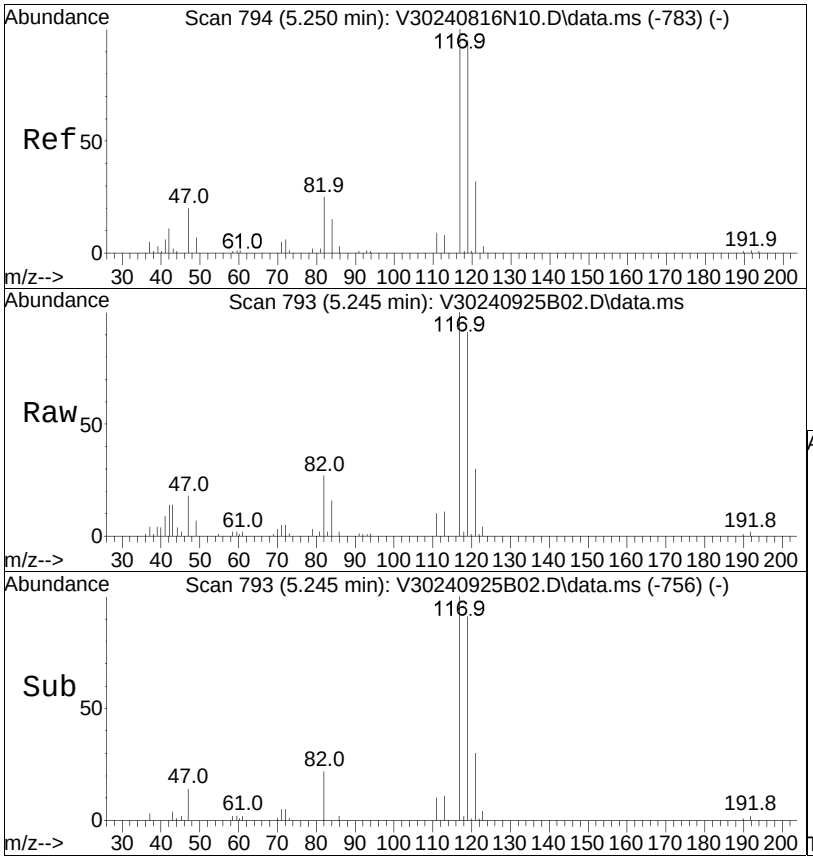


#35
Chloroform
Concen: 11.65 ug/L
RT: 5.103 min Scan# 766
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 83 Resp: 133089

Ion	Ratio	Lower	Upper
83	100		
85	65.4	41.4	86.0
47	22.7	20.5	42.5
48	11.4	9.9	20.5

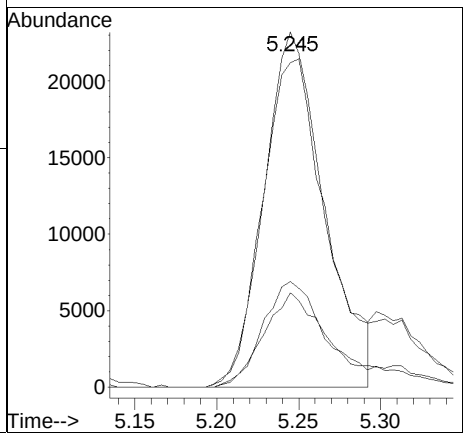


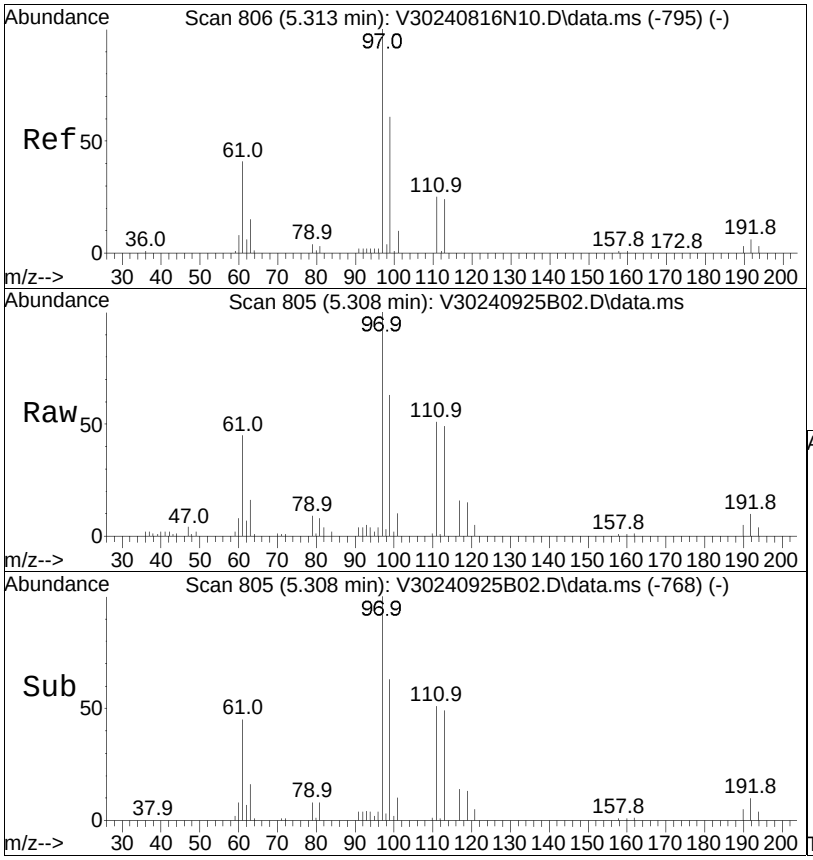


#37
Carbon tetrachloride
Concen: 7.90 ug/L
RT: 5.245 min Scan# 793
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:117 Resp: 59836

Ion	Ratio	Lower	Upper
117	100		
119	96.5	62.0	128.8
121	32.1	19.6	40.6
82	32.2	18.8	39.0

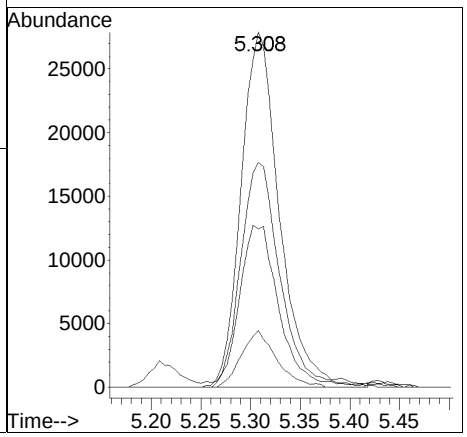


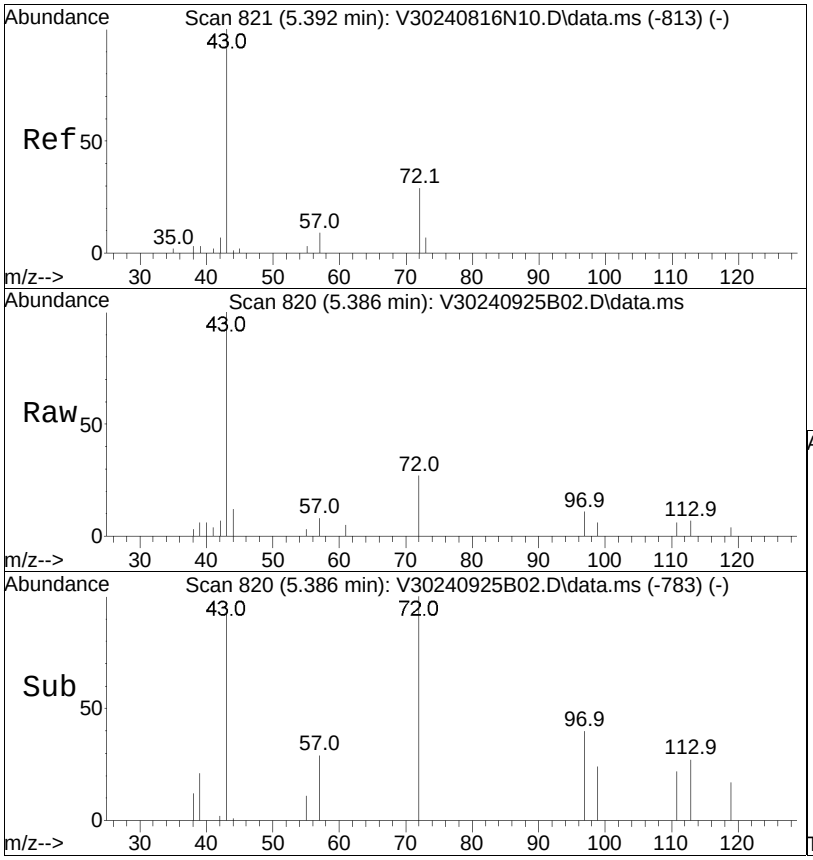


#40
1,1,1-Trichloroethane
Concen: 7.93 ug/L
RT: 5.308 min Scan# 805
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 97 Resp: 75554

Ion	Ratio	Lower	Upper
97	100		
99	64.3	40.6	84.4
61	46.8	35.0	72.8
63	14.7	11.1	23.0

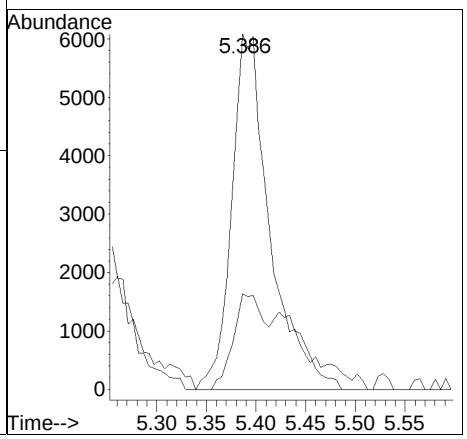


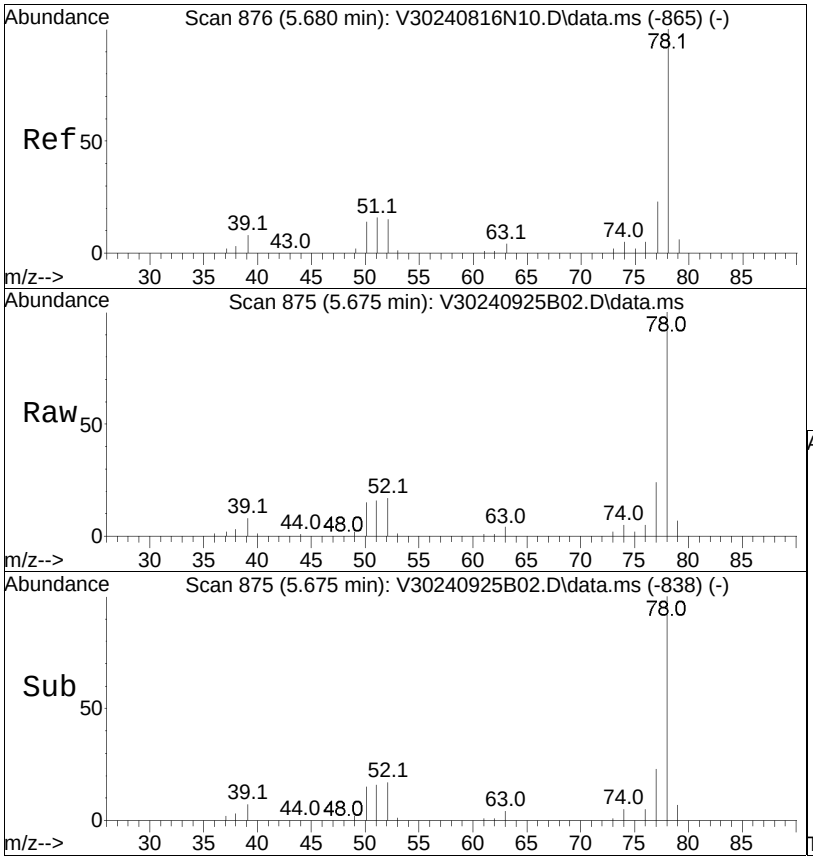


#42
2-Butanone
Concen: 11.42 ug/L
RT: 5.386 min Scan# 820
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 43 Resp: 16872

Ion	Ratio	Lower	Upper
43	100		
72	21.0	18.2	27.4

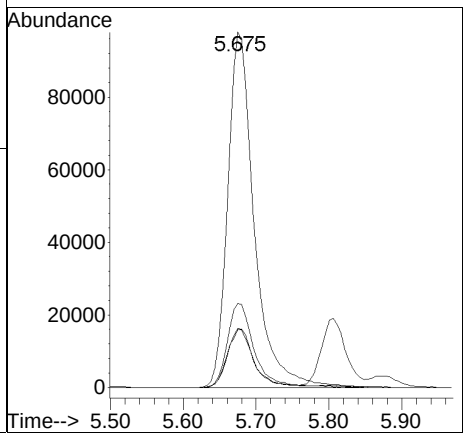


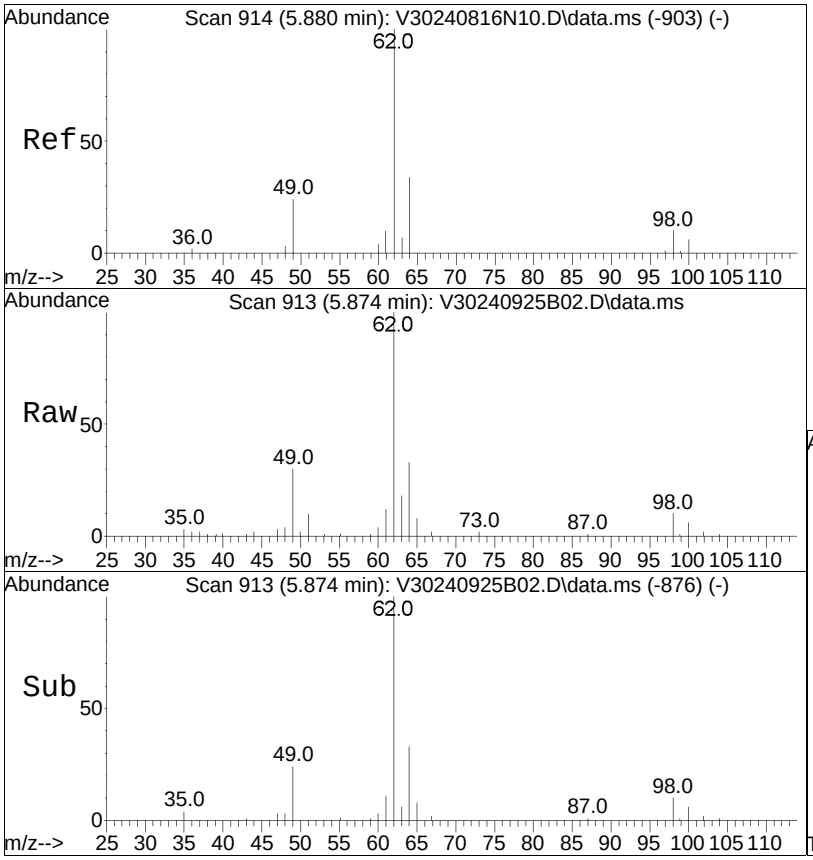


#45
Benzene
Concen: 10.08 ug/L
RT: 5.675 min Scan# 875
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 78 Resp: 248606

Ion	Ratio	Lower	Upper
78	100		
77	23.7	15.6	32.4
51	16.3	12.9	26.7
52	16.3	12.4	25.7

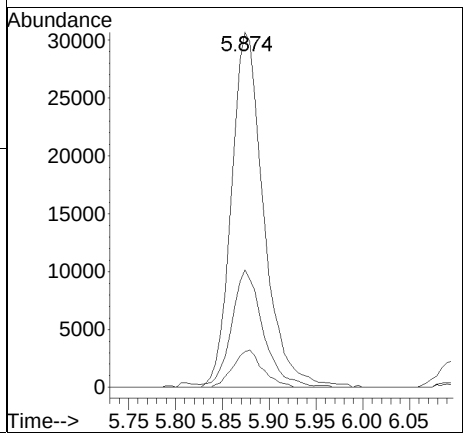


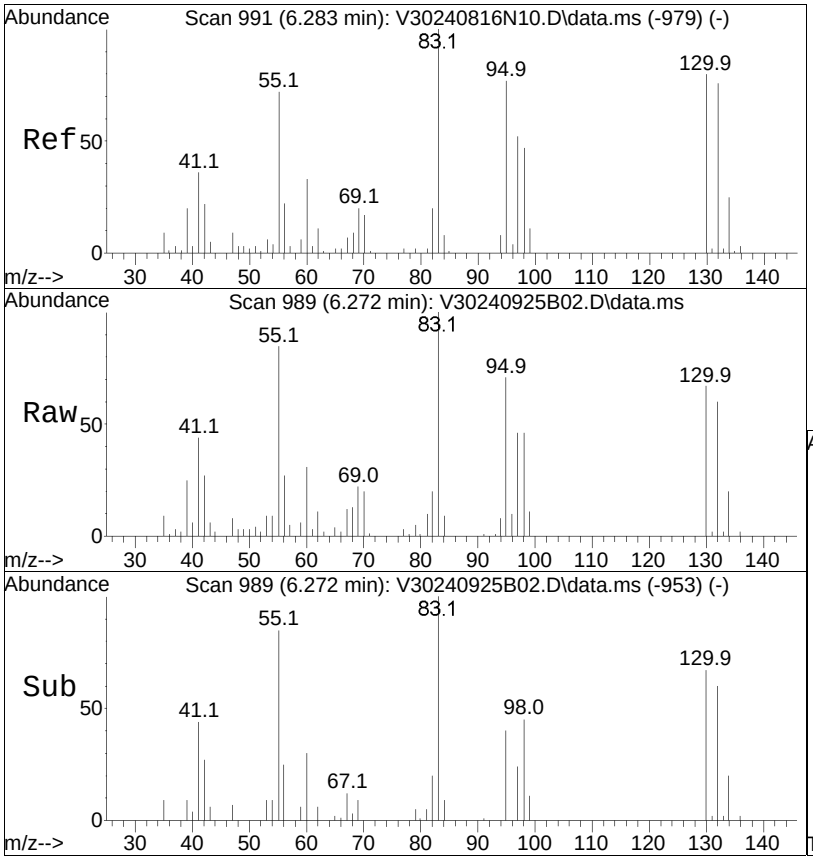


#48
1,2-Dichloroethane
Concen: 10.37 ug/L
RT: 5.874 min Scan# 913
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 62 Resp: 73664

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.5	38.3
98	9.7	5.5	8.3#

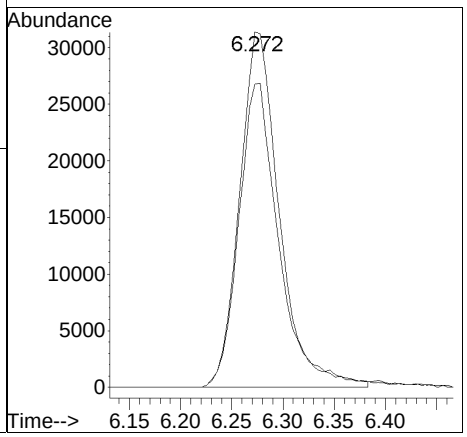


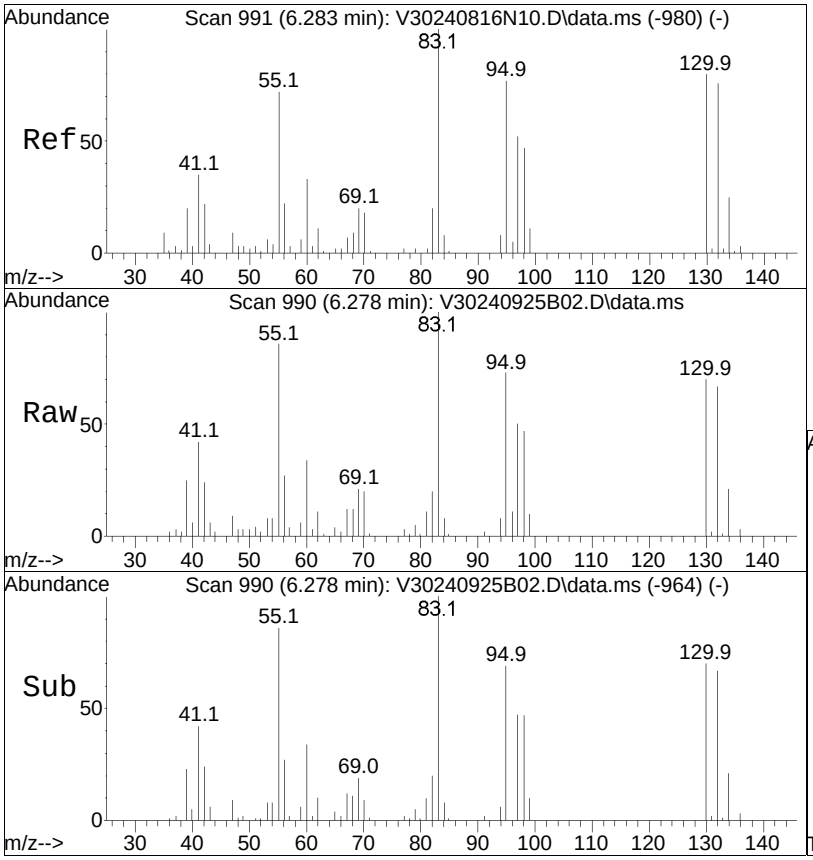


#51
Methyl cyclohexane
Concen: 8.69 ug/L
RT: 6.272 min Scan# 989
Delta R.T. -0.011 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 83 Resp: 84750

Ion	Ratio	Lower	Upper
83	100		
55	86.7	74.6	112.0

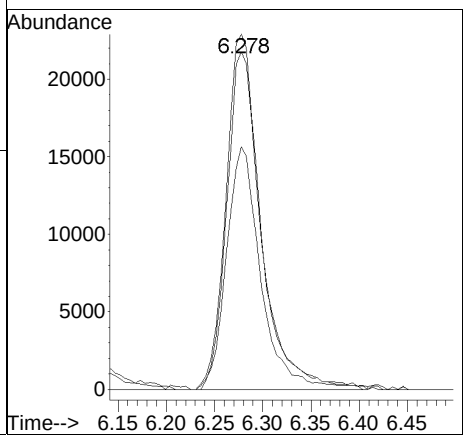


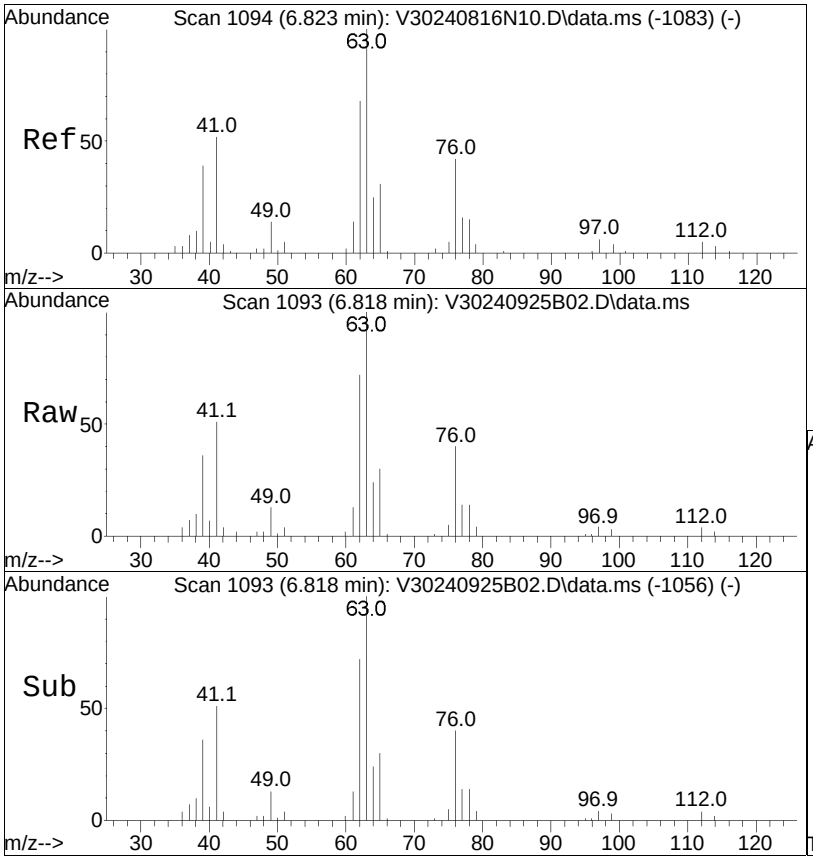


#52
Trichloroethene
Concen: 8.82 ug/L
RT: 6.278 min Scan# 990
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 95 Resp: 58068

Ion	Ratio	Lower	Upper
95	100		
97	66.9	53.8	80.6
130	93.1	71.4	107.0

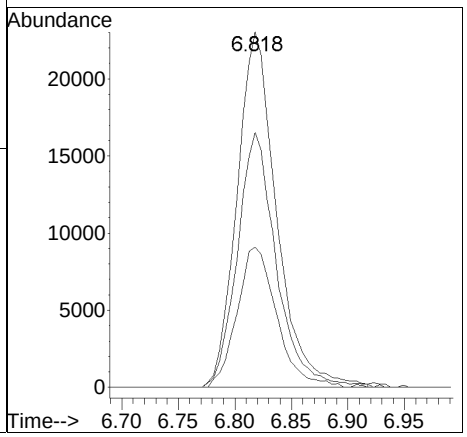


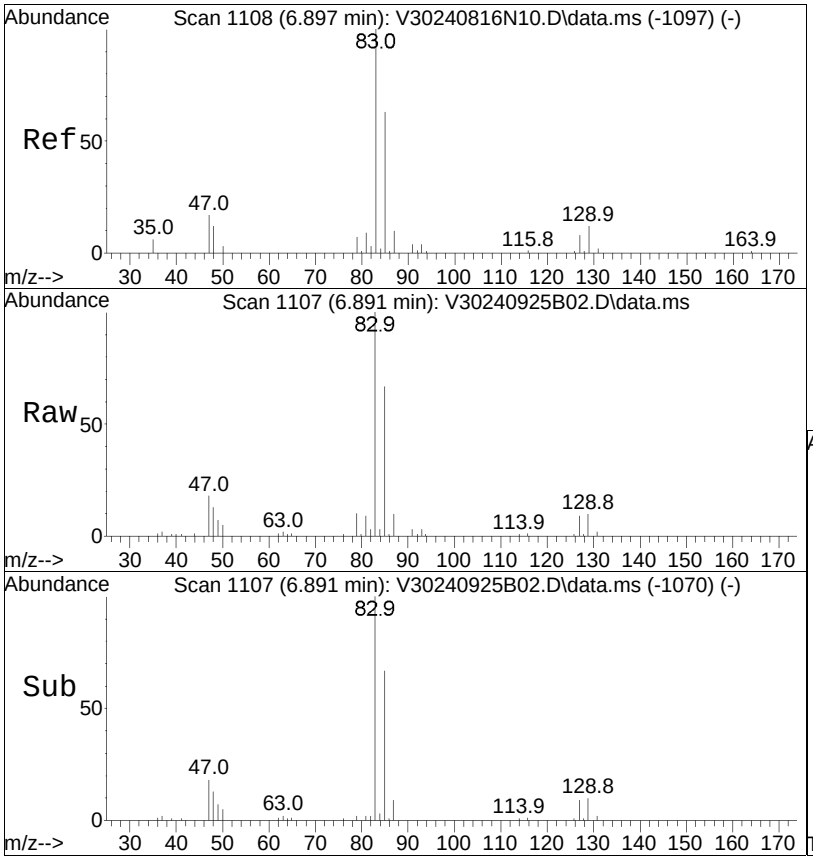


#55
1,2-Dichloropropane
Concen: 9.75 ug/L
RT: 6.818 min Scan# 1093
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 63 Resp: 56142

Ion	Ratio	Lower	Upper
63	100		
62	70.8	58.1	87.1
76	39.7	30.4	45.6

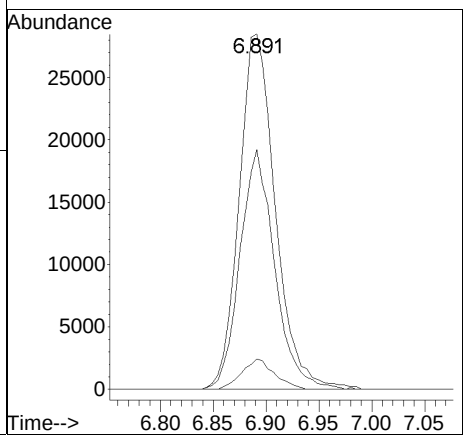


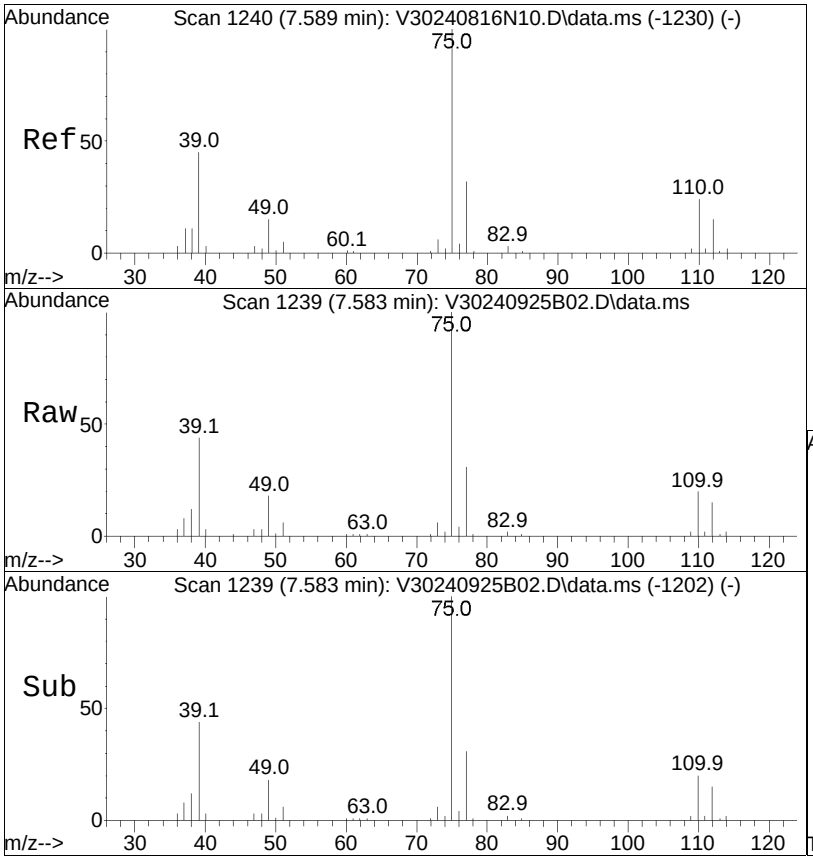


#58
Bromodichloromethane
Concen: 8.60 ug/L
RT: 6.891 min Scan# 1107
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 83 Resp: 67920

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.2	75.2
127	7.7	5.2	7.8

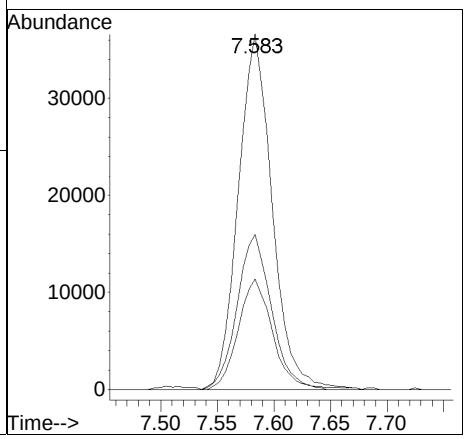


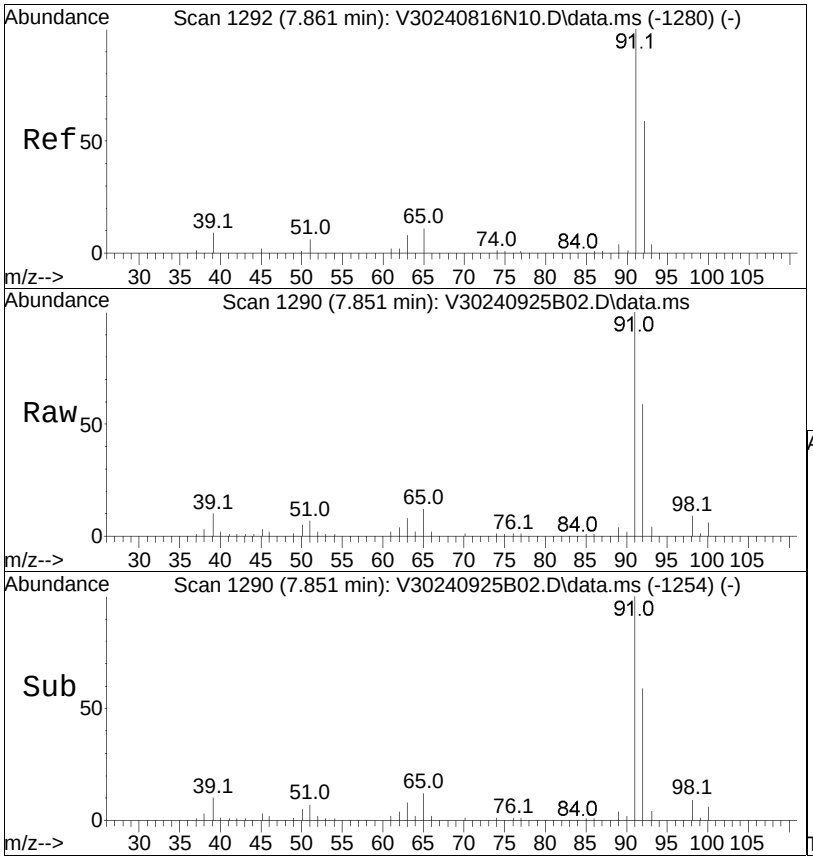


#62
cis-1,3-Dichloropropene
Concen: 8.56 ug/L
RT: 7.583 min Scan# 1239
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 75 Resp: 76346

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.2
39	44.6	54.6	82.0#

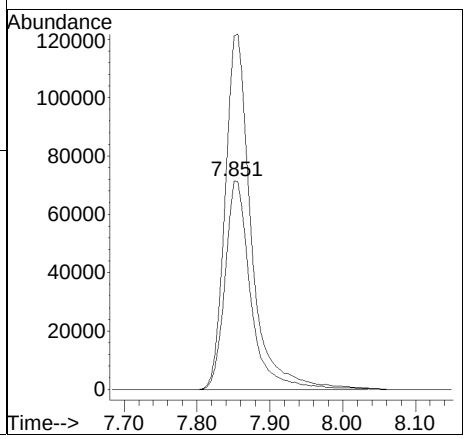


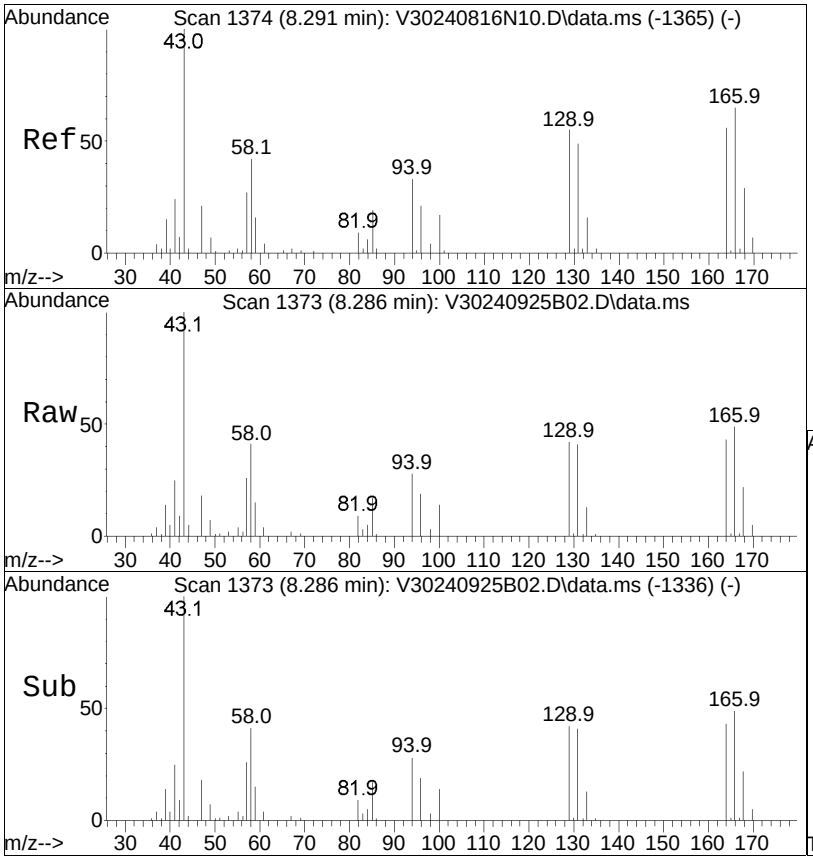


#65
Toluene
Concen: 10.55 ug/L
RT: 7.851 min Scan# 1290
Delta R.T. -0.010 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 92 Resp: 175933

Ion	Ratio	Lower	Upper
92	100		
91	171.9	137.5	206.3

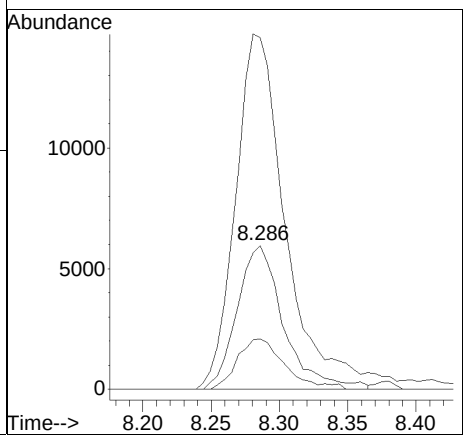


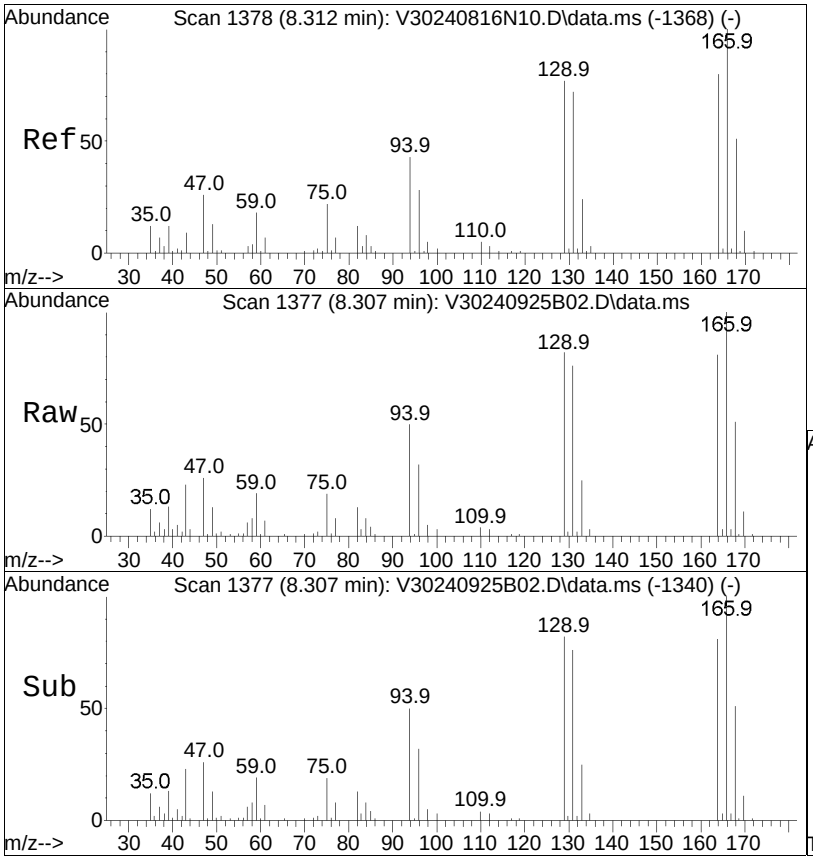


#66
4-Methyl-2-pentanone
Concen: 10.29 ug/L
RT: 8.286 min Scan# 1373
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 58 Resp: 14141

Ion	Ratio	Lower	Upper
58	100		
100	36.0	22.6	34.0#
43	269.1	234.6	351.8

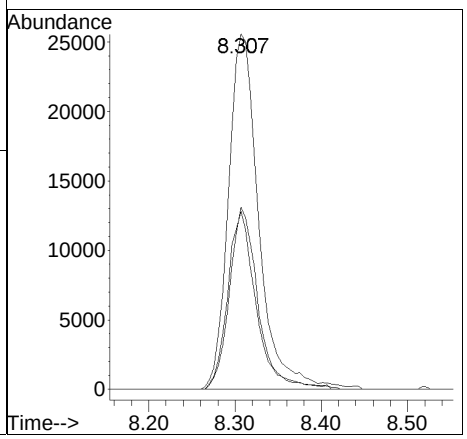


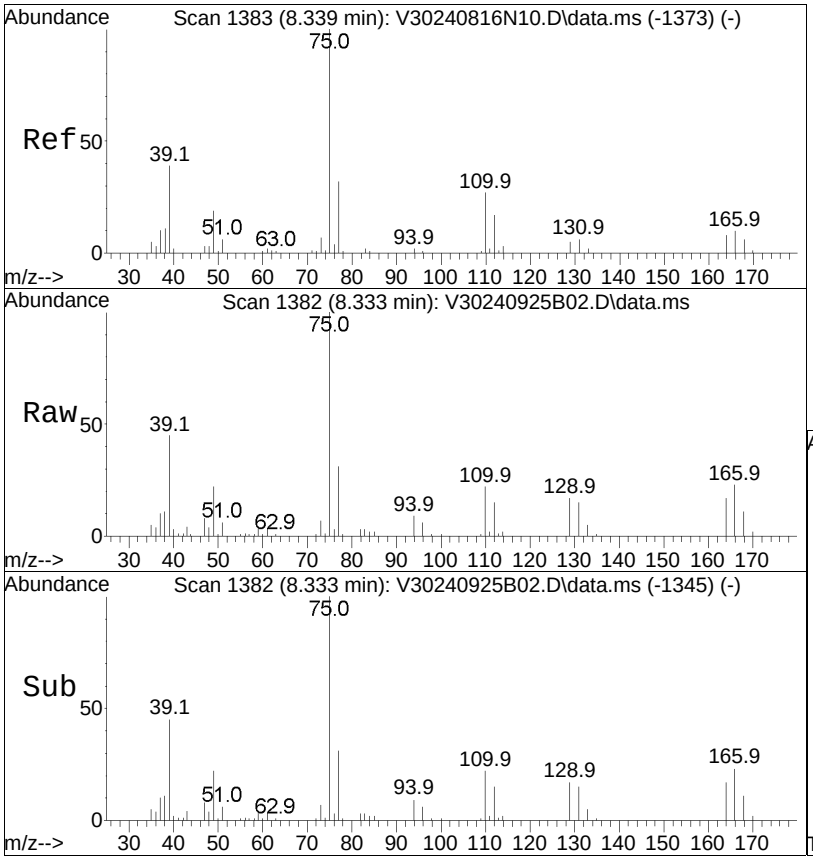


#67
Tetrachloroethene
Concen: 9.54 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:166 Resp: 63071

Ion	Ratio	Lower	Upper
166	100		
168	48.1	38.6	58.0
94	46.8	42.6	63.8

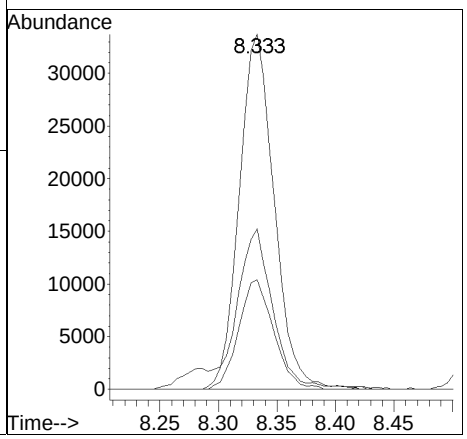


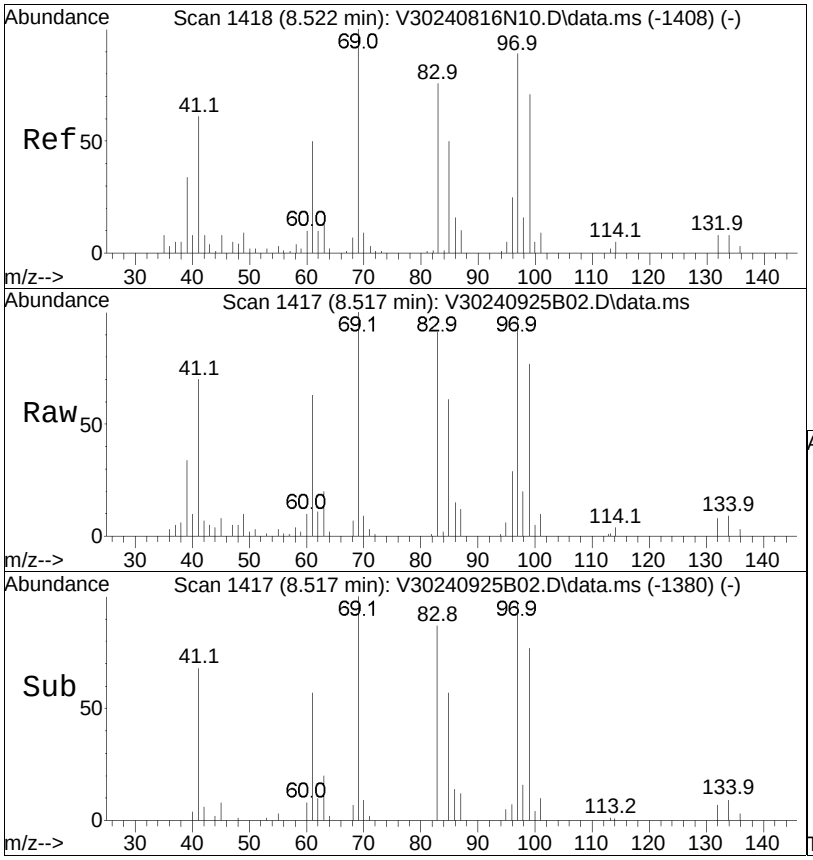


#69
trans-1,3-Dichloropropene
Concen: 9.57 ug/L
RT: 8.333 min Scan# 1382
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 75 Resp: 70221

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.6	38.4
39	46.4	60.2	90.4#

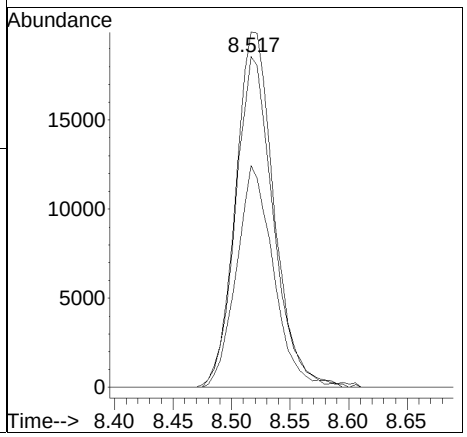


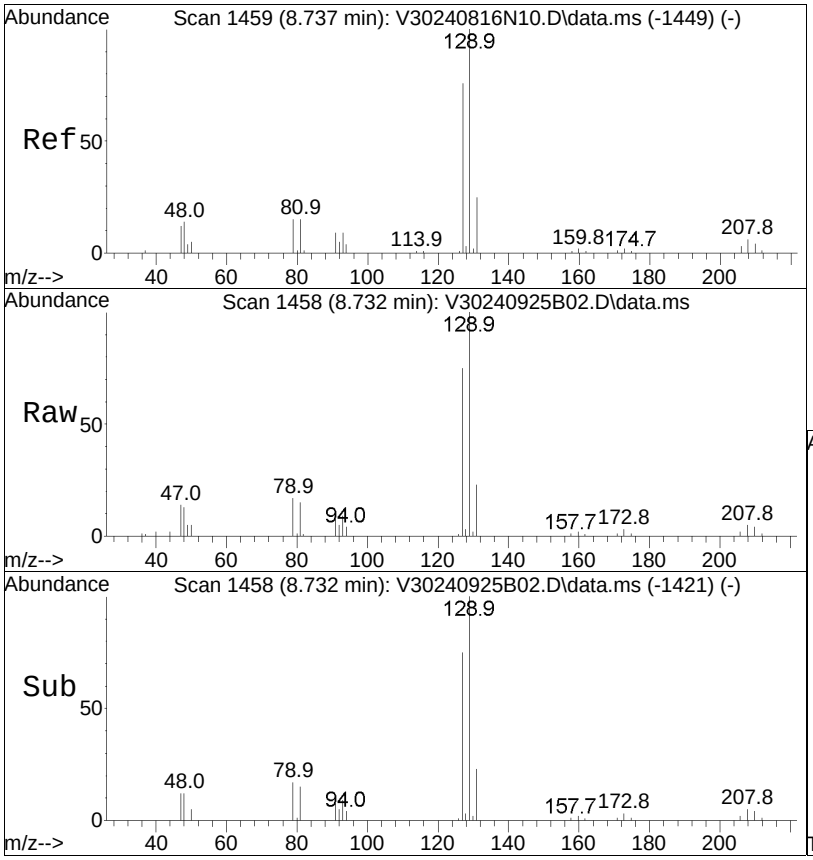


#72
1,1,2-Trichloroethane
Concen: 11.14 ug/L
RT: 8.517 min Scan# 1417
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 83 Resp: 41569

Ion	Ratio	Lower	Upper
83	100		
97	110.3	87.7	131.5
85	65.9	53.1	79.7

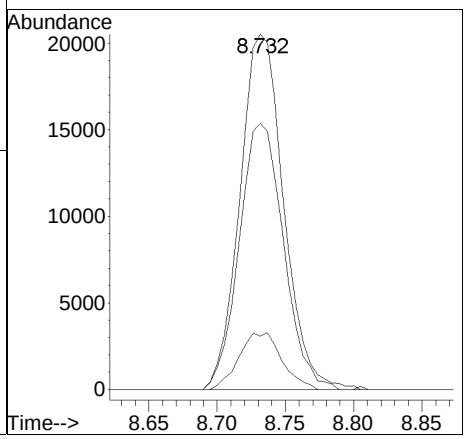


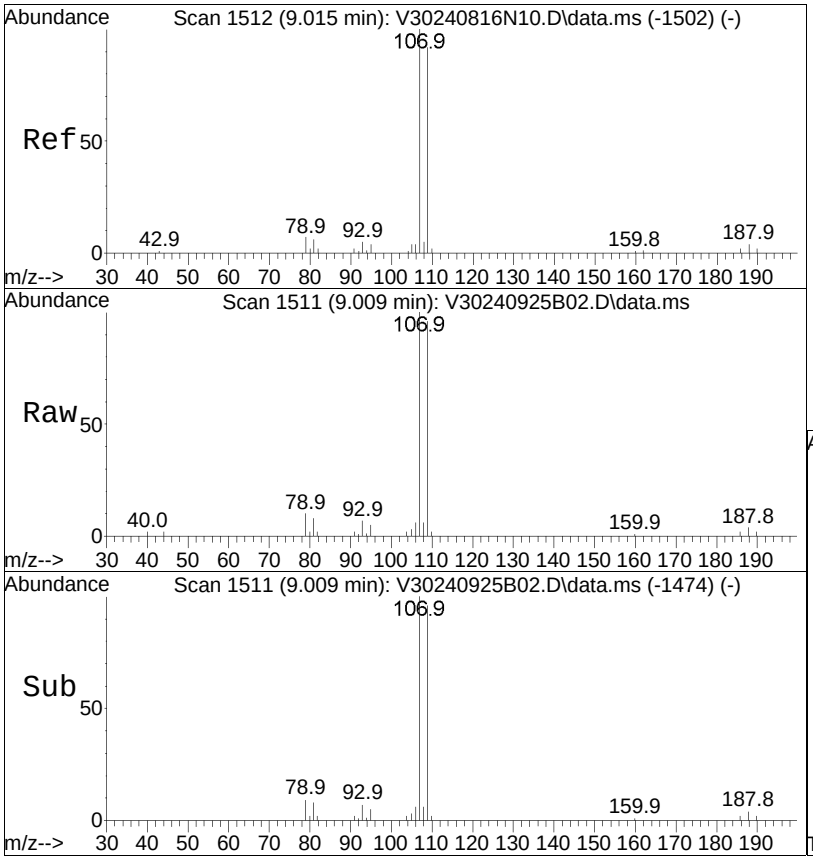


#73
Chlorodibromomethane
Concen: 8.91 ug/L
RT: 8.732 min Scan# 1458
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:129 Resp: 45669

Ion	Ratio	Lower	Upper
129	100		
81	15.6	14.6	22.0
127	75.9	62.6	93.8

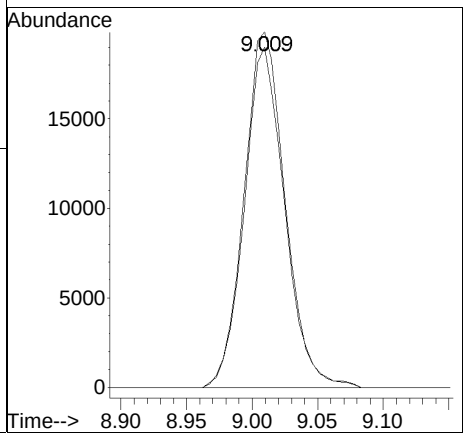


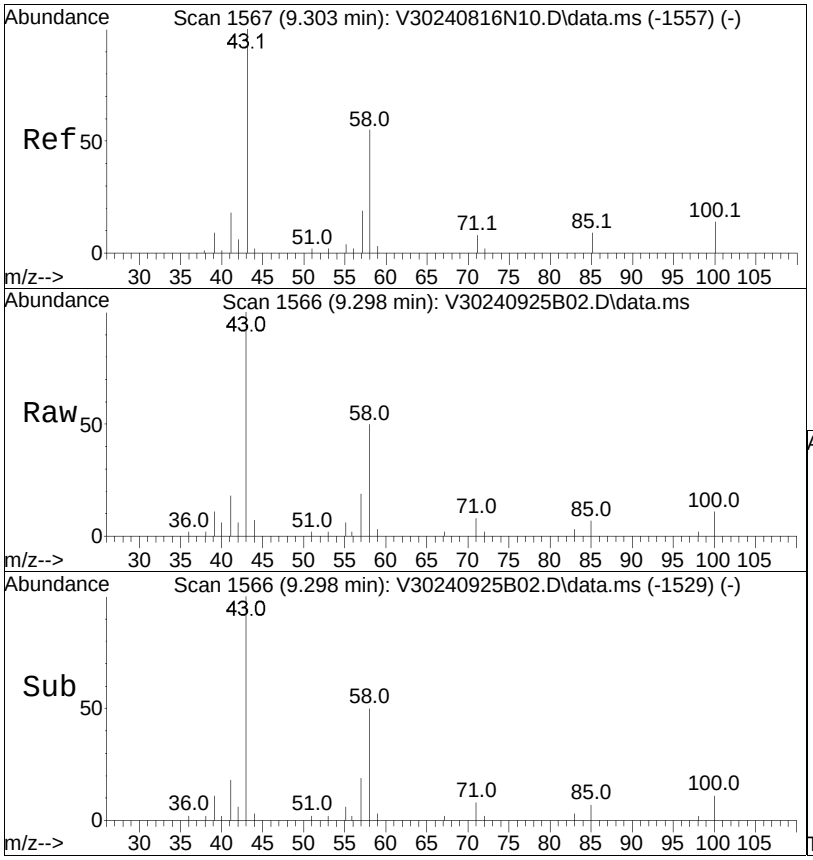


#75
1,2-Dibromoethane
Concen: 11.58 ug/L
RT: 9.009 min Scan# 1511
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:107 Resp: 43246

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.0	112.4

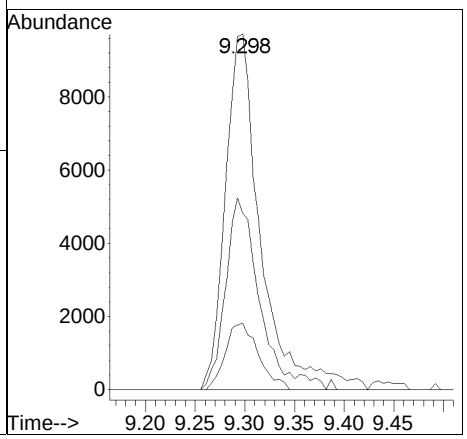


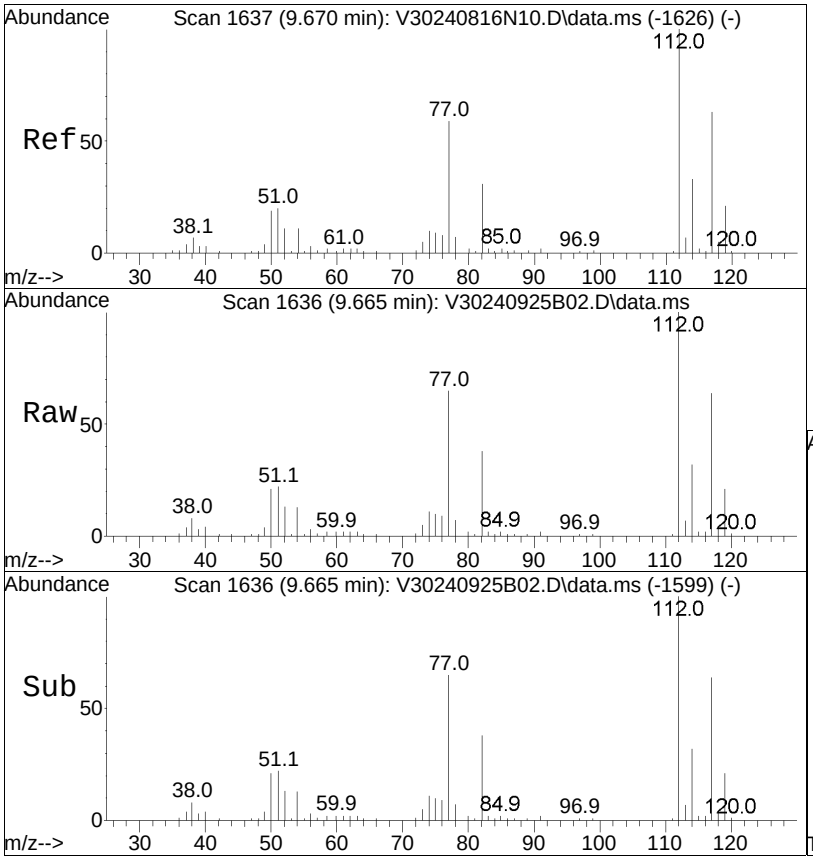


#77
2-Hexanone
Concen: 10.77 ug/L
RT: 9.298 min Scan# 1566
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 43 Resp: 24082

Ion	Ratio	Lower	Upper
43	100		
58	51.6	38.6	58.0
57	17.4	14.1	21.1

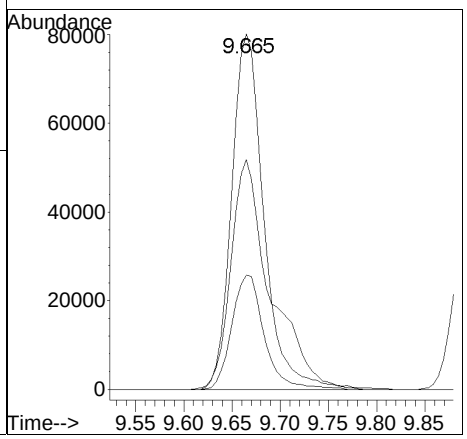


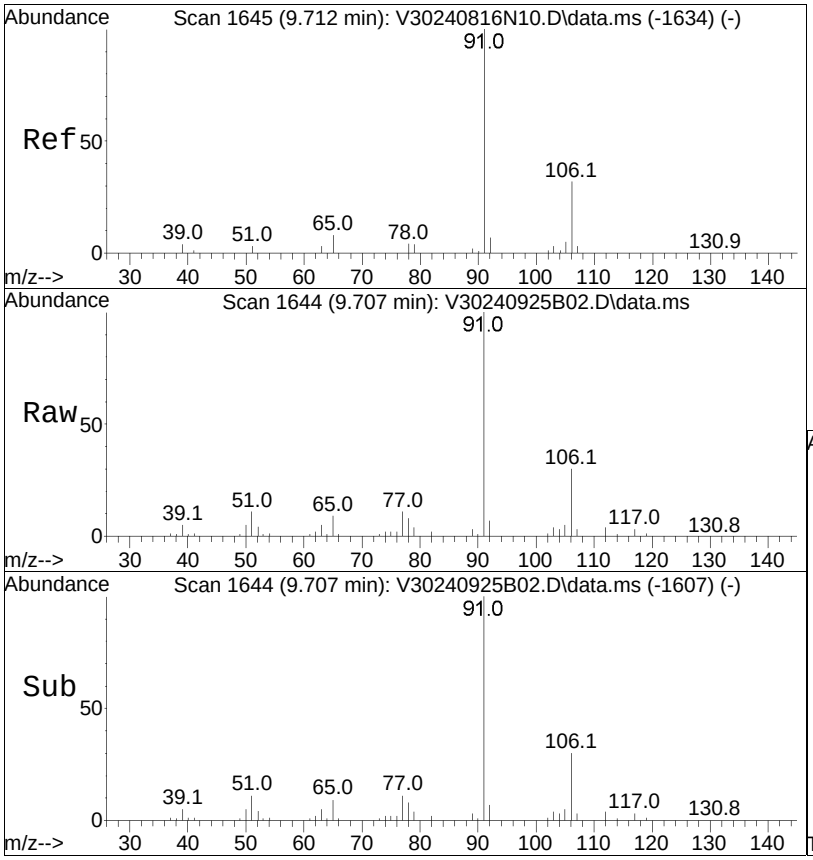


#78
Chlorobenzene
Concen: 10.03 ug/L
RT: 9.665 min Scan# 1636
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:112 Resp: 185614

Ion	Ratio	Lower	Upper
112	100		
77	80.1	54.8	82.2
114	32.5	25.4	38.0

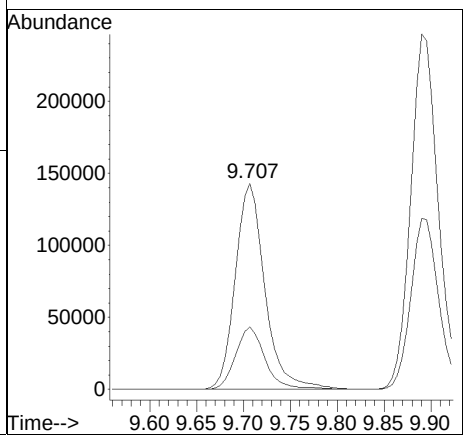


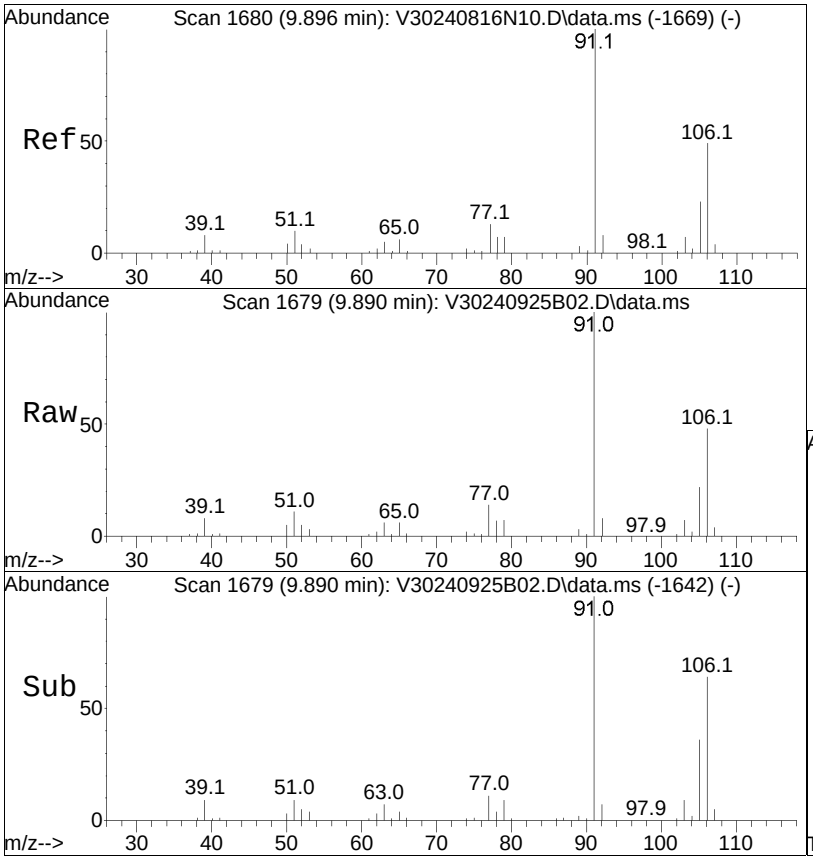


#79
Ethylbenzene
Concen: 10.07 ug/L
RT: 9.707 min Scan# 1644
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 91 Resp: 315431

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.4	35.2

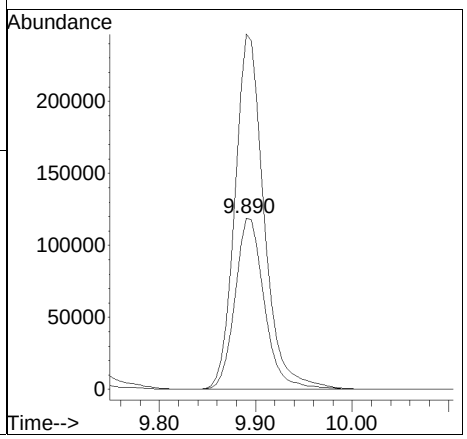


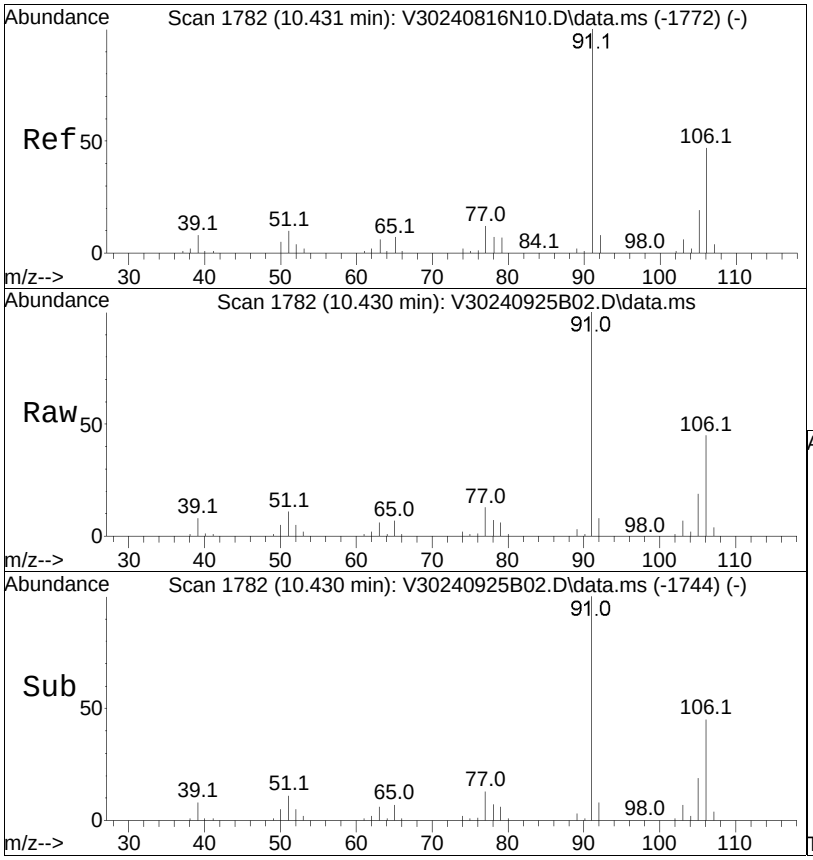


#81
p/m Xylene
Concen: 20.24 ug/L
RT: 9.890 min Scan# 1679
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:106 Resp: 252802

Ion	Ratio	Lower	Upper
106	100		
91	204.8	171.4	257.2

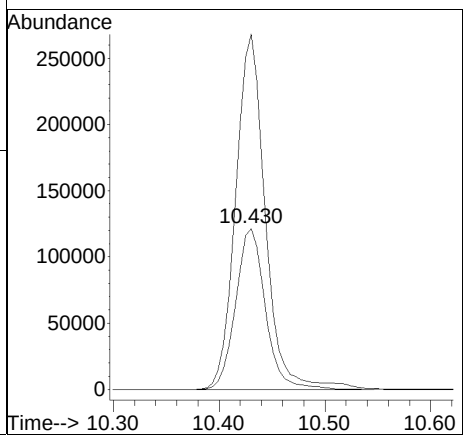


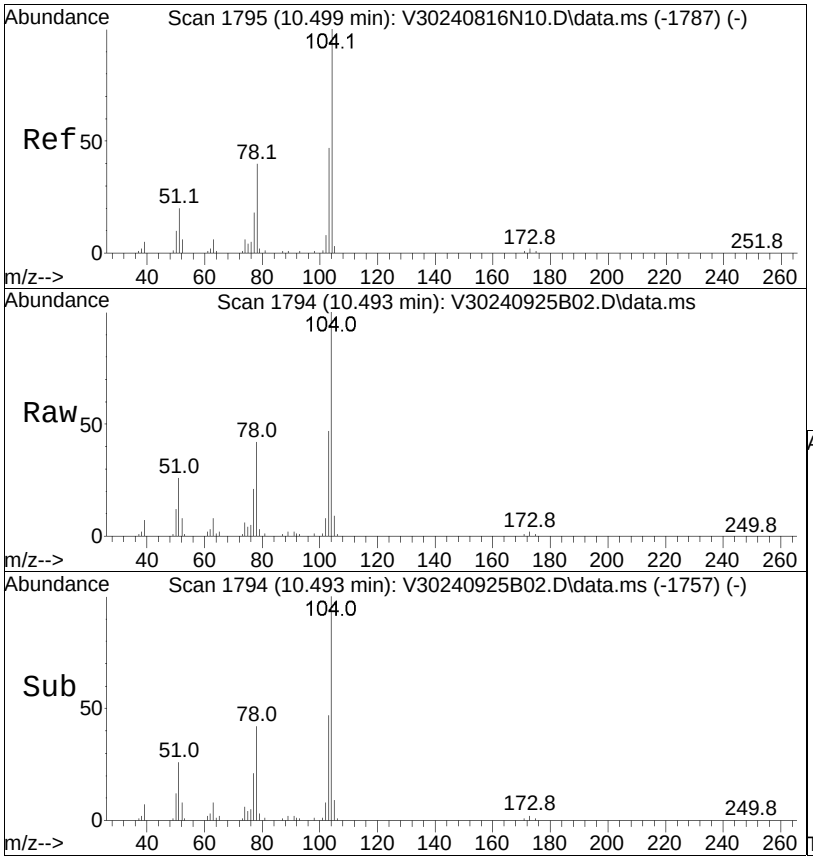


#82
o Xylene
Concen: 19.70 ug/L
RT: 10.430 min Scan# 1782
Delta R.T. -0.001 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:106 Resp: 237190

Ion	Ratio	Lower	Upper
106	100		
91	220.7	179.2	268.8

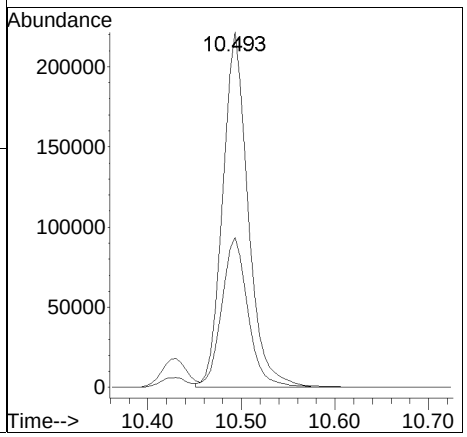


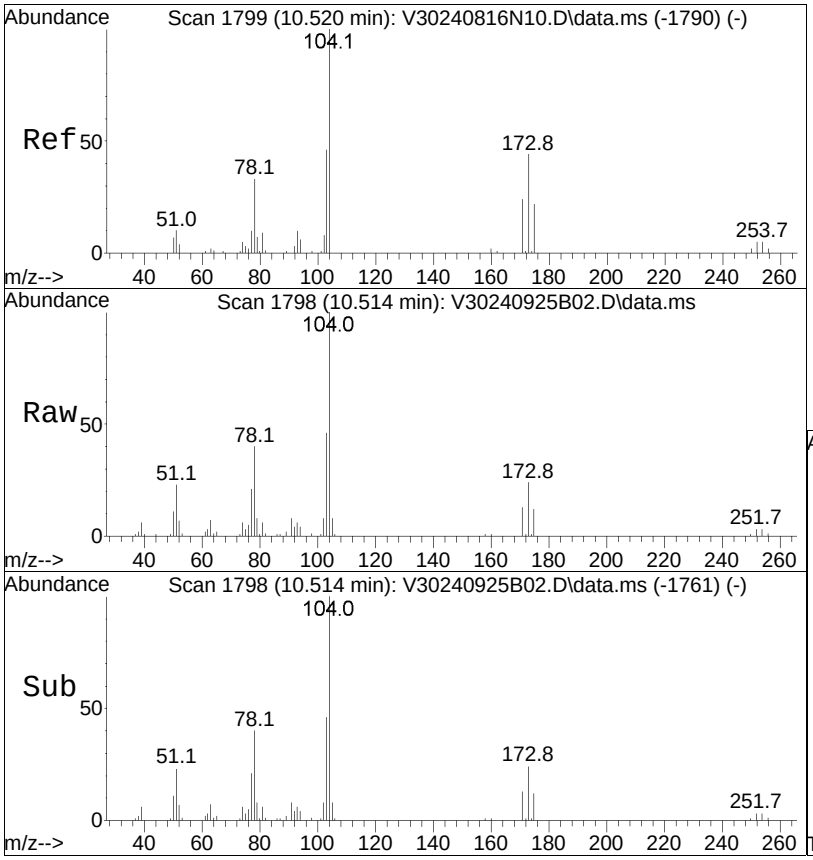


#83
Styrene
Concen: 21.07 ug/L
RT: 10.493 min Scan# 1794
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:104 Resp: 418179

Ion	Ratio	Lower	Upper
104	100		
78	43.3	38.1	57.1

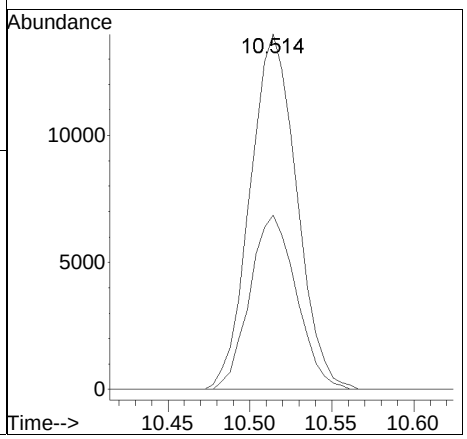


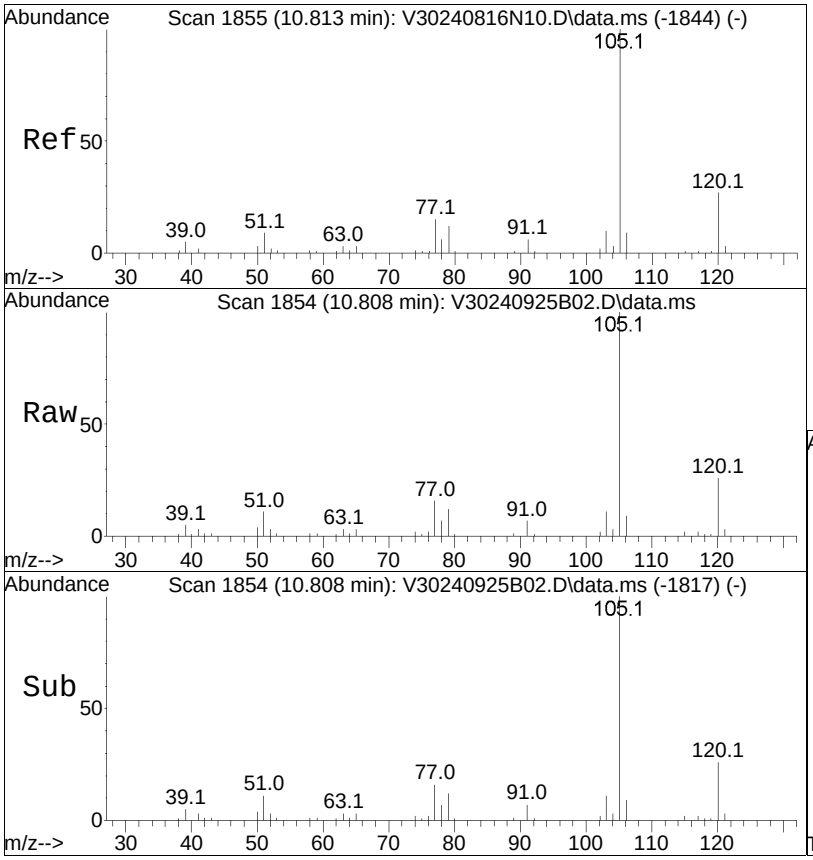


#85
Bromoform
Concen: 8.89 ug/L
RT: 10.514 min Scan# 1798
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:173 Resp: 27695

Ion	Ratio	Lower	Upper
173	100		
175	48.9	37.8	56.6

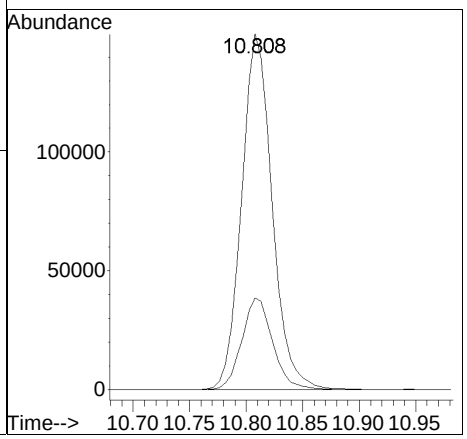


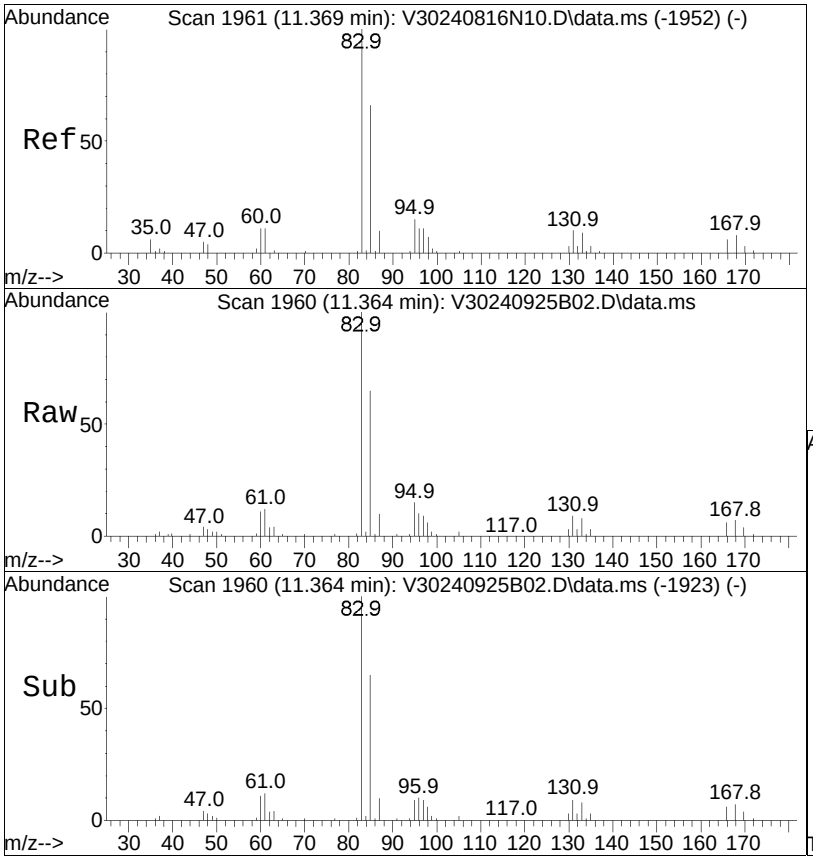


#87
Isopropylbenzene
Concen: 9.25 ug/L
RT: 10.808 min Scan# 1854
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:105 Resp: 280553

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.0	30.0

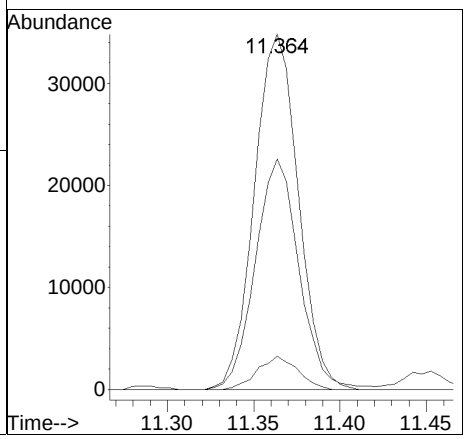


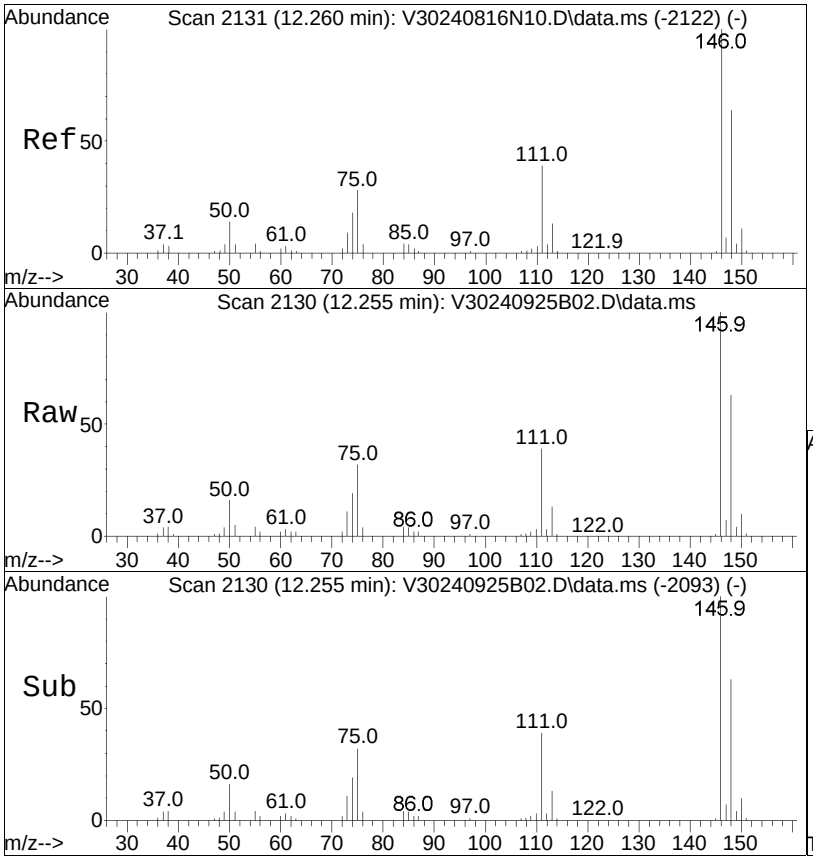


#92
1,1,2,2-Tetrachloroethane
Concen: 11.36 ug/L
RT: 11.364 min Scan# 1960
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion: 83 Resp: 61684

Ion	Ratio	Lower	Upper
83	100		
131	8.5	6.6	10.0
85	64.6	51.8	77.6

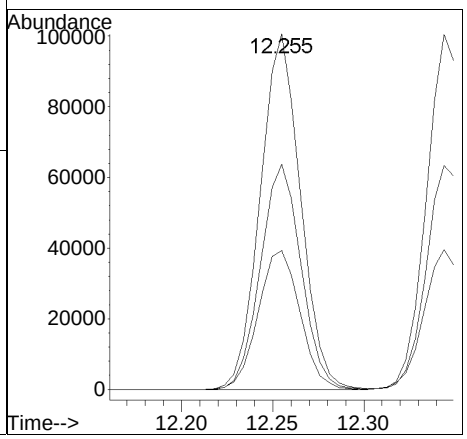


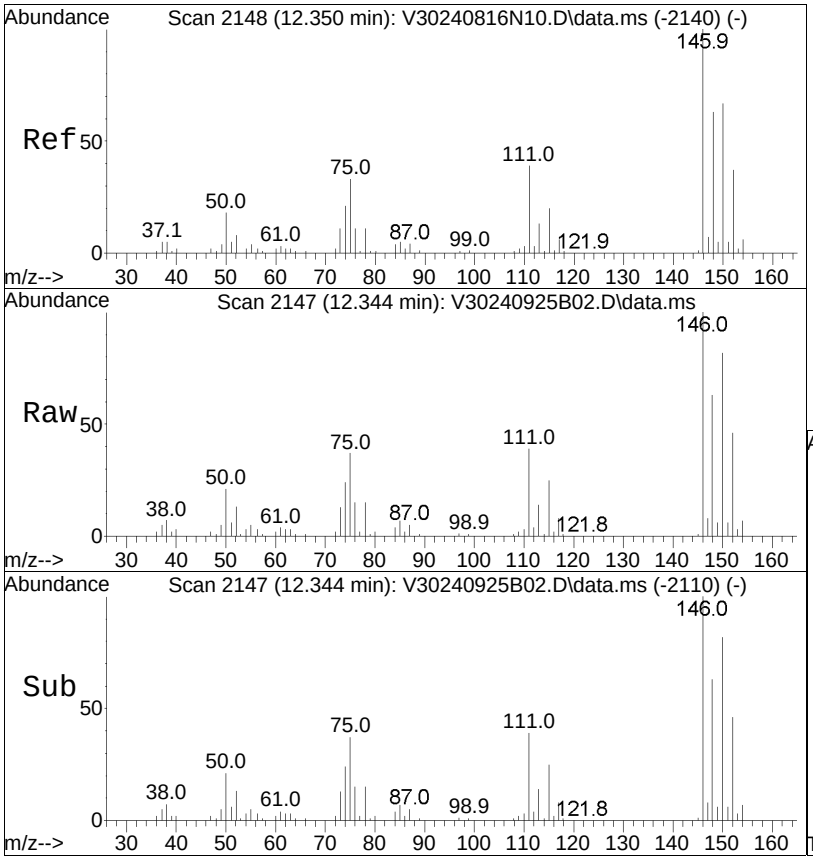


#105
1,3-Dichlorobenzene
Concen: 9.91 ug/L
RT: 12.255 min Scan# 2130
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:146 Resp: 154497

Ion	Ratio	Lower	Upper
146	100		
111	40.5	28.0	58.1
148	63.9	40.8	84.6

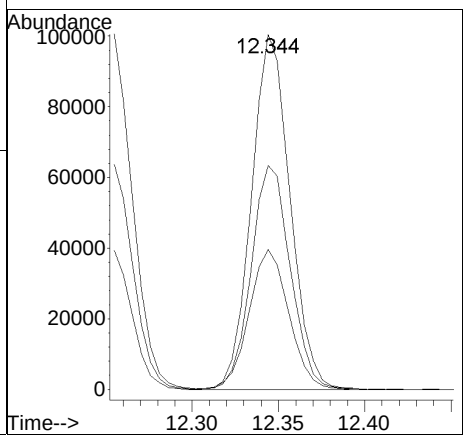


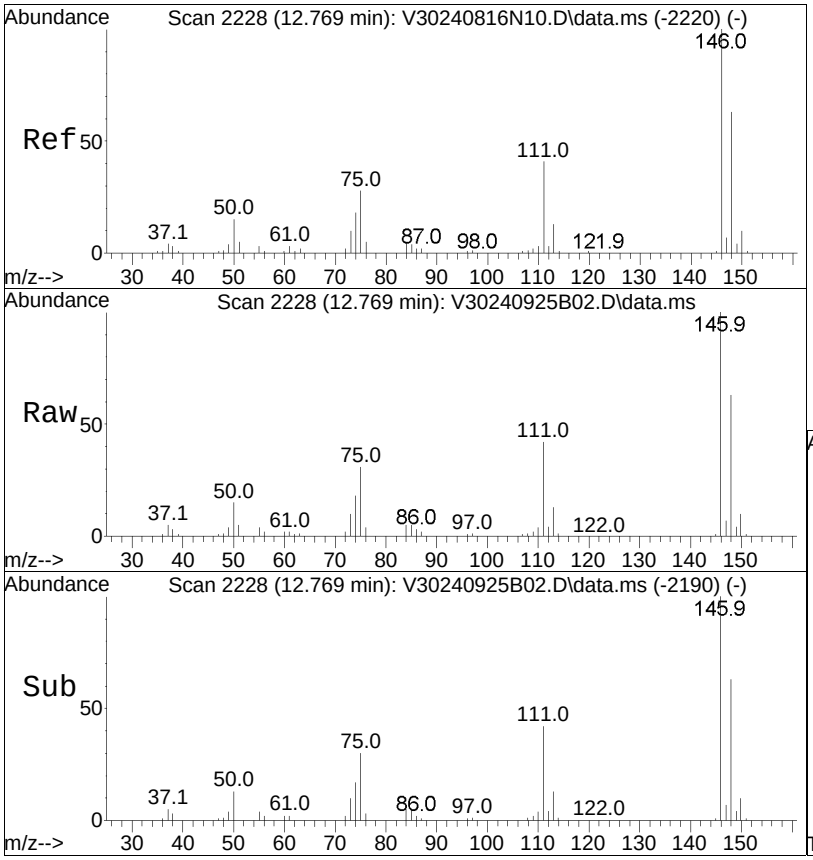


#106
1,4-Dichlorobenzene
Concen: 9.92 ug/L
RT: 12.344 min Scan# 2147
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:146 Resp: 156044

Ion	Ratio	Lower	Upper
146	100		
111	40.7	33.7	50.5
148	64.1	50.8	76.2

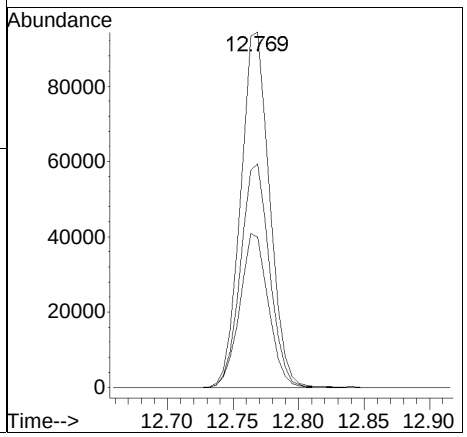


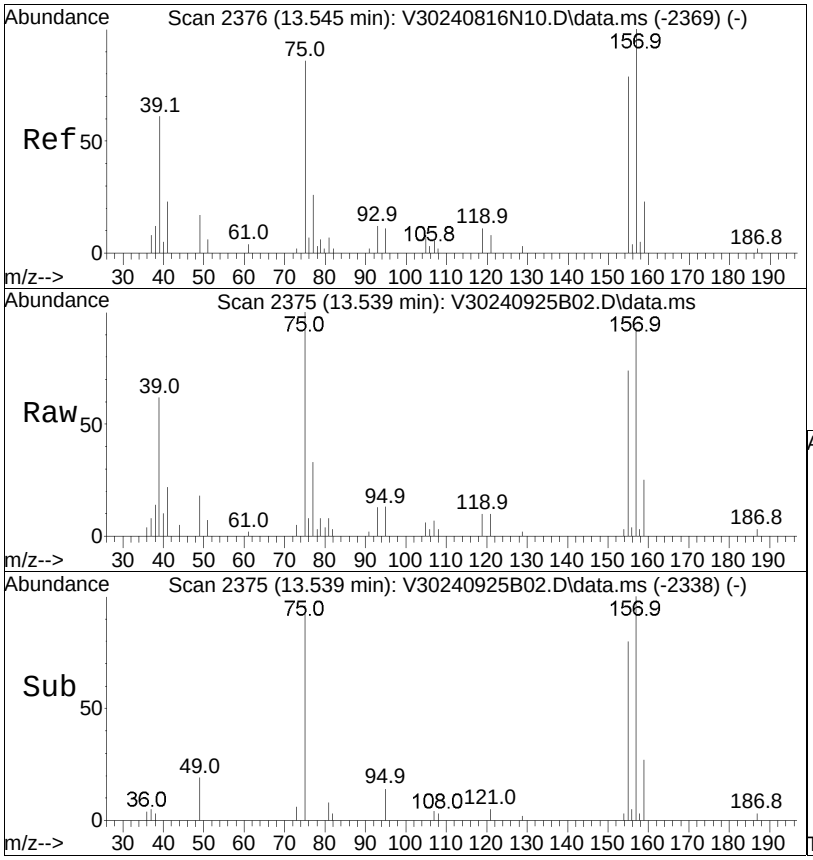


#109
1,2-Dichlorobenzene
Concen: 9.82 ug/L
RT: 12.769 min Scan# 2228
Delta R.T. -0.000 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:146 Resp: 144976

Ion	Ratio	Lower	Upper
146	100		
111	42.6	29.5	61.3
148	63.0	41.3	85.9

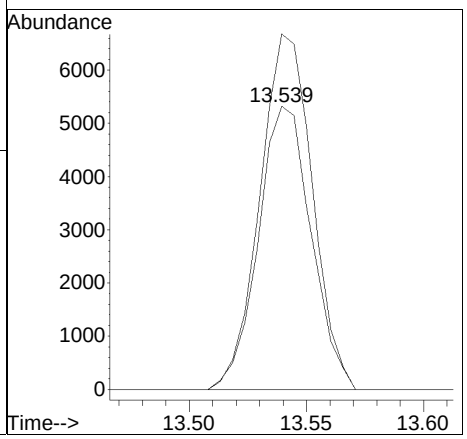


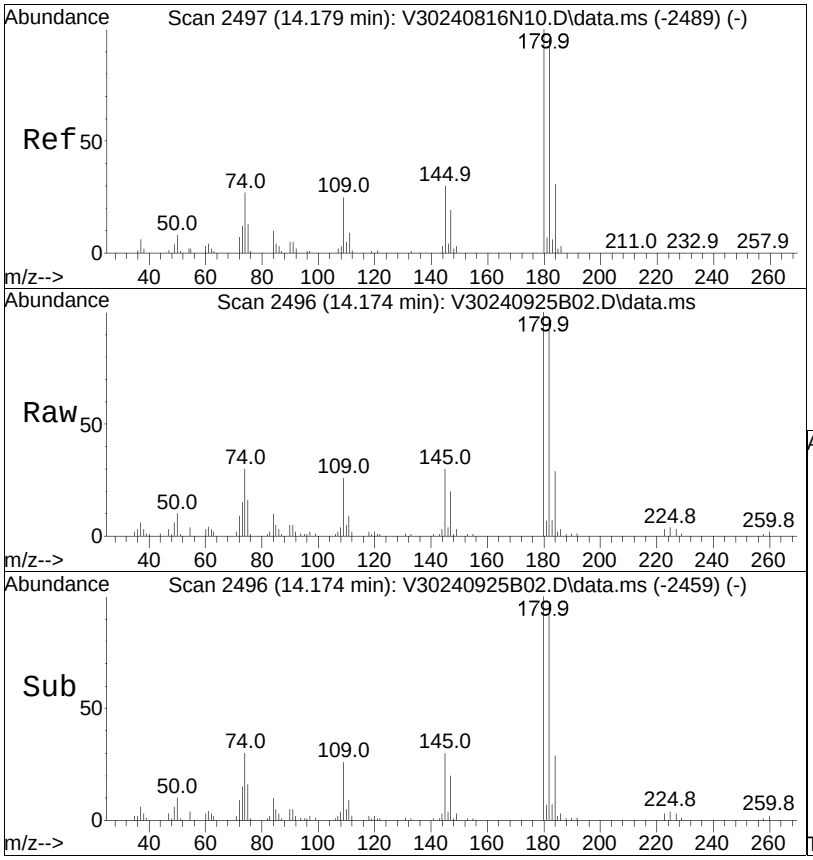


#111
1,2-Dibromo-3-chloropropane
Concen: 10.94 ug/L
RT: 13.539 min Scan# 2375
Delta R.T. -0.006 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:155 Resp: 8361

Ion	Ratio	Lower	Upper
155	100		
157	124.3	105.1	157.7

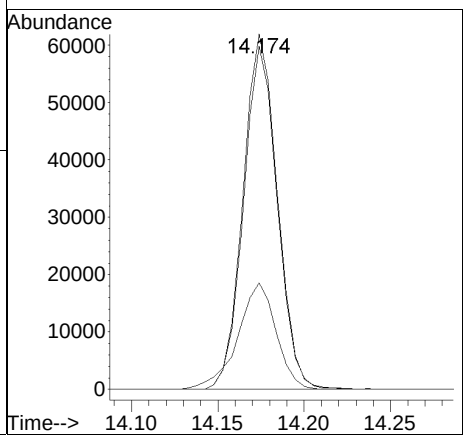


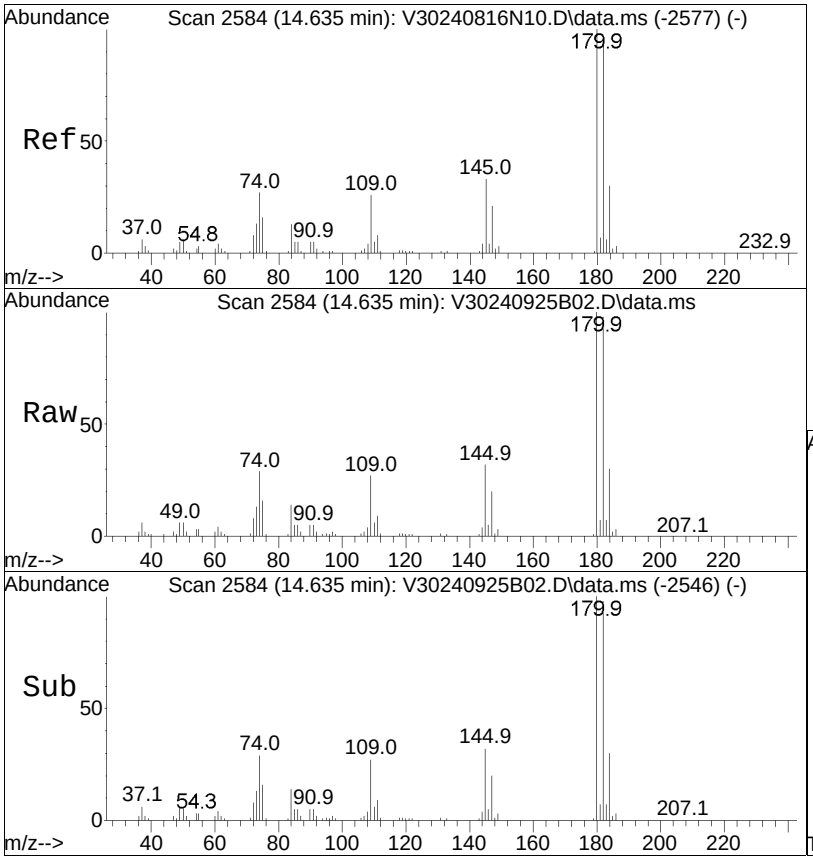


#114
1,2,4-Trichlorobenzene
Concen: 8.66 ug/L
RT: 14.174 min Scan# 2496
Delta R.T. -0.005 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:180 Resp: 85551

Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.7	113.5
145	33.5	27.4	41.2

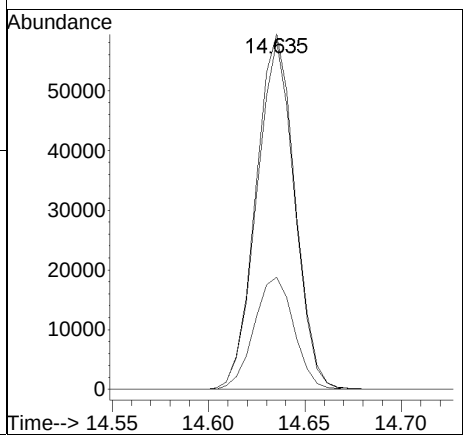




#116
1,2,3-Trichlorobenzene
Concen: 9.05 ug/L
RT: 14.635 min Scan# 2584
Delta R.T. 0.000 min
Lab File: V30240925B02.D
Acq: 25 Sep 2024 01:27 pm

Tgt Ion:180 Resp: 83883

Ion	Ratio	Lower	Upper
180	100		
182	95.0	74.9	112.3
145	32.1	26.0	39.0



Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B03.D
Acq On : 25 Sep 2024 01:49 pm
Operator : VOA130:LAC
Sample : WG1976724-4,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 14:11:08 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.099	96	393114	10.000	ug/L	0.00
Standard Area 1 = 392408			Recovery = 100.18%			
63) Chlorobenzene-d5	9.644	117	320619	10.000	ug/L	0.00
Standard Area 1 = 321701			Recovery = 99.66%			
84) 1,4-Dichlorobenzene-d4	12.328	152	181344	10.000	ug/L	0.00
Standard Area 1 = 181602			Recovery = 99.86%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.282	113	118875	11.575	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.75%			
47) 1,2-Dichloroethane-d4	5.806	65	112617	11.473	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.73%			
64) Toluene-d8	7.798	98	439155	10.624	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.24%			
88) 4-Bromofluorobenzene	11.128	95	156322	9.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.674	85	97756	10.768	ug/L	96
3) Chloromethane	1.863	50	99396	10.137	ug/L	97
4) Vinyl chloride	1.942	62	101307	11.518	ug/L	100
5) Bromomethane	2.262	94	34464	6.540	ug/L	97
6) Chloroethane	2.377	64	62625	11.178	ug/L	98
7) Trichlorofluoromethane	2.524	101	109572	11.066	ug/L	99
10) 1,1-Dichloroethene	3.017	96	67371	11.114	ug/L	79
11) Carbon disulfide	3.048	76	222142	11.731	ug/L	99
12) Freon-113	3.058	101	50704	8.627	ug/L	94
15) Methylene chloride	3.578	84	88580	10.926	ug/L	83
17) Acetone	3.604	43	14156	14.401	ug/L #	89
18) trans-1,2-Dichloroethene	3.730	96	63525	10.176	ug/L	87
19) Methyl acetate	3.735	43	29198	13.030	ug/L #	87
21) Methyl tert-butyl ether	3.829	73	81525	6.329	ug/L	95
25) 1,1-Dichloroethane	4.317	63	149331	12.701	ug/L	98
30) cis-1,2-Dichloroethene	4.836	96	74553	10.190	ug/L	85
33) Bromochloromethane	5.030	128	36616	10.521	ug/L #	71
34) Cyclohexane	5.046	56	73294	7.757	ug/L	87
35) Chloroform	5.103	83	127203	11.114	ug/L	93
37) Carbon tetrachloride	5.245	117	55670	7.368	ug/L	96

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B03.D
Acq On : 25 Sep 2024 01:49 pm
Operator : VOA130:LAC
Sample : WG1976724-4,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 14:11:08 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240925B\V30240925B02.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.308	97	72536	7.616	ug/L		95
42) 2-Butanone	5.392	43	14760	9.973	ug/L		94
45) Benzene	5.680	78	244826	9.905	ug/L		95
48) 1,2-Dichloroethane	5.874	62	70939	9.971	ug/L	#	98
51) Methyl cyclohexane	6.278	83	82443	8.434	ug/L		91
52) Trichloroethene	6.278	95	56037	8.500	ug/L		96
55) 1,2-Dichloropropane	6.818	63	55283	9.579	ug/L		98
58) Bromodichloromethane	6.891	83	65393	8.264	ug/L		99
62) cis-1,3-Dichloropropene	7.583	75	74717	8.361	ug/L	#	80
65) Toluene	7.856	92	173380	10.433	ug/L		99
66) 4-Methyl-2-pentanone	8.286	58	13985	10.212	ug/L	#	87
67) Tetrachloroethene	8.307	166	60989	9.255	ug/L		95
69) trans-1,3-Dichloropropene	8.333	75	69628	9.519	ug/L	#	79
72) 1,1,2-Trichloroethane	8.517	83	40297	10.840	ug/L		98
73) Chlorodibromomethane	8.732	129	44711	8.753	ug/L		98
75) 1,2-Dibromoethane	9.009	107	42372	11.387	ug/L		98
77) 2-Hexanone	9.293	43	24292	10.901	ug/L		96
78) Chlorobenzene	9.665	112	183511	9.949	ug/L		91
79) Ethylbenzene	9.707	91	309557	9.916	ug/L		98
81) p/m Xylene	9.890	106	245092	19.685	ug/L		95
82) o Xylene	10.430	106	231899	19.330	ug/L		99
83) Styrene	10.493	104	406813	20.568	ug/L		94
85) Bromoform	10.514	173	27263	8.760	ug/L		98
87) Isopropylbenzene	10.808	105	277095	9.148	ug/L		98
92) 1,1,2,2-Tetrachloroethane	11.364	83	61040	11.254	ug/L		100
105) 1,3-Dichlorobenzene	12.255	146	150841	9.690	ug/L		98
106) 1,4-Dichlorobenzene	12.344	146	153125	9.751	ug/L		99
109) 1,2-Dichlorobenzene	12.769	146	140757	9.552	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.539	155	8342	10.926	ug/L		96
114) 1,2,4-Trichlorobenzene	14.174	180	84379	8.549	ug/L		100
116) 1,2,3-Trichlorobenzene	14.635	180	81613	8.817	ug/L		99

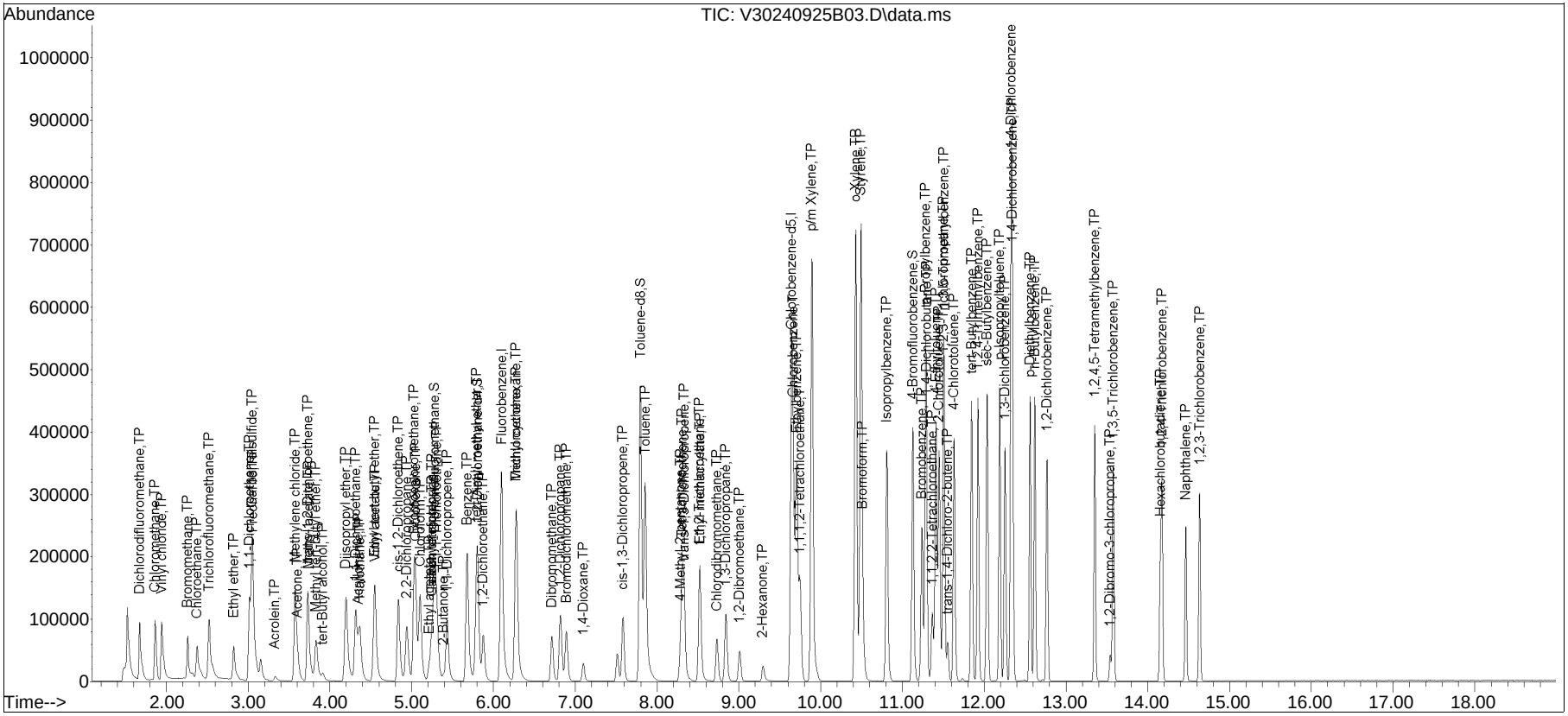
(#) = qualifier out of range (m) = manual integration (+) = signals summed

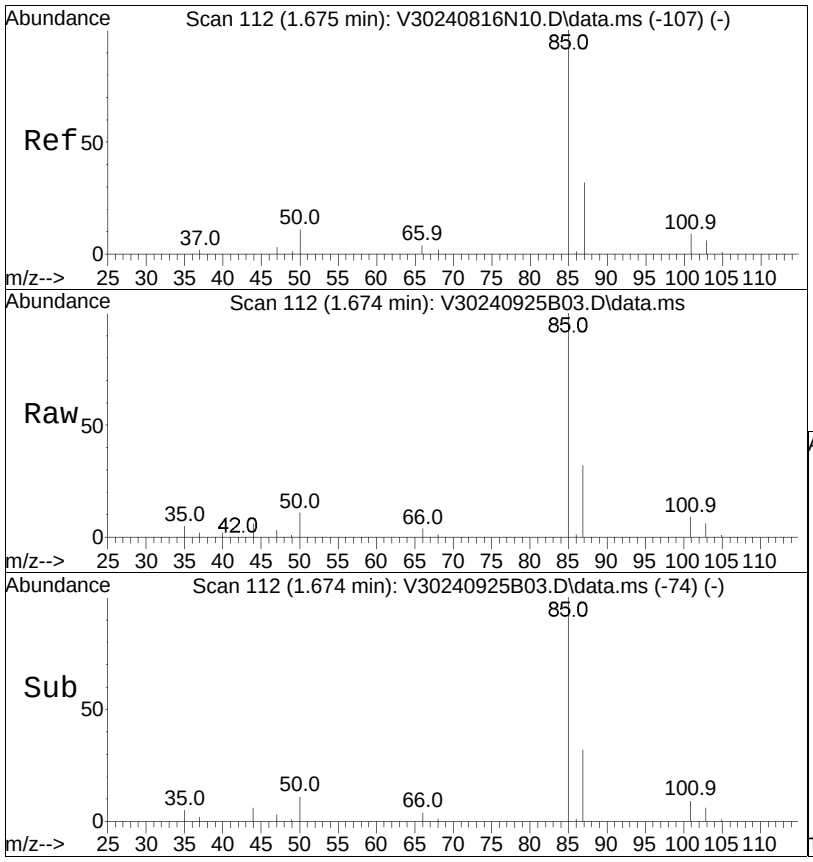
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240925B\
Data File : V30240925B03.D
Acq On : 25 Sep 2024 01:49 pm
Operator : VOA130:LAC
Sample : WG1976724-4,31,10,10
Misc : WG1976724,ICAL21400
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 14:11:08 2024
Quant Method : K:\VOA130\2024\240925B\V130_240816N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Aug 21 06:44:30 2024
Response via : Initial Calibration

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

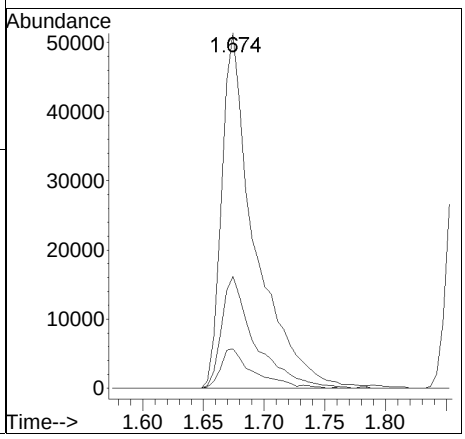


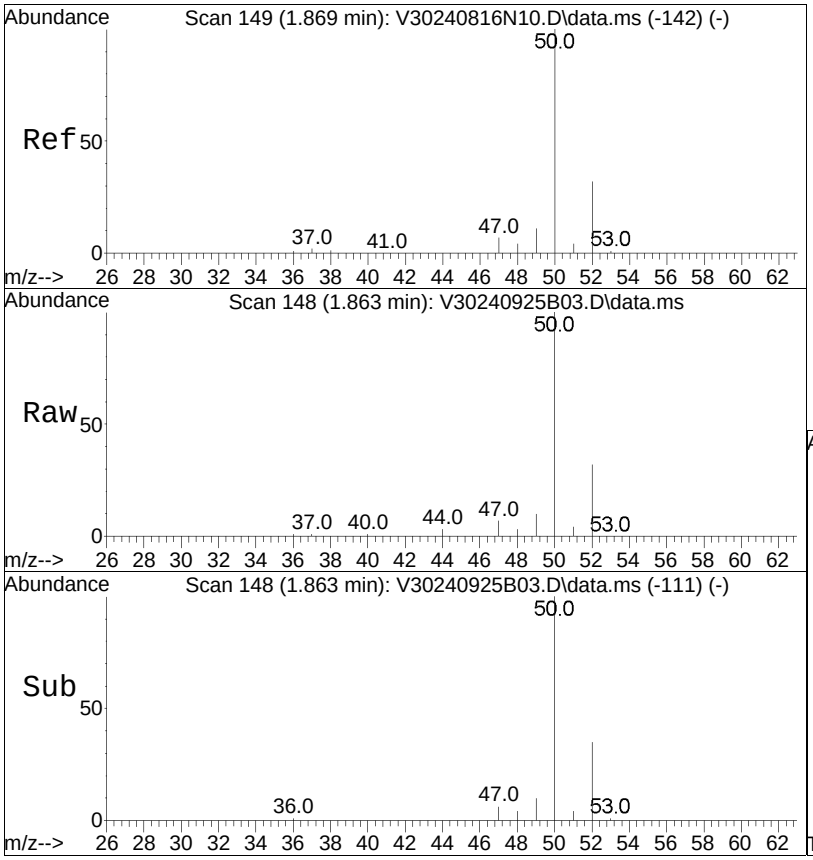


#2
Dichlorodifluoromethane
Concen: 10.77 ug/L
RT: 1.674 min Scan# 112
Delta R.T. -0.001 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 85 Resp: 97756

Ion	Ratio	Lower	Upper
85	100		
87	32.0	20.2	42.0
50	11.3	10.1	20.9

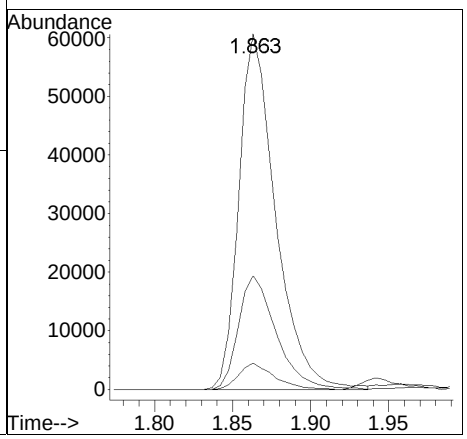


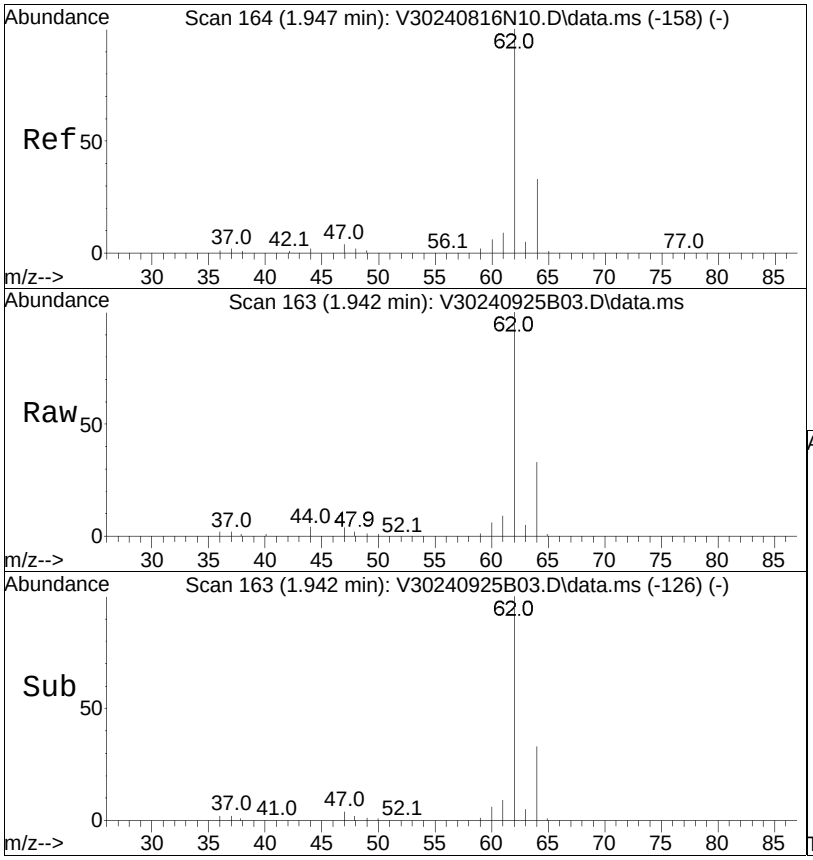


#3
Chloromethane
Concen: 10.14 ug/L
RT: 1.863 min Scan# 148
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 50 Resp: 99396

Ion	Ratio	Lower	Upper
50	100		
52	32.8	25.1	37.7
47	7.1	6.5	9.7

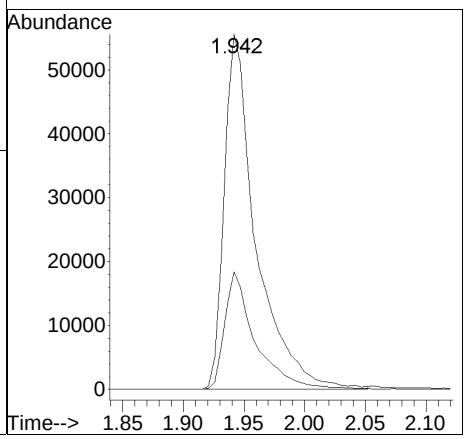


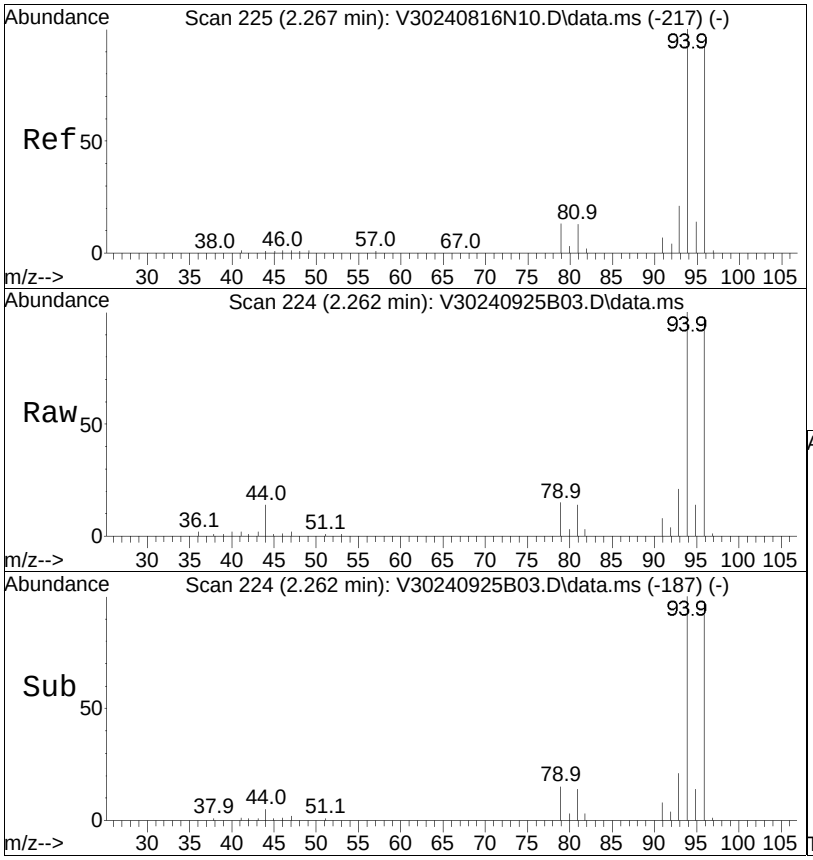


#4
Vinyl chloride
Concen: 11.52 ug/L
RT: 1.942 min Scan# 163
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 62 Resp: 101307

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.7	38.5

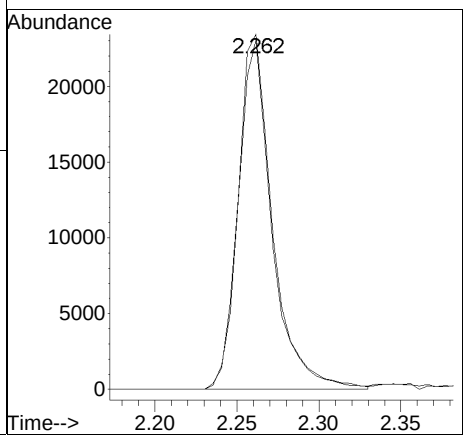


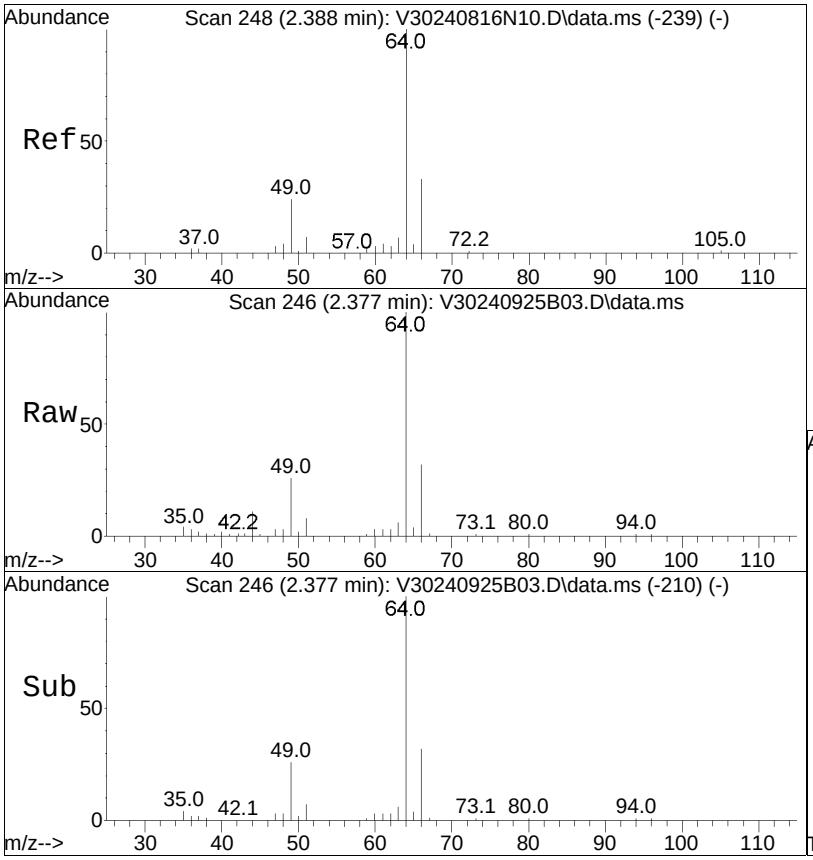


#5
Bromomethane
Concen: 6.54 ug/L
RT: 2.262 min Scan# 224
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 94 Resp: 34464

Ion	Ratio	Lower	Upper
94	100		
96	95.0	73.7	110.5

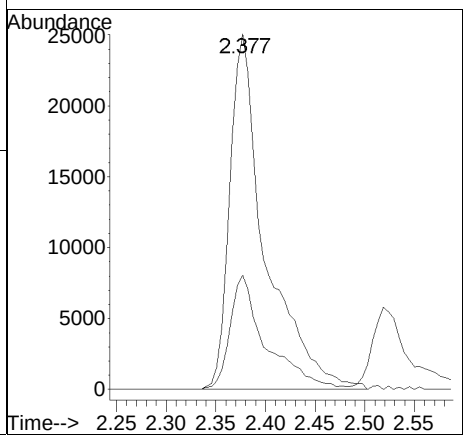


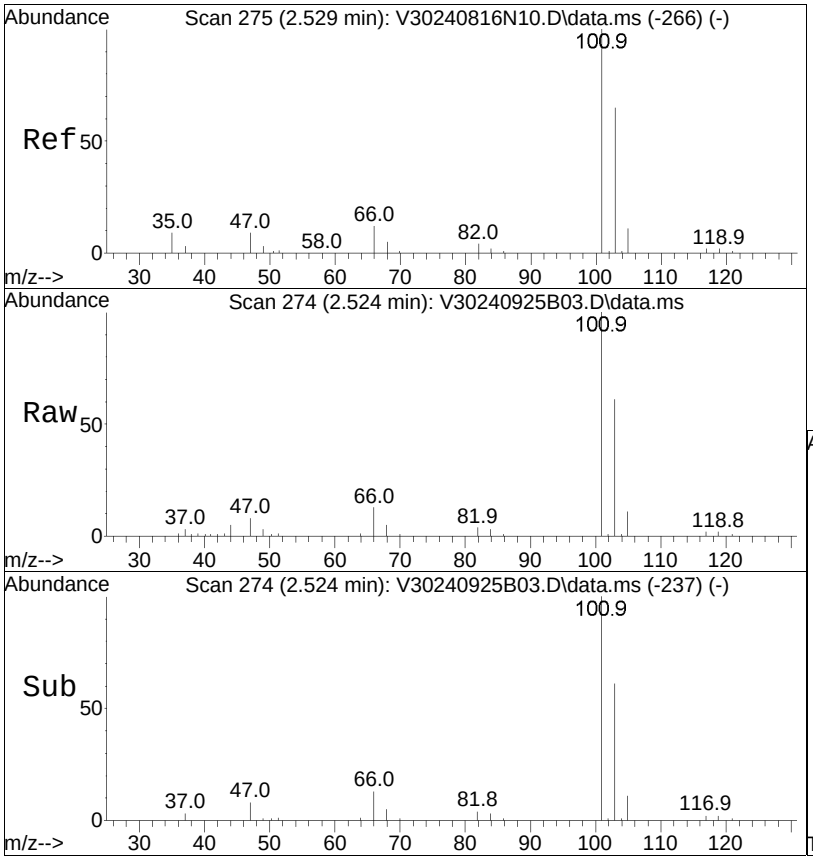


#6
Chloroethane
Concen: 11.18 ug/L
RT: 2.377 min Scan# 246
Delta R.T. -0.011 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 64 Resp: 62625

Ion	Ratio	Lower	Upper
64	100		
66	32.6	25.3	37.9

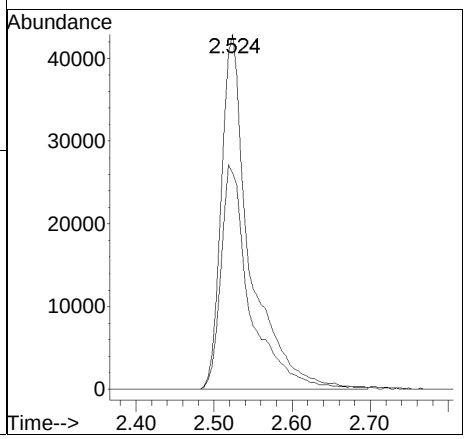


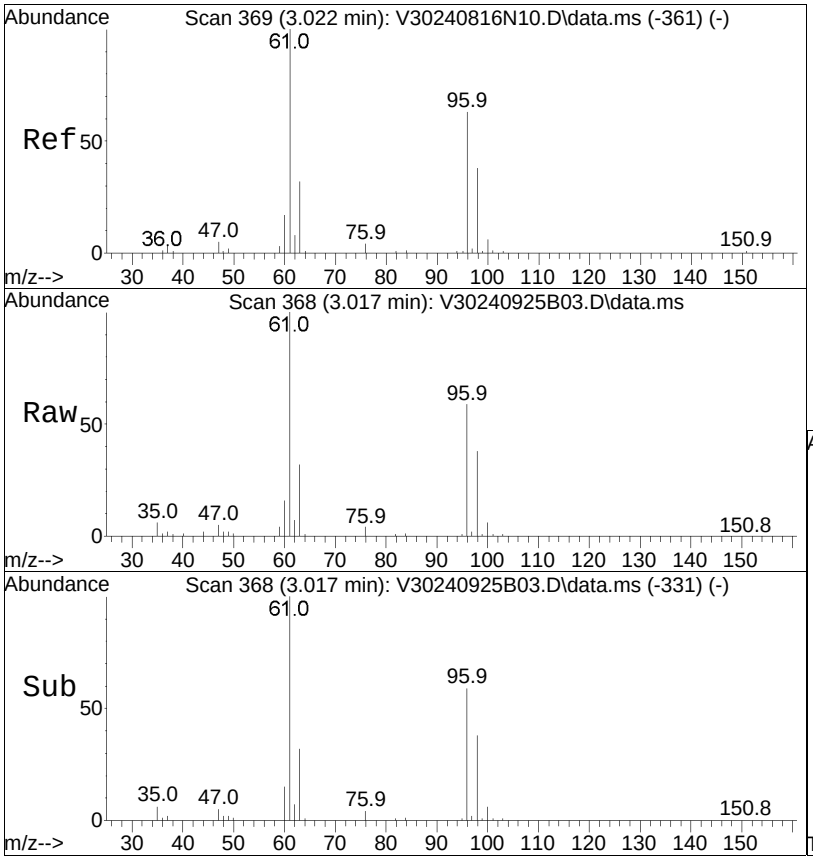


#7
Trichlorofluoromethane
Concen: 11.07 ug/L
RT: 2.524 min Scan# 274
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:101 Resp: 109572

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.0	76.4

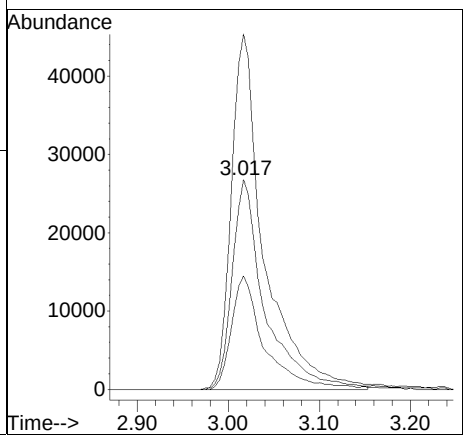


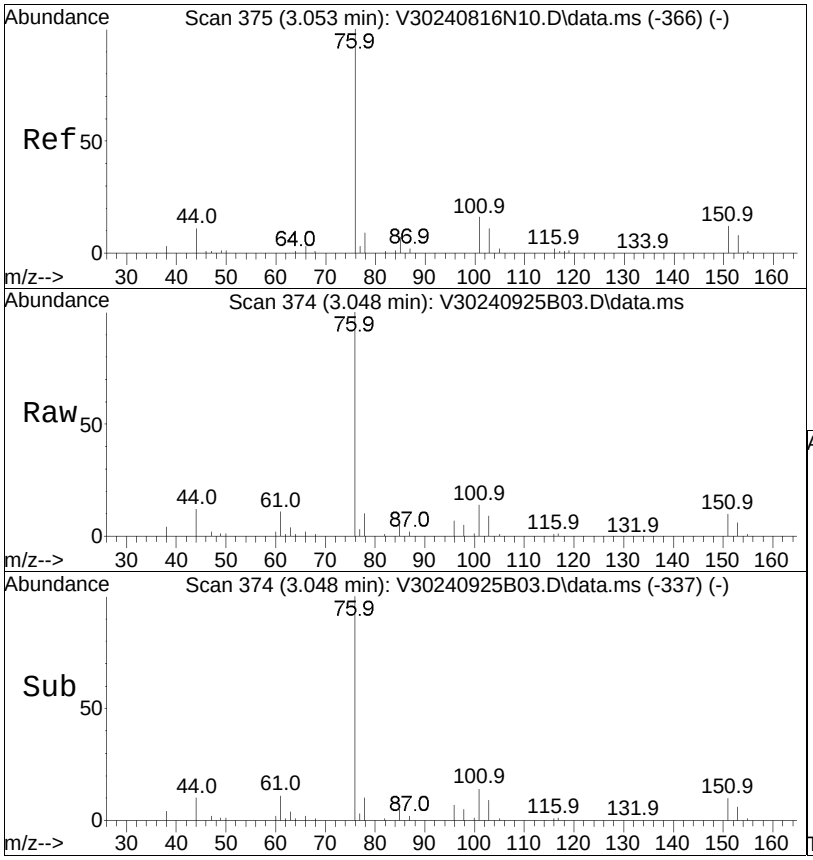


#10
1,1-Dichloroethene
Concen: 11.11 ug/L
RT: 3.017 min Scan# 368
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 96 Resp: 67371

Ion	Ratio	Lower	Upper
96	100		
61	170.1	165.5	248.3
63	54.2	51.9	77.9

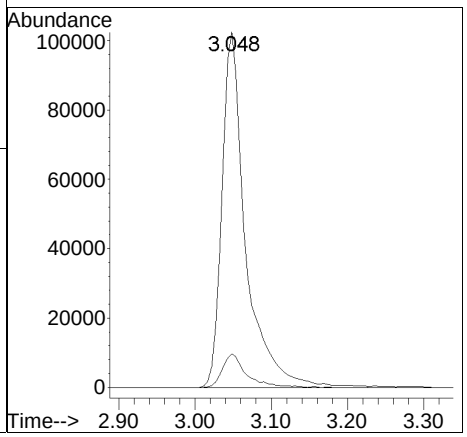


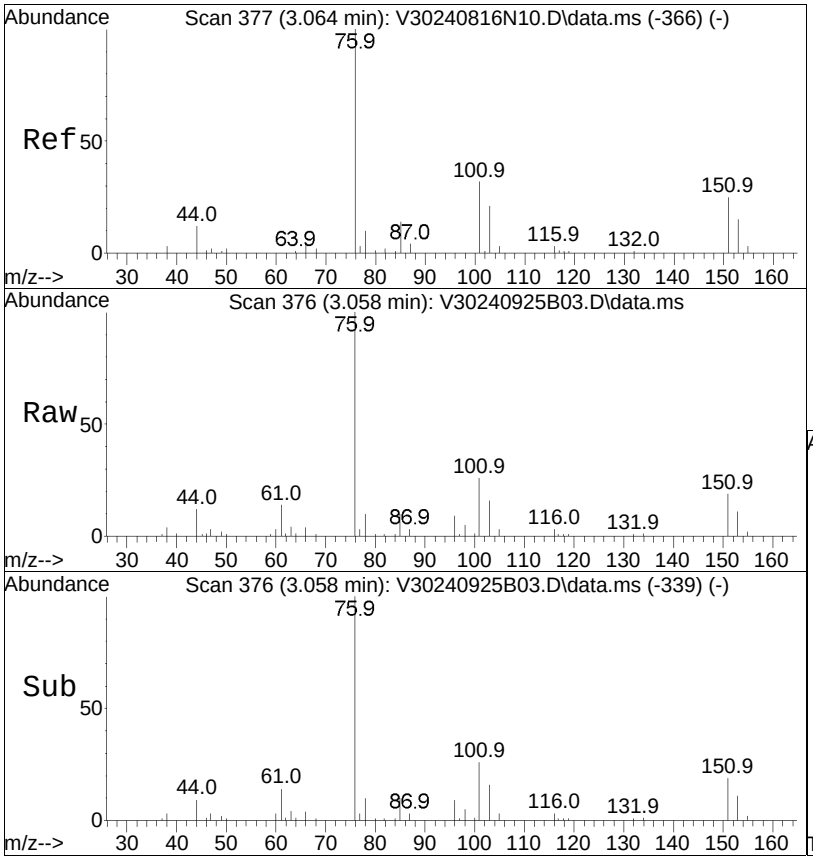


#11
Carbon disulfide
Concen: 11.73 ug/L
RT: 3.048 min Scan# 374
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 76 Resp: 222142

Ion	Ratio	Lower	Upper
76	100		
78	9.4	6.4	13.4

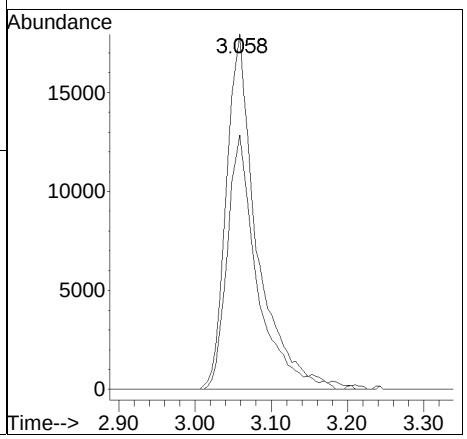


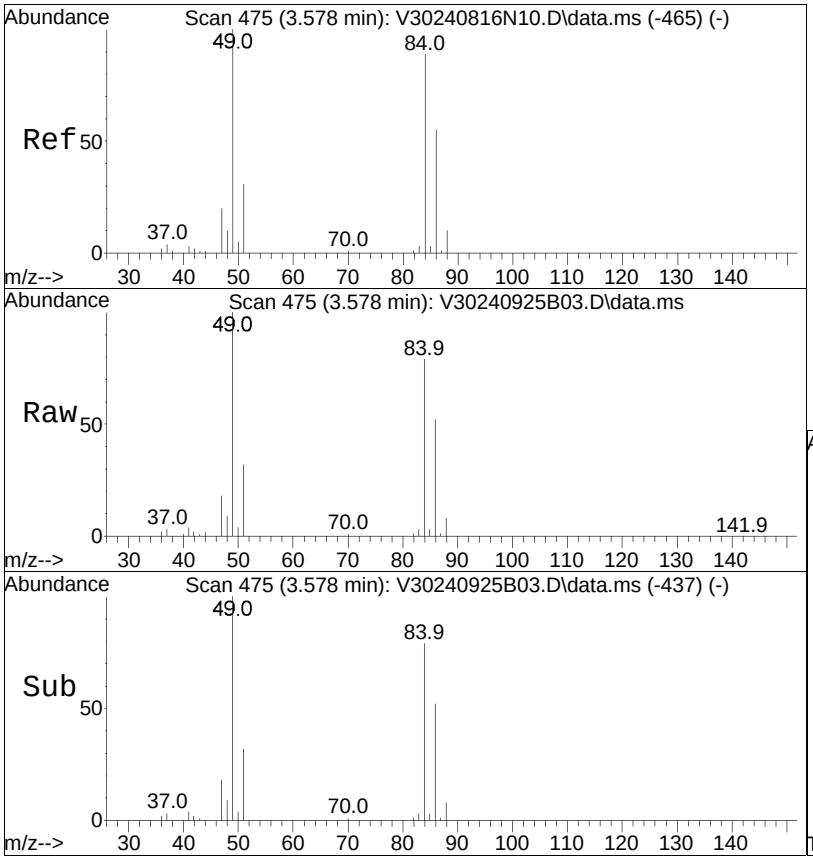


#12
Freon-113
Concen: 8.63 ug/L
RT: 3.058 min Scan# 376
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:101 Resp: 50704

Ion	Ratio	Lower	Upper
101	100		
151	69.8	51.9	77.9

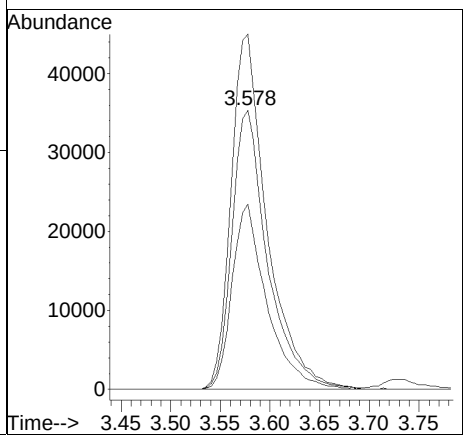


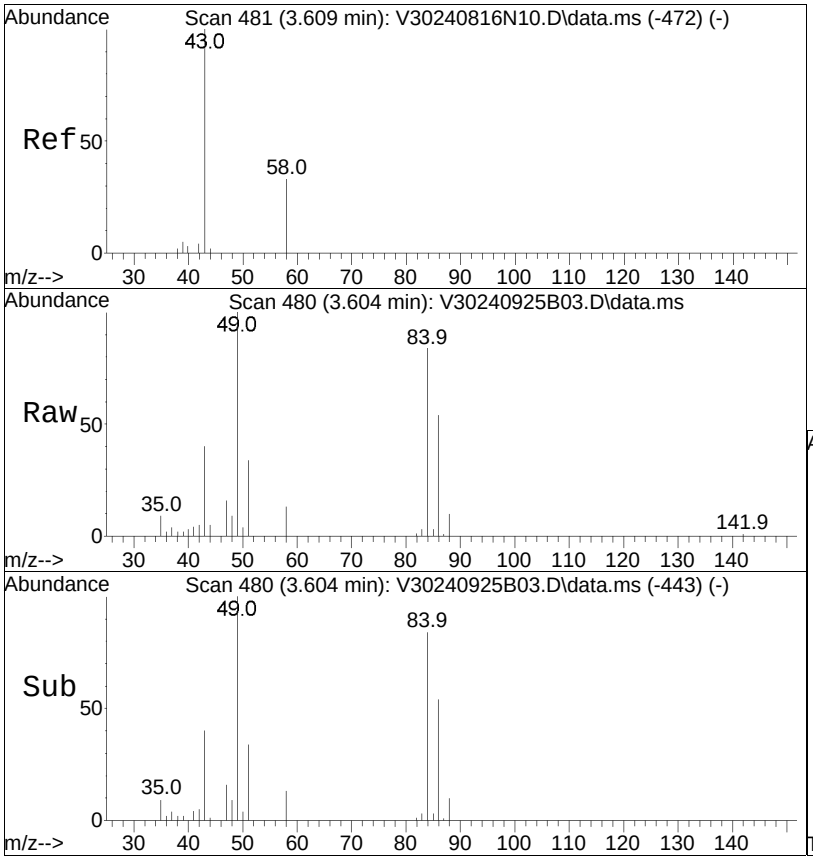


#15
Methylene chloride
Concen: 10.93 ug/L
RT: 3.578 min Scan# 475
Delta R.T. -0.000 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 84 Resp: 88580

Ion	Ratio	Lower	Upper
84	100		
86	64.9	41.7	86.5
49	128.2	103.9	215.9

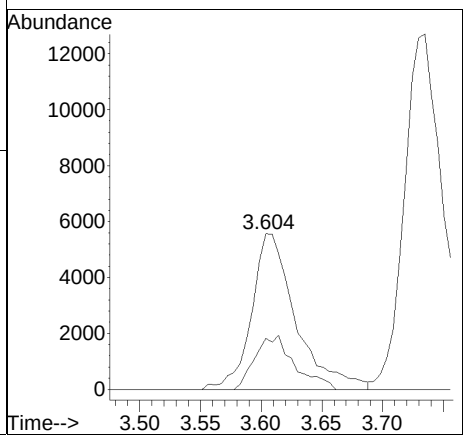


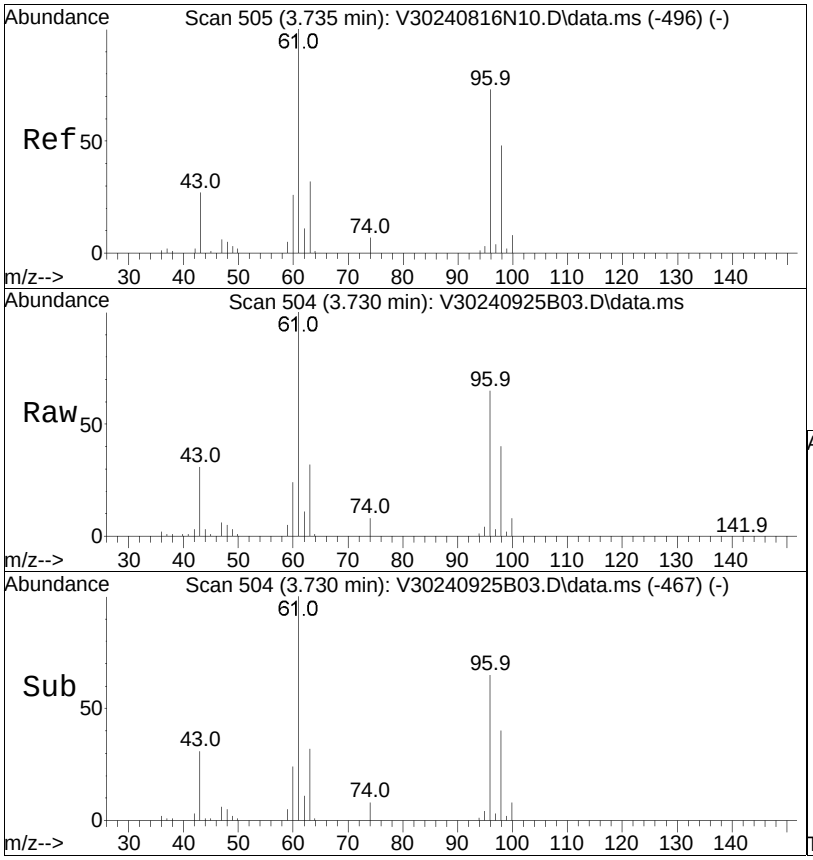


#17
Acetone
Concen: 14.40 ug/L
RT: 3.604 min Scan# 480
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 43 Resp: 14156

Ion	Ratio	Lower	Upper
43	100		
58	30.7	20.1	30.1#

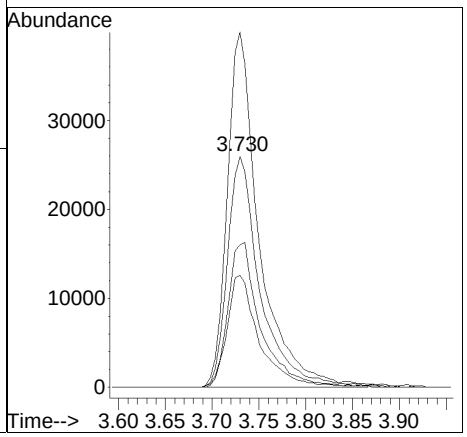


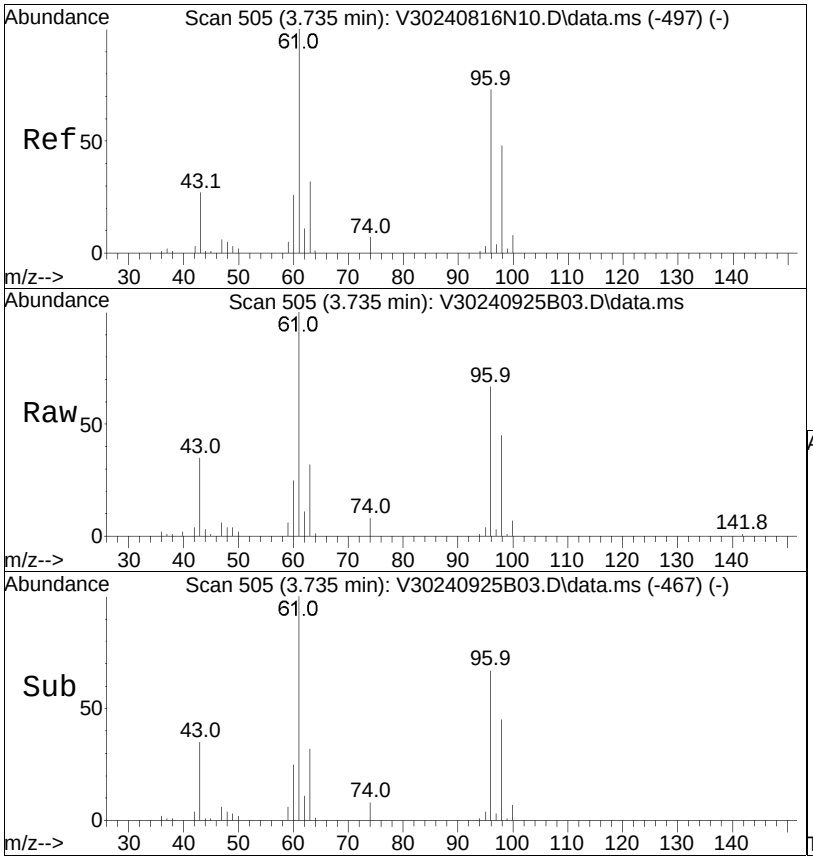


#18
trans-1,2-Dichloroethene
Concen: 10.18 ug/L
RT: 3.730 min Scan# 504
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 96 Resp: 63525

Ion	Ratio	Lower	Upper
96	100		
61	150.2	113.6	236.0
98	62.4	40.8	84.8
63	47.6	36.5	75.7

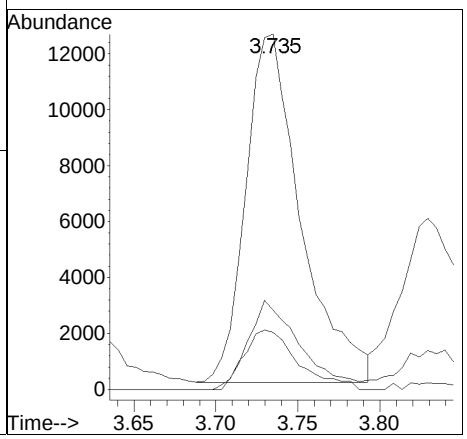


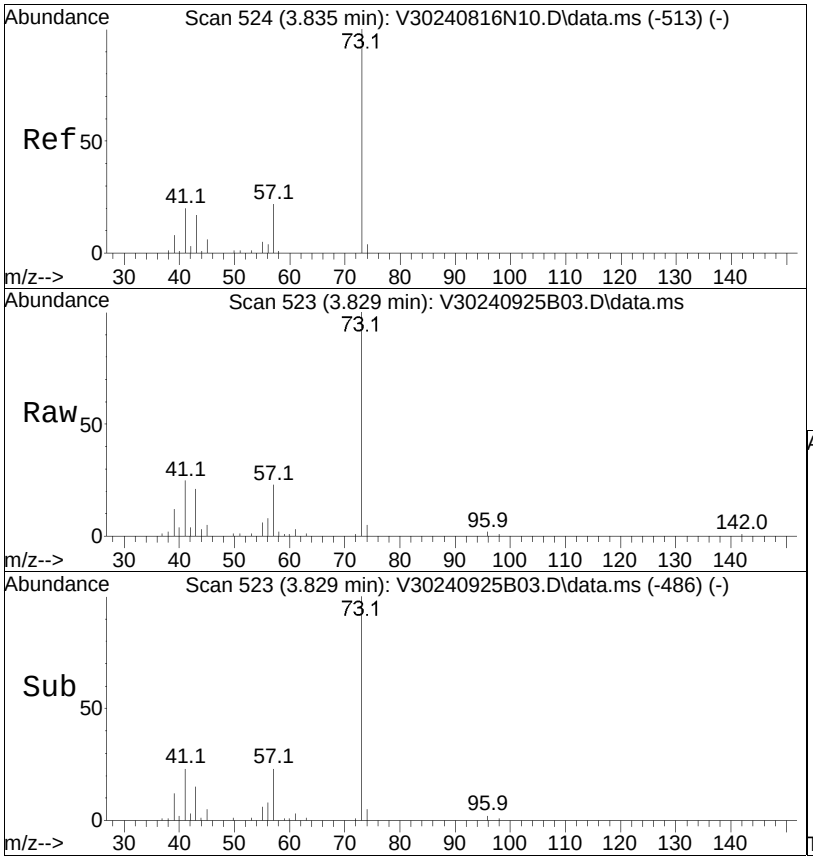


#19
Methyl acetate
Concen: 13.03 ug/L
RT: 3.735 min Scan# 505
Delta R.T. -0.000 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 43 Resp: 29198

Ion	Ratio	Lower	Upper
43	100		
74	23.9	14.6	22.0#
59	16.8	9.3	13.9#

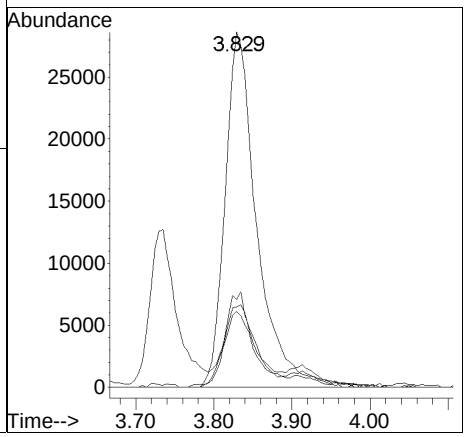


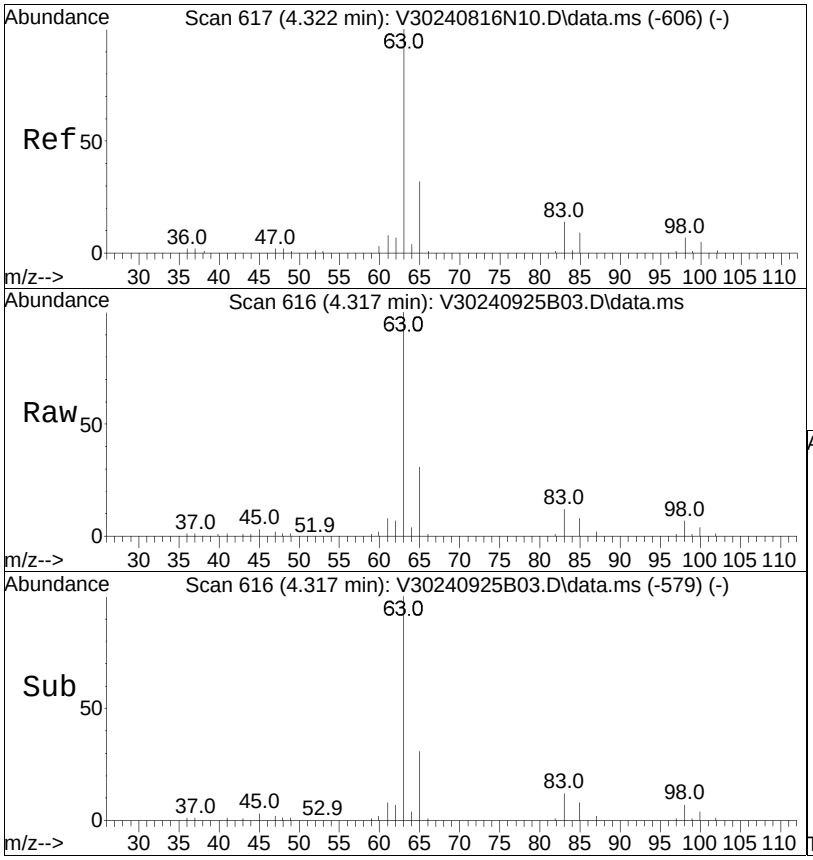


#21
Methyl tert-butyl ether
Concen: 6.33 ug/L
RT: 3.829 min Scan# 523
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 73 Resp: 81525

Ion	Ratio	Lower	Upper
73	100		
57	23.2	15.5	32.1
43	19.7	16.6	34.6
41	25.0	17.2	35.6

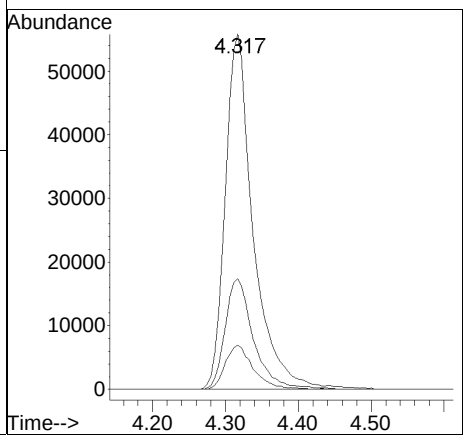


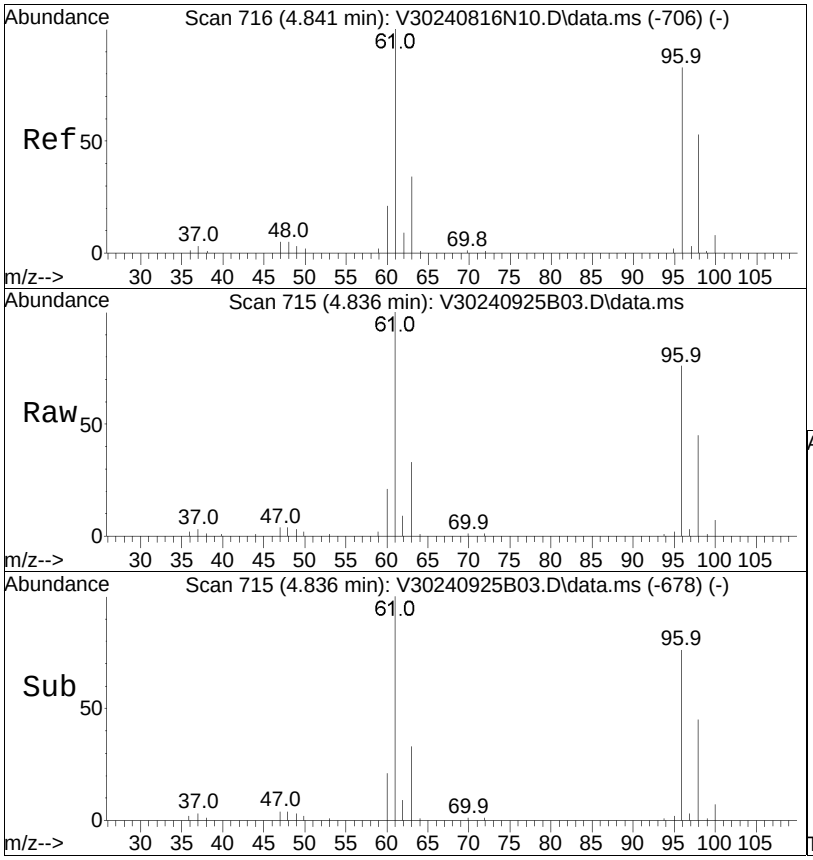


#25
1,1-Dichloroethane
Concen: 12.70 ug/L
RT: 4.317 min Scan# 616
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 63 Resp: 149331

Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.5	36.7
83	12.5	8.9	13.3

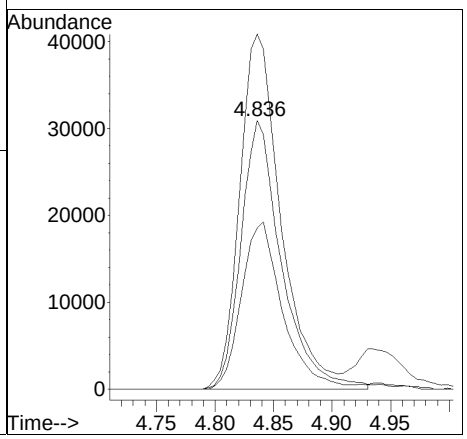


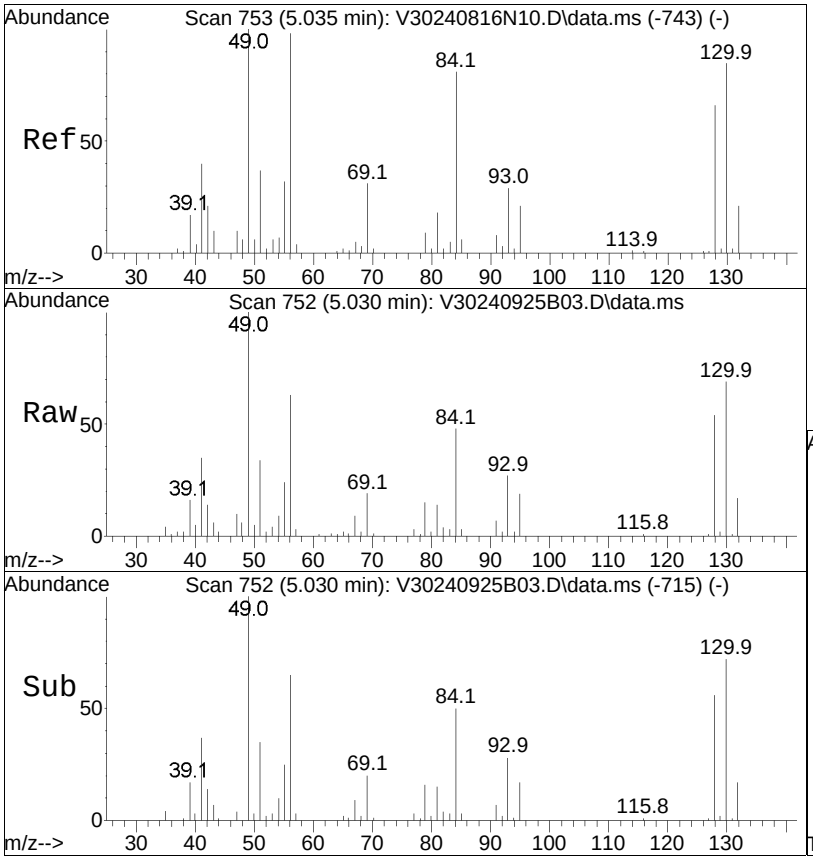


#30
cis-1,2-Dichloroethene
Concen: 10.19 ug/L
RT: 4.836 min Scan# 715
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 96 Resp: 74553

Ion	Ratio	Lower	Upper
96	100		
61	133.9	129.3	193.9
98	63.4	51.4	77.2

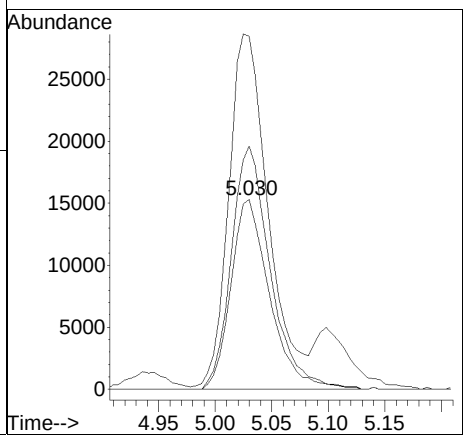


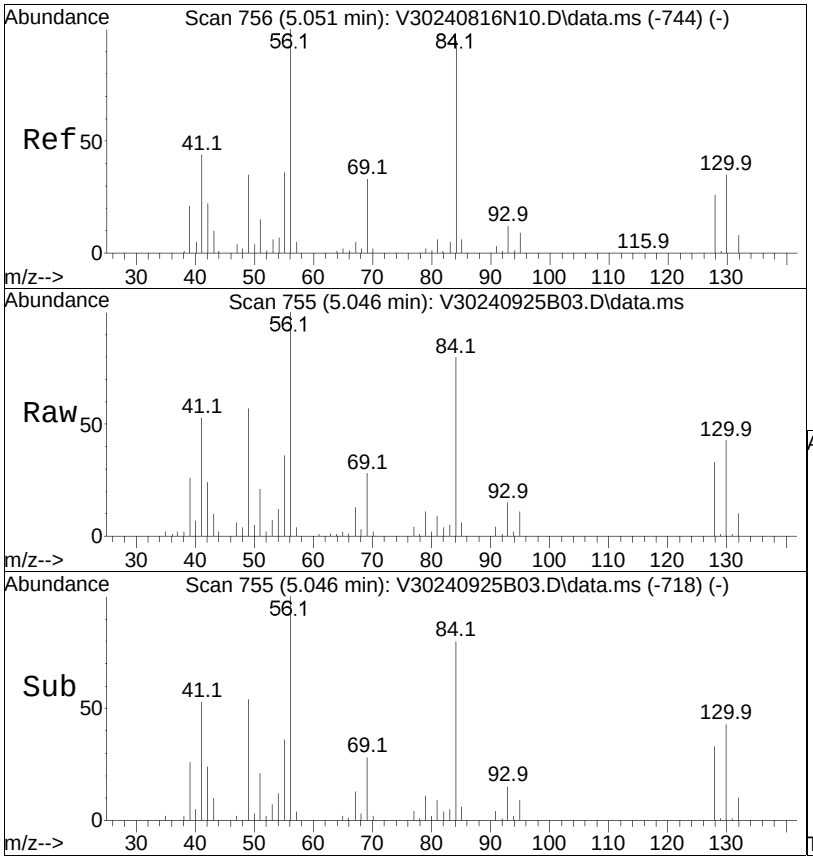


#33
Bromochloromethane
Concen: 10.52 ug/L
RT: 5.030 min Scan# 752
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:128 Resp: 36616

Ion	Ratio	Lower	Upper
128	100		
49	190.9	214.8	322.2#
130	128.7	105.4	158.2

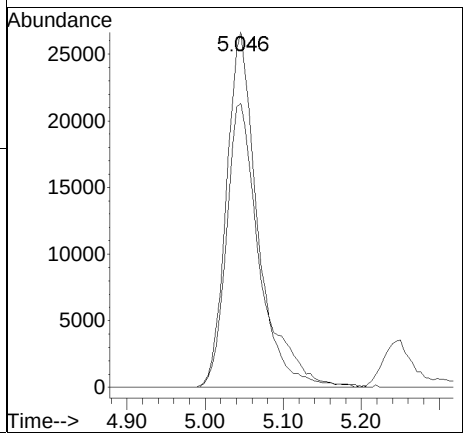


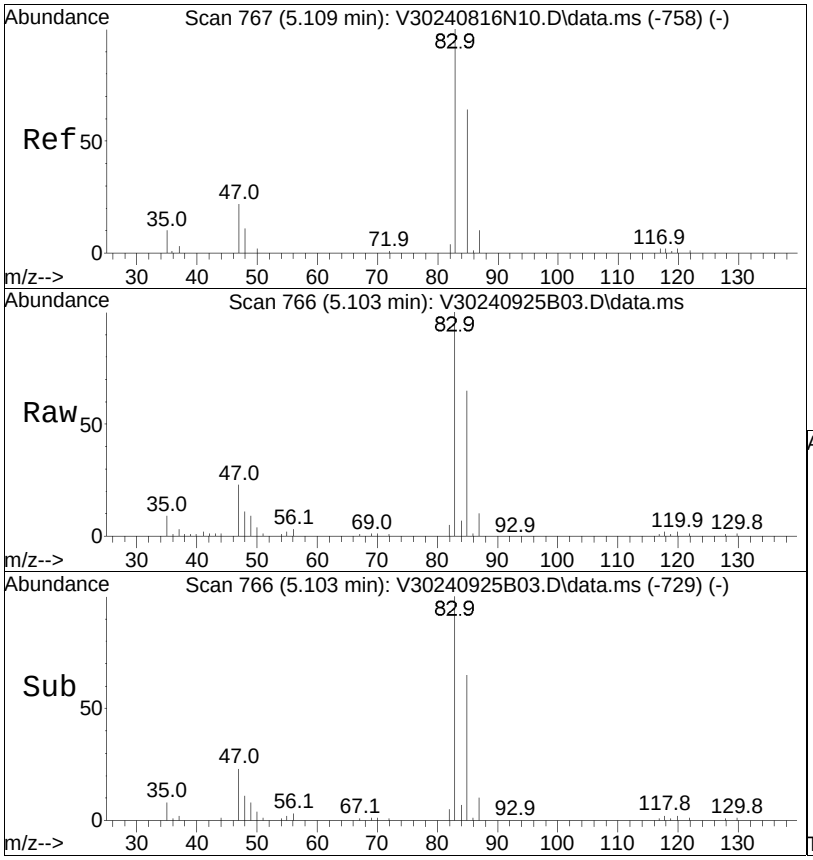


#34
Cyclohexane
Concen: 7.76 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 56 Resp: 73294

Ion	Ratio	Lower	Upper
56	100		
84	88.3	49.9	103.5

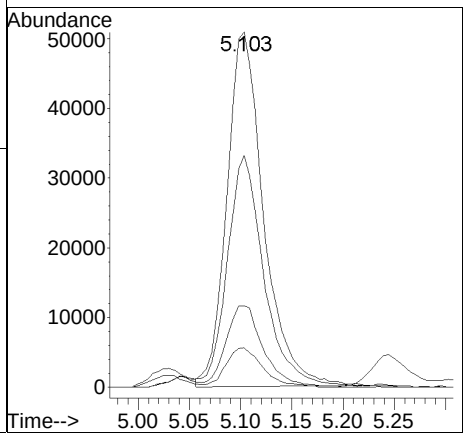


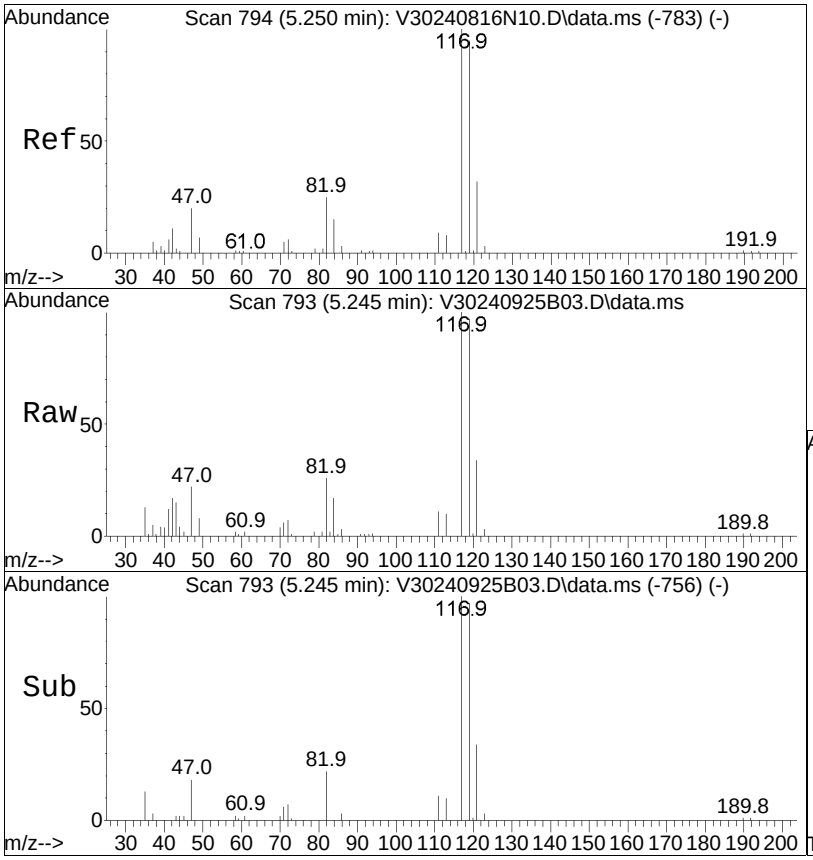


#35
Chloroform
Concen: 11.11 ug/L
RT: 5.103 min Scan# 766
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 83 Resp: 127203

Ion	Ratio	Lower	Upper
83	100		
85	64.7	41.4	86.0
47	22.6	20.5	42.5
48	11.4	9.9	20.5

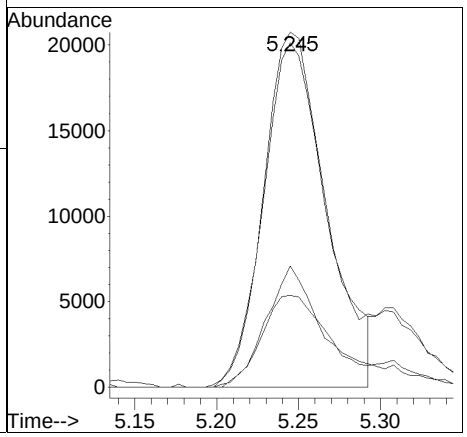


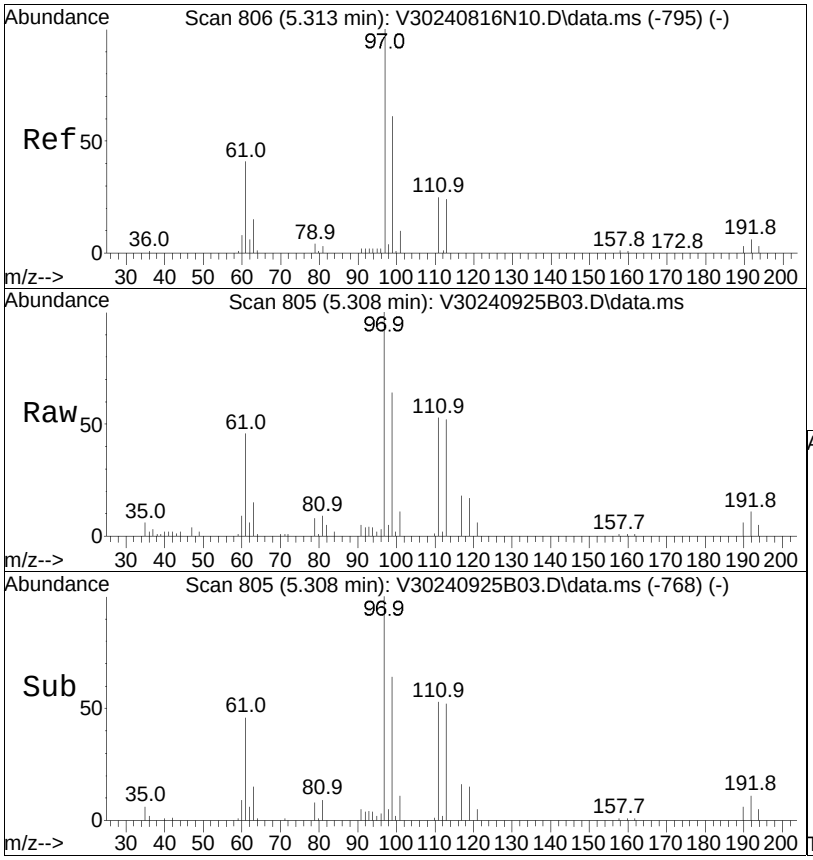


#37
Carbon tetrachloride
Concen: 7.37 ug/L
RT: 5.245 min Scan# 793
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:117 Resp: 55670

Ion	Ratio	Lower	Upper
117	100		
119	98.9	62.0	128.8
121	30.7	19.6	40.6
82	32.4	18.8	39.0

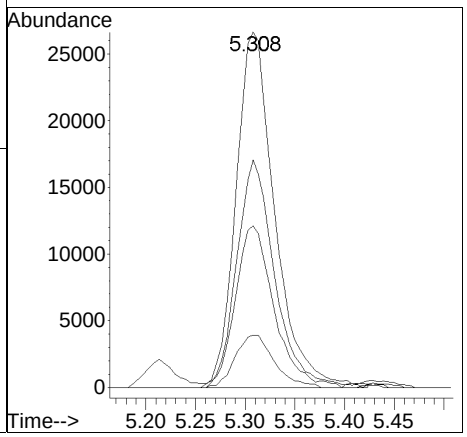


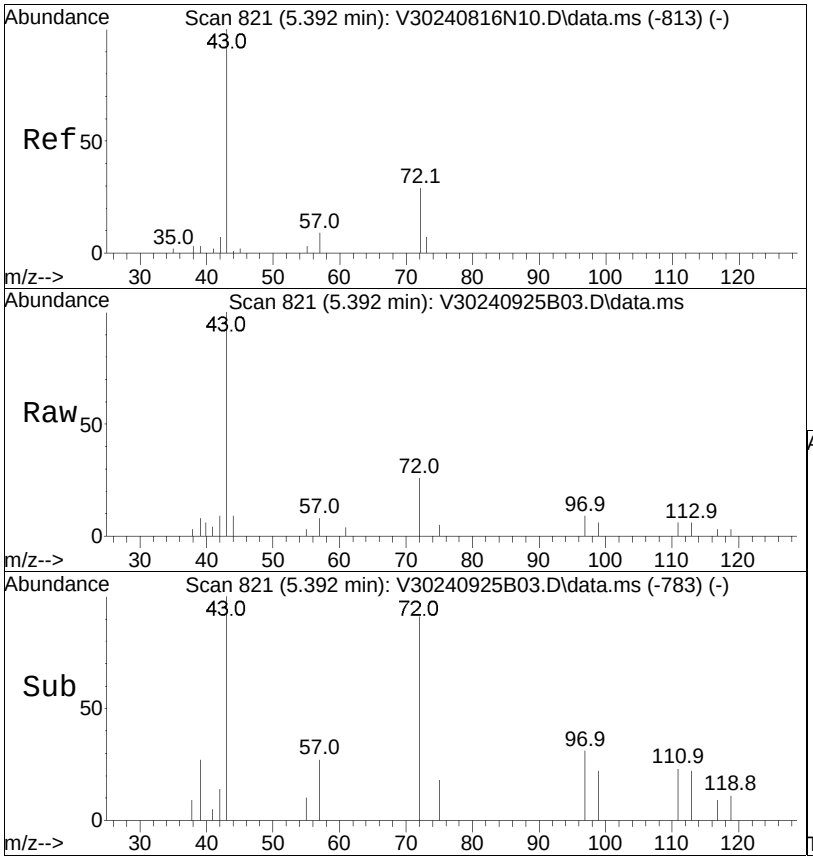


#40
1,1,1-Trichloroethane
Concen: 7.62 ug/L
RT: 5.308 min Scan# 805
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 97 Resp: 72536

Ion	Ratio	Lower	Upper
97	100		
99	62.5	40.6	84.4
61	45.5	35.0	72.8
63	14.8	11.1	23.0

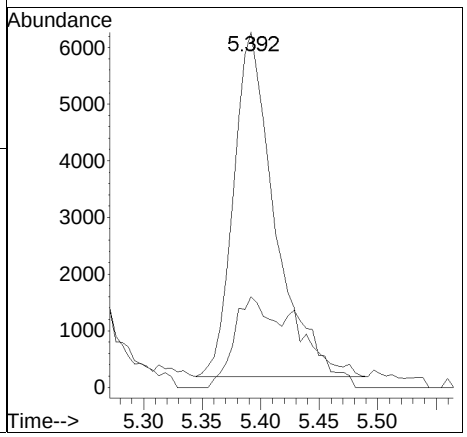


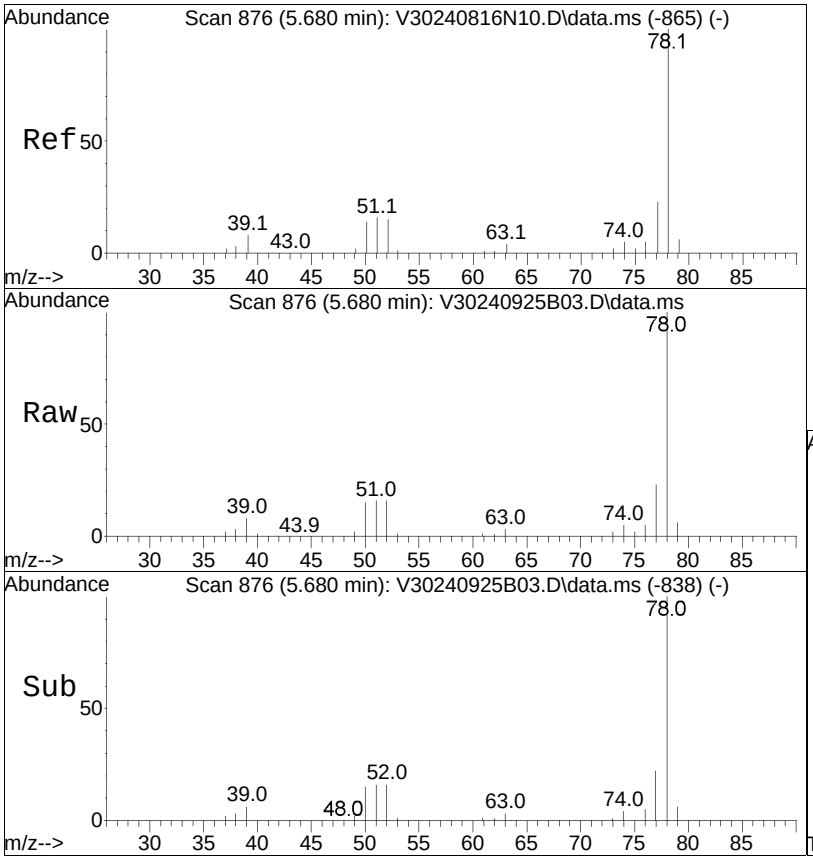


#42
2-Butanone
Concen: 9.97 ug/L
RT: 5.392 min Scan# 821
Delta R.T. -0.000 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 43 Resp: 14760

Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.2	27.4

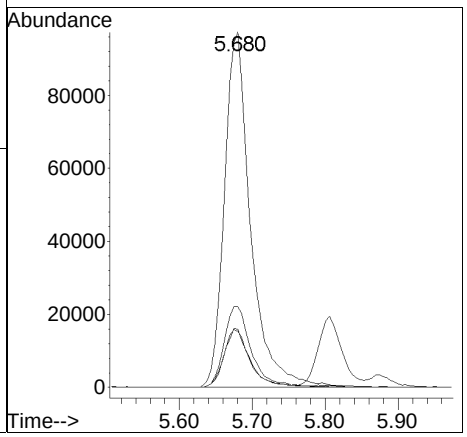


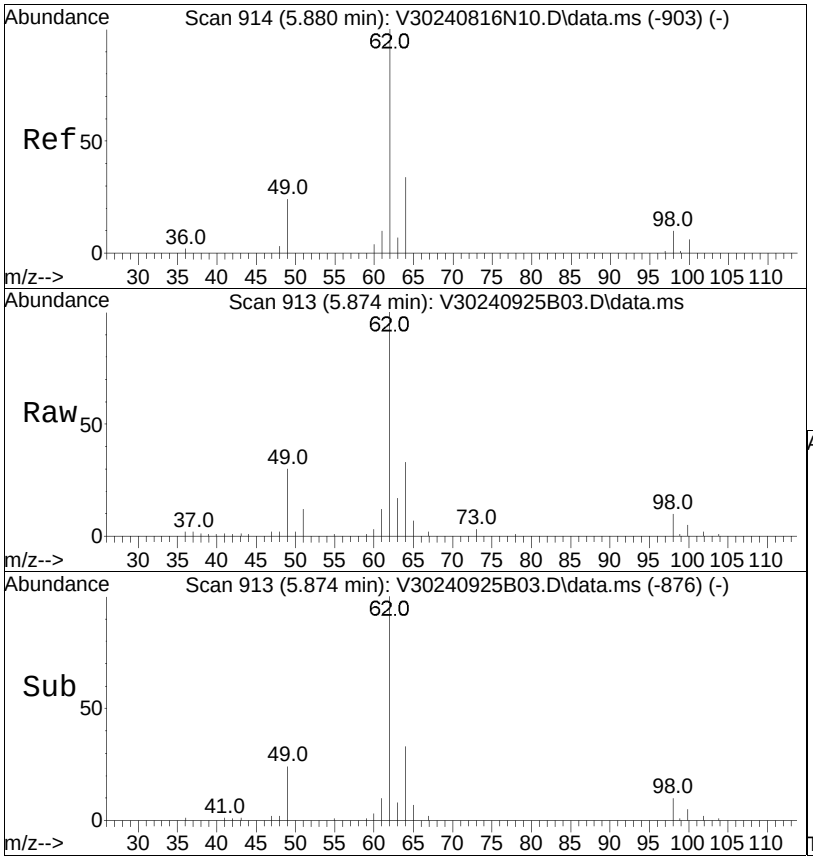


#45
Benzene
Concen: 9.90 ug/L
RT: 5.680 min Scan# 876
Delta R.T. 0.000 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 78 Resp: 244826

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.6	32.4
51	16.4	12.9	26.7
52	16.2	12.4	25.7

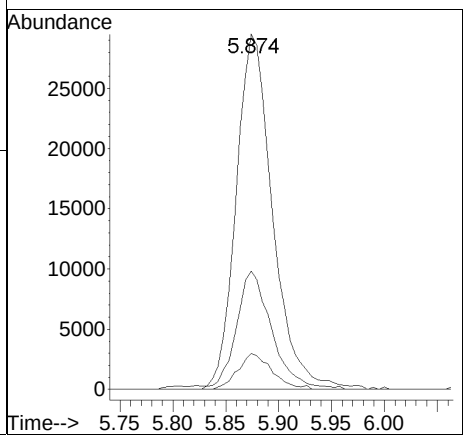


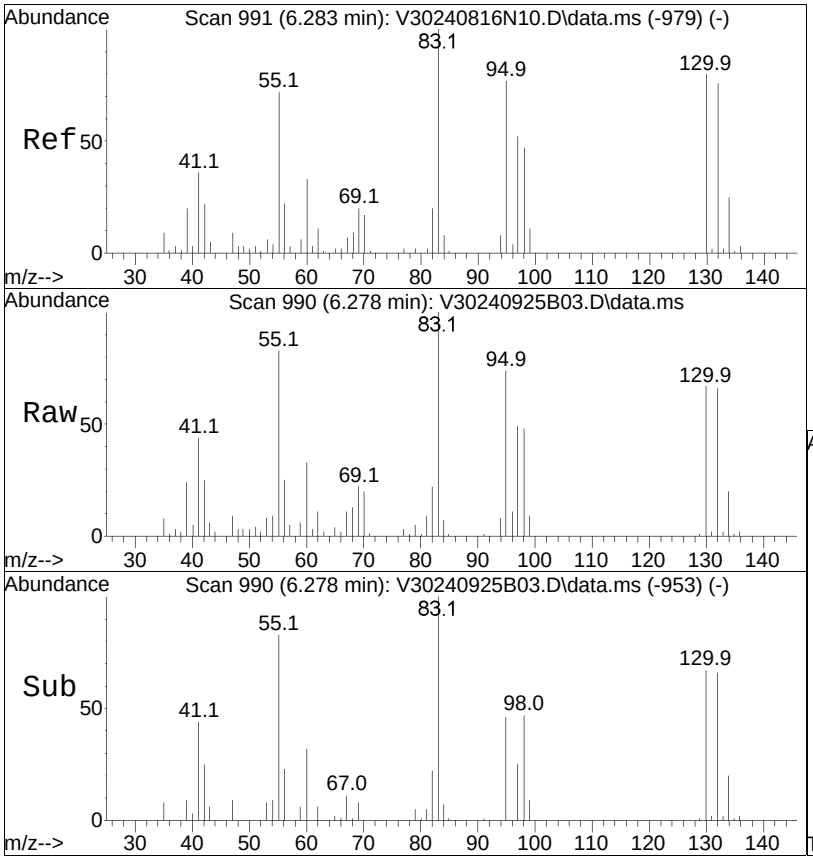


#48
1,2-Dichloroethane
Concen: 9.97 ug/L
RT: 5.874 min Scan# 913
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 62 Resp: 70939

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.5	38.3
98	9.5	5.5	8.3#

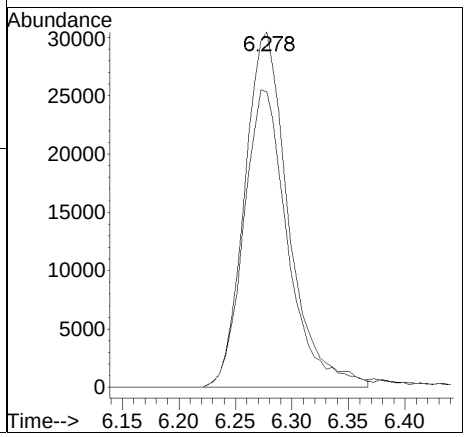


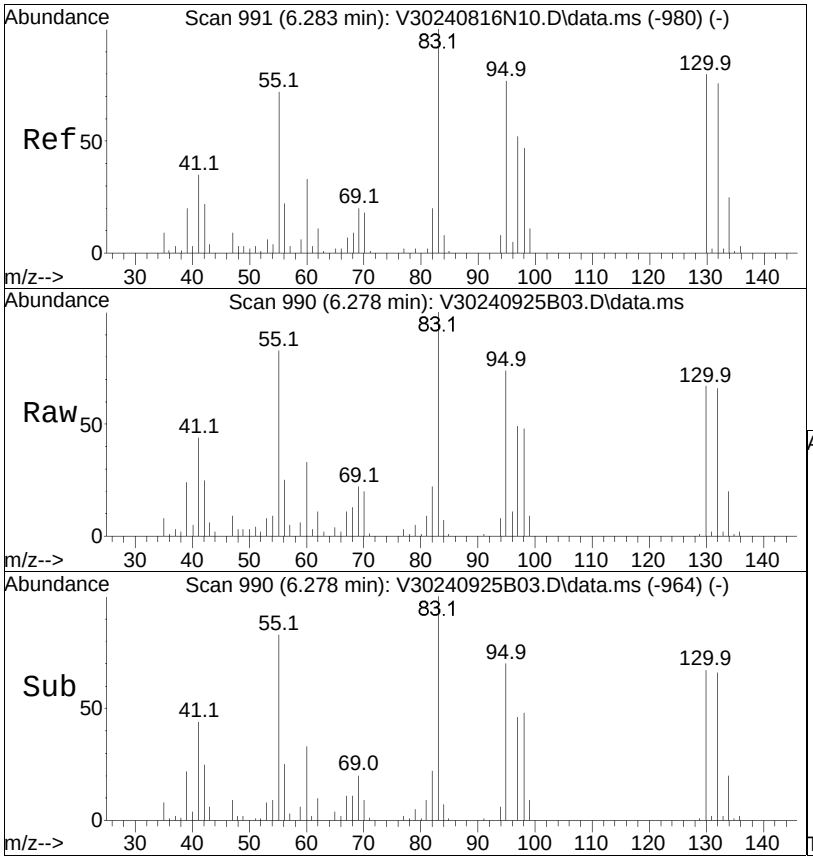


#51
Methyl cyclohexane
Concen: 8.43 ug/L
RT: 6.278 min Scan# 990
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 83 Resp: 82443

Ion	Ratio	Lower	Upper
83	100		
55	84.2	74.6	112.0

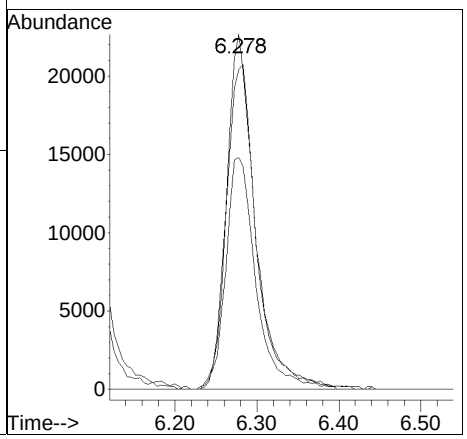


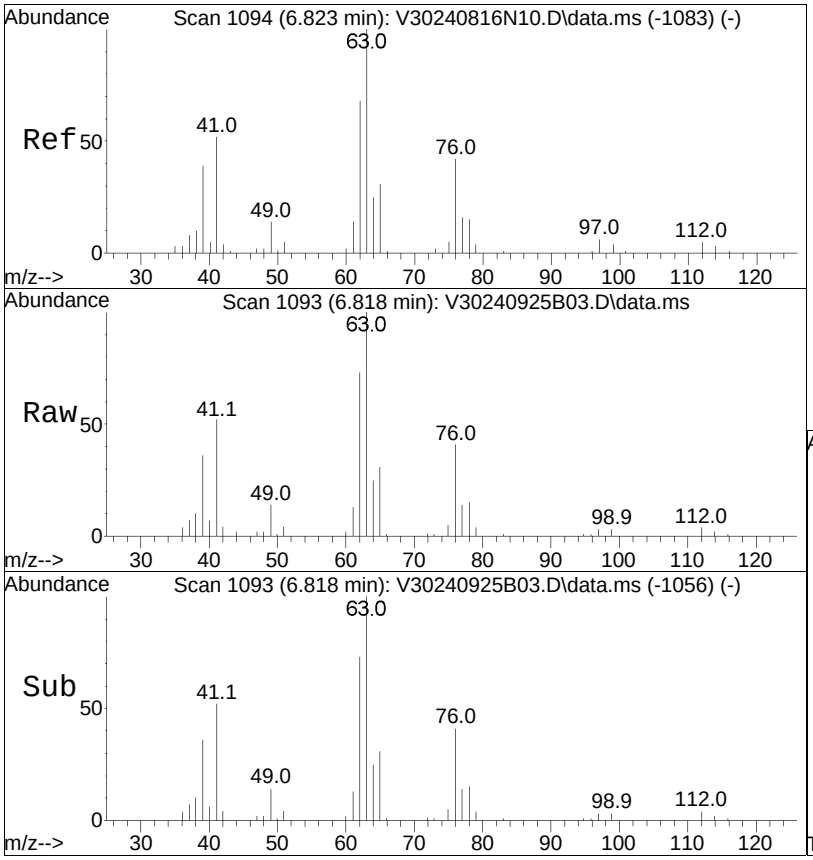


#52
Trichloroethene
Concen: 8.50 ug/L
RT: 6.278 min Scan# 990
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 95 Resp: 56037

Ion	Ratio	Lower	Upper
95	100		
97	67.8	53.8	80.6
130	94.5	71.4	107.0

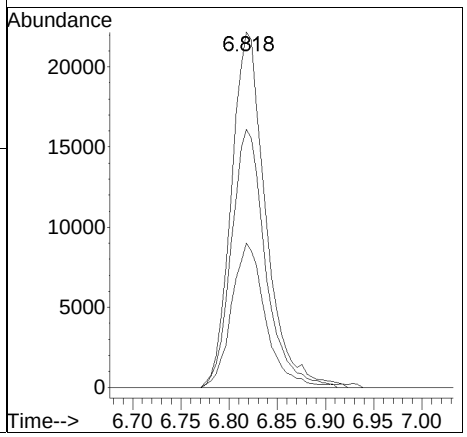


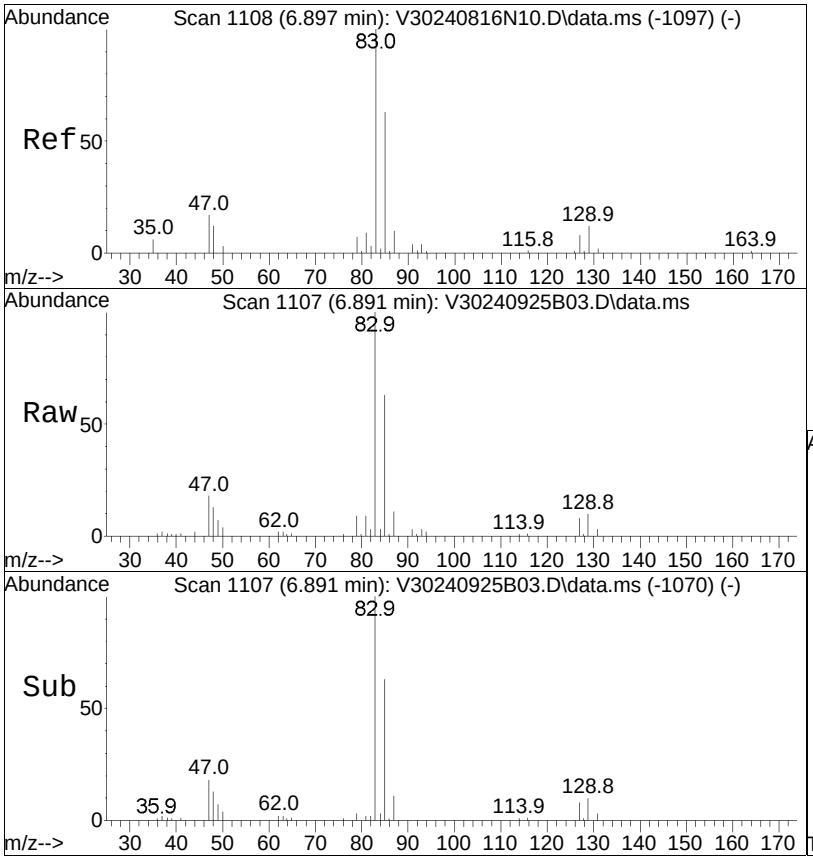


#55
1,2-Dichloropropane
Concen: 9.58 ug/L
RT: 6.818 min Scan# 1093
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 63 Resp: 55283

Ion	Ratio	Lower	Upper
63	100		
62	72.0	58.1	87.1
76	40.0	30.4	45.6

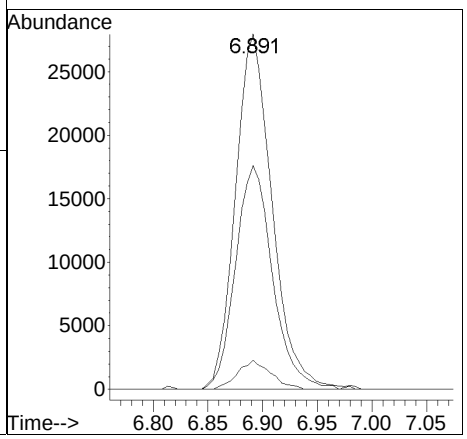


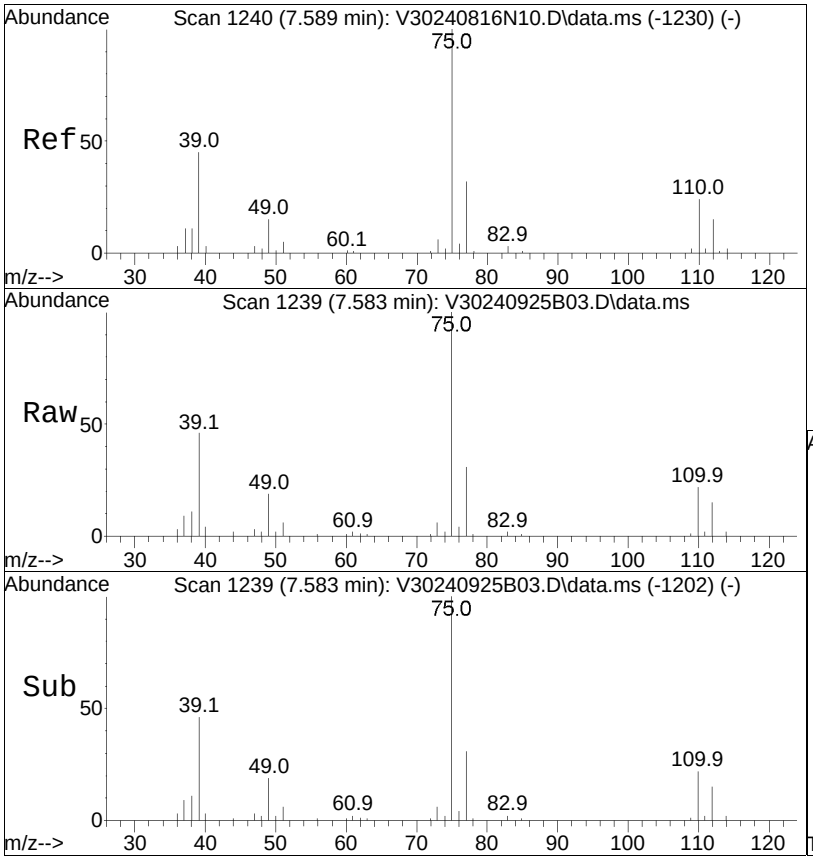


#58
Bromodichloromethane
Concen: 8.26 ug/L
RT: 6.891 min Scan# 1107
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 83 Resp: 65393

Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.2	75.2
127	7.5	5.2	7.8

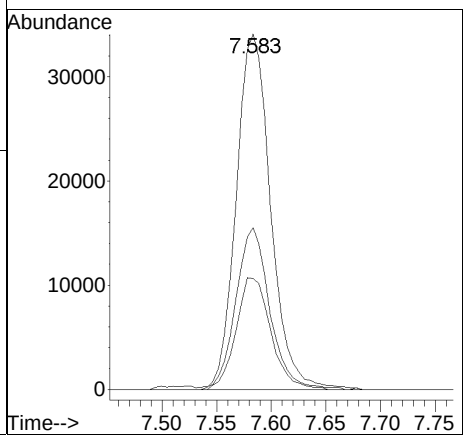


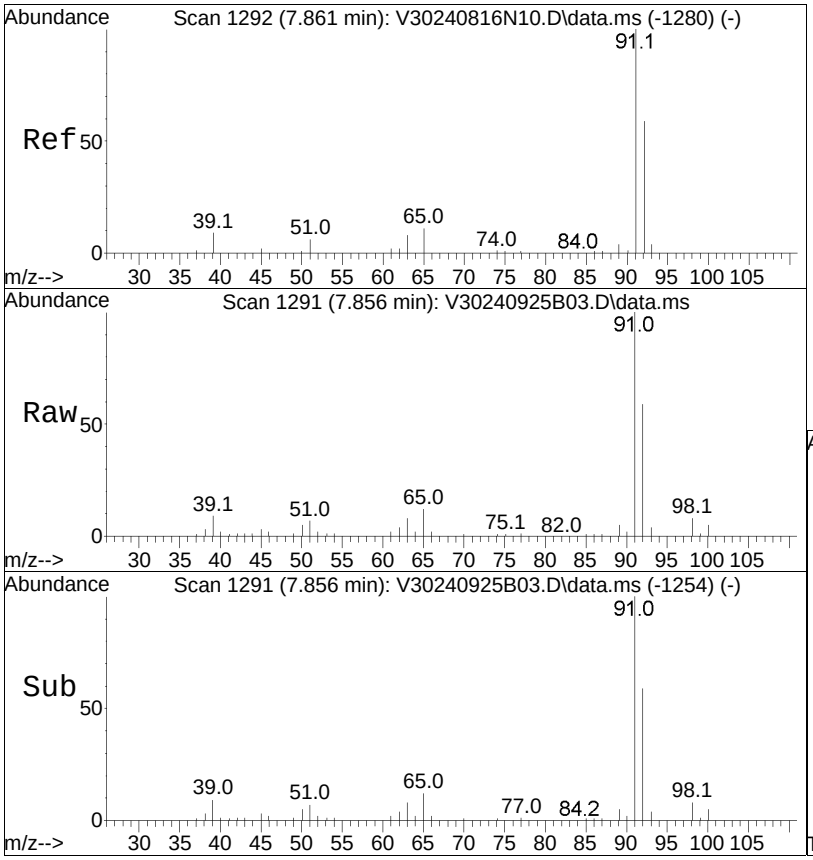


#62
cis-1,3-Dichloropropene
Concen: 8.36 ug/L
RT: 7.583 min Scan# 1239
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 75 Resp: 74717

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2
39	44.9	54.6	82.0#

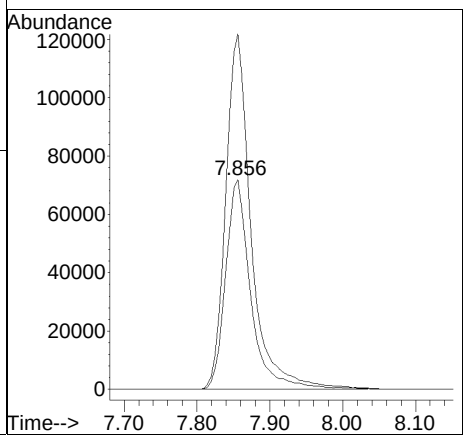


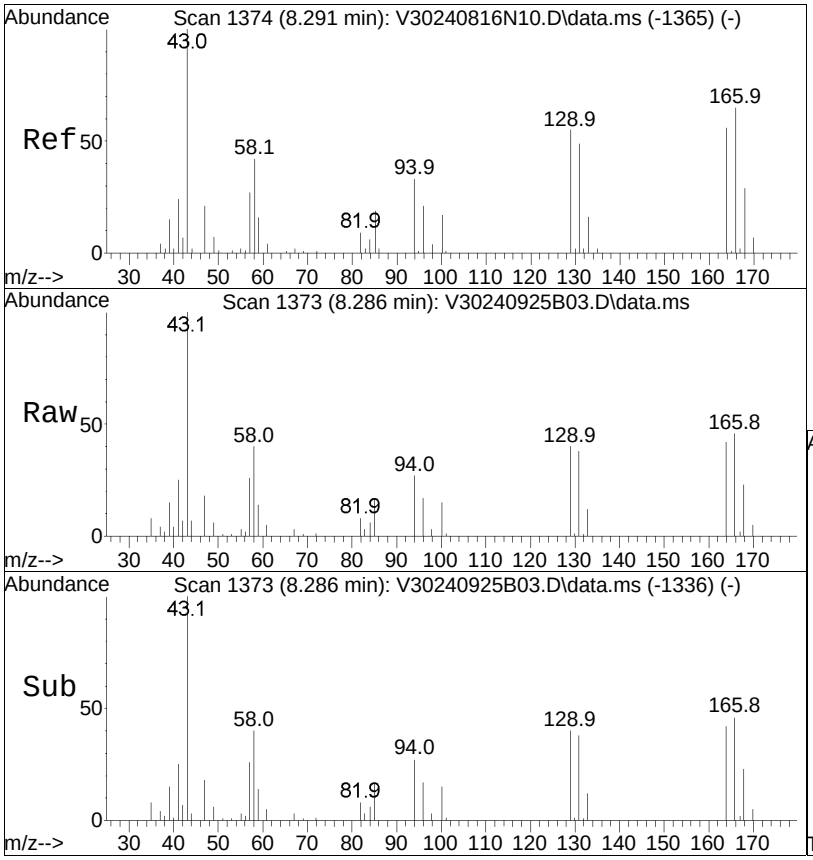


#65
Toluene
Concen: 10.43 ug/L
RT: 7.856 min Scan# 1291
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 92 Resp: 173380

Ion	Ratio	Lower	Upper
92	100		
91	170.7	137.5	206.3

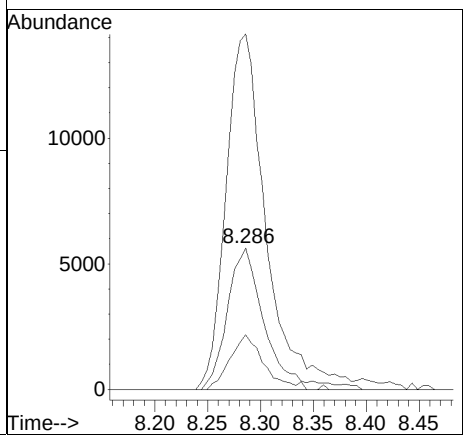


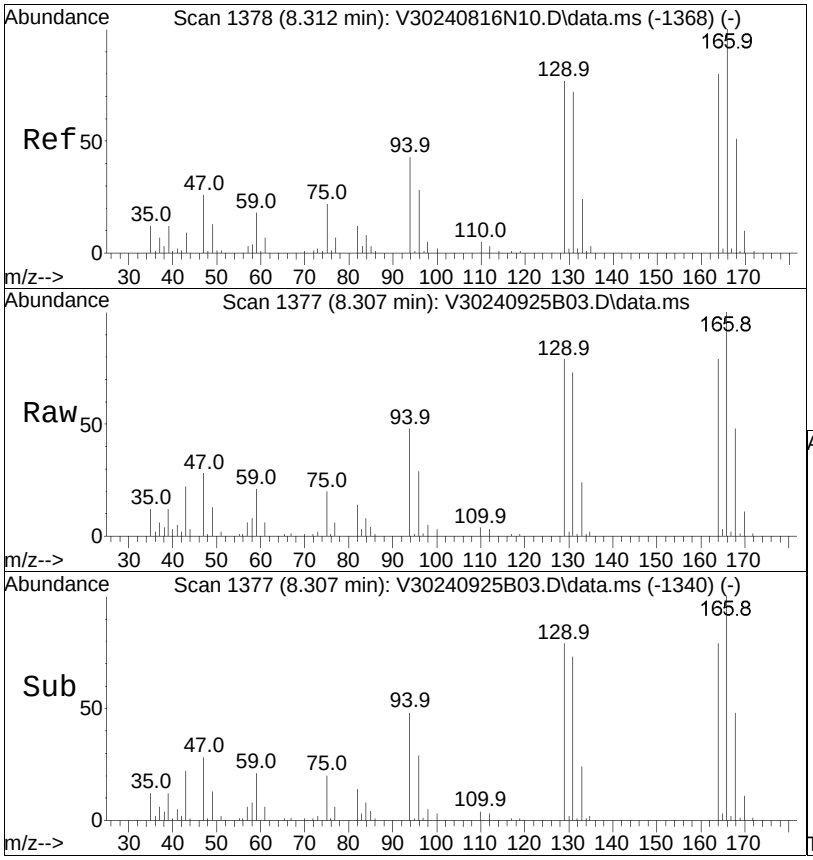


#66
4-Methyl-2-pentanone
Concen: 10.21 ug/L
RT: 8.286 min Scan# 1373
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 58 Resp: 13985

Ion	Ratio	Lower	Upper
58	100		
100	34.6	22.6	34.0#
43	267.7	234.6	351.8

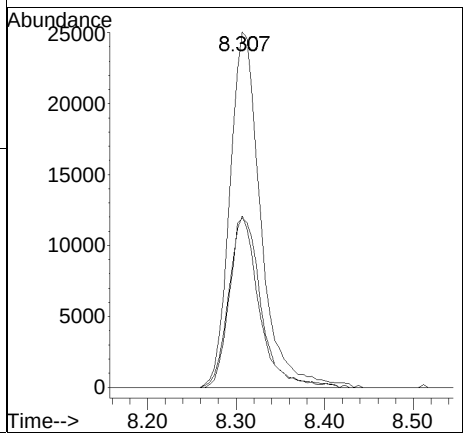


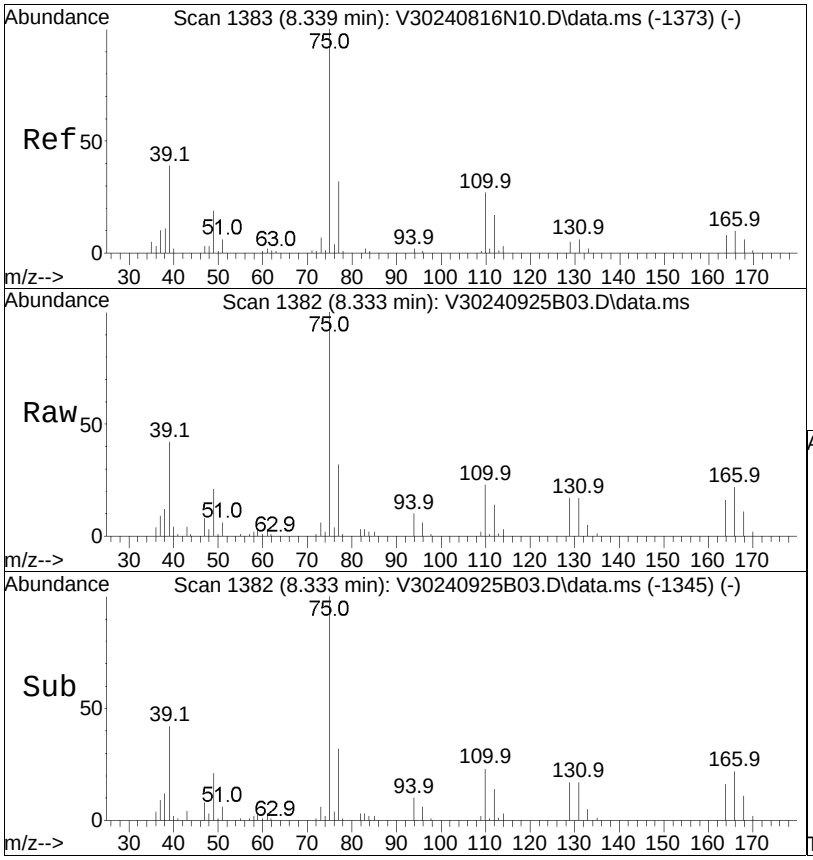


#67
Tetrachloroethene
Concen: 9.25 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:166 Resp: 60989

Ion	Ratio	Lower	Upper
166	100		
168	49.1	38.6	58.0
94	47.0	42.6	63.8

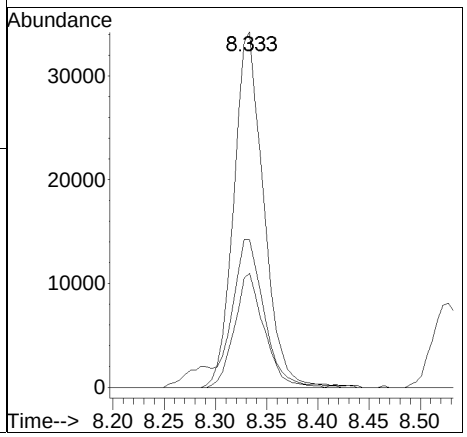


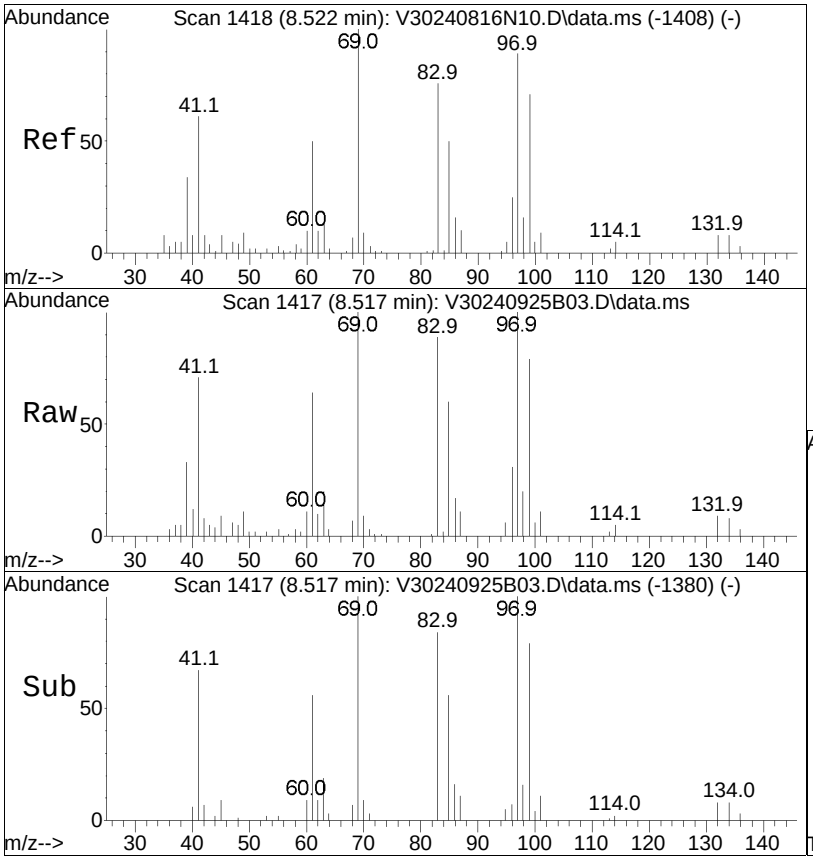


#69
trans-1,3-Dichloropropene
Concen: 9.52 ug/L
RT: 8.333 min Scan# 1382
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 75 Resp: 69628

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4
39	49.9	60.2	90.4#

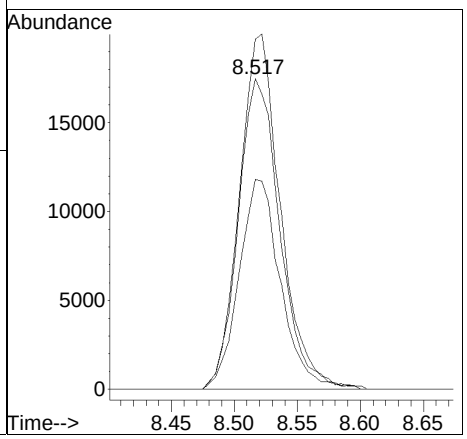


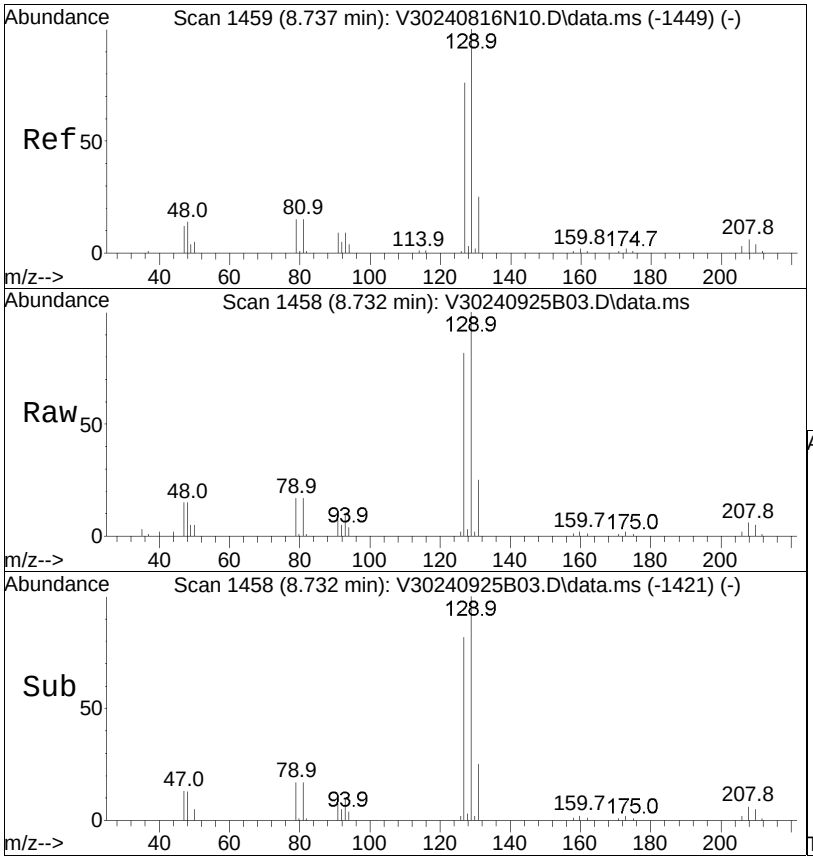


#72
1,1,2-Trichloroethane
Concen: 10.84 ug/L
RT: 8.517 min Scan# 1417
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 83 Resp: 40297

Ion	Ratio	Lower	Upper
83	100		
97	112.3	87.7	131.5
85	67.4	53.1	79.7

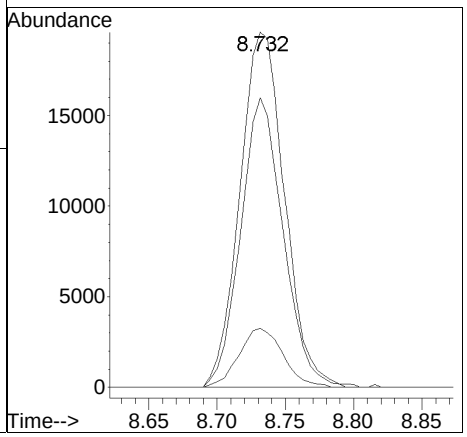


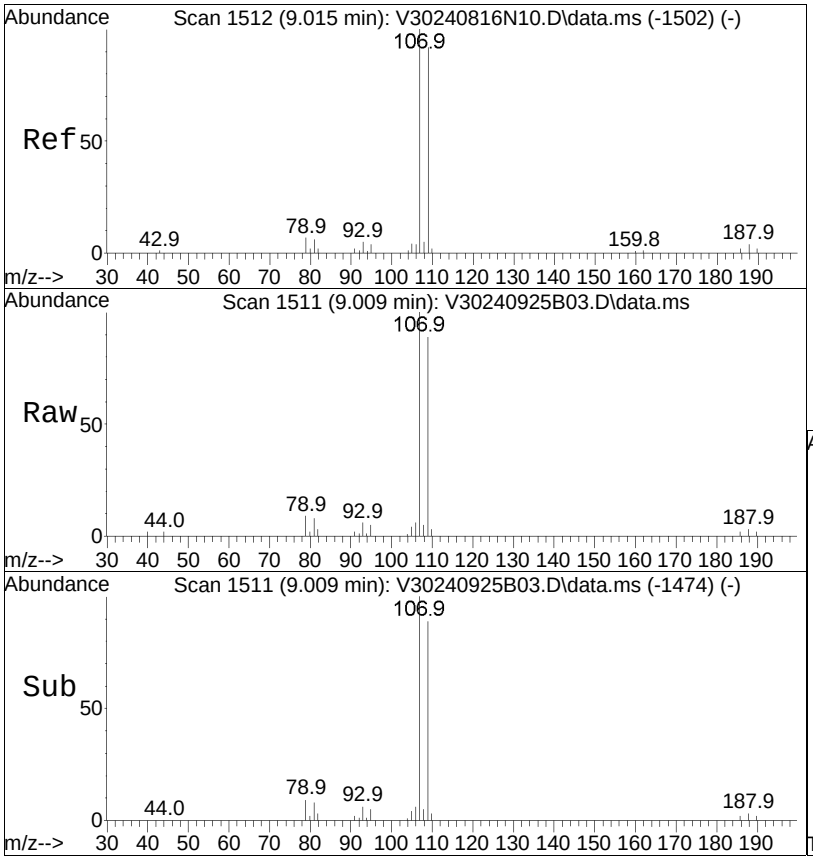


#73
Chlorodibromomethane
Concen: 8.75 ug/L
RT: 8.732 min Scan# 1458
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:129 Resp: 44711

Ion	Ratio	Lower	Upper
129	100		
81	16.5	14.6	22.0
127	77.3	62.6	93.8

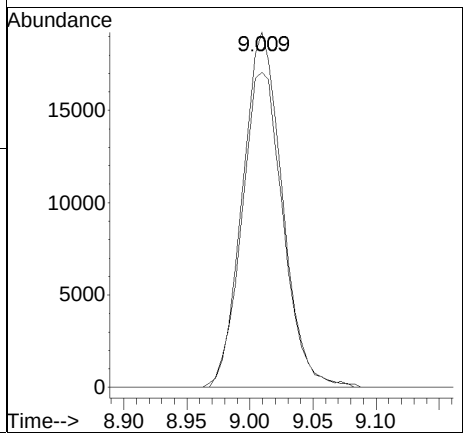


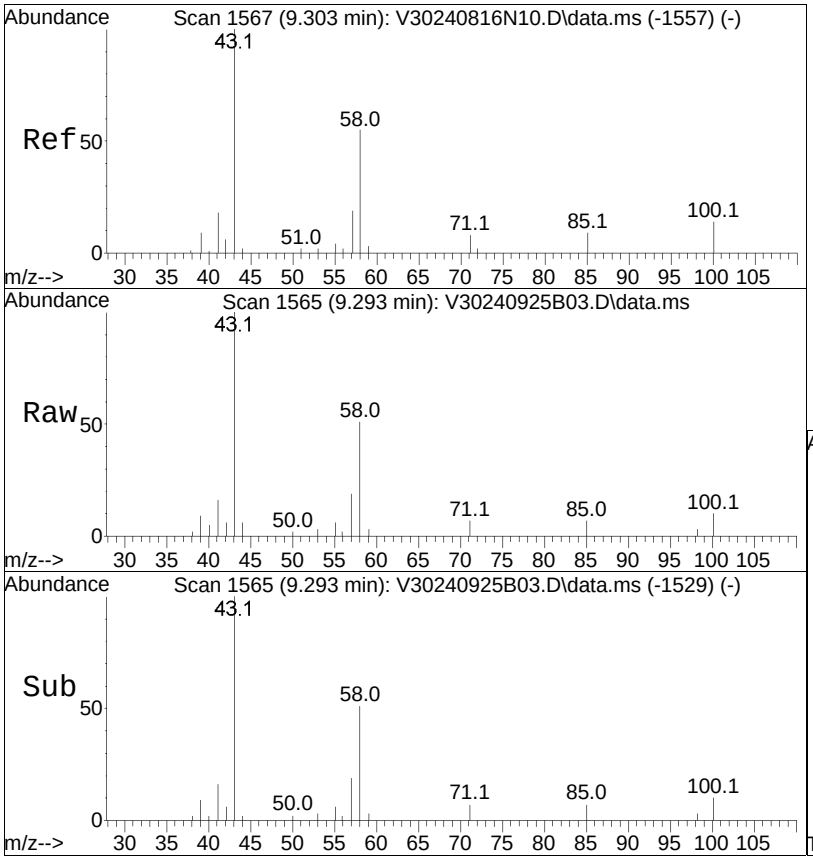


#75
1,2-Dibromoethane
Concen: 11.39 ug/L
RT: 9.009 min Scan# 1511
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:107 Resp: 42372

Ion	Ratio	Lower	Upper
107	100		
109	91.6	75.0	112.4

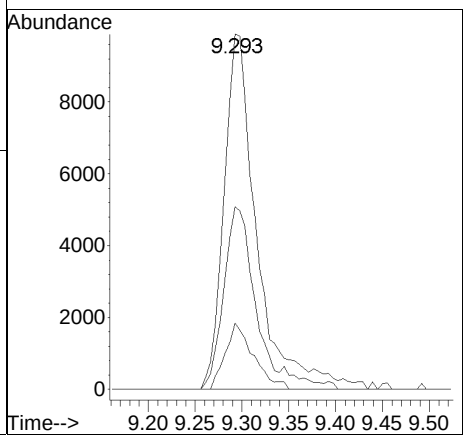


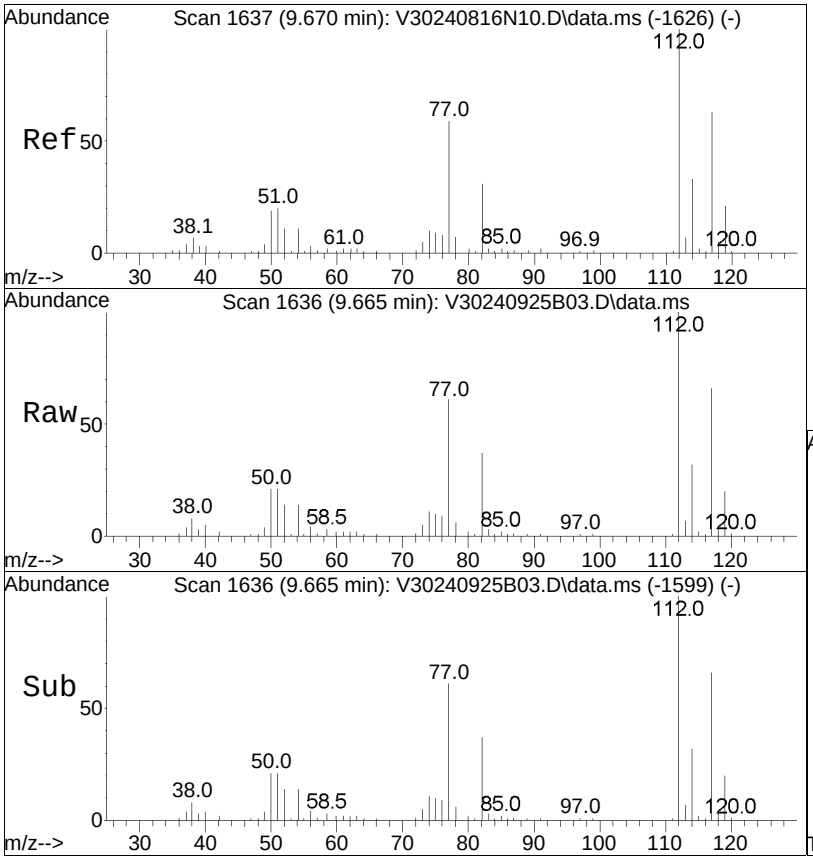


#77
2-Hexanone
Concen: 10.90 ug/L
RT: 9.293 min Scan# 1565
Delta R.T. -0.010 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 43 Resp: 24292

Ion	Ratio	Lower	Upper
43	100		
58	51.3	38.6	58.0
57	15.9	14.1	21.1

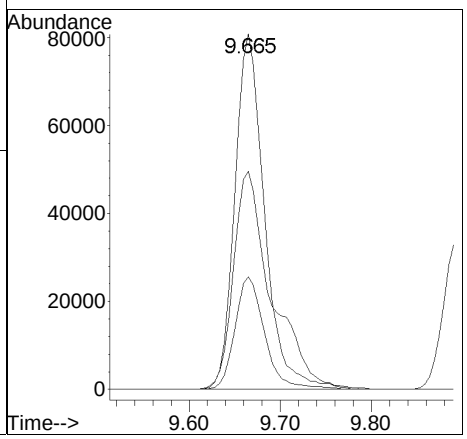


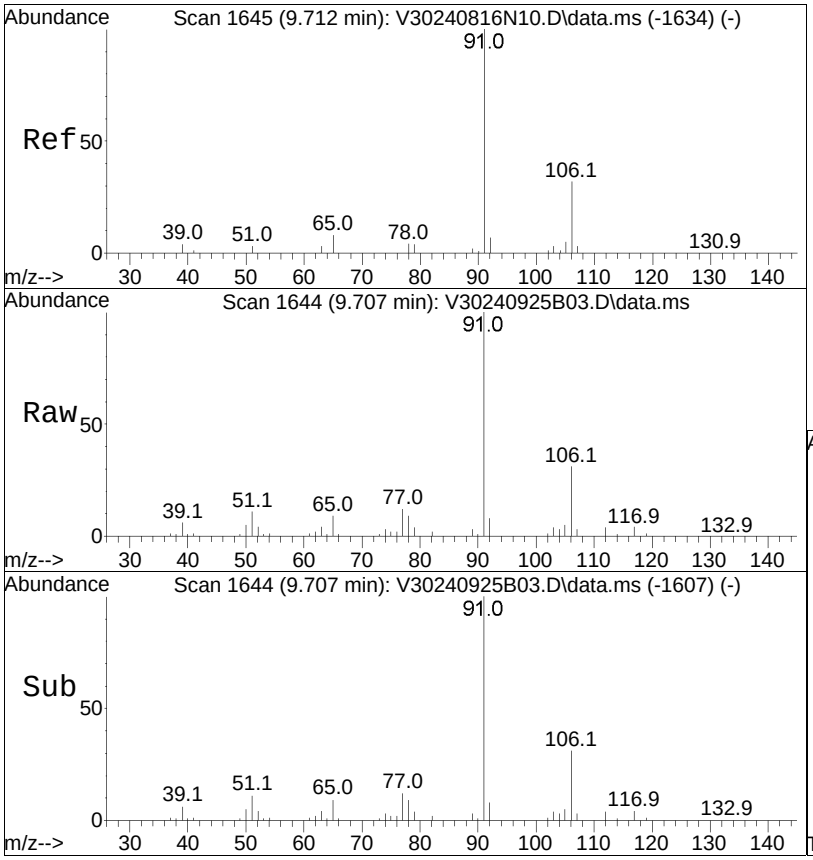


#78
Chlorobenzene
Concen: 9.95 ug/L
RT: 9.665 min Scan# 1636
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:112 Resp: 183511

Ion	Ratio	Lower	Upper
112	100		
77	78.8	54.8	82.2
114	31.7	25.4	38.0

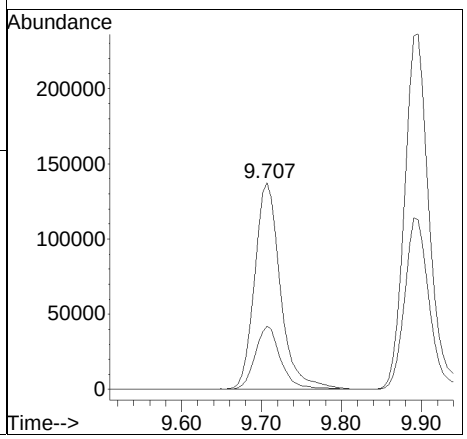


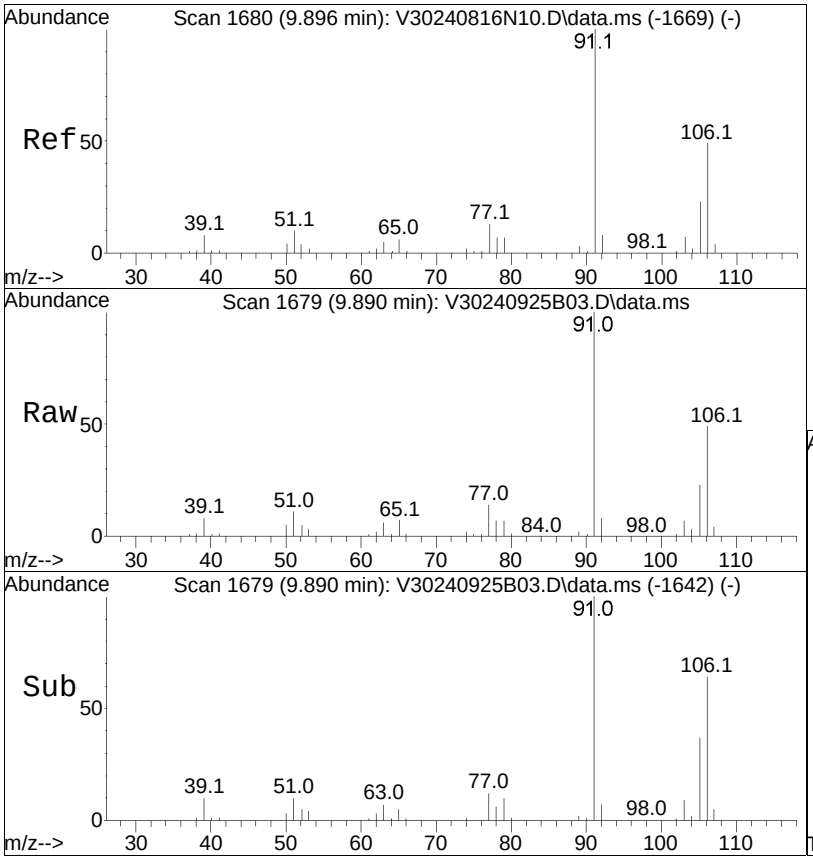


#79
Ethylbenzene
Concen: 9.92 ug/L
RT: 9.707 min Scan# 1644
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 91 Resp: 309557

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.4	35.2

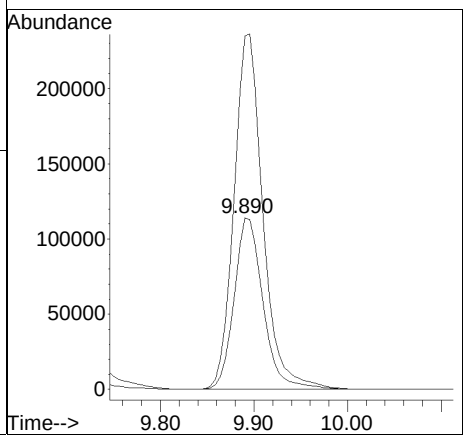


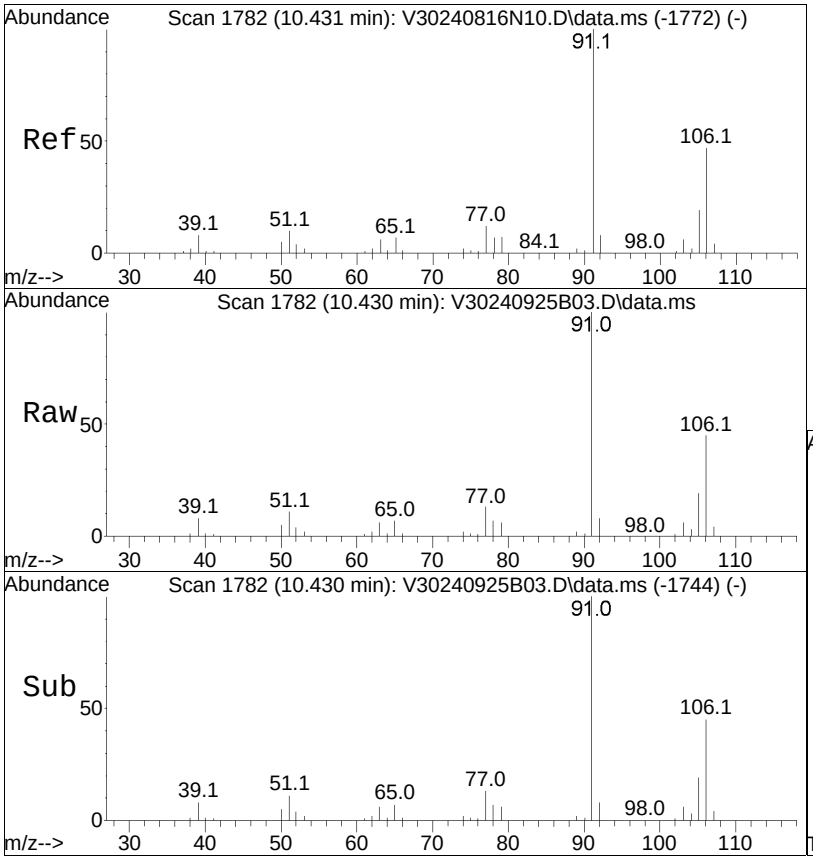


#81
p/m Xylene
Concen: 19.68 ug/L
RT: 9.890 min Scan# 1679
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:106 Resp: 245092

Ion	Ratio	Lower	Upper
106	100		
91	206.7	171.4	257.2

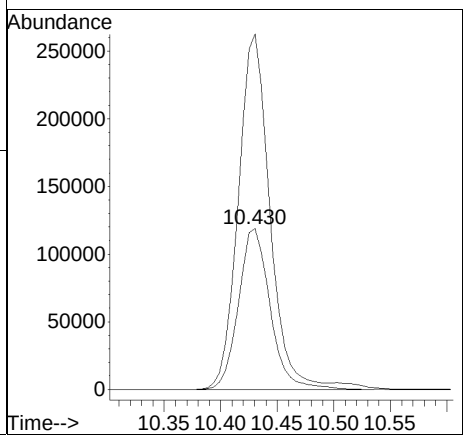


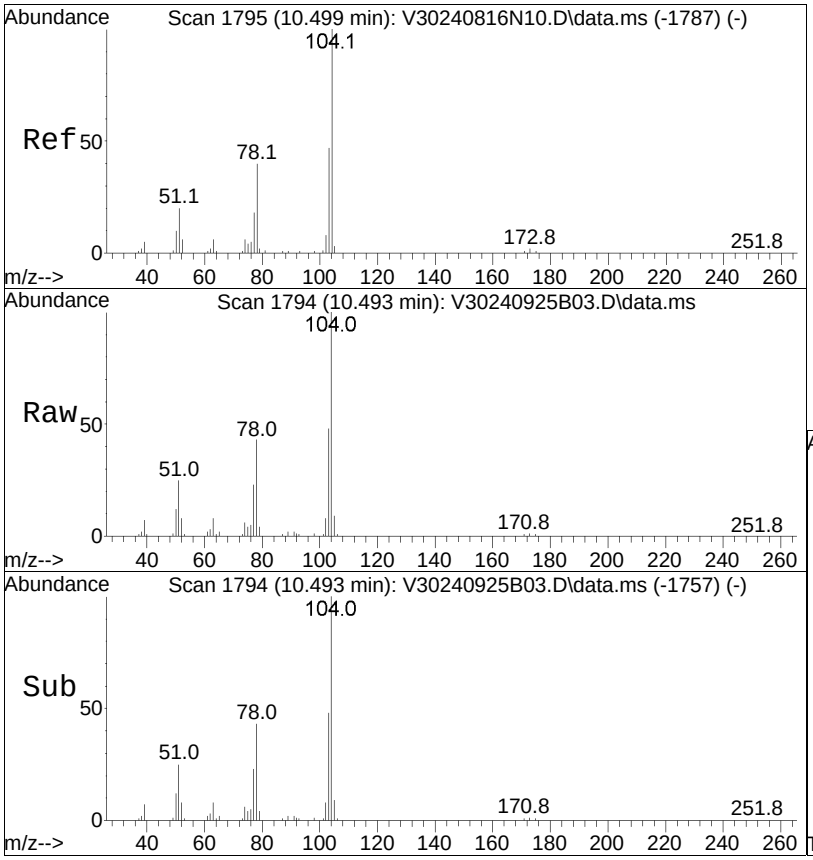


#82
o Xylene
Concen: 19.33 ug/L
RT: 10.430 min Scan# 1782
Delta R.T. -0.001 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:106 Resp: 231899

Ion	Ratio	Lower	Upper
106	100		
91	222.5	179.2	268.8

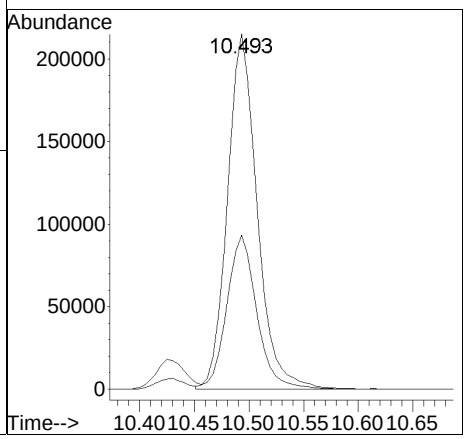


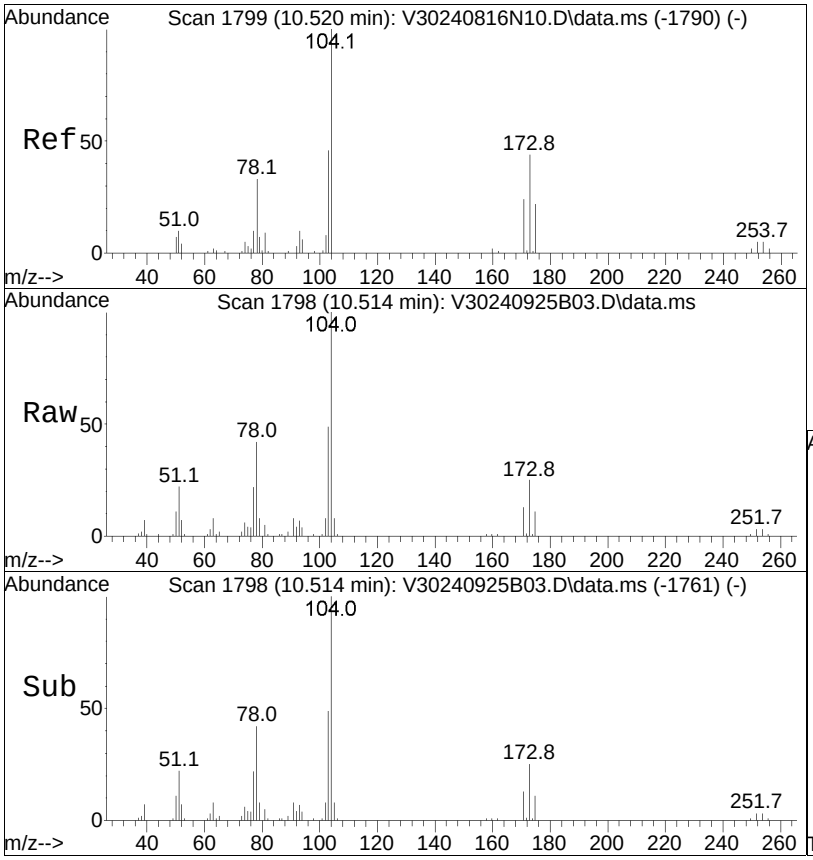


#83
Styrene
Concen: 20.57 ug/L
RT: 10.493 min Scan# 1794
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:104 Resp: 406813

Ion	Ratio	Lower	Upper
104	100		
78	43.6	38.1	57.1

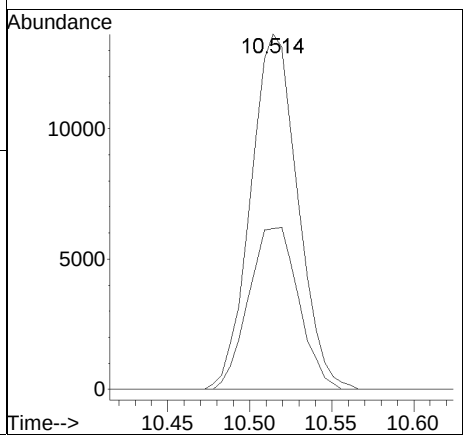


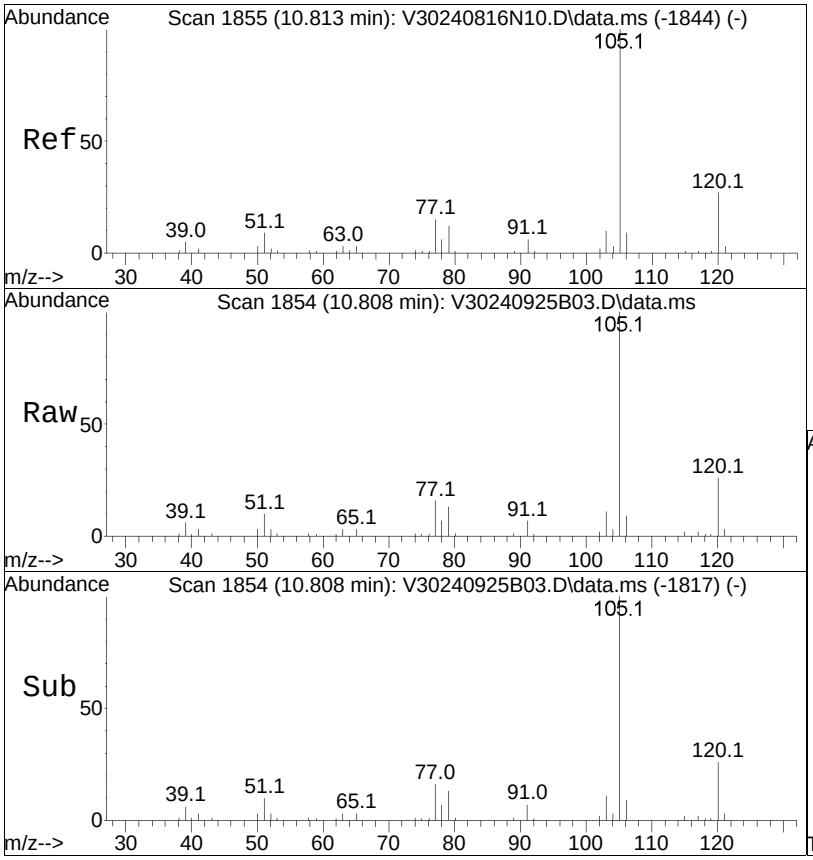


#85
Bromoform
Concen: 8.76 ug/L
RT: 10.514 min Scan# 1798
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:173 Resp: 27263

Ion	Ratio	Lower	Upper
173	100		
175	48.3	37.8	56.6

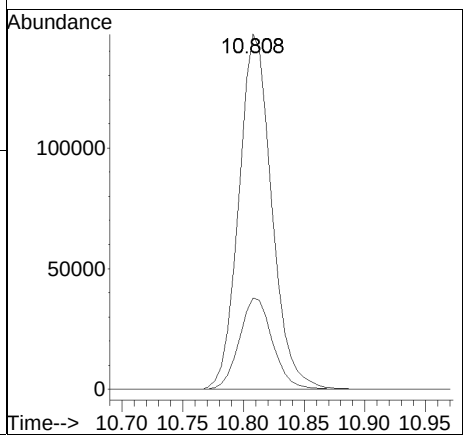


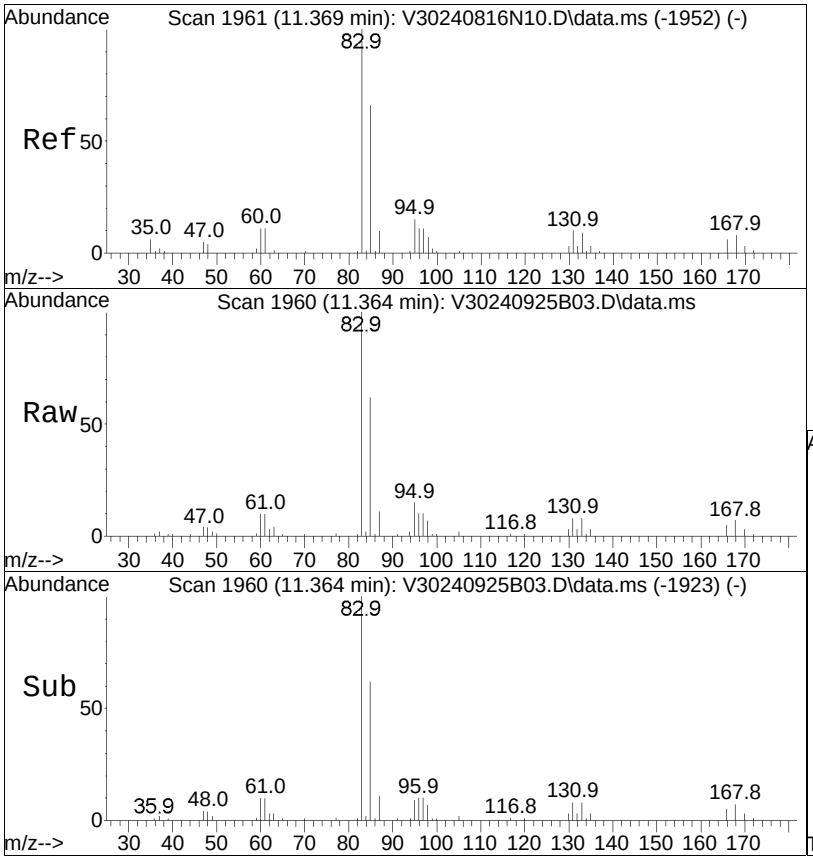


#87
Isopropylbenzene
Concen: 9.15 ug/L
RT: 10.808 min Scan# 1854
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:105 Resp: 277095

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.0	30.0

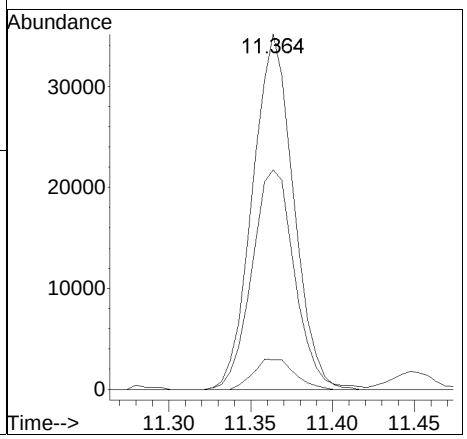


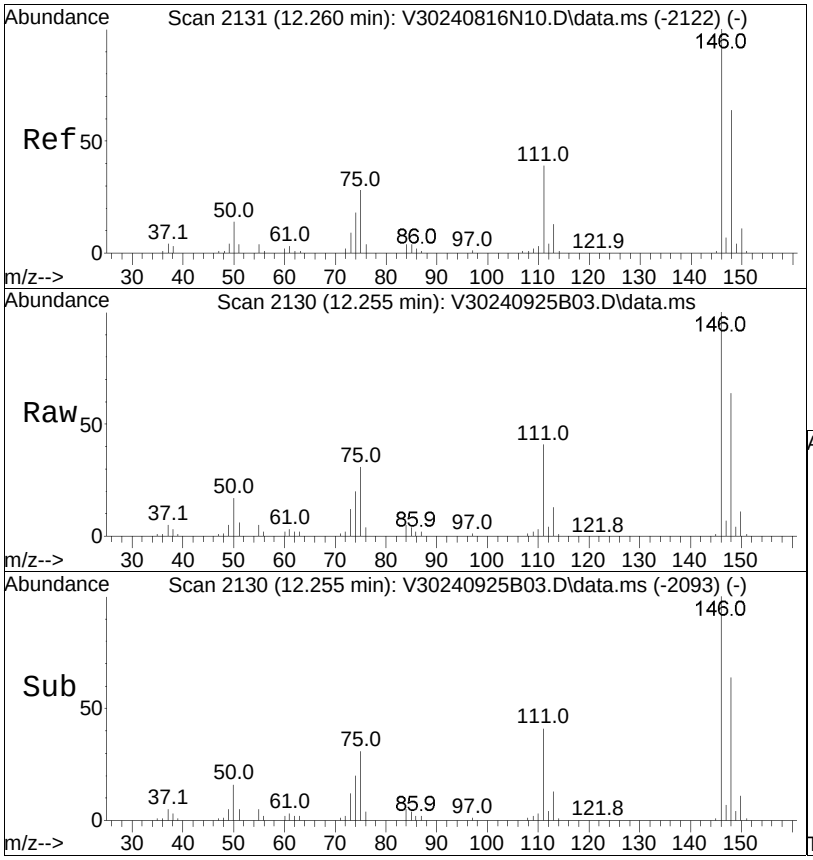


#92
1,1,2,2-Tetrachloroethane
Concen: 11.25 ug/L
RT: 11.364 min Scan# 1960
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion: 83 Resp: 61040

Ion	Ratio	Lower	Upper
83	100		
131	8.6	6.6	10.0
85	64.8	51.8	77.6

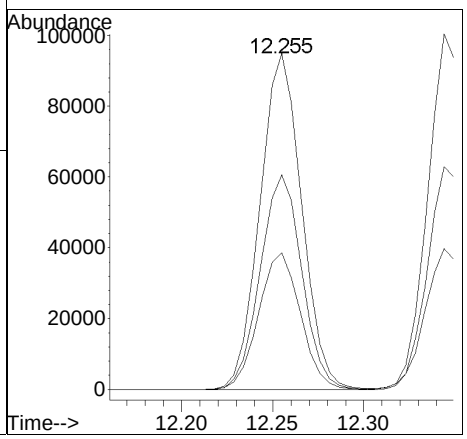


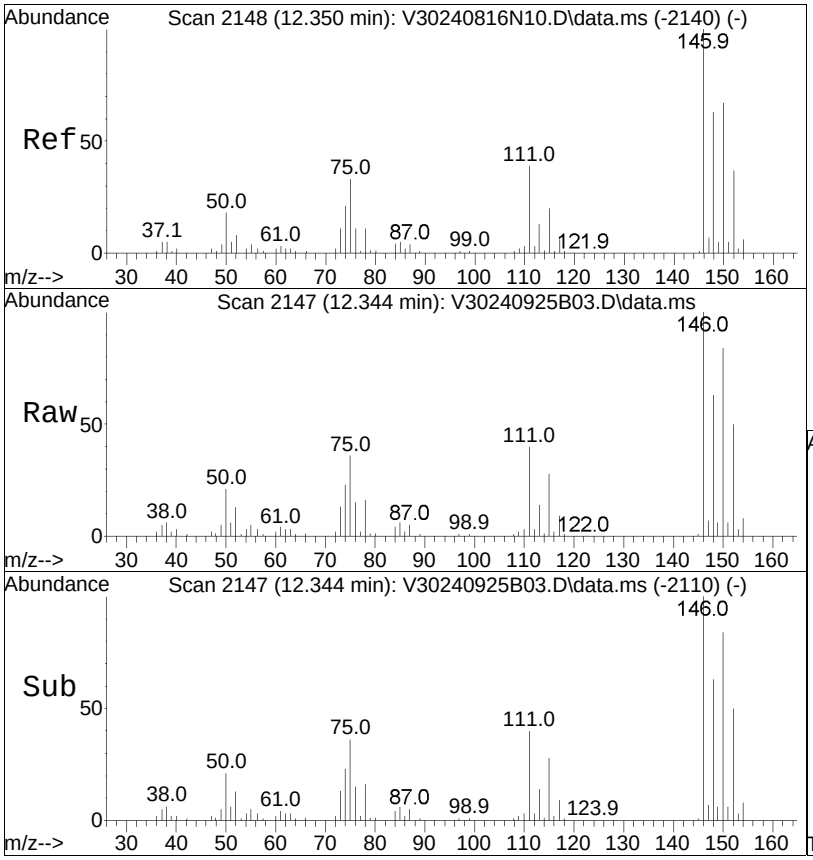


#105
1,3-Dichlorobenzene
Concen: 9.69 ug/L
RT: 12.255 min Scan# 2130
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:146 Resp: 150841

Ion	Ratio	Lower	Upper
146	100		
111	40.8	28.0	58.1
148	63.8	40.8	84.6

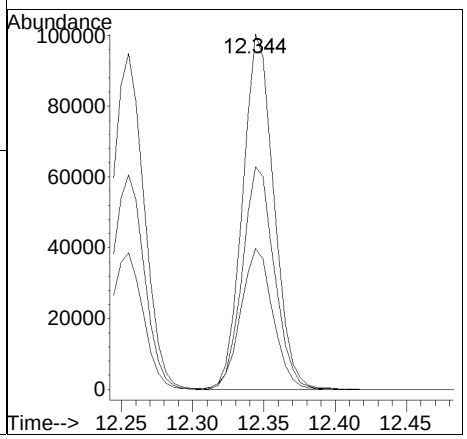


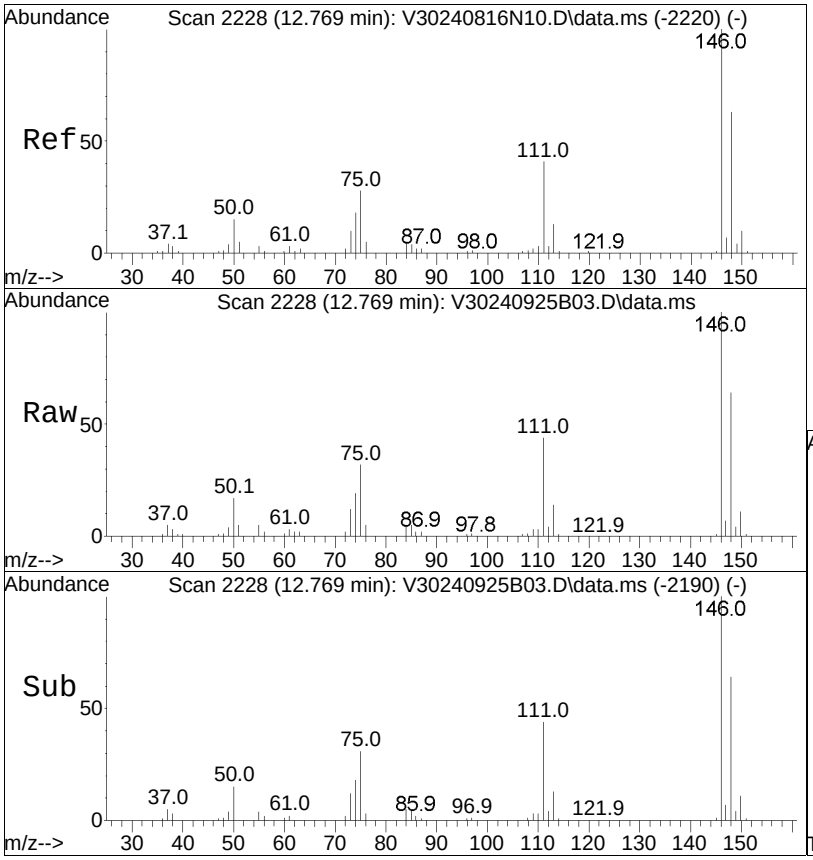


#106
1,4-Dichlorobenzene
Concen: 9.75 ug/L
RT: 12.344 min Scan# 2147
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:146 Resp: 153125

Ion	Ratio	Lower	Upper
146	100		
111	41.0	33.7	50.5
148	64.1	50.8	76.2

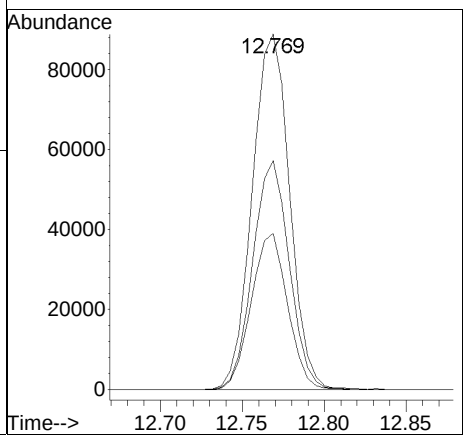


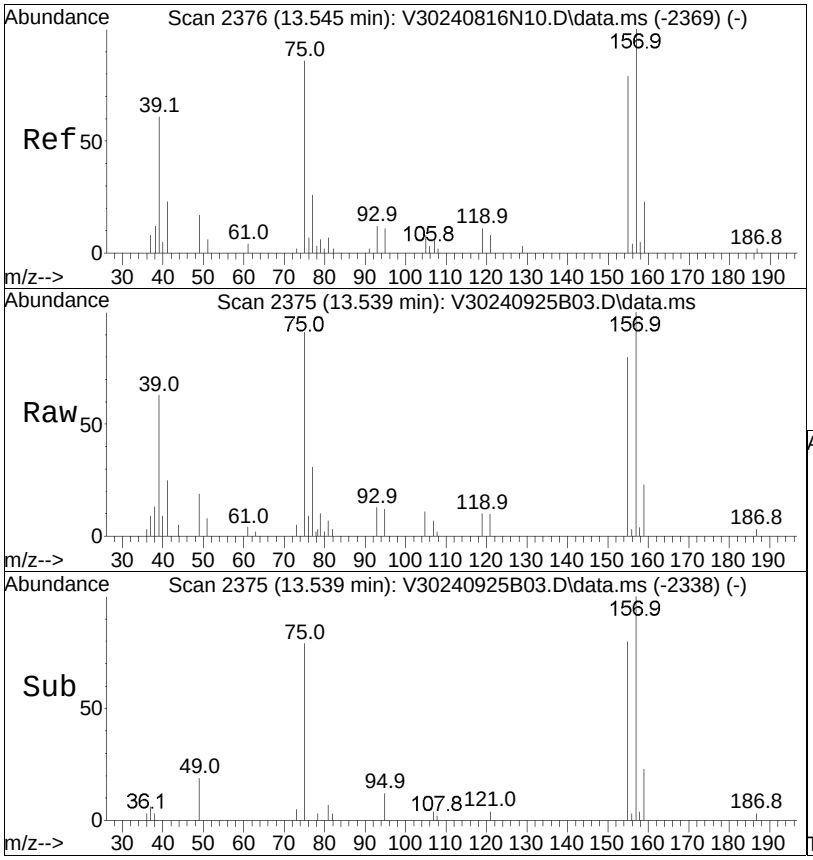


#109
1,2-Dichlorobenzene
Concen: 9.55 ug/L
RT: 12.769 min Scan# 2228
Delta R.T. -0.000 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:146 Resp: 140757

Ion	Ratio	Lower	Upper
146	100		
111	42.7	29.5	61.3
148	62.9	41.3	85.9

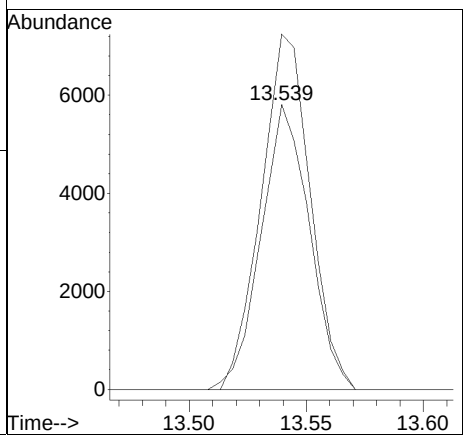


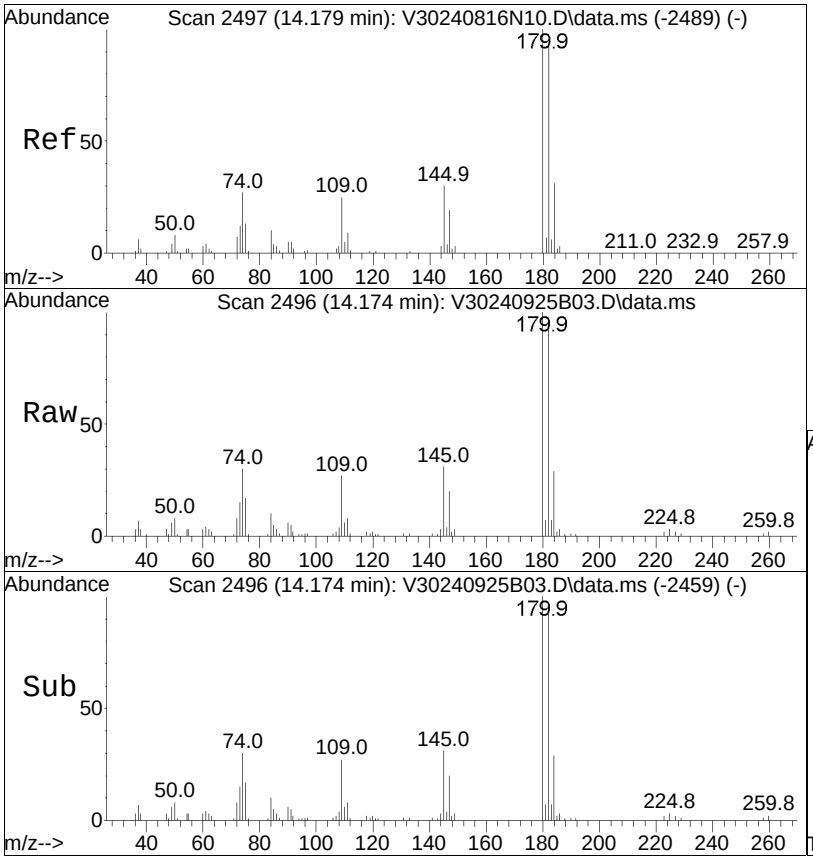


#111
1,2-Dibromo-3-chloropropane
Concen: 10.93 ug/L
RT: 13.539 min Scan# 2375
Delta R.T. -0.006 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:155 Resp: 8342

Ion	Ratio	Lower	Upper
155	100		
157	126.8	105.1	157.7

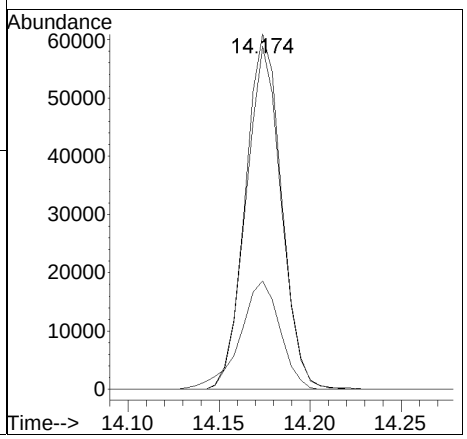


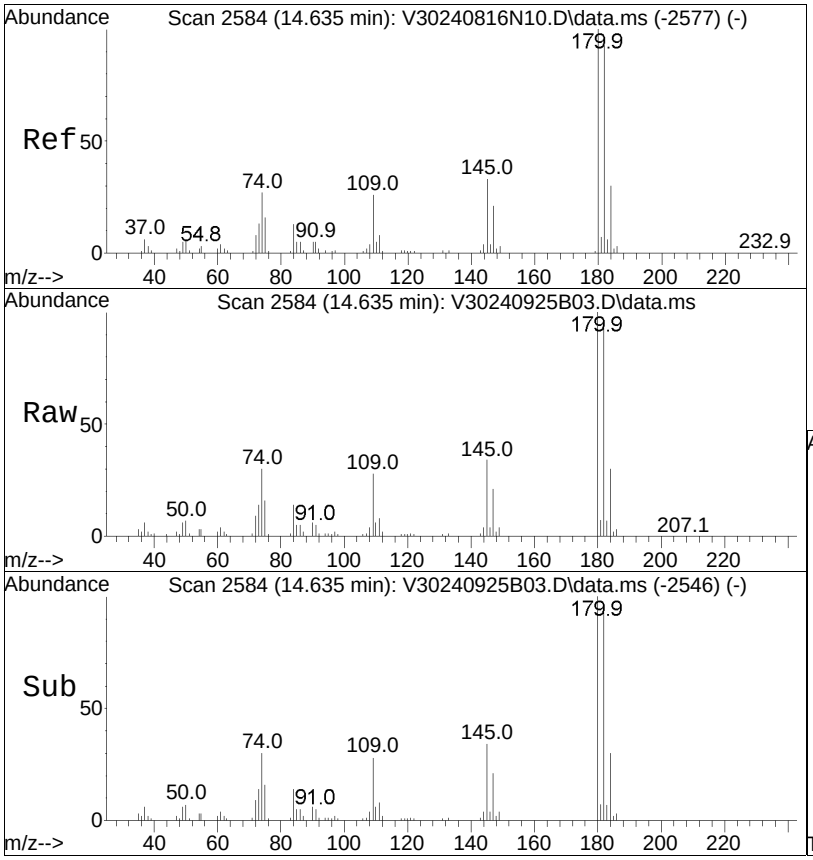


#114
1,2,4-Trichlorobenzene
Concen: 8.55 ug/L
RT: 14.174 min Scan# 2496
Delta R.T. -0.005 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:180 Resp: 84379

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.7	113.5
145	33.7	27.4	41.2

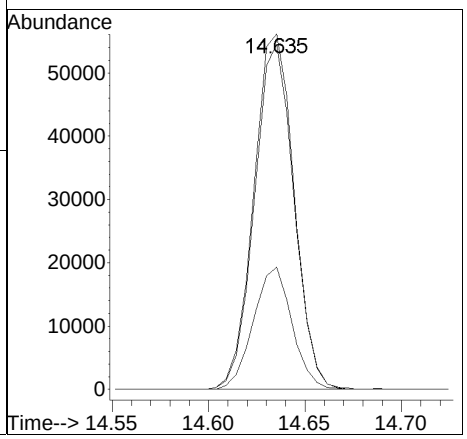




#116
1,2,3-Trichlorobenzene
Concen: 8.82 ug/L
RT: 14.635 min Scan# 2584
Delta R.T. 0.000 min
Lab File: V30240925B03.D
Acq: 25 Sep 2024 01:49 pm

Tgt Ion:180 Resp: 81613

Ion	Ratio	Lower	Upper
180	100		
182	94.8	74.9	112.3
145	33.0	26.0	39.0



Manual Integration Report

Data Path	: K:\VOA130\2024\240925B\	QMethod	: V130_240816N_8260D.m
Data File	: V30240925B03.D	Operator	: VOA130:LAC
Date Inj'd	: 9/25/2024 1:49 pm	Instrument	: VOA130
Sample	: WG1976724-4,31,10,10	Quant Date	: 9/25/2024 2:11 pm

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

Calculation of Volatile Organic Compounds

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

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

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

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

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 26 2024, 01:19 pm

Work Group: WG1976724 for Department: 31 GC/MS - Volatiles

Created: 26-SEP-24 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453915-02	WC-02	S	NYTCL-8260-R2	WATER	DONE	U	1003	0926	S0	Vial-B
L2454011-09	MW-15	S	NYSTARS-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454059-01	MW-4S	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454059-02	MW-4D2	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454059-03	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-01	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1002	0926	S0	Vial-B
L2454091-02	1S	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-03	1D	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-04	2S	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-05	2D	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-06	3S	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-09	4D	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-10	5S	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-11	5D	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-12	MW9	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
L2454091-13	DB-1	S	NYTCL-8260	WATER	DONE	U	1003	0926	S0	Vial-B
WG1976724-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1976724-1	MS BFB Tune Standard	S	NYSTARS-8260	WATER	DONE	U				
WG1976724-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1976724-2	Continuing Calibrati	S	NYSTARS-8260	WATER	DONE	U				
WG1976724-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1976724-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1976724-3	Laboratory Control S	S	NYSTARS-8260	WATER	DACQ	U				
WG1976724-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1976724-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1976724-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1976724-4	LCS Duplicate	S	NYSTARS-8260	WATER	DACQ	U				
WG1976724-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1976724-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1976724-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1976724-5	Laboratory Method Bl	S	NYSTARS-8260	WATER	DACQ	U				

Comments:

WG1976724-4 WG1976724-3

Page 1

			Method
Inst: VOA130	BFB:	V10571	GC: 8260
Initials: TMS	IS/SS:	V10600	Autosampler: 8260
Date: **08/16/24**	ICAL:	V10594B,V10606	Concentrator: 8260
Run: **N**	ICV:	V10602, V10563, V10564, V10586, V10596, V10597	QC:_____ Seq:_____

Vial	Data File	SAMPLE	pH<2
1	V30240816NBF1	BFB TUNE	
1	V30240816N01	BLK	
2	V30240816N02	BLK	
3	V30240816N03	BLK	
4	V30240816N04	I8260STD0.19PPB	
5	V30240816N05	I8260STD0.19PPB	
6	V30240816N06	I8260STD0.5PPB	
7	V30240816N07	I8260STD0.5PPB	
8	V30240816N08	I8260STD2PPB	
9	V30240816N09	I8260STD2PPB	
10	V30240816N10	I8260STD10PPB	
11	V30240816N11	I8260STD30PPB	
12	V30240816N12	I8260STD80PPB	
13	V30240816N13	I8260STD120PPB	
14	V30240816N14	I8260STD200PPB	
15	V30240816N15	BLK	
16	V30240816N16	BLK	
17	V30240816N17	BLK	
18	V30240816N18	BLK	
19	V30240816N19	C8260STD10PPB	
20	V30240816N20	C8260STD10PPB	
21	V30240816N21	BLK	

Inst: VOA130 BFB: V10678 Method GC: 8260
Initials: LAC IS/SS: V10670 Autosampler: 8260
Date: **09/25/24** ICAL: V10683A,V10678 Concentrator: 8260
Run: **B** QC:_____ Seq:_____

Vial	Data File	SAMPLE			pH<2
1	V30240925BBF1	BFB TUNE			
1	V30240925B01	8260 CCAL			
2	V30240925B02	8260 CCAL			
3	V30240925B03	8260 CCAL			
4	V30240925B04	BLK			
5	V30240925B05	METHOD BLK			
6	V30240925B06	L2453795-01,31,10,10,,A,R5H	8260NH		pH<2
7	V30240925B07	L2453915-02,31,10,10,,A	NYCURVE		pH<2
8	V30240925B08	L2454059-01,31,10,10,,A	NYCURVE		pH<2
9	V30240925B09	L2454059-02,31,10,10,,A	NYCURVE		pH<2
10	V30240925B10	L2454059-03,31,10,10,,A	NYCURVE	TB	pH<2
11	V30240925B11	L2454091-01,31,10,10,,A	NYTCL	TB	pH<2
12	V30240925B12	L2454091-02,31,10,10,,A	NYTCL		pH<2
13	V30240925B13	L2454091-03,31,10,10,,A	NYTCL		pH<2
14	V30240925B14	L2454091-04,31,10,10,,A	NYTCL		pH<2
15	V30240925B15	L2454091-05,31,10,10,,A	NYTCL		pH<2
16	V30240925B16	L2454091-06,31,10,10,,A	NYTCL		pH>2
17	V30240925B17	L2454091-11,31,10,10,,A	NYTCL		pH<2
18	V30240925B18	L2454091-12,31,10,10,,A	NYTCL		pH<2
19	V30240925B19	L2454091-08D,31,2.5,10,,A	NYTCL		pH<2
20	V30240925B20	L2454091-09D,31,4.0,10,,A	NYTCL		pH>2
21	V30240925B21	L2454091-10D,31,5.0,10,,A	NYTCL		pH<2
22	V30240925B22	L2454091-13D,31,4.0,10,,A	NYTCL		pH<2
23	V30240925B23	L2454011-09D,31,0.2,10,,C	NYSTARS		pH<2
24	V30240925B24	L2453639-10D,31,0.1,10,,A	NYTCL		pH<2
25	V30240925B25	L2453639-11D,31,0.1,10,,A	NYTCL		pH<2
26	V30240925B26	HSTD			
27	V30240925B27	BLK			
28	V30240925B28	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2454059
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-4S (L2454059-01)	10*	12	57	53	11	59	1
MW-4D2 (L2454059-02)	42	29	61	58	52	68	0
WG1976780-1BLANK	29	32	65	74	55	87	0
WG1976780-2LCS	43	37	66	75	75	80	0
WG1976780-3LCSD	55	38	60	71	81	78	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8270-RVT

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976780-2 **Analysis Date** : 09/27/24 12:52	**File ID**	: 976780-2
LCSD Sample ID	: WG1976780-3 **Analysis Date** : 09/27/24 13:14	**File ID**	: 976780-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	17.	84	20	16.	82	2	40-140	30
2,4-Dinitrotoluene	20	19.	94	20	17.	86	9	48-143	30
2,6-Dinitrotoluene	20	19.	94	20	18.	92	2	40-140	30
4-Chlorophenyl phenyl ether	20	15.	74	20	13.	67	10	40-140	30
4-Bromophenyl phenyl ether	20	16.	78	20	14.	69	12	40-140	30
Bis(2-chloroisopropyl)ether	20	16.	80	20	16.	79	1	40-140	30
Bis(2-chloroethoxy)methane	20	14.	73	20	14.	68	7	40-140	30
Hexachlorocyclopentadiene	20	11.	55	20	9.4	47	16	40-140	30
Isophorone	20	14.	69	20	13.	67	3	40-140	30
Nitrobenzene	20	14.	68	20	13.	65	5	40-140	30
NDPA/DPA	20	16.	81	20	15.	74	9	40-140	30
n-Nitrosodi-n-propylamine	20	13.	67	20	13.	66	2	29-132	30
Bis(2-ethylhexyl)phthalate	20	20.	98	20	18.	91	7	40-140	30
Butyl benzyl phthalate	20	20.	101	20	20.	98	3	40-140	30
Di-n-butylphthalate	20	21.	107	20	18.	91	16	40-140	30
Di-n-octylphthalate	20	22.	108	20	20.	99	9	40-140	30
Diethyl phthalate	20	16.	81	20	15.	76	6	40-140	30
Dimethyl phthalate	20	17.	84	20	16.	81	4	40-140	30
Biphenyl	20	14.	68	20	13.	65	5	40-140	30
4-Chloroaniline	20	13.	64	20	12.	62	3	40-140	30
2-Nitroaniline	20	19.	97	20	19.	95	2	52-143	30
3-Nitroaniline	20	18.	89	20	17.	84	6	25-145	30
4-Nitroaniline	20	18.	90	20	18.	91	1	51-143	30
Dibenzofuran	20	15.	76	20	14.	72	5	40-140	30
1,2,4,5-Tetrachlorobenzene	20	13.	64	20	12.	59	8	2-134	30
Acetophenone	20	14.	69	20	14.	68	1	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976780-2 **Analysis Date** : 09/27/24 12:52	**File ID**	: 976780-2
LCSD Sample ID	: WG1976780-3 **Analysis Date** : 09/27/24 13:14	**File ID**	: 976780-3

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	12.	62	20	17.	83	29		30-130	30
p-Chloro-m-cresol	20	16.	80	20	16.	78	3		23-97	30
2-Chlorophenol	20	14.	68	20	15.	74	8		27-123	30
2,4-Dichlorophenol	20	16.	80	20	17.	84	5		30-130	30
2,4-Dimethylphenol	20	11.	56	20	10.	52	7		30-130	30
2-Nitrophenol	20	18.	90	20	18.	90	0		30-130	30
4-Nitrophenol	20	3.3	16	20	7.6	38	81	Q	10-80	30
2,4-Dinitrophenol	20	8.4	42	20	22.	110	89	Q	20-130	30
4,6-Dinitro-o-cresol	20	11.	53	20	20.	98	60	Q	20-164	30
Phenol	20	7.9	40	20	7.9	40	0		12-110	30
2-Methylphenol	20	14.	71	20	14.	70	1		30-130	30
3-Methylphenol/4-Methylphenol	20	13.	65	20	13.	64	2		30-130	30
2,4,5-Trichlorophenol	20	15.	74	20	19.	93	23		30-130	30
Carbazole	20	18.	88	20	16.	82	7		55-144	30
Atrazine	20	17.	86	20	16.	78	10		40-140	30
Benzaldehyde	20	12.	59	20	12.	60	2		40-140	30
Caprolactam	20	10.	50	20	10.	51	2		10-130	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976780-1	**Lab File ID**	: 976780-1
Instrument ID	: SV112	**Extraction Date**	: 09/26/24
Matrix	: WATER	**Analysis Date**	: 09/27/24 12:29
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1976780-2LCS	WG1976780-2	09/27/24 12:52
WG1976780-3LCSD	WG1976780-3	09/27/24 13:14
MW-4S	L2454059-01	09/28/24 07:33
MW-4D2	L2454059-02	09/28/24 07:58

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/02/24 19:09
Tune Standard	: R1836615-1	**Tune File ID**	: Tune1_tune

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

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

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

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/03/24 04:04
Tune Standard	: R1836615-2	**Tune File ID**	: Tune2_tune

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

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

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

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/27/24 23:03
Tune Standard	: WG1977425-1	**Tune File ID**	: DEG0927n_tune

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

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1977425-6TFACTOR-P	WG1977425-6	DEG0927N	09/27/24 23:03
WG1977425-7TFACTOR-B	WG1977425-7	DEG0927N	09/27/24 23:03
WG1977425-3CCAL	WG1977425-3	ABN0927N	09/27/24 23:28
WG1977425-4CCAL	WG1977425-4	AP90927N	09/27/24 23:54
WG1977425-5CCAL	WG1977425-5	ADP0927N	09/28/24 00:19
MW-4S	L2454059-01	54059-01	09/28/24 07:33
MW-4D2	L2454059-02	54059-02	09/28/24 07:58

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 06/25/24 19:55
Tune Standard	: R1846237-4	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.4
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	44.6
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	28.2
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than 24% of mass 442	17.5
442	Base Peak, or >50% of mass 198	74
443	15.0 - 24.0% of mass 442	14.8 (20)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1846237-14	ABNL9	06/25/24 20:18
ABNL8	R1846237-13	ABNL8	06/25/24 20:41
ABNL7	R1846237-12	ABNL7	06/25/24 21:04
ABNL6	R1846237-11	ABNL6	06/25/24 21:27
ABNL5	R1846237-10	ABNL5	06/25/24 21:50
ABNL4	R1846237-9	ABNL4	06/25/24 22:14
ABNL3	R1846237-8	ABNL3	06/25/24 22:37
ABNL2	R1846237-7	ABNL2	06/25/24 23:00
ABNL1	R1846237-6	ABNL1	06/25/24 23:23
AP9L9	R1846237-32	AP9L9	06/25/24 23:47
AP9L8	R1846237-31	AP9L8	06/26/24 00:10
AP9L7	R1846237-29	AP9L7	06/26/24 00:33
AP9L6	R1846237-30	AP9L6	06/26/24 00:56
AP9L5	R1846237-28	AP9L5	06/26/24 01:19
AP9L4	R1846237-27	AP9L4	06/26/24 01:43
AP9L3	R1846237-25	AP9L3	06/26/24 02:06
AP9L2	R1846237-26	AP9L2	06/26/24 02:29
AP9L1	R1846237-24	AP9L1	06/26/24 02:52
ABN ICV Quant Report	R1846237-1	ABNICV	06/26/24 03:16
AP9 ICV Quant Report	R1846237-3	AP9ICV	06/26/24 03:39

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 06/26/24 04:02
Tune Standard	: R1846237-5	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	33.5
68	Less than 2.0% of mass 69	0.5 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	44.2
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 60.0% of Base Peak	28
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	17.2
442	Base Peak, or >50% of mass 198	74.9
443	15.0 - 24.0% of mass 442	14.9 (19.9)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1846237-23	ADPL9	06/26/24 04:25
ADPL8	R1846237-22	ADPL8	06/26/24 04:48
ADPL7	R1846237-20	ADPL7	06/26/24 05:11
ADPL6	R1846237-21	ADPL6	06/26/24 05:35
ADPL5	R1846237-18	ADPL5	06/26/24 05:58
ADPL4	R1846237-19	ADPL4	06/26/24 06:21
ADPL3	R1846237-17	ADPL3	06/26/24 06:44
ADPL2	R1846237-16	ADPL2	06/26/24 07:08
ADPL1	R1846237-15	ADPL1	06/26/24 07:31
ADP ICV Quant Report	R1846237-2	ADPICV	06/26/24 07:54

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 09/27/24 10:58
Tune Standard	: WG1977240-1	**Tune File ID**	: DEG0927_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	28.7
68	Less than 2.0% of mass 69	0.4 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.1 (.5)1
127	10.0 - 80.0% of Base Peak	42.5
197	Less than 2.0% of mass 198	0.8
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	28.4
365	Greater than 1.0% of mass 198	3.7
441	Present, but less than 24% of mass 442	17.5
442	Base Peak, or >50% of mass 198	91.6
443	15.0 - 24.0% of mass 442	18.4 (20.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1977240-6TFACTOR-B	WG1977240-6	DEG0927	09/27/24 10:58
WG1977240-7TFACTOR-P	WG1977240-7	DEG0927	09/27/24 10:58
WG1977240-3CCAL	WG1977240-3	ABN0927	09/27/24 11:20
WG1977240-4CCAL	WG1977240-4	AP90927	09/27/24 11:43
WG1977240-5CCAL	WG1977240-5	ADP0927	09/27/24 12:06
WG1976780-1BLANK	WG1976780-1	976780-1	09/27/24 12:29
WG1976780-2LCS	WG1976780-2	976780-2	09/27/24 12:52
WG1976780-3LCSD	WG1976780-3	976780-3	09/27/24 13:14

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 09/27/24 11:20:00
Sample No	: WG1977240-3	**Lab File ID**	: ABN0927

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1977240-3	23724	4.68	87995	5.91	59162	7.61
Upper Limit	47448	5.18	175990	6.41	118324	8.11
Lower Limit	11862	4.18	43998	5.41	29581	7.11
Sample ID						
WG1977240-4 CCAL	21185	4.68	80947	5.91	51656	7.61
WG1977240-5 CCAL	20154	4.68	-	-	49766	7.61
WG1976780-1 BLANK	26388	4.68	96762	5.92	61567	7.61
WG1976780-2 LCS	23469	4.68	87204	5.92	55988	7.61
WG1976780-3 LCSD	20410	4.68	75994	5.91	50104	7.61

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 09/27/24 11:20:00
Sample No	: WG1977240-3	**Lab File ID**	: ABN0927

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1977240-3	129228	9.04	146679	11.67	167853	13.13
Upper Limit	258456	9.54	293358	12.17	335706	13.63
Lower Limit	64614	8.54	73340	11.17	83927	12.63
Sample ID						
WG1977240-4 CCAL	114777	9.04	-	-	-	-
WG1977240-5 CCAL	115148	9.04	-	-	-	-
WG1976780-1 BLANK	134046	9.04	158578	11.66	182628	13.13
WG1976780-2 LCS	123076	9.04	139246	11.66	161790	13.13
WG1976780-3 LCSD	107442	9.04	126654	11.66	151280	13.13

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/27/24 23:28:00
Sample No	: WG1977425-3	**Lab File ID**	: ABN0927N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1977425-3	14778	6.48	54938	7.89	33659	9.65
Upper Limit	29556	6.98	109876	8.39	67318	10.15
Lower Limit	7389	5.98	27469	7.39	16830	9.15
Sample ID						
WG1977425-4 CCAL	12952	6.48	49162	7.89	29254	9.65
WG1977425-5 CCAL	12831	6.47	-	-	29357	9.65
MW-4S	15719	6.47	58879	7.89	35099	9.65
MW-4D2	15807	6.47	59156	7.89	36030	9.65

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/27/24 23:28:00
Sample No	: WG1977425-3	**Lab File ID**	: ABN0927N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1977425-3	70037	11.09	61504	13.73	65134	15.20
Upper Limit	140074	11.59	123008	14.23	130268	15.70
Lower Limit	35019	10.59	30752	13.23	32567	14.70
Sample ID						
WG1977425-4 CCAL	61619	11.09	-	-	-	-
WG1977425-5 CCAL	61933	11.09	-	-	-	-
MW-4S	71768	11.09	64129	13.73	62316	15.21
MW-4D2	73657	11.09	72920	13.73	69202	15.20

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

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

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

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

ABN Extractables - EPA 8270E (WATER)

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

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

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

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ABN Extractables - EPA 8270E (SOIL)

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

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

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 07:33
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 54059-01	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 07:33
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 54059-01	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 07:58
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 54059-02	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 07:58
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 54059-02	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976780-1	**Date Collected**	: NA
Client ID	: WG1976780-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 12:29
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 976780-1	**Analyst**	: IM
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976780-1	**Date Collected**	: NA
Client ID	: WG1976780-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 12:29
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 976780-1	**Analyst**	: IM
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54059-01.D
Acq On : 28 Sep 2024 7:33 am
Operator : SV107:jg
Sample : L2454059-01,32,,ASK,sc(ok)
Misc : WG1977425,WG1976780,ical21169
ALS Vial : 17 Sample Multiplier: 1

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

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.469	152	15719	4.000	ug/ml	0.00
Standard Area 1 = 14778			Recovery = 106.37%			
27) IS2_1,4-Dichlorobenzen...	6.469	152	15719	4.000	ug/ml	0.00
Standard Area 3 = 12952			Recovery = 121.36%			
35) IS1_Naphthalene-d8	7.892	136	58879	4.000	ug/ml	0.00
Standard Area 1 = 54938			Recovery = 107.17%			
55) IS2_Naphthalene-d8	7.892	136	58879	4.000	ug/ml	0.00
Standard Area 3 = 49162			Recovery = 119.77%			
63) IS1_Acenaphthene-d10	9.651	164	35099	4.000	ug/ml	0.00
Standard Area 1 = 33659			Recovery = 104.28%			
83) IS2_Acenaphthene-d10	9.651	164	35099	4.000	ug/ml	0.00
Standard Area 3 = 29254			Recovery = 119.98%			
86) IS3_Acenaphthene-d10	9.651	164	35099	4.000	ug/ml	0.00
Standard Area 2 = 29357			Recovery = 119.56%			
88) IS1_Phenanthrene-d10	11.092	188	71768	4.000	ug/ml	0.00
Standard Area 1 = 70037			Recovery = 102.47%			
100) IS3_Phenanthrene-d10	11.092	188	71768	4.000	ug/ml	0.00
Standard Area 2 = 61933			Recovery = 115.88%			
104) IS1_Chrysene-d12	13.733	240	64129	4.000	ug/ml	0.00
Standard Area 1 = 61504			Recovery = 104.27%			
113) IS1_Perylene-d12	15.209	264	62316	4.000	ug/ml	0.01
Standard Area 1 = 65134			Recovery = 95.67%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.622	112	874	0.206	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.30%#			
7) Phenol-d6	6.098	99	1372	0.247	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 12.35%#			
19) Nitrobenzene-d5	7.128	82	3064	0.570	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.00%			
46) 2-Fluorobiphenyl	9.010	172	6998	0.528	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.80%			
79) 2,4,6-Tribromophenol	10.422	330	369M2	0.225	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.25%#			
96) 4-Terphenyl-d14	12.668	244	10028	0.591	ug/ml	0.00

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54059-01.D
Acq On : 28 Sep 2024 7:33 am
Operator : SV107:jg
Sample : L2454059-01,32,,ASK,sc(ok)
Misc : WG1977425,WG1976780,ical21169
ALS Vial : 17 Sample Multiplier: 1

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

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.10%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.		
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54059-01.D
Acq On : 28 Sep 2024 7:33 am
Operator : SV107:jg
Sample : L2454059-01,32,,ASK,sc(ok)
Misc : WG1977425,WG1976780,ical21169
ALS Vial : 17 Sample Multiplier: 1

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

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0		N.D.	
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
109) Di-n-octylphthalate	0.000		0		N.D.	

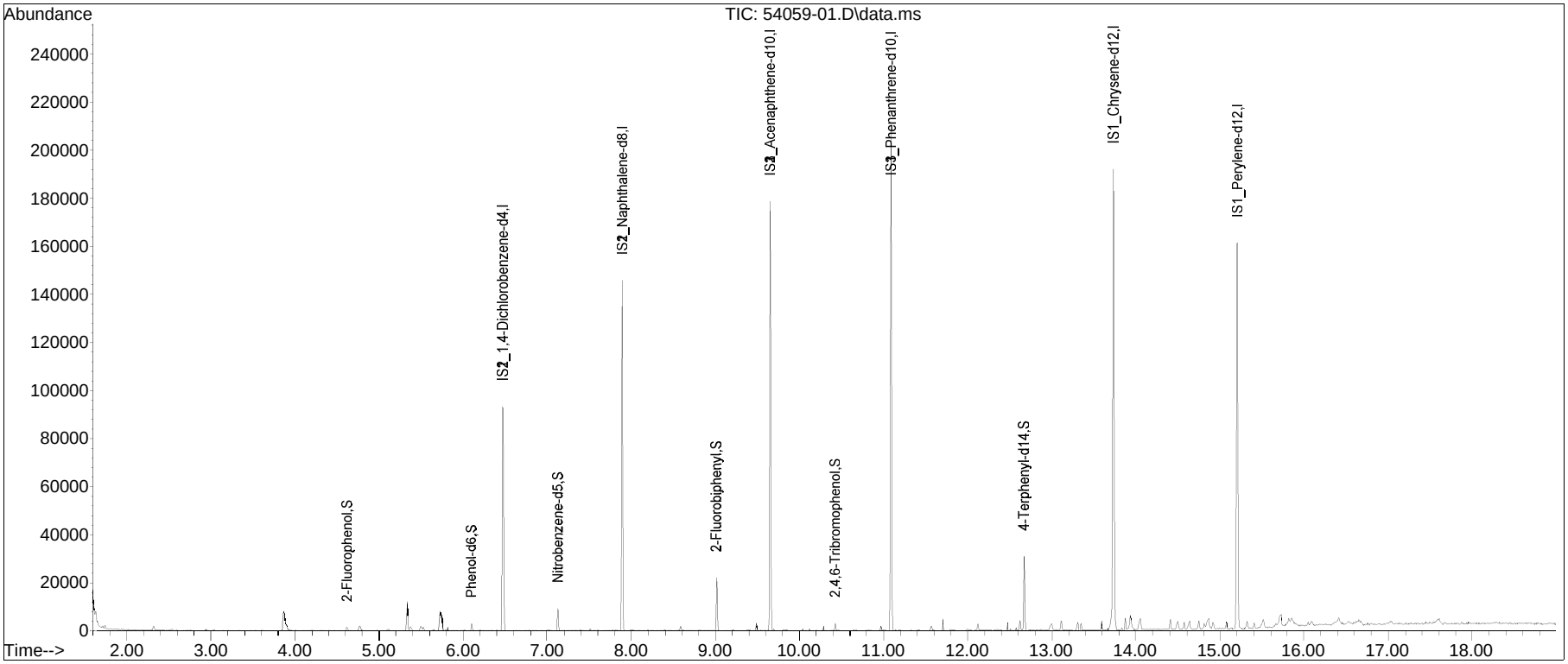
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54059-01.D
Acq On : 28 Sep 2024 7:33 am
Operator : SV107:jg
Sample : L2454059-01,32,,ASK,sc(ok)
Misc : WG1977425,WG1976780,ical21169
ALS Vial : 17 Sample Multiplier: 1

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

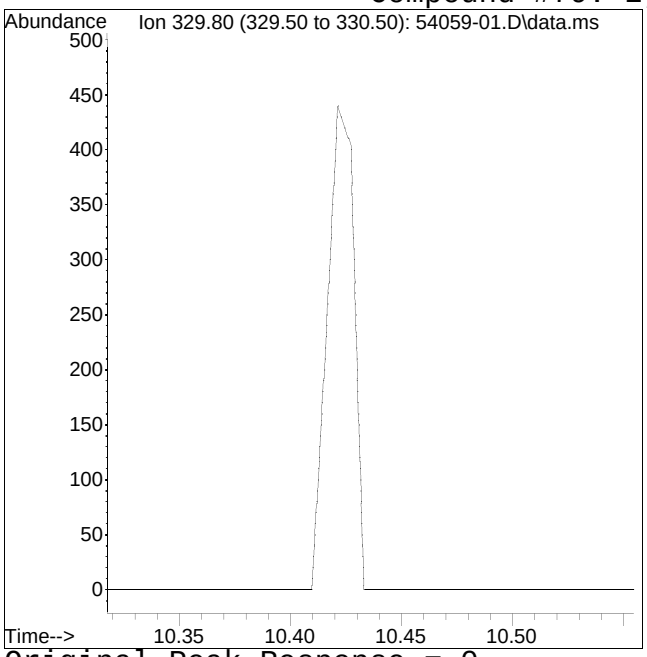
Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90927n.D•



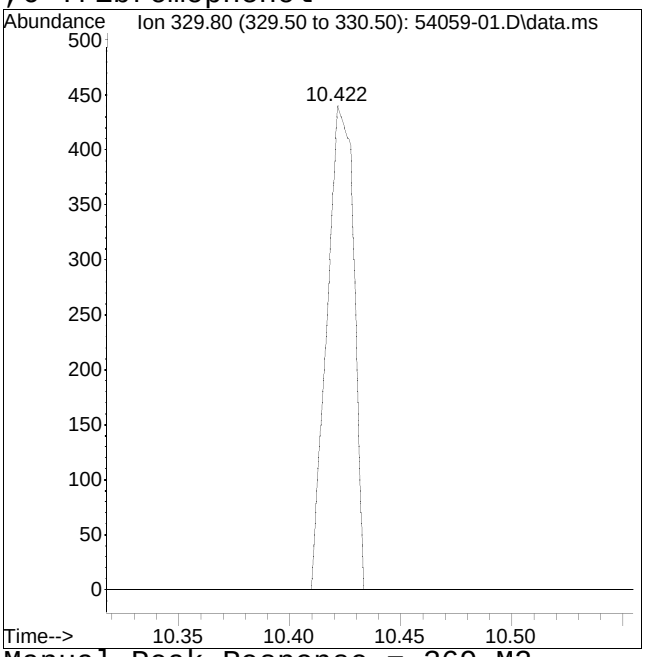
Manual Integration Report

Data Path : I:\8270\SV107\240927NRVT\ QMethod : FS240730SV107RVT.m
Data File : 54059-01.D Operator : SV107:jg
Date Inj'd : 9/28/2024 7:33 am Instrument : SV107
Sample : L2454059-01,32,,ASK,sc(ok) Quant Date : 9/28/2024 8:02 am

Compound #79: 2,4,6-Tribromophenol



Original Peak Response = 0



Manual Peak Response = 369 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54059-02.D
Acq On : 28 Sep 2024 7:58 am
Operator : SV107:jg
Sample : L2454059-02,32,,ASK
Misc : WG1977425,WG1976780,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 28 14:02:38 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.469	152	15807	4.000	ug/ml	0.00
Standard Area 1 = 14778			Recovery = 106.96%			
27) IS2_1,4-Dichlorobenzen...	6.469	152	15807	4.000	ug/ml	0.00
Standard Area 3 = 12952			Recovery = 122.04%			
35) IS1_Naphthalene-d8	7.892	136	59156	4.000	ug/ml	0.00
Standard Area 1 = 54938			Recovery = 107.68%			
55) IS2_Naphthalene-d8	7.892	136	59156	4.000	ug/ml	0.00
Standard Area 3 = 49162			Recovery = 120.33%			
63) IS1_Acenaphthene-d10	9.651	164	36030	4.000	ug/ml	0.00
Standard Area 1 = 33659			Recovery = 107.04%			
83) IS2_Acenaphthene-d10	9.651	164	36030	4.000	ug/ml	0.00
Standard Area 3 = 29254			Recovery = 123.16%			
86) IS3_Acenaphthene-d10	9.651	164	36030	4.000	ug/ml	0.00
Standard Area 2 = 29357			Recovery = 122.73%			
88) IS1_Phenanthrene-d10	11.092	188	73657	4.000	ug/ml	0.00
Standard Area 1 = 70037			Recovery = 105.17%			
100) IS3_Phenanthrene-d10	11.092	188	73657	4.000	ug/ml	0.00
Standard Area 2 = 61933			Recovery = 118.93%			
104) IS1_Chrysene-d12	13.727	240	72920	4.000	ug/ml	0.00
Standard Area 1 = 61504			Recovery = 118.56%			
113) IS1_Perylene-d12	15.204	264	69202	4.000	ug/ml	0.00
Standard Area 1 = 65134			Recovery = 106.25%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.622	112	3621	0.848	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.40%			
7) Phenol-d6	6.098	99	3291	0.589	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.45%			
19) Nitrobenzene-d5	7.128	82	3293	0.609	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.90%			
46) 2-Fluorobiphenyl	9.010	172	7771	0.584	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 58.40%			
79) 2,4,6-Tribromophenol	10.422	330	1767	1.047	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 52.35%			
96) 4-Terphenyl-d14	12.669	244	11781	0.676	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 67.60%			

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54059-02.D
Acq On : 28 Sep 2024 7:58 am
Operator : SV107:jg
Sample : L2454059-02,32,,ASK
Misc : WG1977425,WG1976780,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 28 14:02:38 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

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

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

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54059-02.D
Acq On : 28 Sep 2024 7:58 am
Operator : SV107:jg
Sample : L2454059-02,32,,ASK
Misc : WG1977425,WG1976780,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 28 14:02:38 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

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

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

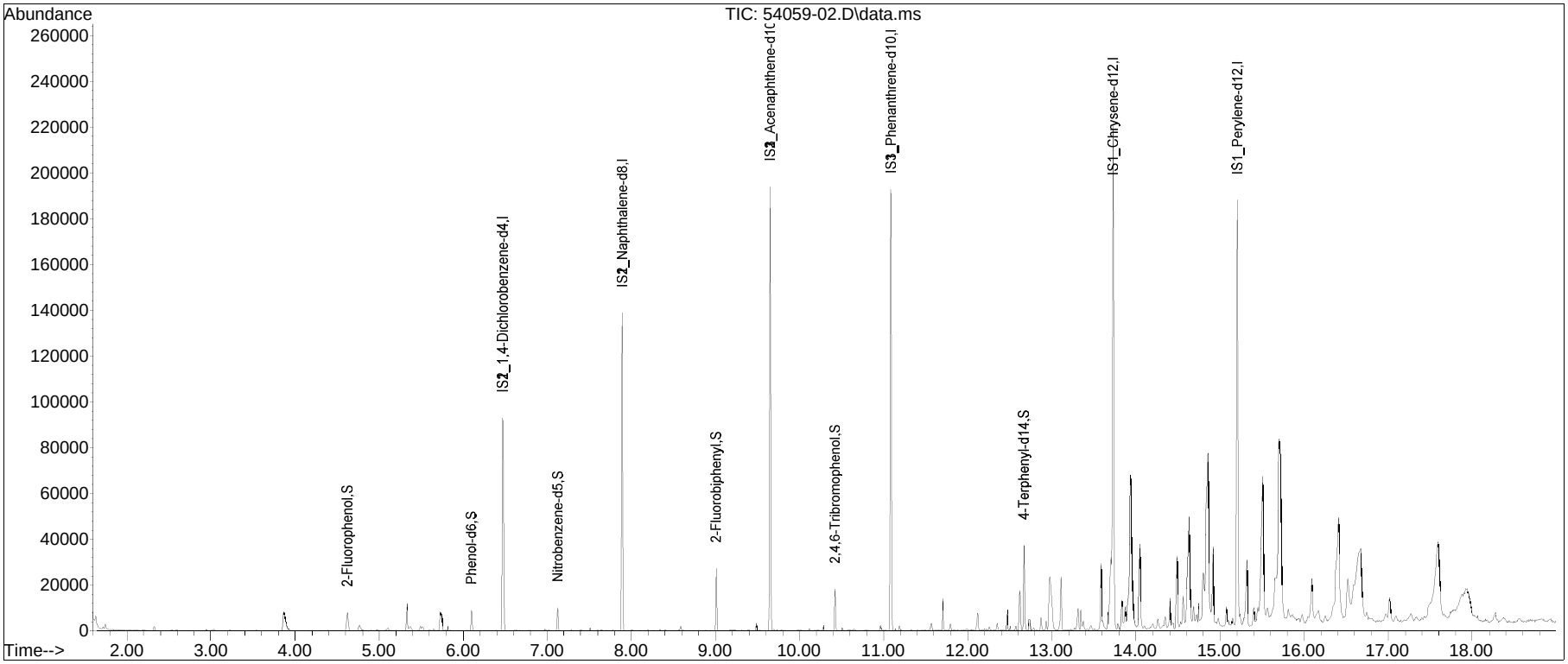
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54059-02.D
Acq On : 28 Sep 2024 7:58 am
Operator : SV107:jg
Sample : L2454059-02,32,,ASK
Misc : WG1977425,WG1976780,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 28 14:02:38 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: I:\8270\SV107\240927NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: 54059-02.D	Operator	: SV107:jg
Date Inj'd	: 9/28/2024 7:58 am	Instrument	: SV107
Sample	: L2454059-02,32,,ASK	Quant Date	: 9/28/2024 8:18 am

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

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

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

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

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

L8 =AP9L8.D L9 =AP9L9.D

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

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

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

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

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

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

L8 =AP9L8.D L9 =AP9L9.D

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

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL21241**
Calibration dates	**: 06/25/24 20:18 06/26/24 07:31**		

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	T	N-Nitrosodimethylamine	0.562	0.547	0.668	0.671	0.658	0.715	0.737	0.691	0.666	0.657	9.69
3)	T	Pyridine	0.765	0.804	1.096	1.064	1.020	1.187	1.214	1.164	1.068	1.043	15.30
4)	S	2-Fluorophenol	1.042	0.902	1.137	1.062	1.020	1.069	1.112	1.061	1.048	1.050	6.30
5)	T	Aniline	2.034	1.689	1.779	1.844	1.753	1.761	1.854	1.790	1.794	1.811	5.35
6)	T	2-Chlorophenol	1.446	1.123	1.293	1.241	1.188	1.224	1.274	1.223	1.242	1.251	7.06
7)	S	Phenol-d6	1.528	1.195	1.365	1.305	1.289	1.368	1.414	1.357	1.387	1.357	6.75
8)	T	Phenol	1.817	1.428	1.559	1.538	1.527	1.566	1.627	1.557	1.574	1.577	6.62
9)	T	bis(2-Chloroethyl)ether	1.421	1.058	1.219	1.151	1.143	1.120	1.163	1.115	1.115	1.167	8.96
10)	T	1,3-Dichlorobenzene	1.825	1.427	1.538	1.518	1.438	1.487	1.482	1.424	1.436	1.508	8.33
11)	T	1,4-Dichlorobenzene	1.923	1.640	1.694	1.536	1.486	1.486	1.516	1.438	1.453	1.575	9.88
12)	T	1,2-Dichlorobenzene	1.745	1.340	1.594	1.450	1.424	1.428	1.446	1.404	1.447	1.475	8.21
13)	T	Benzyl alcohol	0.853	0.833	0.903	0.958	0.947	0.948	1.013	1.009	1.039	0.945	7.55
14)	T	bis(2-chloroisopropyl)ether	1.542	1.444	1.529	1.423	1.507	1.427	1.472	1.462	1.466	1.475	2.91
15)	T	2-Methylphenol	1.068	0.979	1.057	1.054	1.005	1.051	1.101	1.074	1.118	1.056	4.08
16)	T	Hexachloroethane	0.605	0.534	0.540	0.589	0.515	0.542	0.556	0.550	0.587	0.558	5.34
17)	T	n-Nitrosodi-n-propylamine	0.857	0.797	0.848	0.850	0.863	0.844	0.894	0.895	0.940	0.865	4.65
18)	T	3-Methylphenol/4-Methylphenol	1.109	1.056	1.147	1.130	1.122	1.166	1.205	1.181	1.237	1.150	4.72
19)	S	Nitrobenzene-d5	1.364	1.174	1.284	1.255	1.256	1.289	1.357	1.316	1.350	1.294	4.73
20)	T	Nitrobenzene	1.374	1.167	1.255	1.249	1.268	1.288	1.348	1.313	1.342	1.289	4.92
21)	T	Isophorone	2.526	2.023	2.282	2.274	2.361	2.267	2.412	2.399	2.410	2.328	6.09
22)	T	2-Nitrophenol	0.572	0.455	0.543	0.529	0.574	0.574	0.614	0.643	0.665	0.574	10.96
23)	T	2,4-Dimethylphenol	1.050	0.967	1.174	1.119	1.111	1.004	1.135	1.146	1.205	1.101	7.16
24)	T	bis(2-Chloroethoxy)methane	1.755	1.546	1.604	1.513	1.557	1.463	1.547	1.531	1.587	1.567	5.19
25)	T	2,4-Dichlorophenol	1.200	1.008	1.072	1.112	1.136	1.123	1.219	1.218	1.285	1.153	7.42
26)	T	1,2,4-Trichlorobenzene	1.821	1.484	1.450	1.478	1.378	1.332	1.381	1.373	1.442	1.460	9.94
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.040	0.972	1.109	1.072	1.093	1.082	1.162	1.162	1.149	1.094	5.70
29)	T	Acetophenone	1.672	1.587	1.917	1.903	1.905	1.998	2.059	2.064	2.024	1.903	8.87
30)	T	m-Toluidine	1.624	1.422	1.775	1.781	1.812	1.920	2.030	2.045	2.045	1.828	11.53
31)	T	2-Chloroaniline	1.694	1.374	1.765	1.690	1.753	1.785	1.883	1.869	1.863	1.742	8.93
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane		0.421	0.595	0.567	0.467	0.415	0.448	0.424	0.426	0.470	15.01
34)	T	n-Decane	1.220	0.970	1.192	1.255	1.127	1.060	1.191	1.145	1.149	1.145	7.58
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.266	1.035	1.152	1.087	1.005	0.997	1.043	0.966	0.888	1.049	10.49

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL21241**
Calibration dates	**: 06/25/24 20:18 06/26/24 07:31**		

Calibration Files

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

L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T	Benzoic Acid					0.129	0.163	0.217	0.243	0.251	*L	0.9992
38) T	4-Chloroaniline	0.080	0.126	0.116	0.116	0.123	0.117	0.126	0.128	0.129	0.118	12.79
39) T	Hexachlorobutadiene	0.283	0.225	0.275	0.254	0.226	0.226	0.241	0.236	0.246	0.246	8.74
40) T	p-Chloro-m-cresol	0.262	0.248	0.265	0.272	0.279	0.270	0.296	0.299	0.302	0.277	6.77
41) T	2-Methylnaphthalene	0.846	0.703	0.755	0.742	0.670	0.650	0.700	0.683	0.670	0.713	8.47
42) T	1-Methylnaphthalene	0.316	0.233	0.258	0.237	0.231	0.218	0.236	0.235	0.243	0.245	11.70
43) T	Hexachlorocyclopentadiene	0.245	0.228	0.273	0.253	0.241	0.226	0.253	0.261	0.279	0.251	7.32
44) T	2,4,6-Trichlorophenol	0.256	0.222	0.245	0.252	0.255	0.249	0.272	0.275	0.281	0.256	7.06
45) T	2,4,5-Trichlorophenol	0.242	0.215	0.272	0.252	0.257	0.258	0.278	0.287	0.301	0.262	9.81
46) S	2-Fluorobiphenyl	1.108	0.906	0.959	0.931	0.893	0.820	0.871	0.845	0.809	0.904	10.04
47) T	2-Chloronaphthalene	0.947	0.735	0.788	0.772	0.738	0.697	0.735	0.717	0.699	0.759	10.11
48) T	2-Nitroaniline	0.189	0.160	0.201	0.186	0.193	0.191	0.219	0.231	0.235	0.200	11.96
49) T	1,4-Dinitrobenzene	0.083	0.069	0.090	0.093	0.097	0.095	0.111	0.122	0.125	0.098	18.43
50) T	1,3-Dinitrobenzene	0.094	0.088	0.105	0.107	0.111	0.110	0.126	0.138	0.147	0.114	17.21
51) T	Dimethyl phthalate	1.140	0.882	1.009	0.933	0.924	0.827	0.876	0.885	0.829	0.923	10.69
52) T	Acenaphthylene	1.278	1.043	1.196	1.115	1.136	1.059	1.125	1.115	1.011	1.120	7.23
53) T	2,6-Dinitrotoluene	0.173	0.138	0.163	0.165	0.177	0.163	0.181	0.195	0.199	0.173	10.72
54) T	1,2-Dinitrobenzene			0.062	0.068	0.072	0.070	0.080	0.088	0.091	0.076	14.13
55) I	IS2_Naphthalene-d8	----------ISTD----------										
56) T	a-Terpineol	0.269	0.222	0.274	0.268	0.264	0.279	0.299	0.310	0.310	0.277	9.94
57) T	3-Chloroaniline		0.104	0.168	0.149	0.143	0.149	0.158	0.163	0.168	0.150	13.96
58) T	2,6-Dichlorophenol	0.313	0.261	0.306	0.302	0.317	0.335	0.366	0.365	0.371	0.326	11.19
59) T	1-chloro-2-nitrobenzene	0.113	0.111	0.143	0.146	0.133	0.146	0.162	0.167	0.168	0.143	14.67
60) T	Caprolactam				0.126	0.131	0.155	0.174	0.178	0.183	*L	0.9990
61) T	1,2,4,5-Tetrachlorobenzene	0.481	0.431	0.503	0.503	0.461	0.474	0.493	0.488	0.478	0.479	4.71
62) T	Biphenyl	1.095	0.927	1.090	1.060	1.016	1.018	1.066	1.031	0.935	1.026	5.96
63) I	IS1_Acenaphthene-d10	----------ISTD----------										
64) T	3-Nitroaniline	0.252	0.237	0.287	0.294	0.299	0.308	0.339	0.336	0.337	0.299	12.23
65) T	Acenaphthene	1.314	1.113	1.226	1.123	1.053	1.036	1.084	1.054	1.029	1.115	8.64
66) T	2,4-Dinitrophenol			0.079	0.095	0.133	0.147	0.168	0.191	0.195	*Q	0.9985
67) T	Dibenzofuran	2.211	1.799	2.086	1.945	1.751	1.726	1.777	1.698	1.542	1.837	11.29
68) T	2,4-Dinitrotoluene	0.319	0.294	0.352	0.365	0.387	0.389	0.418	0.459	0.468	0.383	15.30
69) T	4-Nitrophenol	0.317	0.249	0.284	0.274	0.264	0.286	0.308	0.313	0.311	0.290	8.32
70) T	2,3,5,6-Tetrachlorophenol	0.349	0.273	0.359	0.360	0.382	0.387	0.416	0.430	0.434	0.377	13.18
71) T	2,3,4,6-Tetrachlorophenol	0.327	0.272	0.371	0.360	0.389	0.365	0.400	0.421	0.424	0.370	12.93
72) T	Diethyl phthalate	1.798	1.445	1.599	1.494	1.494	1.341	1.413	1.434	1.361	1.487	9.42

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL21241**
Calibration dates	**: 06/25/24 20:18 06/26/24 07:31**		

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
73)	T	Fluorene	1.722	1.358	1.548	1.423	1.385	1.344	1.395	1.386	1.317	1.431	8.89	
74)	T	4-Chlorophenyl-phenylether	0.957	0.826	0.818	0.791	0.738	0.691	0.715	0.740	0.741	0.780	10.31	
75)	T	4-Nitroaniline	0.243	0.230	0.295	0.325	0.330	0.334	0.361	0.368	0.344	0.314	15.56	
76)	T	4,6-Dinitro-o-cresol		0.090	0.161	0.181	0.205	0.204	0.232	0.261	0.263		*L	0.9966
77)	T	NDPA/DPA	1.445	1.148	1.297	1.268	1.198	1.152	1.215	1.205	1.148	1.231	7.78	
78)	T	Azobenzene	1.524	1.129	1.373	1.336	1.302	1.260	1.305	1.296	1.220	1.305	8.30	
79)	S	2,4,6-Tribromophenol			0.253	0.239	0.249	0.236	0.255	0.277	0.288	0.257	7.47	
80)	T	4-Bromophenyl-phenylether	0.639	0.500	0.517	0.492	0.471	0.440	0.462	0.485	0.490	0.500	11.37	
81)	T	Hexachlorobenzene	0.879	0.616	0.680	0.640	0.584	0.529	0.554	0.574	0.592	0.628	16.66	
82)	T	Pentachlorophenol			0.259	0.272	0.303	0.302	0.345	0.384	0.391	0.322	16.23	
83)	I	IS2_Acenaphthene-d10	----------ISTD----------											
84)	T	Dichloran				0.160	0.184	0.198	0.225	0.256	0.269		*L	0.9964
85)	T	Pentachloronitrobenzene			0.200	0.205	0.213	0.226	0.246	0.272	0.282	0.235	13.89	
86)	I	IS3_Acenaphthene-d10	----------ISTD----------											
87)	T	Atrazine	0.389	0.299	0.438	0.468	0.450	0.397	0.506	0.509	0.516	0.441	16.04	
88)	I	IS1_Phenanthrene-d10	----------ISTD----------											
89)	T	Phenanthrene	1.320	1.071	1.173	1.090	1.015	1.012	1.045	0.947	0.850	1.058	12.62	
90)	T	Anthracene	1.256	1.017	1.087	1.043	1.001	0.996	1.069	0.971	0.876	1.035	9.97	
91)	T	Carbazole	1.052	0.896	1.012	0.948	0.942	0.948	1.001	0.904	0.827	0.948	7.18	
92)	T	Di-n-butylphthalate	1.109	0.955	1.058	1.048	1.078	0.981	1.100	1.066	0.910	1.034	6.68	
93)	T	Fluoranthene	1.499	1.186	1.326	1.251	1.214	1.178	1.266	1.147	0.982	1.228	11.39	
94)	T	Benzidine	0.637	0.494	0.641	0.646	0.698	0.700	0.797	0.760	0.702	0.675	12.87	
95)	T	Pyrene	1.601	1.214	1.406	1.321	1.304	1.289	1.345	1.209	1.024	1.301	12.03	
96)	S	4-Terphenyl-d14	1.228	0.991	1.112	1.049	1.046	0.959	1.026	0.978	0.869	1.029	9.83	
97)	T	Butyl benzyl phthalate	0.487	0.361	0.434	0.413	0.452	0.421	0.491	0.535	0.524	0.458	12.35	
98)	I	IS2_Phenanthrene-d10	----------ISTD----------											
99)	T	Diphenamid	0.509	0.383	0.468	0.508	0.502	0.532	0.578	0.597	0.558	0.515	12.43	
100)	I	IS3_Phenanthrene-d10	----------ISTD----------											
101)	T	n-Octadecane	0.312	0.243	0.299	0.318	0.319	0.280	0.358	0.350	0.355	0.315	12.02	
102)	T	Parathion		0.054	0.076	0.080	0.077	0.074	0.098	0.109	0.122		*Q	0.9982
103)	T	3,3'-Dimethylbenzidine			0.593	0.660	0.700	0.676	0.865	0.857	0.806		*L	0.9971
104)	I	IS1_Chrysene-d12	----------ISTD----------											
105)	T	Benzo[a]anthracene	1.601	1.212	1.376	1.301	1.272	1.244	1.317	1.203	1.034	1.284	11.88	
106)	T	3,3'-Dichlorobenzidine	0.484	0.379	0.450	0.441	0.460	0.466	0.523	0.512	0.497	0.468	9.31	
107)	T	Chrysene	1.675	1.240	1.402	1.329	1.232	1.205	1.249	1.091	0.910	1.259	16.66	
108)	T	bis(2-Ethylhexyl)phthalate	0.620	0.525	0.597	0.603	0.661	0.610	0.702	0.753	0.677	0.639	10.51	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL21241**
Calibration dates	**: 06/25/24 20:18 06/26/24 07:31**		

Calibration Files

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

L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109) T	Di-n-octylphthalate	0.924	0.768	0.917	0.888	1.018	0.992	1.151	1.177	0.974	0.979	13.03
110) T	Benzo(b)fluoranthene	1.582	1.244	1.467	1.388	1.283	1.299	1.315	1.163	1.116	1.317	11.01
111) T	Benzo(k)fluoranthene	1.265	1.114	1.303	1.202	1.228	1.278	1.375	1.175	0.881	1.202	11.84
112) T	Benzo(a)pyrene	1.261	1.054	1.246	1.174	1.126	1.174	1.245	1.108	0.956	1.149	8.76
113) I	IS1_Perylene-d12	----------ISTD----------										
114) T	Indeno(1,2,3-cd)pyrene	1.192	0.988	1.118	1.057	1.007	1.143	1.162	1.212	1.186	1.118	7.36
115) T	Dibenzo[a,h]anthracene	1.040	0.931	1.151	1.098	1.025	1.080	1.151	1.109	1.027	1.068	6.60
116) T	Benzo(g,h,i)perylene	1.205	1.041	1.145	1.079	1.012	1.062	1.104	1.049	1.001	1.078	6.06

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

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

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

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

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

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

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

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

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

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

Calibration Files

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

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

Response Factor Report SV107

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

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

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

Response Factor Report SV107

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

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

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

Response Factor Report SV107

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

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

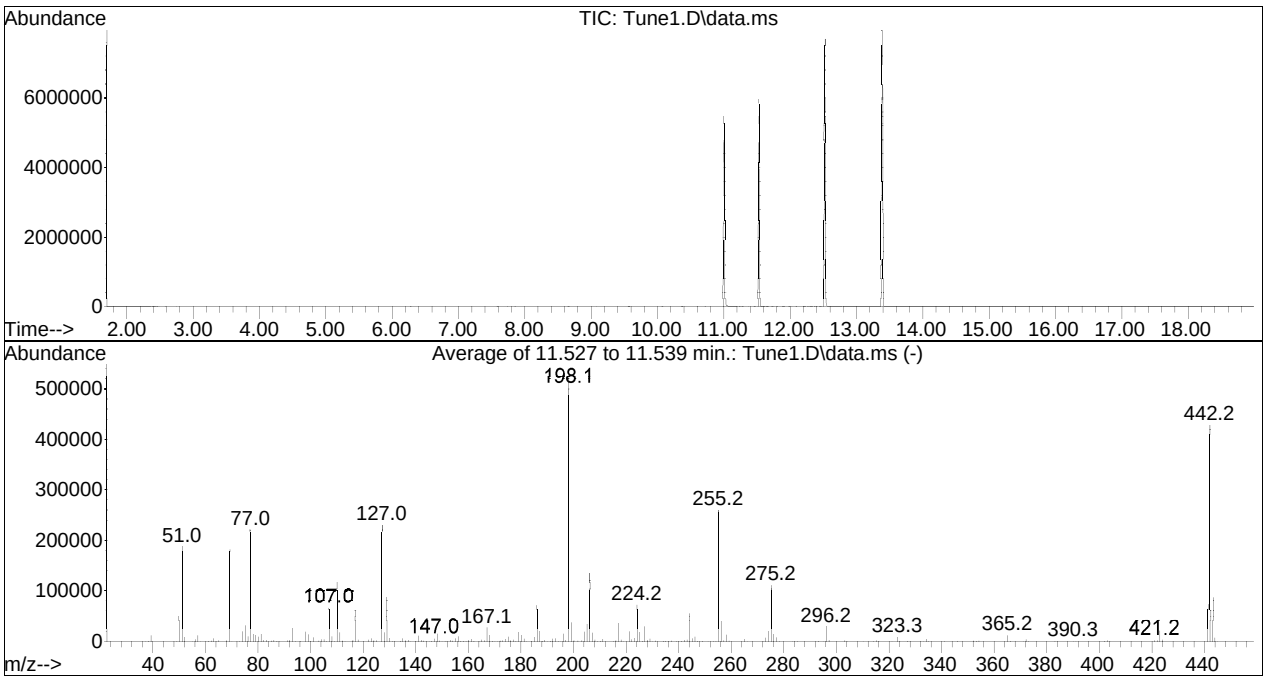
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573	*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124	*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918		*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571		*L	0.9918
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

(#) = Out of Range

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

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



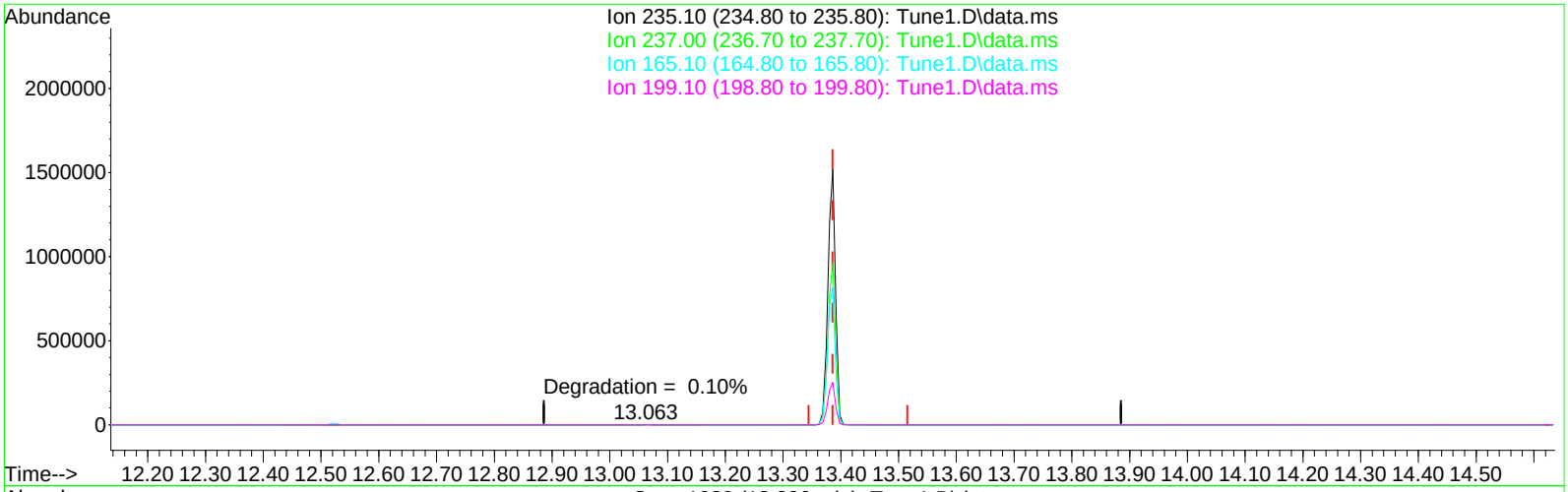
Spectrum Information: Average of 11.527 to 11.539 min.

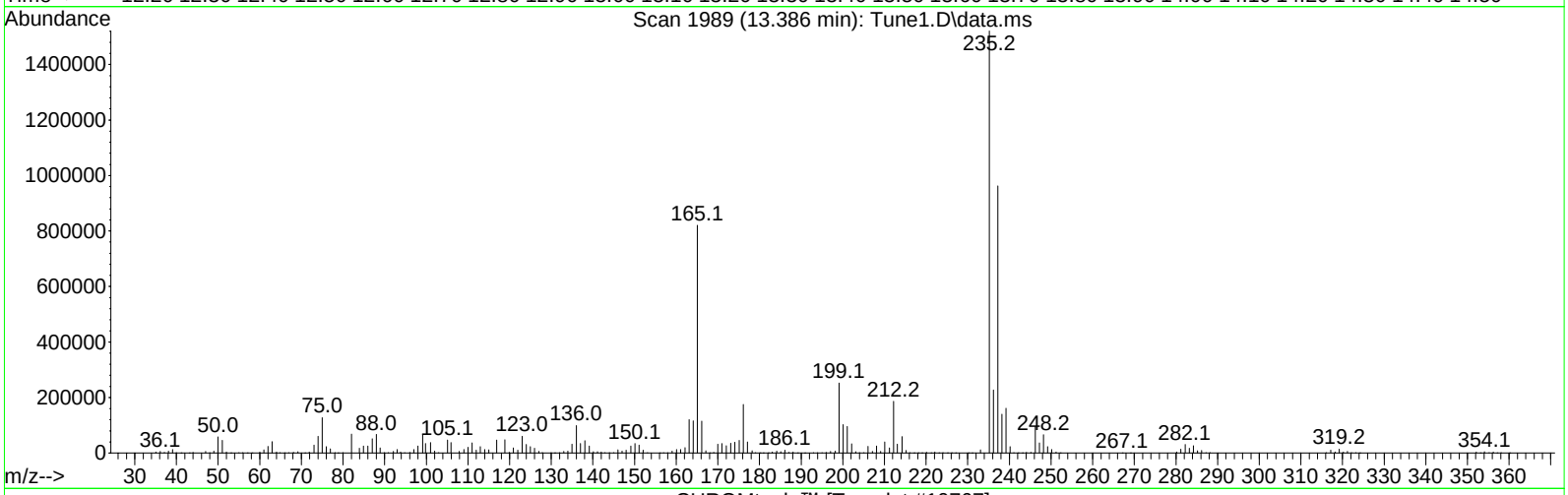
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.9	187531	PASS
68	69	0.00	2	1.7	3108	PASS
69	69	100	100	100.0	182483	PASS
70	69	0.00	2	0.6	1027	PASS
127	198	10	80	44.0	229973	PASS
197	198	0.00	2	0.8	4040	PASS
198	198	100	100	100.0	522133	PASS
199	198	5	9	6.8	35451	PASS
275	198	10	60	21.3	111272	PASS
365	198	1	100	2.3	12158	PASS
441	442	0.01	24	16.8	72077	PASS
442	198	50	100	82.0	427989	PASS
443	442	15	24	20.2	86597	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.386min (+ 0.000) 228.98

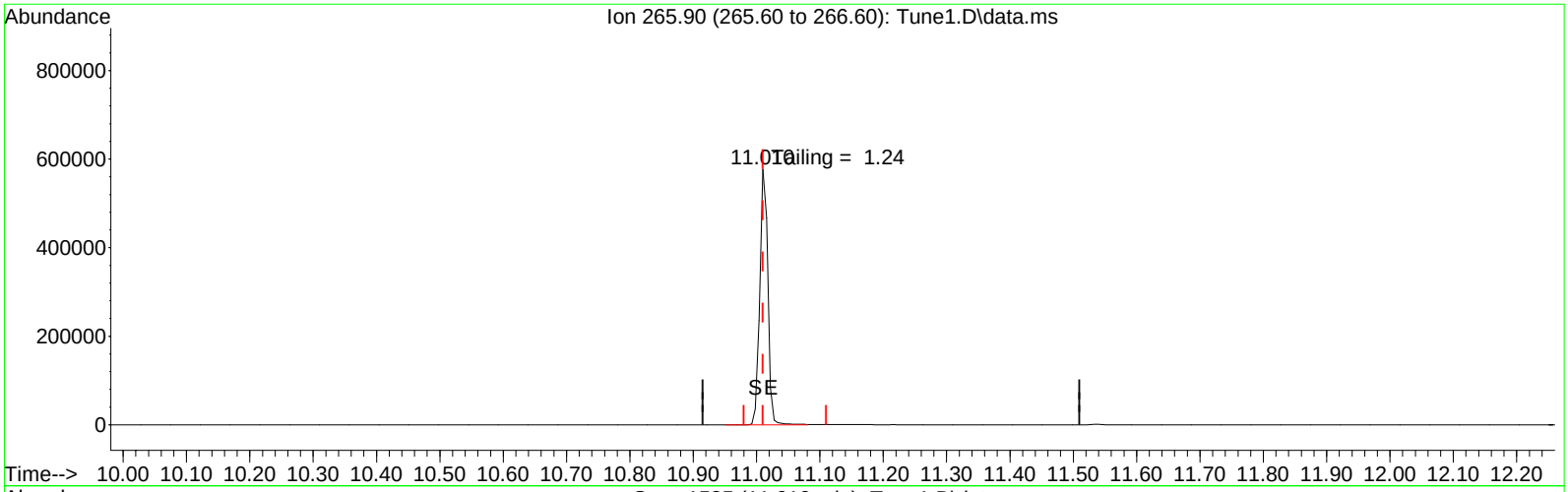
response 1395788

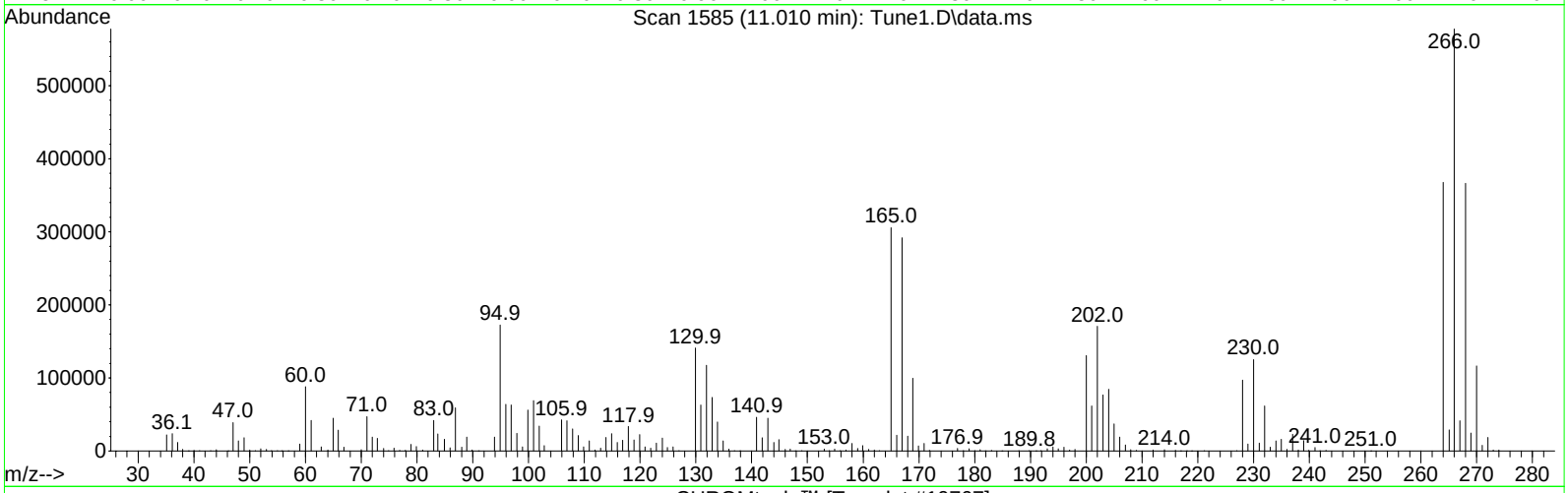
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.53
165.10	55.40	55.28
199.10	16.20	16.69

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.010min (-0.000) 240.75

response 505661

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

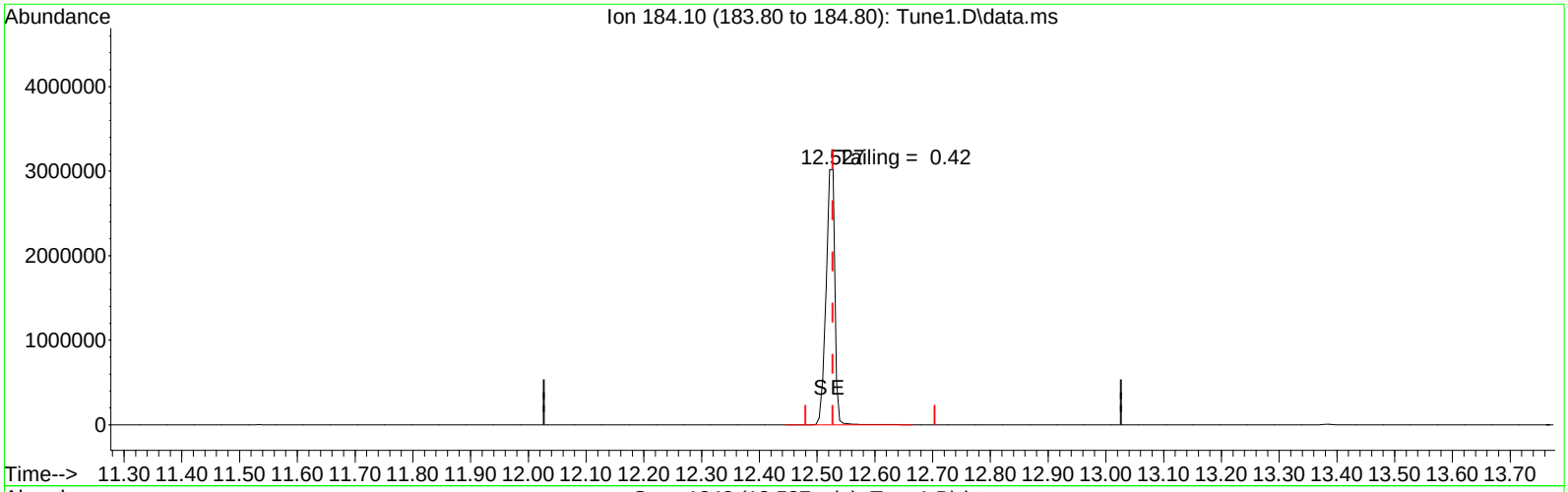
Duplicate Retention Times

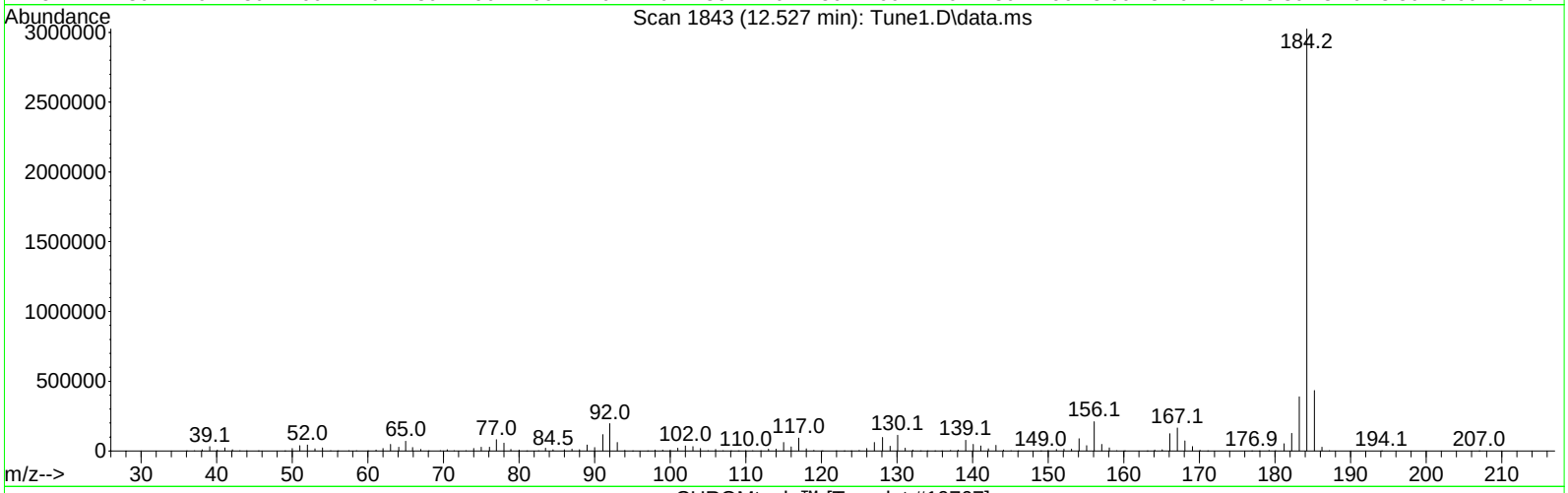
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.527min (+ 0.000) 310.23

response 3158173

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52092	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 100.08%			
34) IS1_Naphthalene-d8	7.963	136	196006	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.97%			
62) IS1_Acenaphthene-d10	9.733	164	120488	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.19%			
87) IS1_Phenanthrene-d10	11.174	188	241169	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.61%			
103) IS1_Chrysene-d12	13.845	240	226976	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 97.03%			
112) IS1_Perylene-d12	15.321	264	215373	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 89.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	729562	47.770	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2388.50%#			
7) Phenol-d6	6.169	99	913206	47.155	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2357.75%#			
19) Nitrobenzene-d5	7.192	82	848672	47.774	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4777.40%#			
45) 2-Fluorobiphenyl	9.086	172	2139322	47.429	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4742.90%#			
78) 2,4,6-Tribromophenol	10.510	330	308756	68.577	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 3428.85%#			
95) 4-Terphenyl-d14	12.768	244	2749792	51.791	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5179.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	476466	44.380	ug/ml#	67
3) Pyridine	2.310	79	789847M3	50.615	ug/ml	
5) Aniline	6.134	93	1179796	51.274	ug/ml	98
6) 2-Chlorophenol	6.281	128	815776	48.639	ug/ml	94
8) Phenol	6.186	94	991965	46.986	ug/ml	97
9) Bis(2-chloroethyl)ether	6.257	93	785125	44.809	ug/ml#	85
10) 1,3-Dichlorobenzene	6.463	146	976808	46.986	ug/ml	98
11) 1,4-Dichlorobenzene	6.557	146	986681	46.274	ug/ml	98
12) 1,2-Dichlorobenzene	6.734	146	961491	47.316	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.745	79	719447	51.831	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	1103416	46.642	ug/ml#	45
15) 2-Methylphenol	6.910	108	745396	50.435	ug/ml	98
16) Hexachloroethane	7.122	117	371487	48.927	ug/ml#	63
17) n-Nitrosodi-n-propylamine	7.069	70	617228	51.768	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.098	108	786206	49.161	ug/ml	98
20) Nitrobenzene	7.210	77	867466	47.687	ug/ml	99
21) Isophorone	7.492	82	1631961	52.056	ug/ml	97
22) 2-Nitrophenol	7.569	139	413598	55.352	ug/ml	91
23) 2,4-Dimethylphenol	7.669	107	786698	63.139	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.763	93	1032309	48.807	ug/ml	98
25) 2,4-Dichlorophenol	7.833	162	804676	55.165	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.916	180	890261	46.778	ug/ml	97
35) Naphthalene	7.981	128	2455182	44.647	ug/ml	98
36) Benzoic Acid	7.857	105	594990M3	46.450	ug/ml	
37) 4-Chloroaniline	8.063	65	329663	48.950	ug/ml	90
38) Hexachlorobutadiene	8.145	225	524479	47.024	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	752356	53.913	ug/ml	98
40) 2-Methylnaphthalene	8.704	142	1773515	48.547	ug/ml	96
41) 1-Methylnaphthalene	8.798	115	595801	47.696	ug/ml	97
42) Hexachlorocyclopentadiene	8.880	237	585777	72.368	ug/ml	98
43) 2,4,6-Trichlorophenol	8.998	196	683883	61.941	ug/ml	98
44) 2,4,5-Trichlorophenol	9.027	196	684500	57.154	ug/ml	99
46) 2-Chloronaphthalene	9.186	162	1814998	49.433	ug/ml	96
47) 2-Nitroaniline	9.298	138	516831	46.219	ug/ml	89
48) 1,4-Dinitrobenzene	9.433	168	255453	47.634	ug/ml	77
49) 1,3-Dinitrobenzene	9.510	168	312993	59.575	ug/ml#	1
50) Dimethyl phthalate	9.510	163	2147747	52.966	ug/ml#	98
51) Acenaphthylene	9.592	152	2805280	50.791	ug/ml	97
52) 2,6-Dinitrotoluene	9.551	165	436608	49.584	ug/ml#	81
53) 1,2-Dinitrobenzene	9.598	168	197825	52.511	ug/ml#	1
63) 3-Nitroaniline	9.710	138	471068	51.669	ug/ml	97
64) Acenaphthene	9.769	154	1695793	49.930	ug/ml	92
65) 2,4-Dinitrophenol	9.810	184	269058	55.401	ug/ml#	87
66) Dibenzofuran	9.939	168	2683577	48.125	ug/ml	95
67) 2,4-Dinitrotoluene	9.945	165	656313	53.666	ug/ml	92
68) 4-Nitrophenol	9.898	65	390800	50.844	ug/ml#	88
69) 2,3,5,6-Tetrachlorophenol	10.027	232	577911	60.589	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.069	232	546634	56.529	ug/ml	97
71) Diethyl phthalate	10.204	149	2108194	53.768	ug/ml	96
72) Fluorene	10.269	166	2115991	50.482	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.286	204	1044988	48.404	ug/ml	90
74) 4-Nitroaniline	10.316	138	461065	50.193	ug/ml#	88
75) 4,6-Dinitro-o-cresol	10.339	198	365550	56.724	ug/ml#	63
76) NDPA/DPA	10.410	169	1833086	54.507	ug/ml	94
77) Azobenzene	10.439	77	1989446	50.335	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.763	248	581049	51.273	ug/ml	90
80) Hexachlorobenzene	10.816	284	638949	51.087	ug/ml#	87
81) Pentachlorophenol	11.010	266	461808	58.459	ug/ml	98
88) Phenanthrene	11.204	178	3149864	46.986	ug/ml	97
89) Anthracene	11.251	178	3281818	51.815	ug/ml	97
90) Carbazole	11.421	167	3013630	52.456	ug/ml	96
91) Di-n-butylphthalate	11.804	149	3786524	61.939	ug/ml	98
92) Fluoranthene	12.363	202	3725734	51.666	ug/ml#	92
93) Benzidine	12.515	184	2523163	64.802	ug/ml#	95
94) Pyrene	12.586	202	3910527	50.113	ug/ml	97
96) Butyl benzyl phthalate	13.304	149	1728011	50.798	ug/ml	92
104) Benzo(a)anthracene	13.839	228	3679599	48.093	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.833	252	1382777	59.932	ug/ml#	97
106) Chrysene	13.880	228	3388097	43.998	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	13.945	149	2632420	48.002	ug/ml#	98
108) Di-n-octylphthalate	14.633	149	4417645	45.595	ug/ml#	73
109) Benzo(b)fluoranthene	14.962	252	3618166	54.564	ug/ml#	94
110) Benzo(k)fluoranthene	14.992	252	3209700	46.807	ug/ml#	93
111) Benzo(a)pyrene	15.280	252	3161941	53.187	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	3147861M6	62.085	ug/mL	
114) Dibenzo(a,h)anthracene	16.380	278	2930895	55.128	ug/ml#	92
115) Benzo(ghi)perylene	16.627	276	2517993	47.199	ug/ml#	89

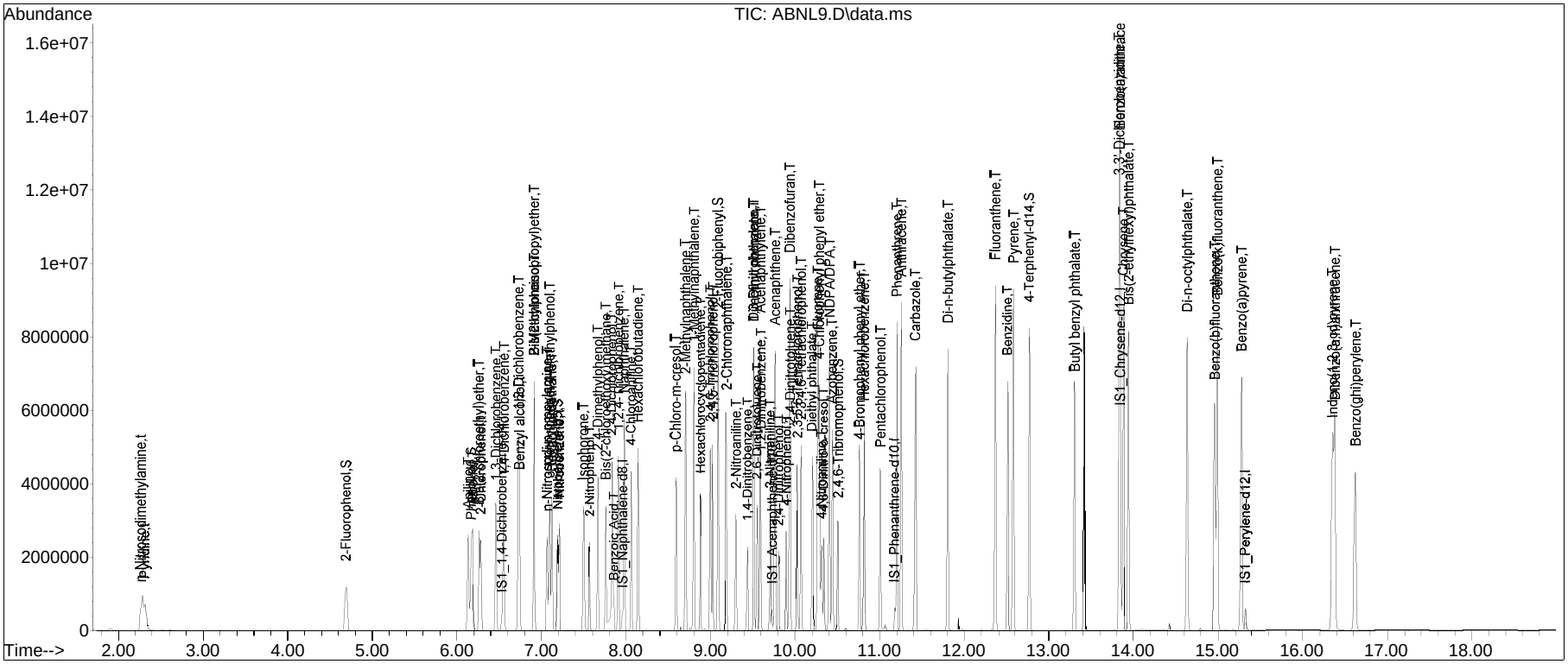
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

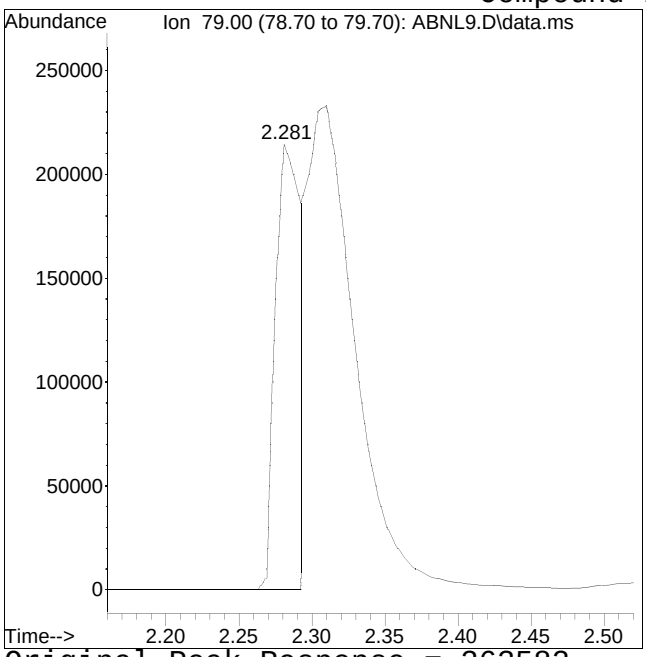
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

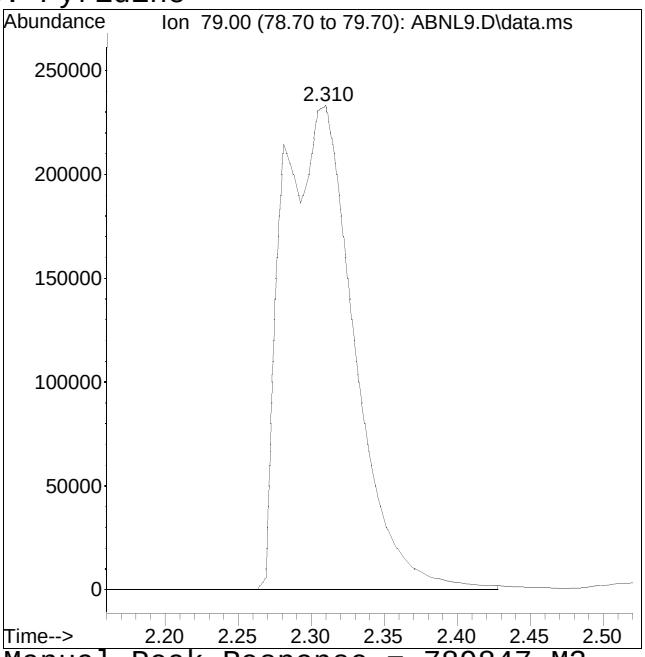


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #3: Pyridine



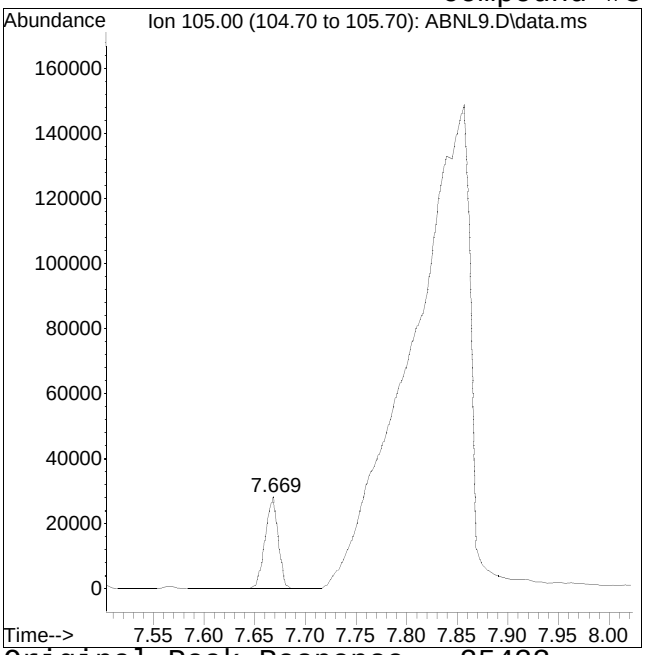


Original Peak Response = 263582 Manual Peak Response = 789847 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

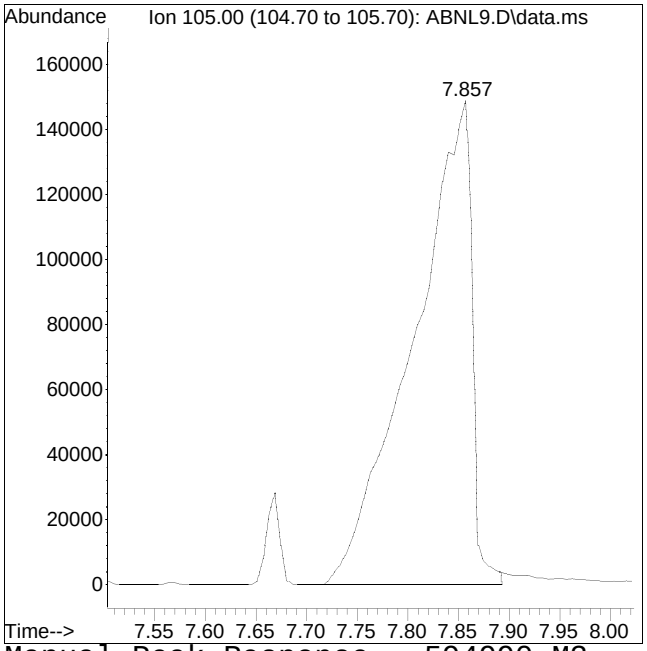
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #36: Benzoic Acid



Original Peak Response = 25433



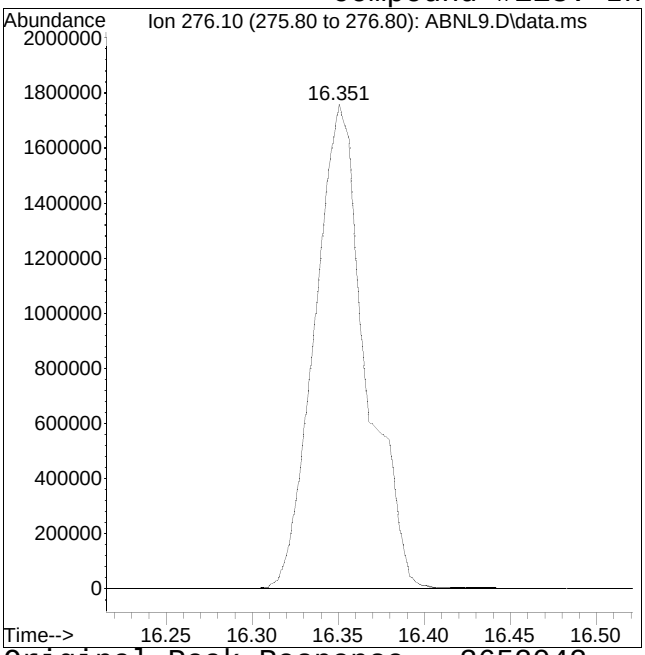
Manual Peak Response = 594990 M3

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

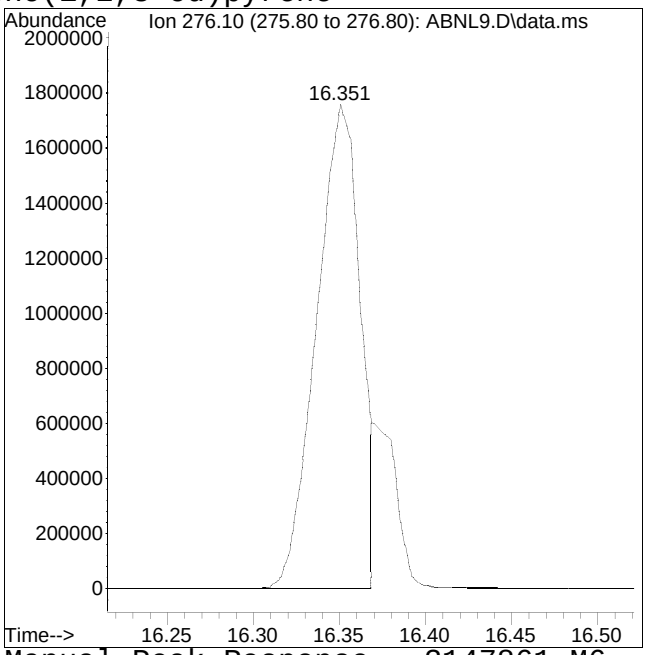
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3652042



Manual Peak Response = 3147861 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	51050	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 98.08%			
34) IS1_Naphthalene-d8	7.957	136	194324	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.09%			
62) IS1_Acenaphthene-d10	9.728	164	124132	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.13%			
87) IS1_Phenanthrene-d10	11.175	188	241731	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.83%			
103) IS1_Chrysene-d12	13.839	240	224950	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.16%			
112) IS1_Perylene-d12	15.321	264	225904	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.71%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	352552	23.556	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 1177.80%#			
7) Phenol-d6	6.163	99	434922	22.917	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1145.85%#			
19) Nitrobenzene-d5	7.187	82	410309	23.569	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2356.90%#			
45) 2-Fluorobiphenyl	9.081	172	1039673	23.249	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2324.90%#			
78) 2,4,6-Tribromophenol	10.504	330	143558	30.949	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1547.45%#			
95) 4-Terphenyl-d14	12.769	244	1351933	25.404	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2540.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	231824	22.034	ug/ml#	66
3) Pyridine	2.281	79	385544	25.211	ug/ml#	61
5) Aniline	6.128	93	563724	25.000	ug/ml	97
6) 2-Chlorophenol	6.275	128	390705	23.770	ug/ml	94
8) Phenol	6.175	94	468001	22.620	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	373487	21.751	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	468066	22.974	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	468617	22.426	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	461305	23.165	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	340809	25.054	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	528944	22.815	ug/ml#	46
15) 2-Methylphenol	6.904	108	349944	24.161	ug/ml	98
16) Hexachloroethane	7.122	117	176749	23.754	ug/ml#	64
17) n-Nitrosodi-n-propylamine	7.057	70	294321	25.189	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.092	108	370465	23.638	ug/ml	98
20) Nitrobenzene	7.204	77	413557	23.198	ug/ml	99
21) Isophorone	7.487	82	781835	25.448	ug/ml	98
22) 2-Nitrophenol	7.563	139	197511	26.973	ug/ml	90
23) 2,4-Dimethylphenol	7.663	107	365732	29.952	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.757	93	493552	23.811	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	380051	26.587	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	428363	22.967	ug/ml	98
35) Naphthalene	7.981	128	1170952	21.478	ug/ml	99
36) Benzoic Acid	7.816	105	277825	22.504	ug/ml	95
37) 4-Chloroaniline	8.057	65	156133	23.384	ug/ml	87
38) Hexachlorobutadiene	8.145	225	251541	22.748	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	358862	25.938	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	828408	22.873	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	281712	22.747	ug/ml	98
42) Hexachlorocyclopentadiene	8.875	237	280242	34.922	ug/ml	99
43) 2,4,6-Trichlorophenol	8.998	196	312004	28.504	ug/ml	99
44) 2,4,5-Trichlorophenol	9.028	196	337250	28.403	ug/ml	97
46) 2-Chloronaphthalene	9.181	162	862228	23.687	ug/ml	95
47) 2-Nitroaniline	9.292	138	243518	22.111	ug/ml	89
48) 1,4-Dinitrobenzene	9.428	168	117852	22.344	ug/ml	79
49) 1,3-Dinitrobenzene	9.504	168	145584	27.950	ug/ml#	1
50) Dimethyl phthalate	9.504	163	1029527	25.609	ug/ml#	98
51) Acenaphthylene	9.586	152	1356661	24.776	ug/ml	98
52) 2,6-Dinitrotoluene	9.545	165	211629	24.307	ug/ml#	81
53) 1,2-Dinitrobenzene	9.586	168	95068	25.522	ug/ml#	1
63) 3-Nitroaniline	9.698	138	223955	23.843	ug/ml	96
64) Acenaphthene	9.763	154	823091	23.523	ug/ml	93
65) 2,4-Dinitrophenol	9.804	184	120610	24.509	ug/ml#	87
66) Dibenzofuran	9.933	168	1300833	22.643	ug/ml	94
67) 2,4-Dinitrotoluene	9.933	165	305368	24.314	ug/ml	94
68) 4-Nitrophenol	9.886	65	182864	23.092	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	274188	27.902	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	261810	26.280	ug/ml	97
71) Diethyl phthalate	10.198	149	990417	24.518	ug/ml	97
72) Fluorene	10.269	166	987372	22.865	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.280	204	489879	22.025	ug/ml	90
74) 4-Nitroaniline	10.298	138	227044	23.991	ug/ml	85
75) 4,6-Dinitro-o-cresol	10.333	198	165521	25.144	ug/ml#	61
76) NDPA/DPA	10.404	169	848079	24.477	ug/ml	94
77) Azobenzene	10.433	77	953697	23.421	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	274899	23.545	ug/ml#	89
80) Hexachlorobenzene	10.810	284	306799	23.810	ug/ml#	87
81) Pentachlorophenol	11.004	266	210091	25.965	ug/ml	99
88) Phenanthrene	11.198	178	1516863	22.574	ug/ml	98
89) Anthracene	11.245	178	1559998	24.573	ug/ml	98
90) Carbazole	11.416	167	1455059	25.268	ug/ml	97
91) Di-n-butylphthalate	11.798	149	1846222	30.130	ug/ml	98
92) Fluoranthene	12.357	202	1819916	25.179	ug/ml#	92
93) Benzidine	12.510	184	1205192	30.881	ug/ml#	95
94) Pyrene	12.580	202	1934804	24.736	ug/ml	98
96) Butyl benzyl phthalate	13.298	149	829584	26.448	ug/ml	93
104) Benzo(a)anthracene	13.833	228	1884961	24.859	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.827	252	714087	31.228	ug/ml#	96
106) Chrysene	13.868	228	1707374	22.372	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	1290107	27.130	ug/ml#	97
108) Di-n-octylphthalate	14.627	149	2208702	27.076	ug/ml#	73
109) Benzo(b)fluoranthene	14.951	252	1772450	26.970	ug/ml#	93
110) Benzo(k)fluoranthene	14.980	252	1628489	23.962	ug/ml#	95
111) Benzo(a)pyrene	15.268	252	1568036	26.614	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	1567480M6	29.474	ug/mL	
114) Dibenzo(a,h)anthracene	16.368	278	1508686	27.054	ug/ml#	91
115) Benzo(ghi)perylene	16.621	276	1341500	23.974	ug/ml#	89

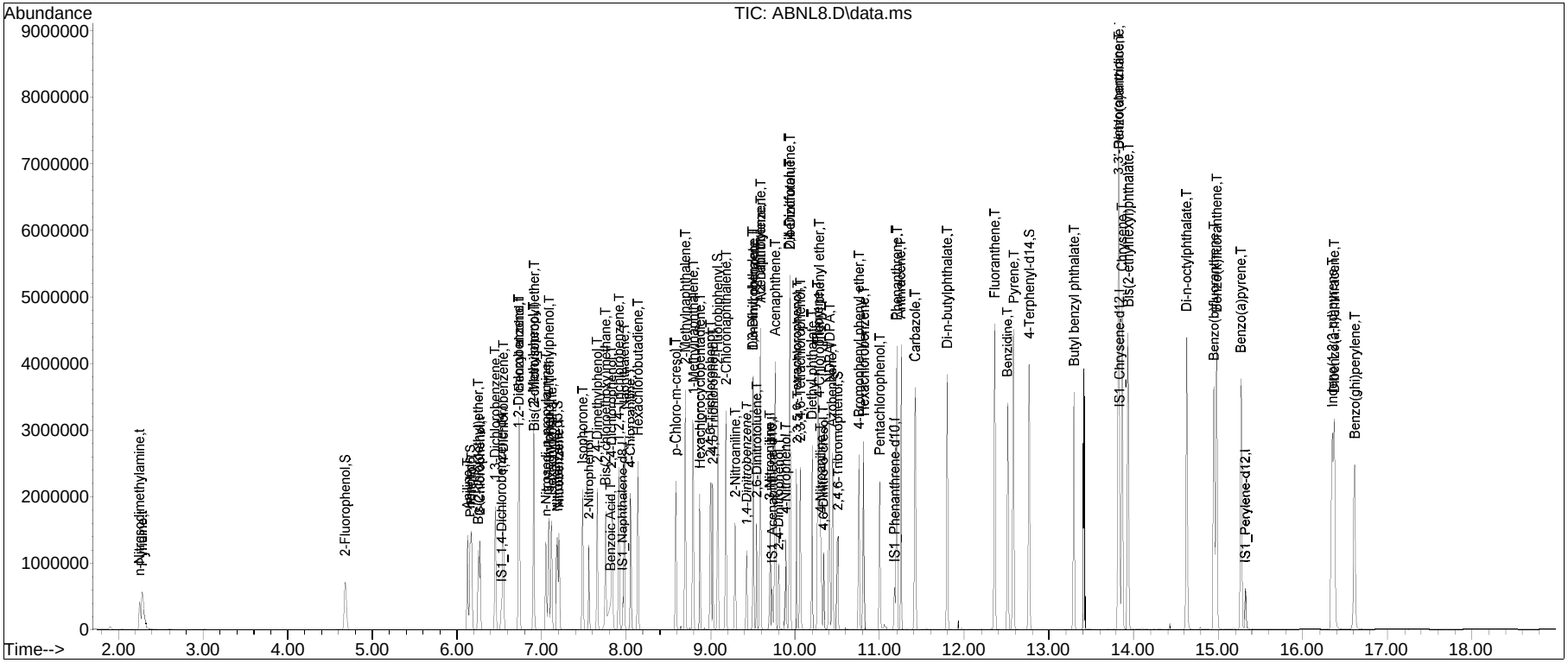
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

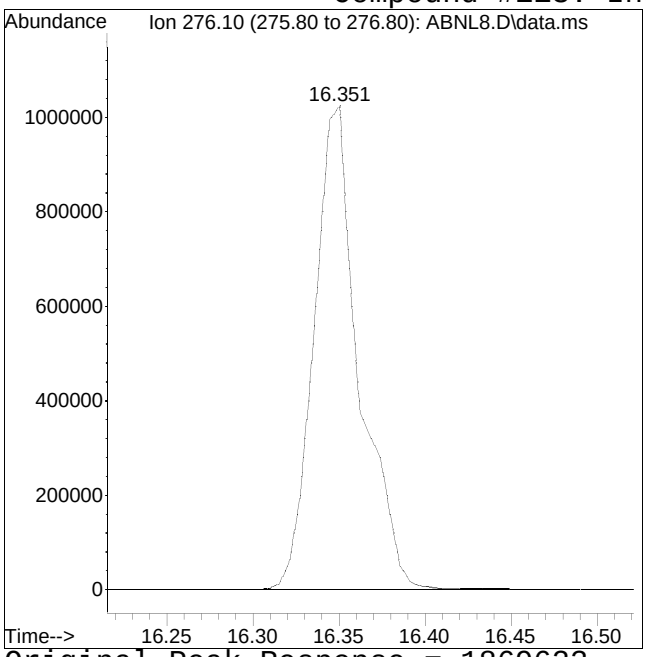
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



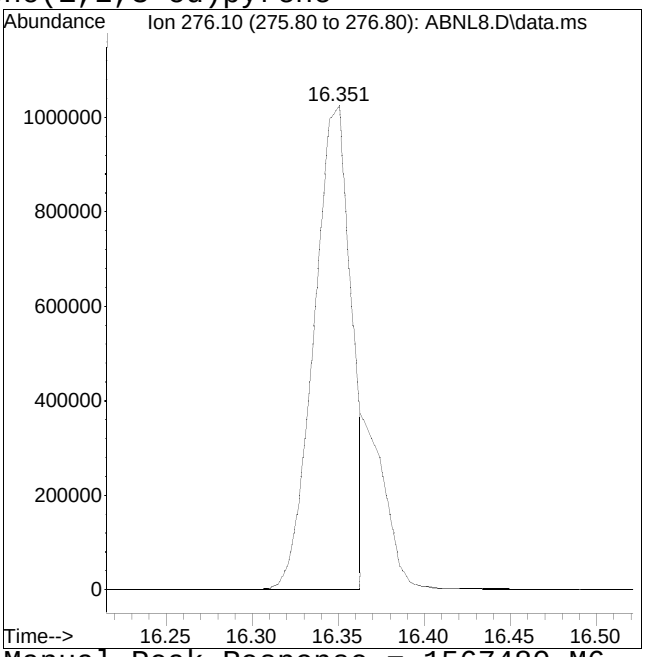
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL8.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:59 pm Instrument : SV107
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1869623



Manual Peak Response = 1567480 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	50580	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 97.17%			
34) IS1_Naphthalene-d8	7.957	136	189779	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 99.70%			
62) IS1_Acenaphthene-d10	9.728	164	120288	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.03%			
87) IS1_Phenanthrene-d10	11.175	188	242511	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 96.14%			
103) IS1_Chrysene-d12	13.839	240	225785	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.52%			
112) IS1_Perylene-d12	15.327	264	227351	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 94.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	140251	9.458	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 472.90%#			
7) Phenol-d6	6.157	99	171152	9.102	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 455.10%#			
19) Nitrobenzene-d5	7.181	82	158345	9.180	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 918.00%#			
45) 2-Fluorobiphenyl	9.081	172	416312	9.533	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 953.30%#			
78) 2,4,6-Tribromophenol	10.498	330	59817	13.308	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 665.40%#			
95) 4-Terphenyl-d14	12.763	244	536294	10.045	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1004.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	91909	8.817	ug/ml#	68
3) Pyridine	2.287	79	149892	9.892	ug/ml#	59
5) Aniline	6.128	93	224771	10.061	ug/ml	97
6) 2-Chlorophenol	6.269	128	153985	9.455	ug/ml	94
8) Phenol	6.175	94	185122	9.031	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	150367	8.838	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	187197	9.274	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	187019	9.033	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	181846	9.216	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	131627	9.766	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.910	45	210116	9.147	ug/ml#	47
15) 2-Methylphenol	6.904	108	136533	9.514	ug/ml	98
16) Hexachloroethane	7.116	117	70827	9.607	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.057	70	116160	10.034	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	145224	9.352	ug/ml	97
20) Nitrobenzene	7.204	77	163172	9.238	ug/ml	98
21) Isophorone	7.481	82	312334	10.261	ug/ml	96
22) 2-Nitrophenol	7.563	139	73882	10.183	ug/ml	91
23) 2,4-Dimethylphenol	7.657	107	142398	11.770	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	196961	9.591	ug/ml	100
25) 2,4-Dichlorophenol	7.828	162	149306	10.542	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	168900	9.140	ug/ml	97
35) Naphthalene	7.975	128	462458	8.686	ug/ml	99
36) Benzoic Acid	7.775	105	97433	8.547	ug/ml	94
37) 4-Chloroaniline	8.057	65	61841	9.484	ug/ml	88
38) Hexachlorobutadiene	8.145	225	102228	9.466	ug/ml	98
39) p-Chloro-m-cresol	8.581	107	141106	10.443	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	332525	9.401	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	113176	9.357	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	106521	13.592	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	125341	11.725	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	129505	11.168	ug/ml	99
46) 2-Chloronaphthalene	9.181	162	342590	9.637	ug/ml	95
47) 2-Nitroaniline	9.292	138	93043	8.819	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	43565	8.665	ug/ml	77
49) 1,3-Dinitrobenzene	9.498	168	53332	10.484	ug/ml#	1
50) Dimethyl phthalate	9.498	163	403736	10.283	ug/ml#	98
51) Acenaphthylene	9.586	152	537132	10.044	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	81168	9.623	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	36142	10.016	ug/ml#	1
63) 3-Nitroaniline	9.698	138	85128	9.353	ug/ml	99
64) Acenaphthene	9.757	154	318784	9.402	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	41498	9.163	ug/ml	89
66) Dibenzofuran	9.928	168	526706	9.461	ug/ml	93
67) 2,4-Dinitrotoluene	9.928	165	112821	9.357	ug/ml	94
68) 4-Nitrophenol	9.881	65	71517	9.320	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.022	232	110202	11.573	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	105281	10.906	ug/ml		97
71)	Diethyl phthalate	10.192	149	399950	10.217	ug/ml		97
72)	Fluorene	10.263	166	400866	9.580	ug/ml		92
73)	4-Chlorophenyl phenyl ...	10.281	204	203850	9.458	ug/ml		89
74)	4-Nitroaniline	10.292	138	90166	9.832	ug/ml		84
75)	4,6-Dinitro-o-cresol	10.328	198	61794	9.921	ug/ml	#	61
76)	NDPA/DPA	10.398	169	346541	10.322	ug/ml		96
77)	Azobenzene	10.433	77	391138	9.913	ug/ml		96
79)	4-Bromophenyl phenyl e...	10.757	248	113207	10.006	ug/ml	#	88
80)	Hexachlorobenzene	10.810	284	126399	10.123	ug/ml	#	87
81)	Pentachlorophenol	11.004	266	82964	10.741	ug/ml		99
88)	Phenanthrene	11.192	178	617237	9.156	ug/ml		99
89)	Anthracene	11.245	178	640850	10.062	ug/ml		99
90)	Carbazole	11.410	167	585984	10.143	ug/ml		98
91)	Di-n-butylphthalate	11.798	149	738655	12.016	ug/ml		99
92)	Fluoranthene	12.357	202	737284	10.168	ug/ml	#	92
93)	Benzidine	12.510	184	483670	12.353	ug/ml	#	95
94)	Pyrene	12.574	202	780477	9.946	ug/ml		99
96)	Butyl benzyl phthalate	13.298	149	315052	10.773	ug/ml		92
104)	Benzo(a)anthracene	13.827	228	782320	10.279	ug/ml		98
105)	3,3'-Dichlorobenzidine	13.827	252	281272	12.255	ug/ml	#	97
106)	Chrysene	13.868	228	707807	9.240	ug/ml		98
107)	Bis(2-ethylhexyl)phtha...	13.945	149	509174	11.959	ug/ml	#	95
108)	Di-n-octylphthalate	14.633	149	832000	11.991	ug/ml	#	74
109)	Benzo(b)fluoranthene	14.957	252	709383	10.754	ug/ml	#	94
110)	Benzo(k)fluoranthene	14.980	252	689771	10.112	ug/ml	#	93
111)	Benzo(a)pyrene	15.274	252	632662	10.698	ug/ml	#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	632674M6	11.821	ug/mL		
114)	Dibenzo(a,h)anthracene	16.374	278	627698	11.184	ug/ml	#	91
115)	Benzo(ghi)perylene	16.615	276	579928	10.298	ug/ml	#	88

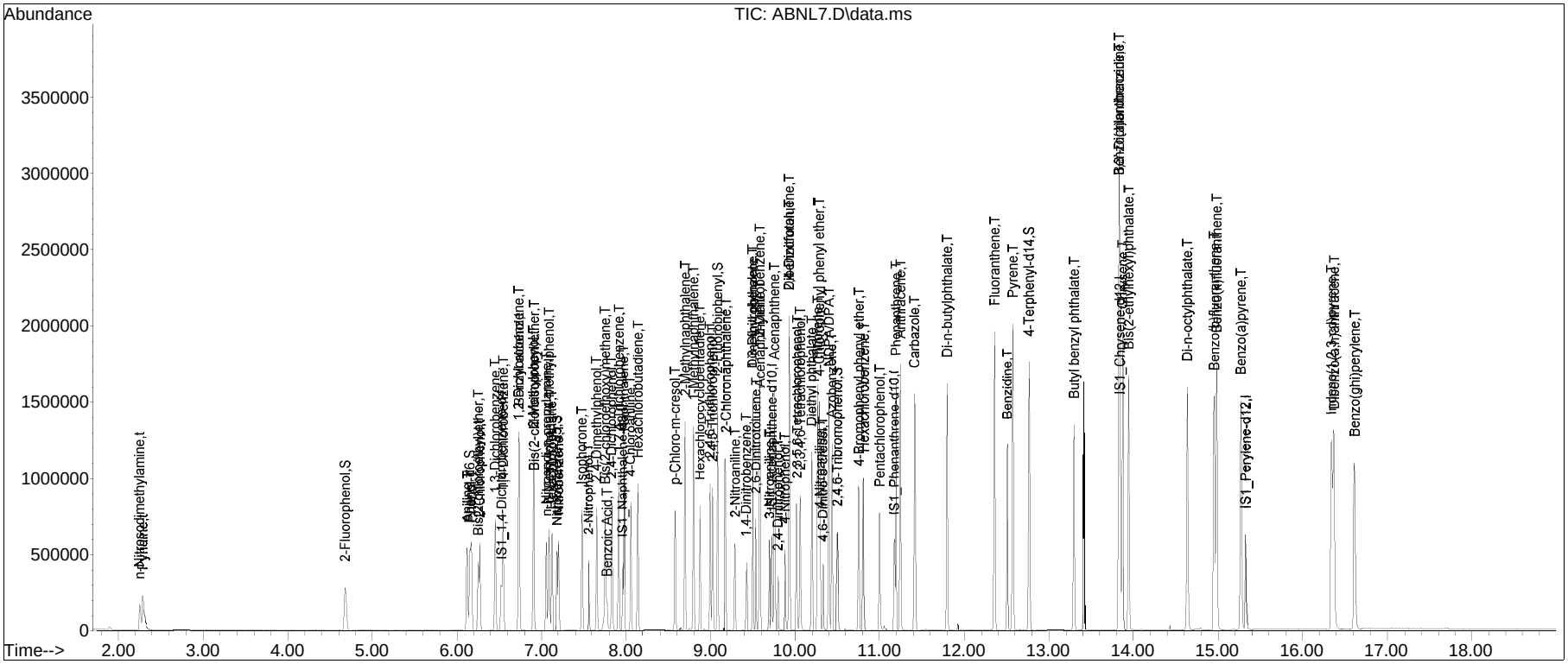
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

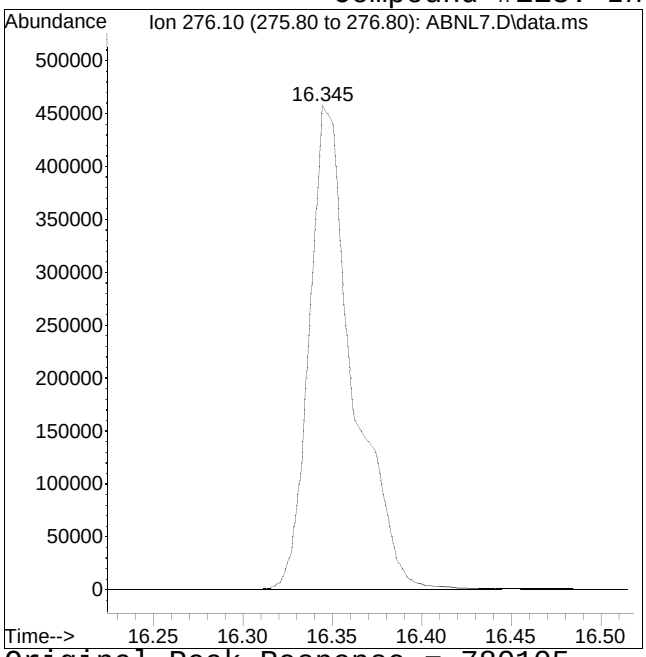
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



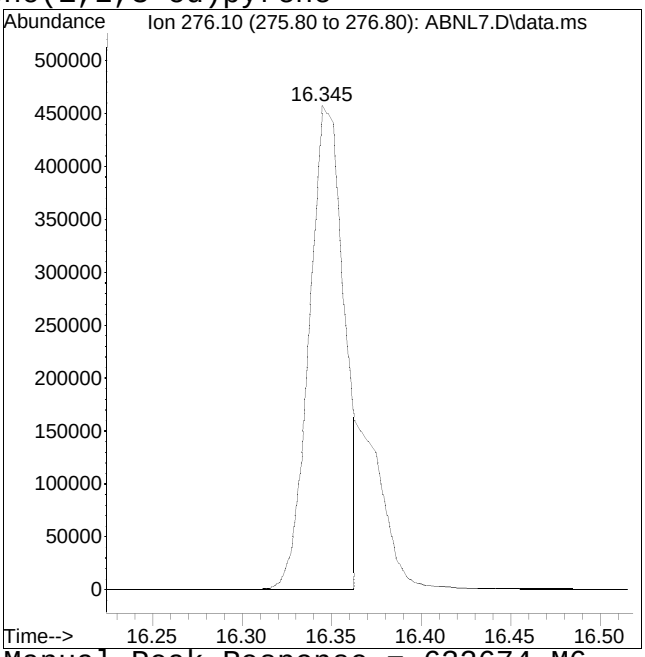
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL7.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:24 pm Instrument : SV107
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 780105



Manual Peak Response = 632674 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52051	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.957	136	190351	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.728	164	123969	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	11.169	188	252252	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 100.00%			
103) IS1_Chrysene-d12	13.839	240	233929	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 100.00%			
112) IS1_Perylene-d12	15.321	264	241074	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	67481	4.422	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 221.10%#			
7) Phenol-d6	6.157	99	82234	4.250	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 212.50%#			
19) Nitrobenzene-d5	7.187	82	75078	4.230	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 423.00%#			
45) 2-Fluorobiphenyl	9.081	172	195530	4.464	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.40%#			
78) 2,4,6-Tribromophenol	10.498	330	27324	5.898	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 294.90%#			
95) 4-Terphenyl-d14	12.763	244	252334	4.544	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 454.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.269	74	44897	4.185	ug/ml#	68
3) Pyridine	2.316	79	74928	4.805	ug/ml#	60
5) Aniline	6.128	93	106131	4.616	ug/ml	96
6) 2-Chlorophenol	6.275	128	73258	4.371	ug/ml	95
8) Phenol	6.175	94	88385	4.190	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	71054	4.058	ug/ml#	83
10) 1,3-Dichlorobenzene	6.457	146	88597	4.265	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	90239	4.235	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	86995	4.285	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	61710	4.449	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	97707	4.133	ug/ml#	46
15) 2-Methylphenol	6.904	108	64538	4.370	ug/ml	98
16) Hexachloroethane	7.122	117	33608	4.430	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	54342	4.561	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.087	108	70342	4.402	ug/ml	99
20) Nitrobenzene	7.204	77	77212	4.248	ug/ml	97
21) Isophorone	7.481	82	146190	4.667	ug/ml	97
22) 2-Nitrophenol	7.563	139	32431	4.344	ug/ml#	91
23) 2,4-Dimethylphenol	7.657	107	68596	5.510	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.751	93	91731	4.340	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	71051	4.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	79423	4.177	ug/ml	97
35) Naphthalene	7.975	128	219752	4.115	ug/ml	99
36) Benzoic Acid	7.751	105	39209	3.814	ug/ml	93
37) 4-Chloroaniline	8.057	65	28470	4.353	ug/ml	86
38) Hexachlorobutadiene	8.145	225	46528	4.296	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	65253	4.815	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	155750	4.390	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	52377	4.318	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	46736	5.945	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	57691	5.380	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	60992	5.244	ug/ml	99
46) 2-Chloronaphthalene	9.175	162	160578	4.503	ug/ml	96
47) 2-Nitroaniline	9.286	138	41476	4.073	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	18043	3.774	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	23649	4.635	ug/ml#	1
50) Dimethyl phthalate	9.492	163	192449	4.887	ug/ml#	98
51) Acenaphthylene	9.581	152	249719	4.656	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37890	4.546	ug/ml#	81
53) 1,2-Dinitrobenzene	9.581	168	16640	4.669	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39765	4.239	ug/ml	98
64) Acenaphthene	9.757	154	150990	4.321	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	17570	4.186	ug/ml#	88
66) Dibenzofuran	9.928	168	248513	4.331	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	50309	4.128	ug/ml	93
68) 4-Nitrophenol	9.880	65	32068	4.055	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.016	232	49938	5.089	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	49836	5.009	ug/ml	99
71)	Diethyl phthalate	10.192	149	185259	4.592	ug/ml	97
72)	Fluorene	10.263	166	191054	4.430	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.280	204	95118	4.282	ug/ml	89
74)	4-Nitroaniline	10.286	138	38840	4.109	ug/ml#	87
75)	4,6-Dinitro-o-cresol	10.322	198	24123	3.994	ug/ml#	63
76)	NDPA/DPA	10.398	169	163792	4.734	ug/ml	95
77)	Azobenzene	10.433	77	185513	4.562	ug/ml	97
79)	4-Bromophenyl phenyl e...	10.751	248	53585	4.596	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	60424	4.696	ug/ml#	86
81)	Pentachlorophenol	11.004	266	36681	4.762	ug/ml	98
88)	Phenanthrene	11.192	178	298395	4.256	ug/ml	99
89)	Anthracene	11.245	178	297441	4.490	ug/ml	98
90)	Carbazole	11.410	167	277150	4.612	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	329073	5.146	ug/ml	99
92)	Fluoranthene	12.357	202	344549	4.568	ug/ml#	91
93)	Benzidine	12.504	184	212574	5.220	ug/ml#	95
94)	Pyrene	12.574	202	366283	4.488	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	133030	4.681	ug/ml	93
104)	Benzo(a)anthracene	13.827	228	356055	4.515	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	126297	5.311	ug/ml#	96
106)	Chrysene	13.863	228	340032	4.284	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	216588	5.250	ug/ml#	95
108)	Di-n-octylphthalate	14.627	149	335349	5.215	ug/ml#	74
109)	Benzo(b)fluoranthene	14.951	252	323786	4.738	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	322366	4.561	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	286717	4.680	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	267407M6	4.712	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	289650	4.867	ug/ml#	90
115)	Benzo(ghi)perylene	16.615	276	264525	4.430	ug/ml#	88

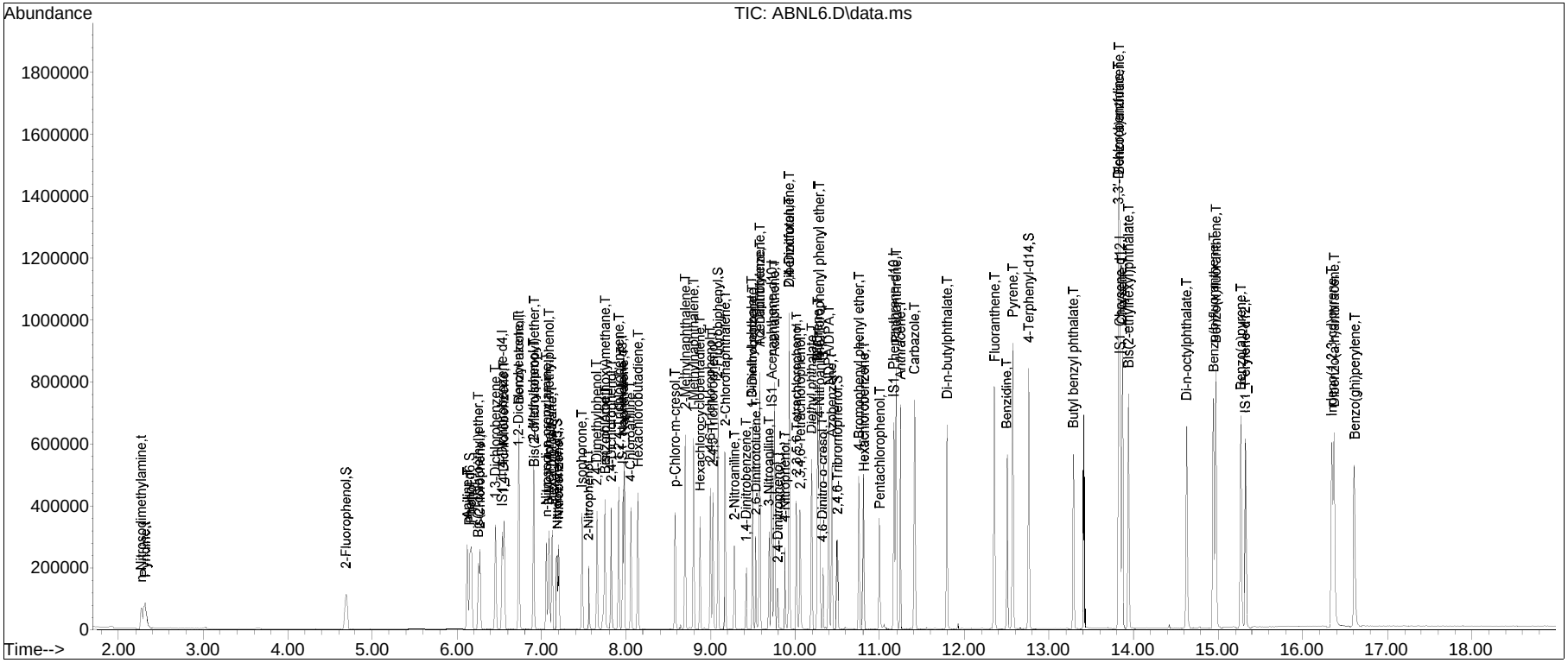
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

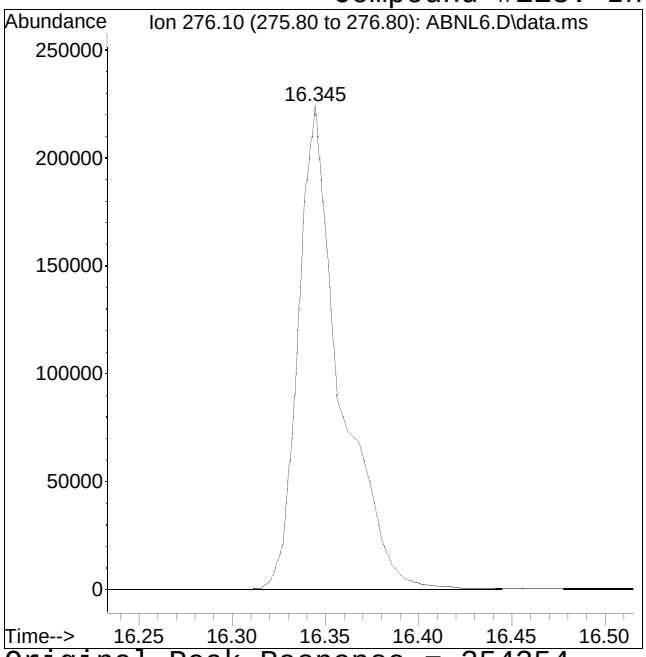
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



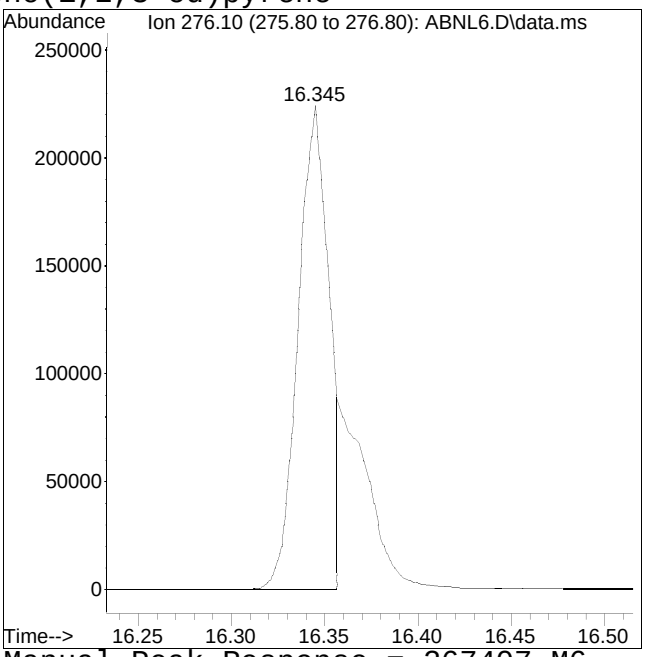
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL6.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:50 pm Instrument : SV107
Sample : IL5,32,,ABNL5 Lot# 10694 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 354354



Manual Peak Response = 267407 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	51948	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 99.80%				
34) IS1_Naphthalene-d8	7.957	136	191507	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 100.61%				
62) IS1_Acenaphthene-d10	9.728	164	118652	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 95.71%				
87) IS1_Phenanthrene-d10	11.169	188	243366	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 96.48%				
103) IS1_Chrysene-d12	13.839	240	223632	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 95.60%				
112) IS1_Perylene-d12	15.327	264	232683	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 96.52%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.693	112	32992	2.166	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 108.30%				
7) Phenol-d6	6.157	99	40252	2.084	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 104.20%				
19) Nitrobenzene-d5	7.187	82	34681	1.958	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 195.80%#				
45) 2-Fluorobiphenyl	9.081	172	98186	2.228	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 222.80%#				
78) 2,4,6-Tribromophenol	10.498	330	12813	2.890	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 144.50%#				
95) 4-Terphenyl-d14	12.763	244	126539	2.362	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 236.20%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.269	74	21694	2.026	ug/ml	#	69
3) Pyridine	2.316	79	36569	2.350	ug/ml	#	60
5) Aniline	6.128	93	52329	2.281	ug/ml		97
6) 2-Chlorophenol	6.269	128	35639	2.131	ug/ml		94
8) Phenol	6.169	94	43788	2.080	ug/ml		98
9) Bis(2-chloroethyl)ether	6.251	93	35010	2.004	ug/ml	#	85
10) 1,3-Dichlorobenzene	6.457	146	43832	2.114	ug/ml		98
11) 1,4-Dichlorobenzene	6.551	146	44202	2.079	ug/ml		99
12) 1,2-Dichlorobenzene	6.728	146	42719	2.108	ug/ml		98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	29820	2.154	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	47835	2.028	ug/ml#	46
15) 2-Methylphenol	6.904	108	30807	2.090	ug/ml	99
16) Hexachloroethane	7.122	117	15915	2.102	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	26538	2.232	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	33130	2.077	ug/ml	97
20) Nitrobenzene	7.204	77	36114	1.991	ug/ml	98
21) Isophorone	7.481	82	71350	2.282	ug/ml	97
22) 2-Nitrophenol	7.563	139	15185	2.038	ug/ml	90
23) 2,4-Dimethylphenol	7.657	107	33295	2.680	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	45647	2.164	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	33869	2.328	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.910	180	39855	2.100	ug/ml	96
35) Naphthalene	7.975	128	112832	2.100	ug/ml	99
36) Benzoic Acid	7.734	105	14867	1.830	ug/ml	93
37) 4-Chloroaniline	8.057	65	14733	2.239	ug/ml	90
38) Hexachlorobutadiene	8.145	225	23200	2.129	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	31428	2.305	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	76915	2.155	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	26576	2.177	ug/ml	95
42) Hexachlorocyclopentadiene	8.875	237	22844	2.889	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	27480	2.547	ug/ml	100
44) 2,4,5-Trichlorophenol	9.022	196	29318	2.505	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	80609	2.247	ug/ml	96
47) 2-Nitroaniline	9.286	138	17978	1.912	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	7891	1.829	ug/ml	85
49) 1,3-Dinitrobenzene	9.498	168	10078	1.963	ug/ml#	1
50) Dimethyl phthalate	9.492	163	96348	2.432	ug/ml#	98
51) Acenaphthylene	9.581	152	122095	2.263	ug/ml	99
52) 2,6-Dinitrotoluene	9.534	165	17364	2.140	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	7673	2.212	ug/ml#	1
63) 3-Nitroaniline	9.692	138	18646	2.077	ug/ml	99
64) Acenaphthene	9.757	154	73152	2.187	ug/ml	91
65) 2,4-Dinitrophenol	9.798	184	7098	2.180	ug/ml	88
66) Dibenzofuran	9.928	168	124602	2.269	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	22438	1.998	ug/ml	93
68) 4-Nitrophenol	9.881	65	15543	2.053	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.016	232	24185	2.575	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	23877	2.507	ug/ml	98
71)	Diethyl phthalate	10.192	149	94958	2.459	ug/ml	97
72)	Fluorene	10.263	166	95021	2.302	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.281	204	48015	2.258	ug/ml	89
74)	4-Nitroaniline	10.286	138	19073	2.108	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	10235	1.982	ug/ml#	65
76)	NDPA/DPA	10.398	169	82088	2.479	ug/ml	95
77)	Azobenzene	10.433	77	91105	2.341	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	26481	2.373	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	30207	2.453	ug/ml#	85
81)	Pentachlorophenol	11.004	266	17540	2.514	ug/ml	99
88)	Phenanthrene	11.192	178	148667	2.198	ug/ml	99
89)	Anthracene	11.245	178	149282	2.336	ug/ml	99
90)	Carbazole	11.410	167	136900	2.361	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	151033	2.448	ug/ml	99
92)	Fluoranthene	12.357	202	171304	2.354	ug/ml#	92
93)	Benzidine	12.504	184	98680	2.512	ug/ml#	94
94)	Pyrene	12.574	202	183111	2.325	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	59665	2.388	ug/ml	94
104)	Benzo(a)anthracene	13.827	228	176990	2.348	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	58805	2.587	ug/ml#	96
106)	Chrysene	13.863	228	173773	2.290	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	98585	2.626	ug/ml#	96
108)	Di-n-octylphthalate	14.633	149	149078	2.664	ug/ml#	74
109)	Benzo(b)fluoranthene	14.957	252	163103	2.496	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	157224	2.327	ug/ml#	94
111)	Benzo(a)pyrene	15.274	252	141779	2.421	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.351	276	139453M6	2.546	ug/mL	
114)	Dibenzo(a,h)anthracene	16.374	278	138436	2.410	ug/ml#	90
115)	Benzo(ghi)perylene	16.621	276	135255	2.347	ug/ml#	87

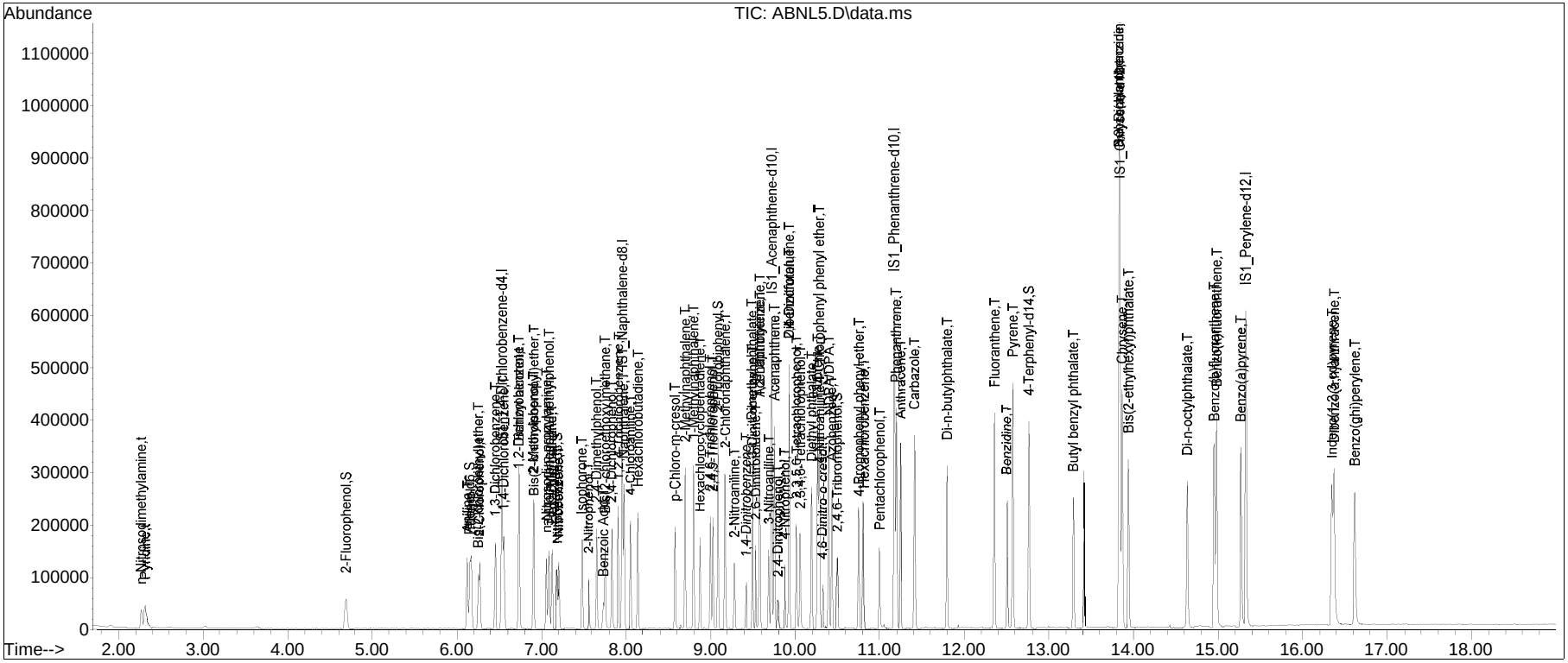
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

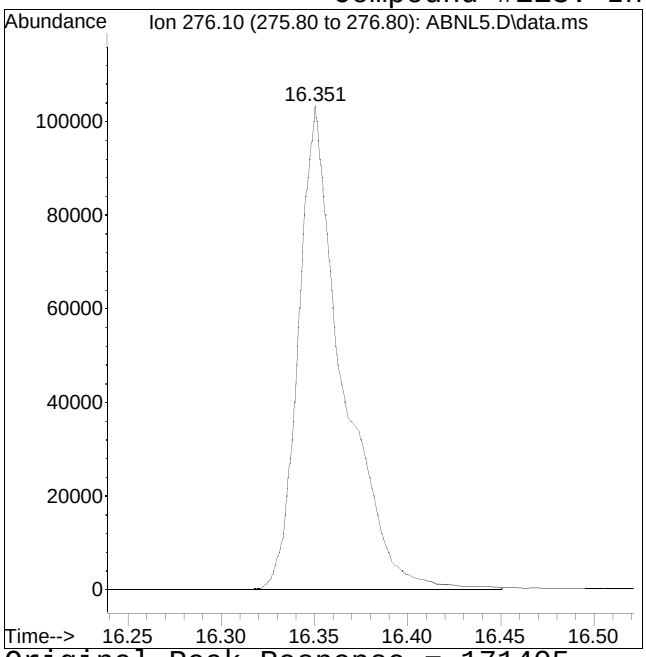
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



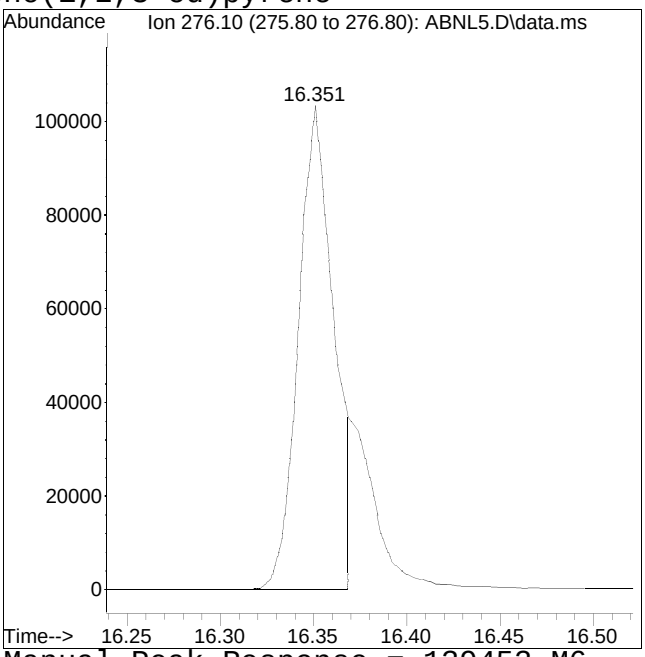
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL5.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:15 pm Instrument : SV107
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 171405



Manual Peak Response = 139453 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	47882	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 91.99%			
34) IS1_Naphthalene-d8	7.957	136	173049	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 90.91%			
62) IS1_Acenaphthene-d10	9.728	164	107016	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 86.32%			
87) IS1_Phenanthrene-d10	11.175	188	213882	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 84.79%			
103) IS1_Chrysene-d12	13.839	240	198208	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 84.73%			
112) IS1_Perylene-d12	15.327	264	204859	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.98%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	11542	0.822	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.10%			
7) Phenol-d6	6.157	99	14374	0.807	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.35%			
19) Nitrobenzene-d5	7.187	82	12092	0.741	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.10%			
45) 2-Fluorobiphenyl	9.081	172	34242	0.860	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.00%			
78) 2,4,6-Tribromophenol	10.498	330	4507	1.127	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 56.35%			
95) 4-Terphenyl-d14	12.763	244	43560	0.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 92.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	7670	0.777	ug/ml#	72
3) Pyridine	2.322	79	12809	0.893	ug/ml#	59
5) Aniline	6.128	93	18846	0.891	ug/ml	96
6) 2-Chlorophenol	6.275	128	12212	0.792	ug/ml	94
8) Phenol	6.175	94	15459	0.797	ug/ml	96
9) Bis(2-chloroethyl)ether	6.251	93	12397	0.770	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	15335	0.802	ug/ml	96
11) 1,4-Dichlorobenzene	6.551	146	15625	0.797	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	15217	0.815	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	10673	0.837	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	17153	0.789	ug/ml#	45
15) 2-Methylphenol	6.904	108	10850	0.799	ug/ml	97
16) Hexachloroethane	7.122	117	5695	0.816	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	9423	0.860	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.087	108	11799	0.803	ug/ml	95
20) Nitrobenzene	7.204	77	12536	0.750	ug/ml	95
21) Isophorone	7.487	82	25850	0.897	ug/ml	97
22) 2-Nitrophenol	7.563	139	4723	0.688	ug/ml#	93
23) 2,4-Dimethylphenol	7.657	107	12053	1.052	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	16927	0.871	ug/ml#	97
25) 2,4-Dichlorophenol	7.828	162	11726	0.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	13712	0.784	ug/ml	97
35) Naphthalene	7.975	128	38557	0.794	ug/ml	99
36) Benzoic Acid	7.722	105	2689	0.869	ug/ml#	84
37) 4-Chloroaniline	8.057	65	4974	0.837	ug/ml	82
38) Hexachlorobutadiene	8.145	225	7822	0.794	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	11029	0.895	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	27453	0.851	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	9382	0.851	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	7325	1.025	ug/ml	96
43) 2,4,6-Trichlorophenol	8.992	196	9310	0.955	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	9747	0.922	ug/ml	96
46) 2-Chloronaphthalene	9.175	162	28231	0.871	ug/ml	96
47) 2-Nitroaniline	9.292	138	5856	0.866	ug/ml	93
48) 1,4-Dinitrobenzene	9.422	168	2377	0.833	ug/ml	90
49) 1,3-Dinitrobenzene	9.498	168	3227	0.696	ug/ml#	1
50) Dimethyl phthalate	9.492	163	34231	0.956	ug/ml#	98
51) Acenaphthylene	9.581	152	43434	0.891	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	5358	0.814	ug/ml	86
53) 1,2-Dinitrobenzene	9.581	168	2371	0.843	ug/ml#	1
63) 3-Nitroaniline	9.692	138	5549	0.685	ug/ml#	91
64) Acenaphthene	9.757	154	27580	0.914	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	1637	1.089	ug/ml	88
66) Dibenzofuran	9.928	168	44001	0.888	ug/ml	94
67) 2,4-Dinitrotoluene	9.928	165	6766	0.761	ug/ml#	86
68) 4-Nitrophenol	9.880	65	4785	0.701	ug/ml#	92
69) 2,3,5,6-Tetrachlorophenol	10.022	232	7620	0.899	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	7797	0.908	ug/ml	99
71)	Diethyl phthalate	10.192	149	32198	0.925	ug/ml	97
72)	Fluorene	10.263	166	33268	0.894	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	16775	0.875	ug/ml	89
74)	4-Nitroaniline	10.286	138	5890	0.722	ug/ml#	88
75)	4,6-Dinitro-o-cresol	10.322	198	2568	0.826	ug/ml#	82
76)	NDPA/DPA	10.398	169	28267	0.946	ug/ml	93
77)	Azobenzene	10.433	77	31686	0.903	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	8962	0.890	ug/ml#	89
80)	Hexachlorobenzene	10.810	284	11017	0.992	ug/ml#	87
81)	Pentachlorophenol	11.004	266	4887	0.963	ug/ml	99
88)	Phenanthrene	11.192	178	52508	0.883	ug/ml	98
89)	Anthracene	11.245	178	50911	0.906	ug/ml	99
90)	Carbazole	11.410	167	47456	0.931	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	49974	0.922	ug/ml	99
92)	Fluoranthene	12.357	202	58826	0.920	ug/ml#	92
93)	Benzidine	12.504	184	30384	0.880	ug/ml#	95
94)	Pyrene	12.574	202	64332	0.930	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	17420	1.040	ug/ml	98
104)	Benzo(a)anthracene	13.827	228	60892	0.911	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	18732	0.930	ug/ml#	97
106)	Chrysene	13.863	228	62455	0.929	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	27519	0.935	ug/ml#	94
108)	Di-n-octylphthalate	14.627	149	39122	1.025	ug/ml#	78
109)	Benzo(b)fluoranthene	14.951	252	51194	0.884	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	55477	0.926	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	46234	0.891	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.339	276	41077M6	0.852	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	46981	0.929	ug/ml#	91
115)	Benzo(ghi)perylene	16.609	276	46738	0.921	ug/ml#	88

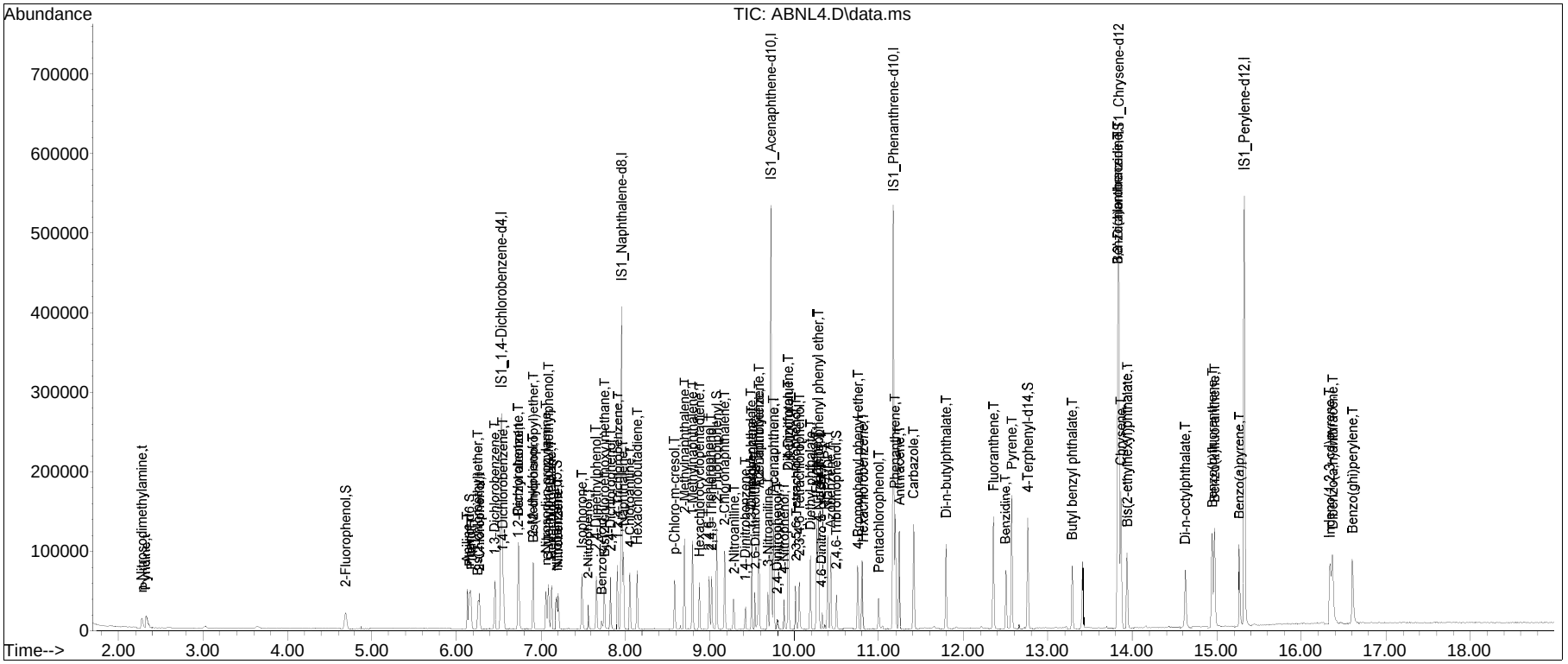
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

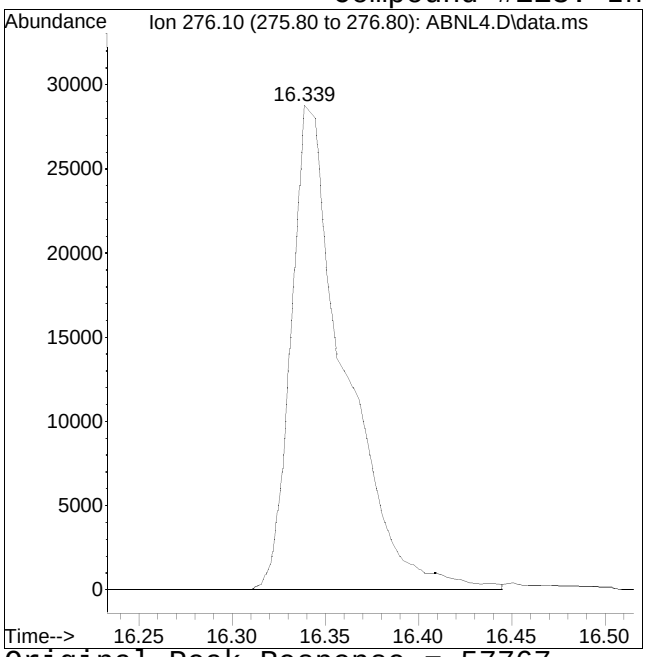
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



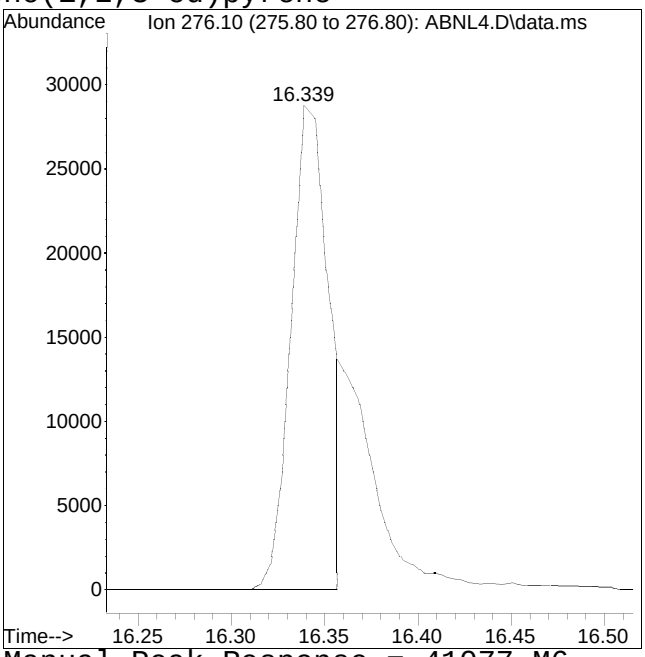
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL4.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:40 pm Instrument : SV107
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 57767



Manual Peak Response = 41077 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	45910	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 88.20%			
34) IS1_Naphthalene-d8	7.957	136	170517	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 89.58%			
62) IS1_Acenaphthene-d10	9.727	164	104536	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 84.32%			
87) IS1_Phenanthrene-d10	11.168	188	215844	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 85.57%			
103) IS1_Chrysene-d12	13.839	240	194131	4.000	ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 82.99%			
112) IS1_Perylene-d12	15.327	264	212656	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 88.21%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	6630	0.493	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.65%			
7) Phenol-d6	6.157	99	8372	0.491	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.55%			
19) Nitrobenzene-d5	7.186	82	6623	0.423	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 42.30%			
45) 2-Fluorobiphenyl	9.080	172	20041	0.511	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.10%			
78) 2,4,6-Tribromophenol	10.498	330	2183	0.559	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.95%			
95) 4-Terphenyl-d14	12.762	244	24689	0.520	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.00%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	4316	0.456	ug/ml#	76
3) Pyridine	2.328	79	7601	0.553	ug/ml#	57
5) Aniline	6.128	93	10454	0.516	ug/ml	97
6) 2-Chlorophenol	6.275	128	7248	0.490	ug/ml	91
8) Phenol	6.175	94	8946	0.481	ug/ml	98
9) Bis(2-chloroethyl)ether	6.257	93	7474	0.484	ug/ml	87
10) 1,3-Dichlorobenzene	6.457	146	8644	0.472	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	8910	0.474	ug/ml	93
12) 1,2-Dichlorobenzene	6.733	146	8601	0.480	ug/ml	99

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	5941	0.486	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.910	45	10112	0.485	ug/ml#	48
15) 2-Methylphenol	6.904	108	6154	0.472	ug/ml	97
16) Hexachloroethane	7.122	117	3438	0.514	ug/ml#	71
17) n-Nitrosodi-n-propylamine	7.063	70	5048	0.480	ug/ml#	83
18) 3-Methylphenol/4-Methy...	7.086	108	6220	0.441	ug/ml	96
20) Nitrobenzene	7.204	77	6977	0.435	ug/ml	91
21) Isophorone	7.486	82	13605	0.492	ug/ml	97
22) 2-Nitrophenol	7.563	139	2382	0.362	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	6407	0.583	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.751	93	9006	0.483	ug/ml#	98
25) 2,4-Dichlorophenol	7.828	162	6393	0.497	ug/ml#	92
26) 1,2,4-Trichlorobenzene	7.910	180	8107	0.483	ug/ml	95
35) Naphthalene	7.975	128	22638	0.473	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	2759	0.471	ug/ml	88
38) Hexachlorobutadiene	8.145	225	4841	0.499	ug/ml	97
39) p-Chloro-m-cresol	8.580	107	5428	0.447	ug/ml	95
40) 2-Methylnaphthalene	8.698	142	15343	0.483	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	5220	0.480	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	4257	0.605	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	4869	0.507	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	5185	0.498	ug/ml	97
46) 2-Chloronaphthalene	9.175	162	16161	0.506	ug/ml	96
47) 2-Nitroaniline	9.286	138	3064	0.589	ug/ml	91
48) 1,4-Dinitrobenzene	9.422	168	1225	0.595	ug/ml	83
49) 1,3-Dinitrobenzene	9.498	168	1423	0.311	ug/ml#	1
50) Dimethyl phthalate	9.492	163	18011	0.511	ug/ml	98
51) Acenaphthylene	9.580	152	23230	0.483	ug/ml	98
52) 2,6-Dinitrotoluene	9.533	165	2476	0.449	ug/ml#	86
53) 1,2-Dinitrobenzene	9.580	168	1131	0.477	ug/ml#	1
63) 3-Nitroaniline	9.692	138	2827	0.357	ug/ml#	95
64) Acenaphthene	9.757	154	15043	0.511	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	528	0.839	ug/ml#	25
66) Dibenzofuran	9.927	168	23909	0.494	ug/ml	92
67) 2,4-Dinitrotoluene	9.927	165	3243	0.445	ug/ml#	84
68) 4-Nitrophenol	9.880	65	2237	0.335	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.022	232	4086	0.494	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	3872	0.462	ug/ml	99
71)	Diethyl phthalate	10.192	149	17886	0.526	ug/ml	99
72)	Fluorene	10.263	166	18068	0.497	ug/ml	91
73)	4-Chlorophenyl phenyl ...	10.280	204	9280	0.495	ug/ml	90
74)	4-Nitroaniline	10.286	138	2755	0.346	ug/ml#	91
75)	4,6-Dinitro-o-cresol	10.321	198	1106	0.577	ug/ml#	72
76)	NDPA/DPA	10.398	169	15682	0.537	ug/ml	96
77)	Azobenzene	10.427	77	17021	0.496	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.751	248	5266	0.536	ug/ml#	86
80)	Hexachlorobenzene	10.804	284	5909	0.545	ug/ml#	89
81)	Pentachlorophenol	11.004	266	2114	0.577	ug/ml	98
88)	Phenanthrene	11.192	178	30473	0.508	ug/ml	99
89)	Anthracene	11.239	178	29062	0.513	ug/ml	99
90)	Carbazole	11.410	167	25772	0.501	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	25628	0.468	ug/ml	98
92)	Fluoranthene	12.351	202	32526	0.504	ug/ml#	92
93)	Benzidine	12.504	184	15314	0.439	ug/ml#	93
94)	Pyrene	12.574	202	35309	0.506	ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	8253	0.683	ug/ml#	97
104)	Benzo(a)anthracene	13.827	228	33174	0.507	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	9158	0.464	ug/ml	98
106)	Chrysene	13.862	228	33894	0.515	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	13528	0.542	ug/ml	95
108)	Di-n-octylphthalate	14.627	149	17580	0.643	ug/ml#	79
109)	Benzo(b)fluoranthene	14.951	252	28728	0.507	ug/ml#	95
110)	Benzo(k)fluoranthene	14.980	252	29824	0.509	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	25584	0.503	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.345	276	21117M6	0.422	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	25041	0.477	ug/ml#	88
115)	Benzo(ghi)perylene	16.615	276	26511	0.503	ug/ml#	84

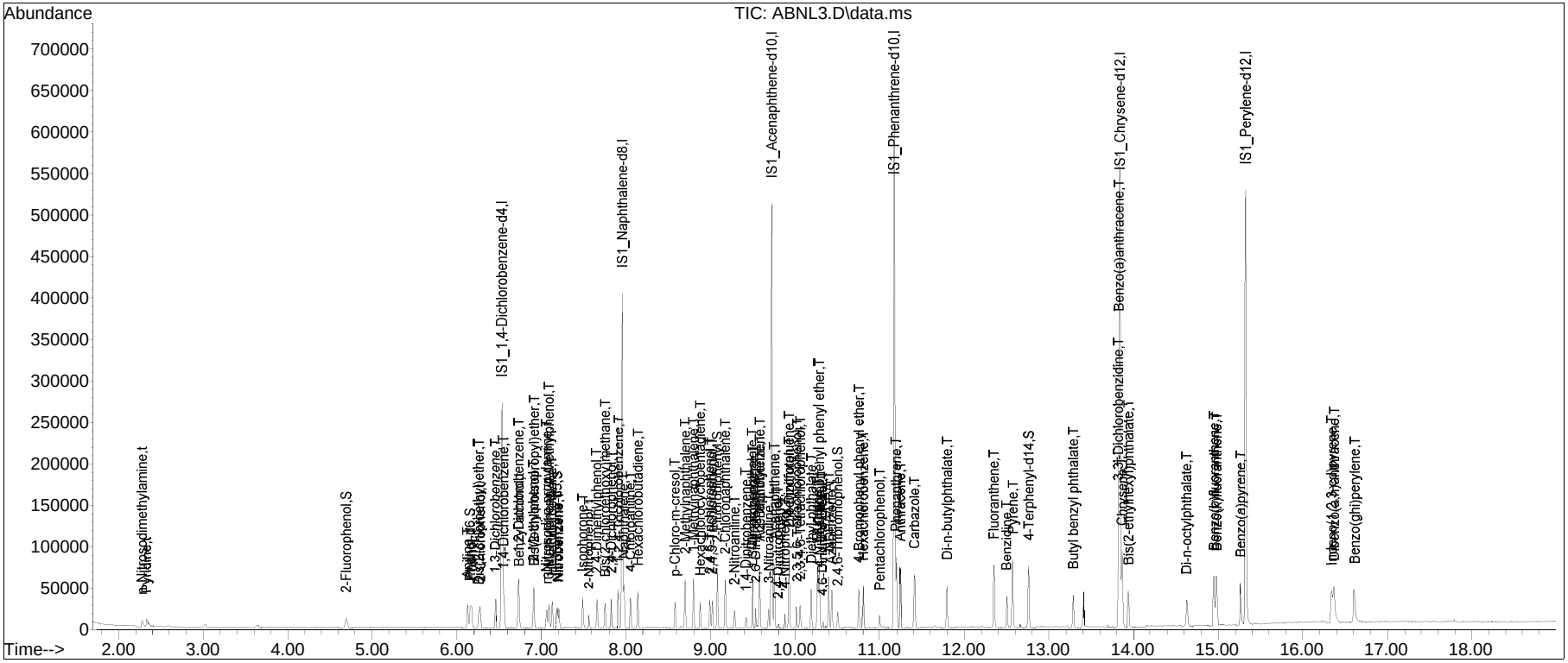
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

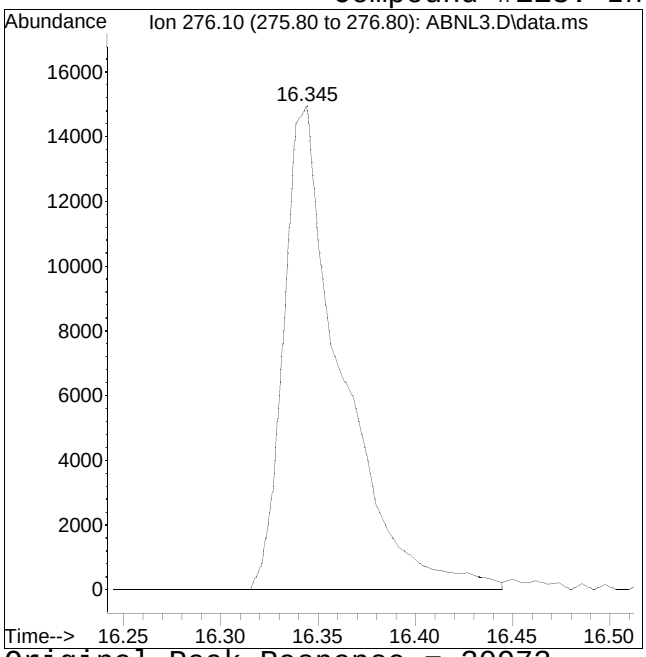
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



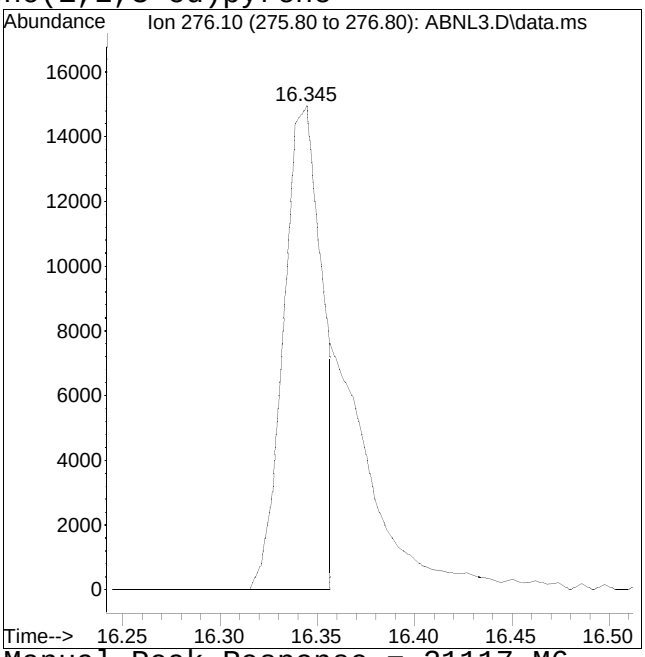
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL3.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:05 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10697 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 30973



Manual Peak Response = 21117 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	49068	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 94.27%				
34) IS1_Naphthalene-d8	7.957	136	178109	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 93.57%				
62) IS1_Acenaphthene-d10	9.727	164	109346	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 88.20%				
87) IS1_Phenanthrene-d10	11.169	188	231483	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 91.77%				
103) IS1_Chrysene-d12	13.833	240	204856	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 87.57%				
112) IS1_Perylene-d12	15.315	264	219164	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 90.91%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.692	112	2651	0.184	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.20%#				
7) Phenol-d6	6.157	99	3276	0.180	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.00%#				
19) Nitrobenzene-d5	7.186	82	2866	0.171	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 17.10%#				
45) 2-Fluorobiphenyl	9.080	172	8144	0.199	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.90%#				
78) 2,4,6-Tribromophenol	10.498	330	870	0.213	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.65%#				
95) 4-Terphenyl-d14	12.763	244	10521	0.206	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.60%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.287	74	1812	0.179	ug/ml	#	75
3) Pyridine	2.351	79	3228	0.220	ug/ml	#	54
5) Aniline	6.134	93	4255	0.196	ug/ml		99
6) 2-Chlorophenol	6.275	128	3002	0.190	ug/ml		92
8) Phenol	6.175	94	3744	0.188	ug/ml		96
9) Bis(2-chloroethyl)ether	6.257	93	3295	0.200	ug/ml		89
10) 1,3-Dichlorobenzene	6.463	146	3924	0.200	ug/ml		95
11) 1,4-Dichlorobenzene	6.551	146	4199	0.209	ug/ml	#	92
12) 1,2-Dichlorobenzene	6.734	146	3740	0.195	ug/ml		98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	2486	0.190	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.910	45	4227	0.190	ug/ml#	46
15) 2-Methylphenol	6.904	108	2507	0.180	ug/ml	95
16) Hexachloroethane	7.122	117	1408	0.197	ug/ml#	58
17) n-Nitrosodi-n-propylamine	7.063	70	2185	0.195	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.086	108	2751	0.183	ug/ml#	93
20) Nitrobenzene	7.204	77	2838	0.166	ug/ml#	82
21) Isophorone	7.486	82	5475	0.185	ug/ml	94
22) 2-Nitrophenol	7.563	139	1051	0.149	ug/ml#	81
23) 2,4-Dimethylphenol	7.657	107	2594	0.221	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	3781	0.190	ug/ml#	90
25) 2,4-Dichlorophenol	7.828	162	2571	0.187	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	3505	0.196	ug/ml	94
35) Naphthalene	7.975	128	9960	0.199	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	1080	0.176	ug/ml#	82
38) Hexachlorobutadiene	8.145	225	2203	0.217	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	2273	0.179	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	6607	0.199	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	2255	0.199	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	1916	0.260	ug/ml#	90
43) 2,4,6-Trichlorophenol	8.992	196	2019	0.201	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	2139	0.197	ug/ml	95
46) 2-Chloronaphthalene	9.175	162	7062	0.212	ug/ml	93
47) 2-Nitroaniline	9.286	138	1109	0.385	ug/ml	94
48) 1,4-Dinitrobenzene	9.422	168	438	0.423	ug/ml	95
49) 1,3-Dinitrobenzene	9.498	168	558	0.117	ug/ml#	1
50) Dimethyl phthalate	9.492	163	7982	0.217	ug/ml#	93
51) Acenaphthylene	9.580	152	10001	0.199	ug/ml	99
52) 2,6-Dinitrotoluene	9.533	165	962	0.247	ug/ml#	85
53) 1,2-Dinitrobenzene	9.580	168	338M3	0.231	ug/ml	
63) 3-Nitroaniline	9.692	138	965	0.117	ug/ml#	88
64) Acenaphthene	9.757	154	6591	0.214	ug/ml	91
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.927	168	10705	0.212	ug/ml	95
67) 2,4-Dinitrotoluene	9.927	165	1137	0.242	ug/ml#	70
68) 4-Nitrophenol	9.880	65	854	0.122	ug/ml	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	1581	0.183	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	1582	0.180	ug/ml		98
71)	Diethyl phthalate	10.192	149	7230	0.203	ug/ml		96
72)	Fluorene	10.263	166	7825	0.206	ug/ml		92
73)	4-Chlorophenyl phenyl ...	10.280	204	3942	0.201	ug/ml		90
74)	4-Nitroaniline	10.286	138	957	0.115	ug/ml	#	86
75)	4,6-Dinitro-o-cresol	10.327	198	265M2	0.425	ug/ml		
76)	NDPA/DPA	10.392	169	6543	0.214	ug/ml		97
77)	Azobenzene	10.427	77	7151	0.199	ug/ml		96
79)	4-Bromophenyl phenyl e...	10.751	248	2311	0.225	ug/ml	#	85
80)	Hexachlorobenzene	10.804	284	2664	0.235	ug/ml	#	85
81)	Pentachlorophenol	11.004	266	708	0.368	ug/ml		92
88)	Phenanthrene	11.192	178	13197	0.205	ug/ml		97
89)	Anthracene	11.239	178	12757	0.210	ug/ml		99
90)	Carbazole	11.410	167	10959	0.199	ug/ml		99
91)	Di-n-butylphthalate	11.798	149	10896	0.186	ug/ml		99
92)	Fluoranthene	12.351	202	14995	0.217	ug/ml	#	90
93)	Benzidine	12.504	184	5328	0.143	ug/ml	#	84
94)	Pyrene	12.574	202	15788	0.211	ug/ml		99
96)	Butyl benzyl phthalate	13.292	149	3375	0.486	ug/ml		95
104)	Benzo(a)anthracene	13.827	228	14868	0.215	ug/ml		96
105)	3,3'-Dichlorobenzidine	13.821	252	3454	0.166	ug/ml	#	96
106)	Chrysene	13.862	228	15148	0.218	ug/ml		98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	4794	0.277	ug/ml	#	94
108)	Di-n-octylphthalate	14.621	149	6797	0.436	ug/ml	#	86
109)	Benzo(b)fluoranthene	14.939	252	12507	0.209	ug/ml	#	94
110)	Benzo(k)fluoranthene	14.968	252	12503	0.202	ug/ml	#	95
111)	Benzo(a)pyrene	15.262	252	10380	0.193	ug/ml	#	92
113)	Indeno(1,2,3-cd)pyrene	16.339	276	8551M6	0.166	ug/mL		
114)	Dibenzo(a,h)anthracene	16.362	278	9182	0.170	ug/ml	#	88
115)	Benzo(ghi)perylene	16.603	276	10140	0.187	ug/ml	#	86

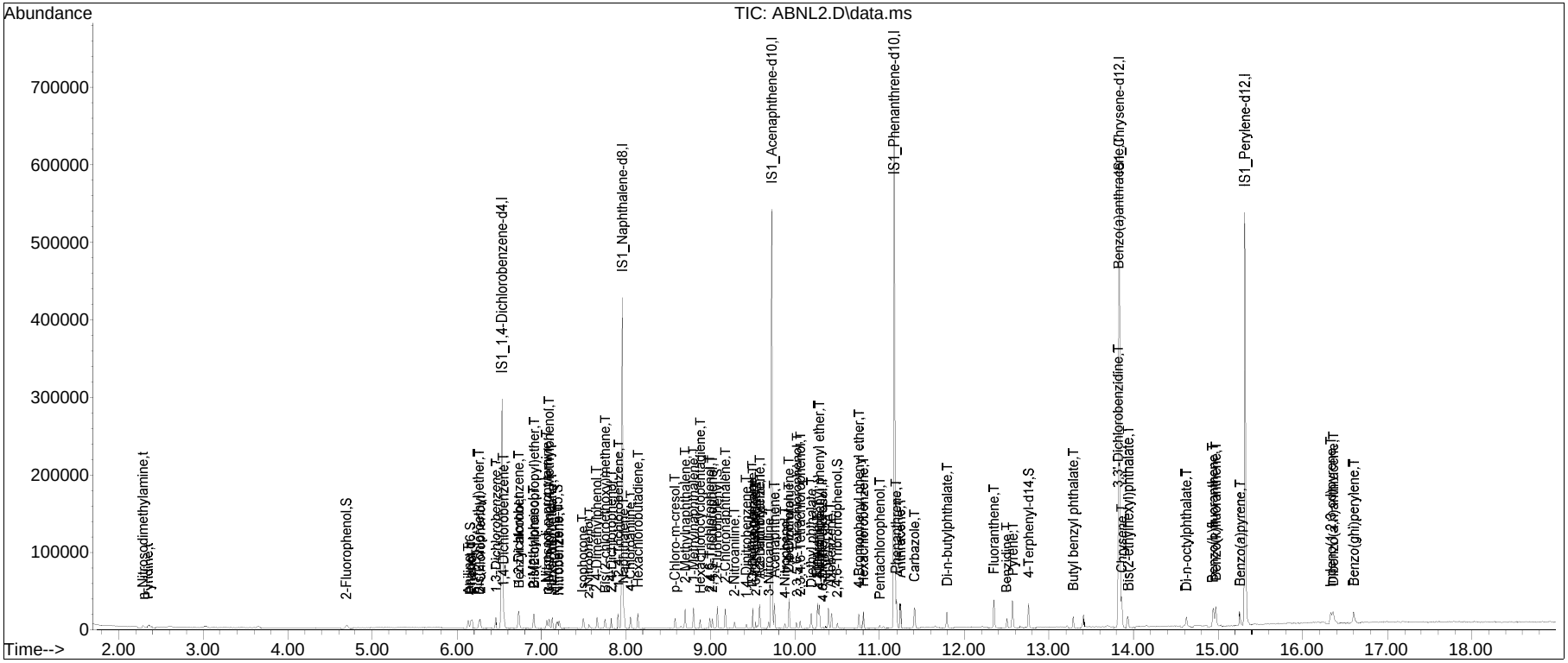
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

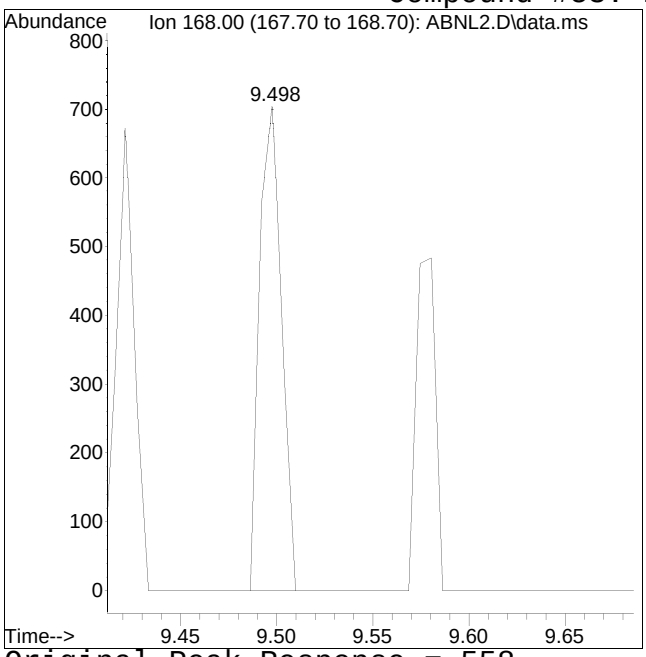
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

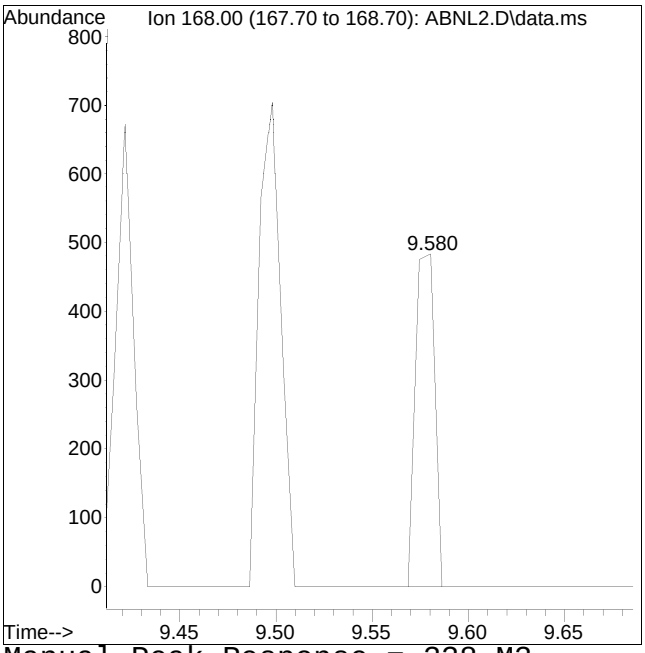


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #53: 1,2-Dinitrobenzene





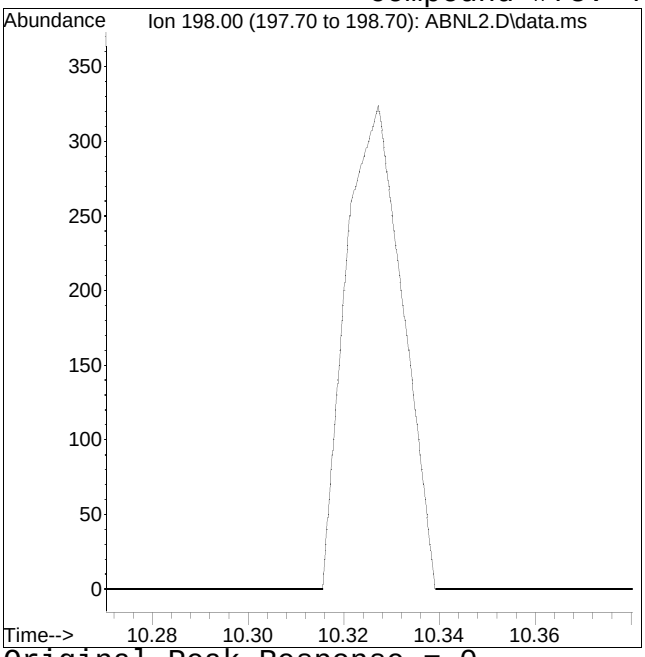
Original Peak Response = 558 Manual Peak Response = 338 M3

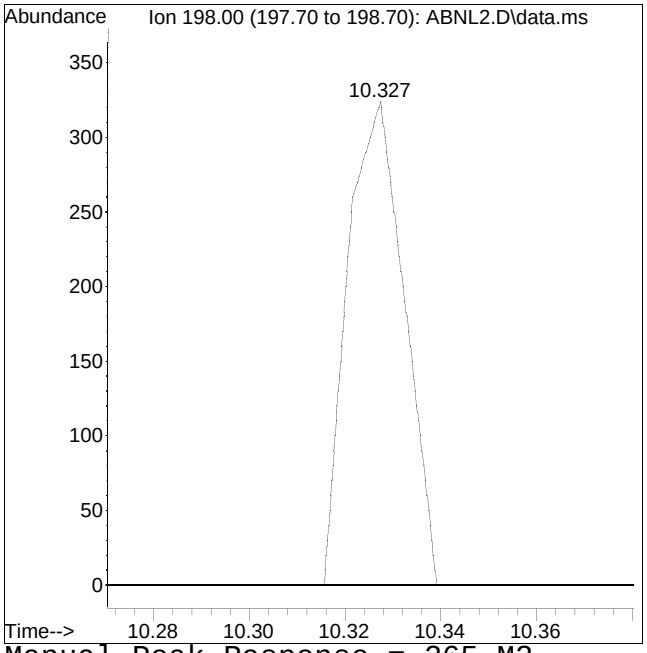
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #75: 4,6-Dinitro-o-cresol



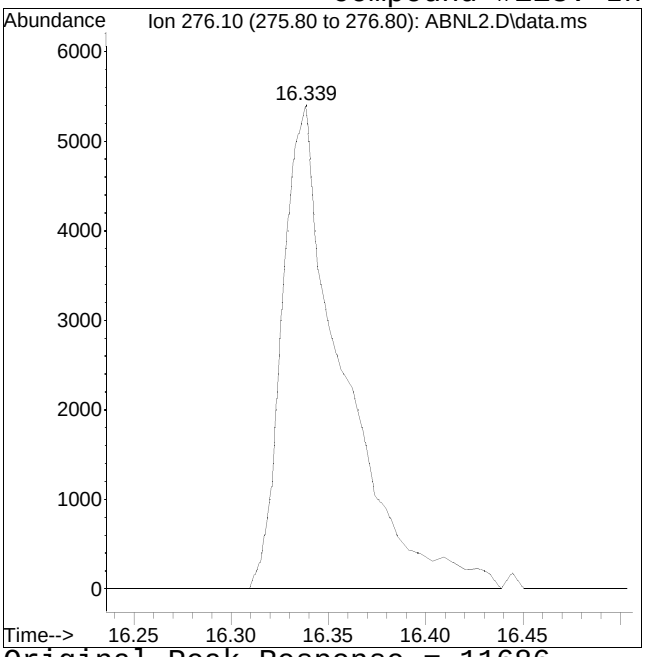


Original Peak Response = 0 Manual Peak Response = 265 M2
M2 = Peak not found by automatic integration algorithm.

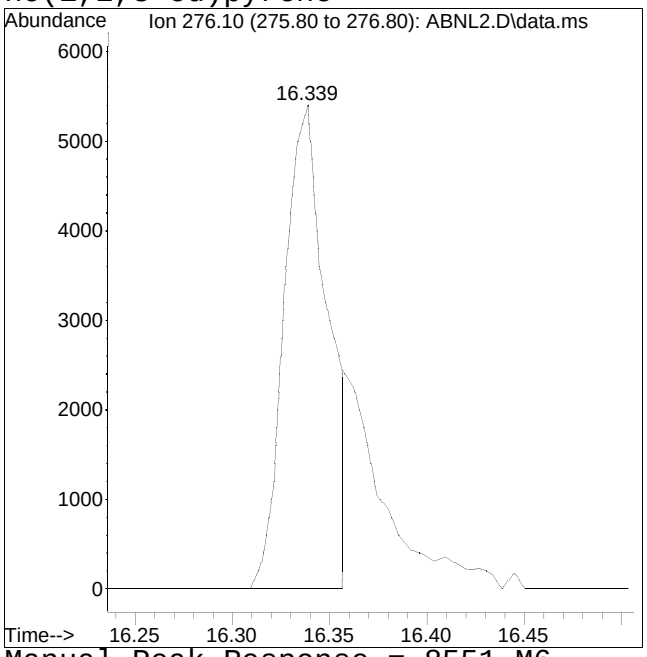
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 11686



Manual Peak Response = 8551 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	50386	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 96.80%				
34) IS1_Naphthalene-d8	7.957	136	184640	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 97.00%				
62) IS1_Acenaphthene-d10	9.728	164	112329	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 90.61%				
87) IS1_Phenanthrene-d10	11.174	188	235335	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 93.29%				
103) IS1_Chrysene-d12	13.833	240	210802	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 90.11%				
112) IS1_Perylene-d12	15.315	264	224865	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 93.28%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.693	112	1303	0.088	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.40%#				
7) Phenol-d6	6.157	99	1610	0.086	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.30%#				
19) Nitrobenzene-d5	7.186	82	1368	0.080	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 8.00%#				
45) 2-Fluorobiphenyl	9.081	172	4156	0.098	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 9.80%#				
78) 2,4,6-Tribromophenol	10.498	330	287M2	0.068	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3.40%#				
95) 4-Terphenyl-d14	12.763	244	5373	0.104	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.40%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.281	74	830	0.080	ug/ml#		68
3) Pyridine	2.357	79	1275	0.084	ug/ml#		49
5) Aniline	6.128	93	2125	0.095	ug/ml		96
6) 2-Chlorophenol	6.275	128	1485	0.092	ug/ml#		72
8) Phenol	6.175	94	1771	0.087	ug/ml		96
9) Bis(2-chloroethyl)ether	6.257	93	1574	0.093	ug/ml#		82
10) 1,3-Dichlorobenzene	6.457	146	1915	0.095	ug/ml		99
11) 1,4-Dichlorobenzene	6.551	146	1913	0.093	ug/ml#		73

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12) 1,2-Dichlorobenzene	6.728	146	1919	0.098	ug/ml	92
13) Benzyl alcohol	6.739	79	1238	0.092	ug/ml	90
14) Bis(2-chloroisopropyl)...	6.910	45	2141	0.094	ug/ml#	36
15) 2-Methylphenol	6.904	108	1278	0.089	ug/ml#	84
16) Hexachloroethane	7.122	117	711	0.097	ug/ml#	74
17) n-Nitrosodi-n-propylamine	7.063	70	1152	0.100	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.087	108	1197	0.077	ug/ml#	83
20) Nitrobenzene	7.204	77	1429	0.081	ug/ml#	79
21) Isophorone	7.492	82	2720	0.090	ug/ml#	90
22) 2-Nitrophenol	7.563	139	373M2	0.052	ug/ml	
23) 2,4-Dimethylphenol	7.663	107	1321	0.110	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	1937	0.095	ug/ml#	89
25) 2,4-Dichlorophenol	7.828	162	1209	0.086	ug/ml#	70
26) 1,2,4-Trichlorobenzene	7.910	180	1745	0.095	ug/ml	95
35) Naphthalene	7.975	128	5001	0.097	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	594	0.094	ug/ml	96
38) Hexachlorobutadiene	8.145	225	990	0.094	ug/ml	95
39) p-Chloro-m-cresol	8.586	107	1150	0.087	ug/ml#	84
40) 2-Methylnaphthalene	8.698	142	3208	0.093	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	1117	0.095	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	836	0.110	ug/ml#	85
43) 2,4,6-Trichlorophenol	8.998	196	870	0.084	ug/ml#	84
44) 2,4,5-Trichlorophenol	9.028	196	1016	0.090	ug/ml#	73
46) 2-Chloronaphthalene	9.175	162	3292	0.095	ug/ml	97
47) 2-Nitroaniline	9.292	138	531	0.326	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	167M2	0.367	ug/ml	
49) 1,3-Dinitrobenzene	9.498	168	263M2	0.053	ug/ml	
50) Dimethyl phthalate	9.492	163	3817	0.100	ug/ml#	77
51) Acenaphthylene	9.580	152	4775	0.092	ug/ml	97
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
53) 1,2-Dinitrobenzene	9.575	168	141M2	0.172	ug/ml	
63) 3-Nitroaniline	9.692	138	431	0.051	ug/ml#	95
64) Acenaphthene	9.757	154	3186	0.101	ug/ml	93
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.928	168	5287	0.102	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	435	0.178	ug/ml#	50
68) 4-Nitrophenol	9.880	65	315M2	0.044	ug/ml	

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) 2,3,5,6-Tetrachlorophenol	10.022	232	621	0.070 ug/ml#	64
70) 2,3,4,6-Tetrachlorophenol	10.063	232	710	0.079 ug/ml#	70
71) Diethyl phthalate	10.192	149	3751	0.103 ug/ml	95
72) Fluorene	10.263	166	3853	0.099 ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.280	204	2036	0.101 ug/ml#	85
74) 4-Nitroaniline	10.286	138	419	0.049 ug/ml#	69
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.	
76) NDPA/DPA	10.398	169	3096	0.099 ug/ml	91
77) Azobenzene	10.433	77	3541	0.096 ug/ml	99
79) 4-Bromophenyl phenyl e...	10.757	248	1144	0.108 ug/ml#	88
80) Hexachlorobenzene	10.810	284	1376	0.118 ug/ml#	64
81) Pentachlorophenol	11.004	266	149M2	0.290 ug/ml	
88) Phenanthrene	11.192	178	6475	0.099 ug/ml	98
89) Anthracene	11.245	178	6079	0.098 ug/ml	99
90) Carbazole	11.410	167	5031	0.090 ug/ml	98
91) Di-n-butylphthalate	11.798	149	5415	0.091 ug/ml#	92
92) Fluoranthene	12.357	202	7036	0.100 ug/ml#	93
93) Benzidine	12.504	184	2270	0.060 ug/ml#	68
94) Pyrene	12.574	202	7718	0.101 ug/ml	98
96) Butyl benzyl phthalate	13.292	149	1667	0.424 ug/ml#	93
104) Benzo(a)anthracene	13.827	228	7685	0.108 ug/ml	98
105) 3,3'-Dichlorobenzidine	13.821	252	1677	0.078 ug/ml#	87
106) Chrysene	13.863	228	7226	0.101 ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	2517	0.211 ug/ml#	90
108) Di-n-octylphthalate	14.621	149	3310	0.373 ug/ml#	87
109) Benzo(b)fluoranthene	14.939	252	5782	0.094 ug/ml#	88
110) Benzo(k)fluoranthene	14.968	252	5672	0.089 ug/ml#	89
111) Benzo(a)pyrene	15.262	252	4646	0.084 ug/ml#	92
113) Indeno(1,2,3-cd)pyrene	16.333	276	3420M6	0.065 ug/mL	
114) Dibenzo(a,h)anthracene	16.356	278	3966	0.071 ug/ml#	86
115) Benzo(ghi)perylene	16.598	276	4504	0.081 ug/ml#	88

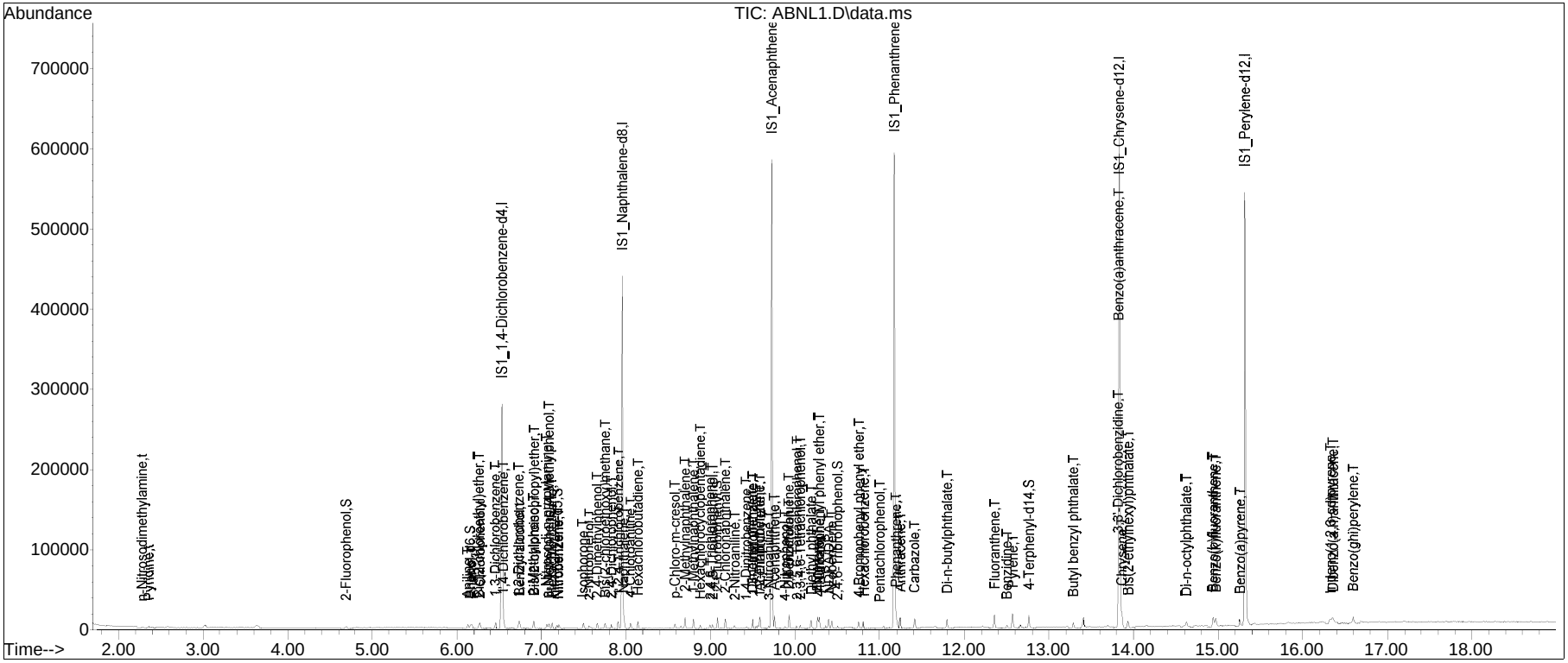
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

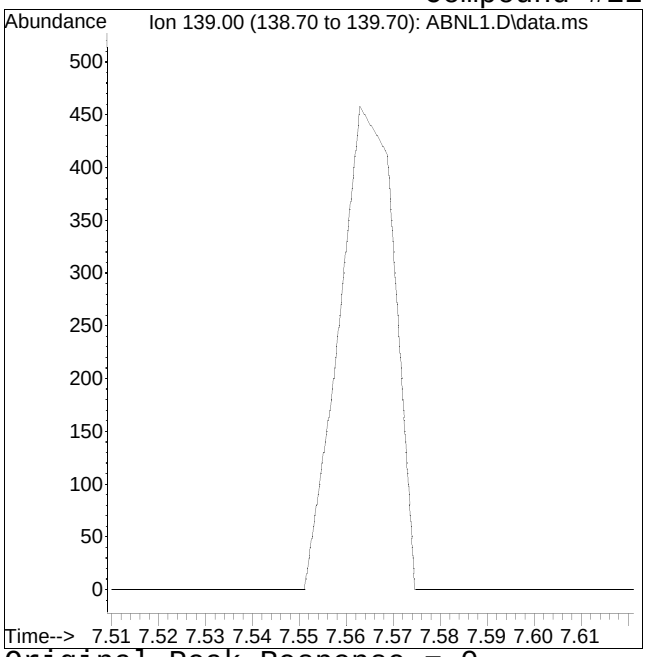
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



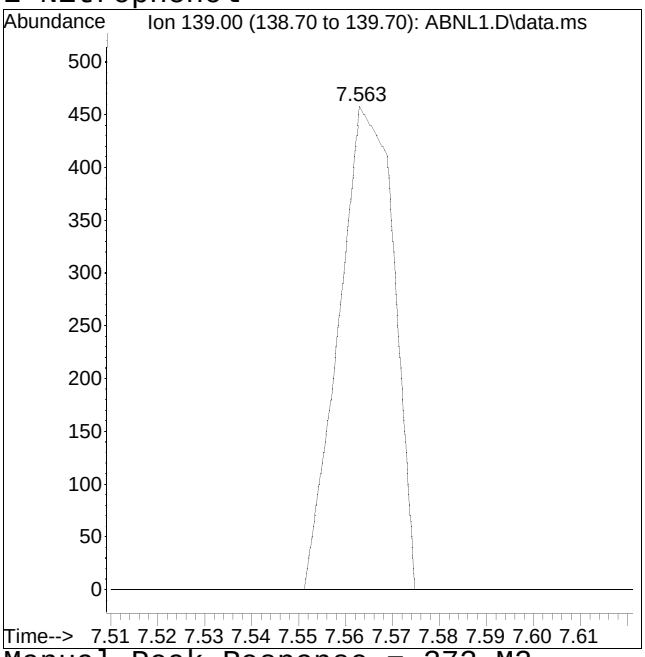
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #22: 2-Nitrophenol



Original Peak Response = 0



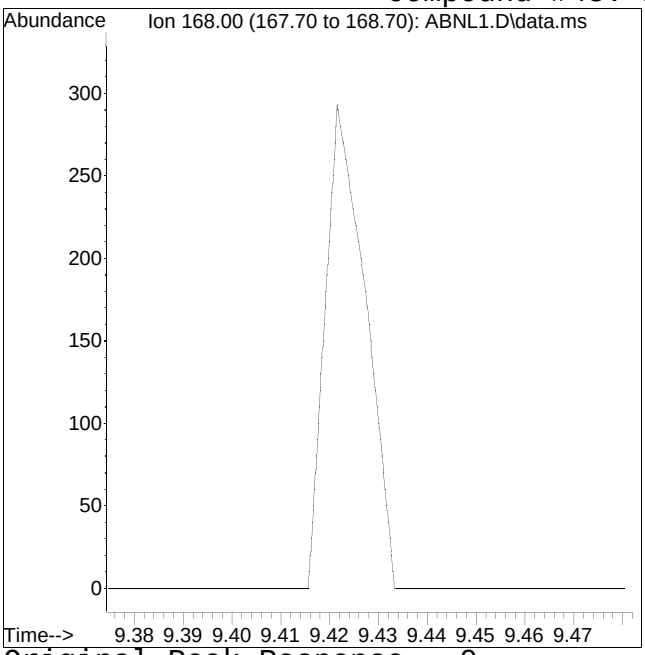
Manual Peak Response = 373 M2

M2 = Peak not found by automatic integration algorithm.

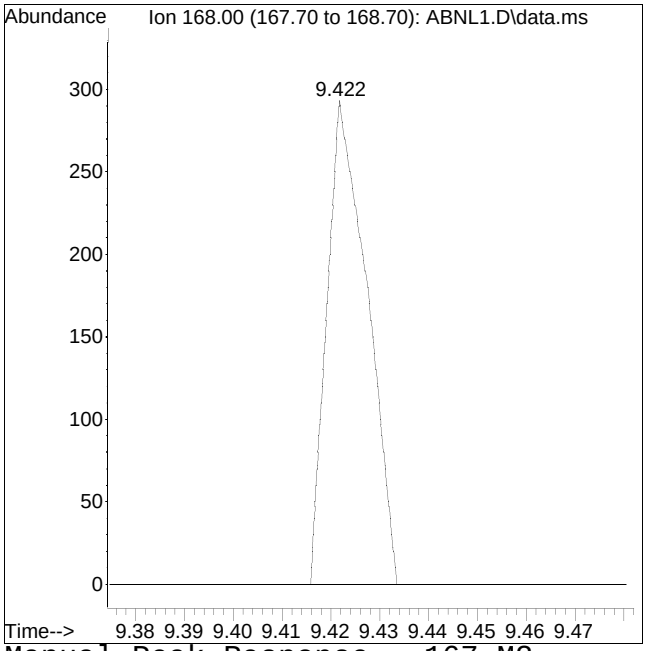
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 0



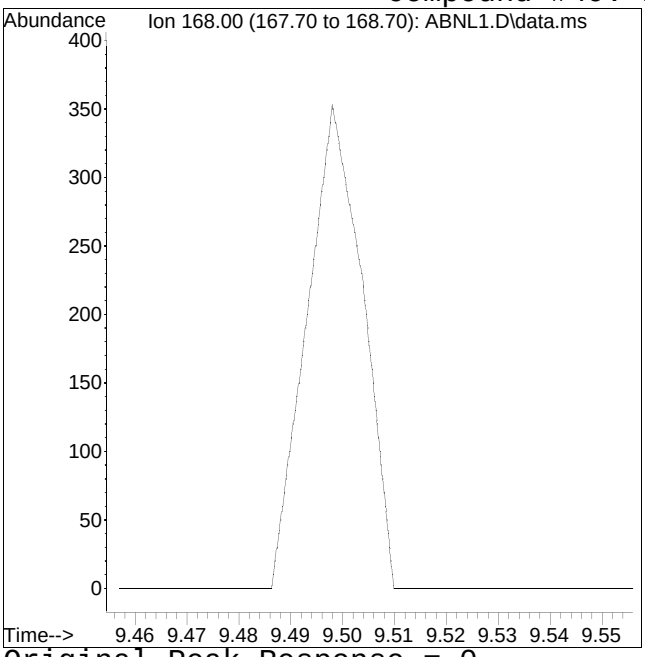
Manual Peak Response = 167 M2

M2 = Peak not found by automatic integration algorithm.

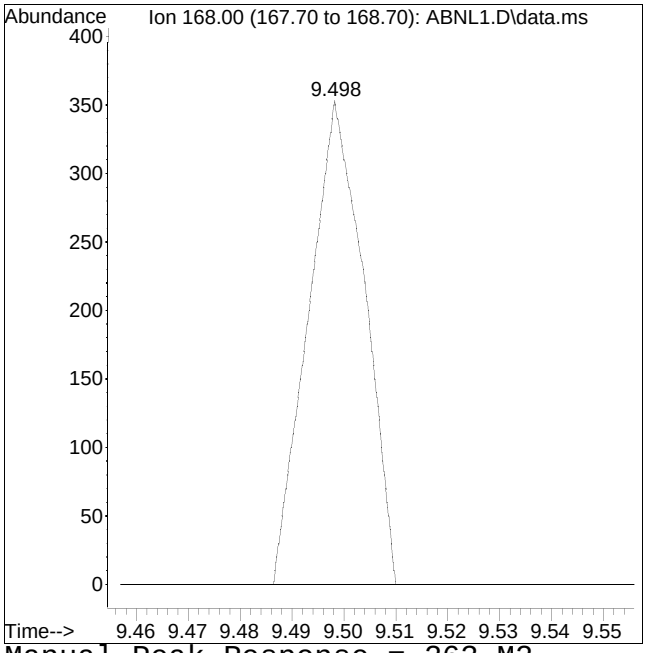
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #49: 1,3-Dinitrobenzene



Original Peak Response = 0



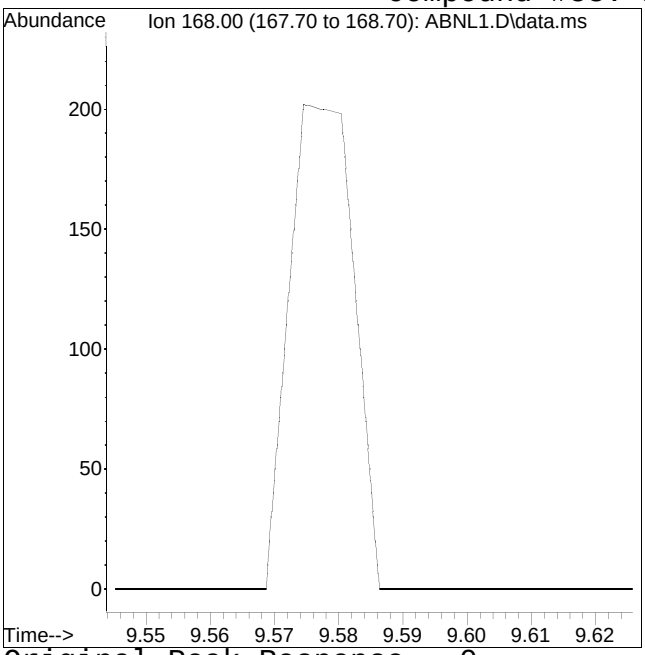
Manual Peak Response = 263 M2

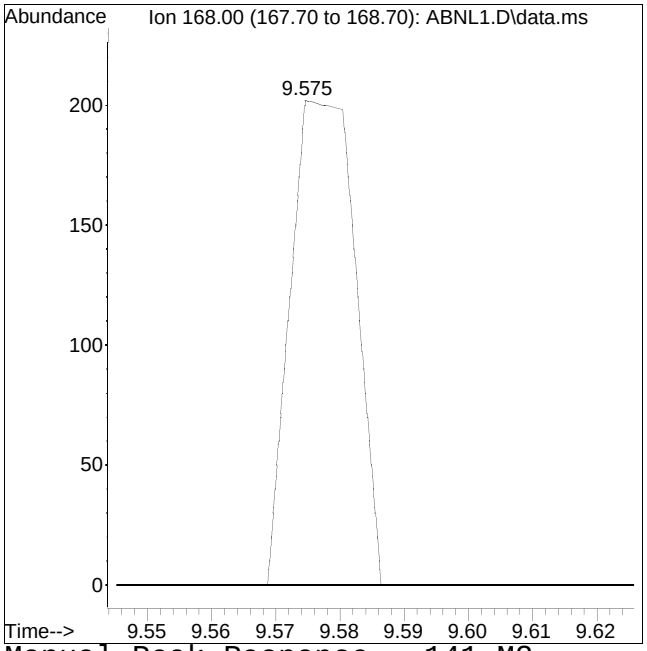
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #53: 1,2-Dinitrobenzene



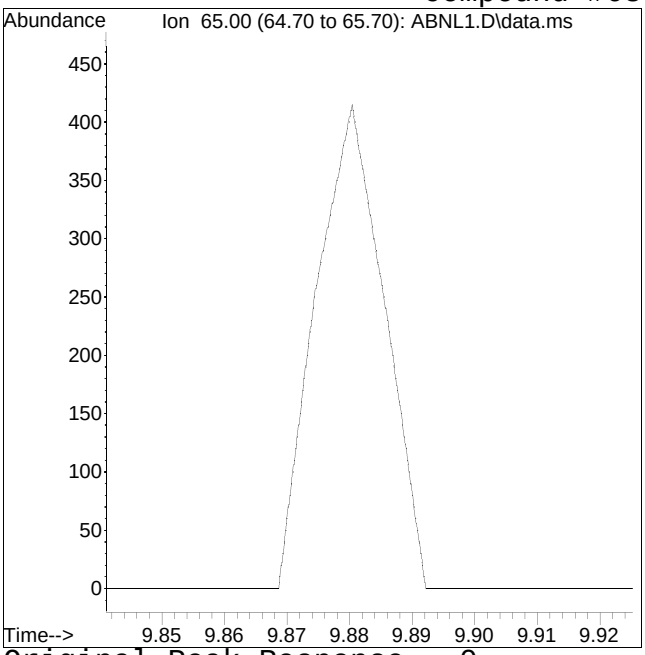


Original Peak Response = 0 Manual Peak Response = 141 M2
M2 = Peak not found by automatic integration algorithm.

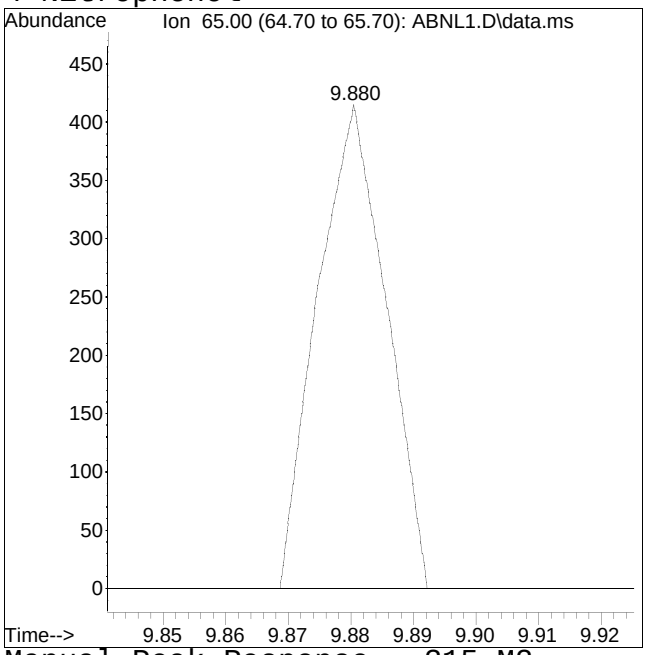
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #68: 4-Nitrophenol



Original Peak Response = 0



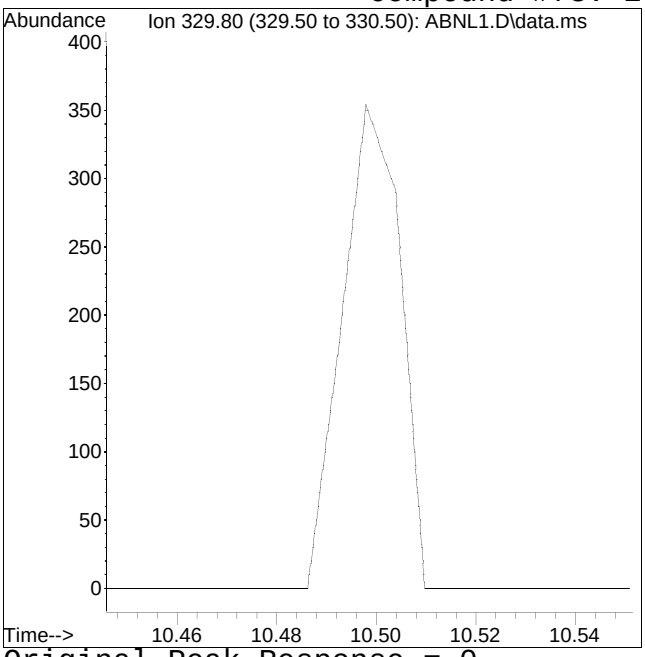
Manual Peak Response = 315 M2

M2 = Peak not found by automatic integration algorithm.

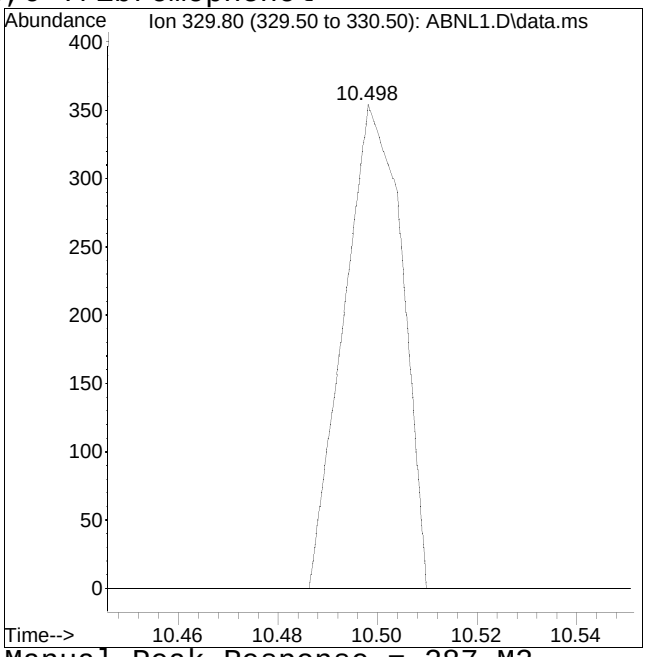
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #78: 2,4,6-Tribromophenol



Original Peak Response = 0



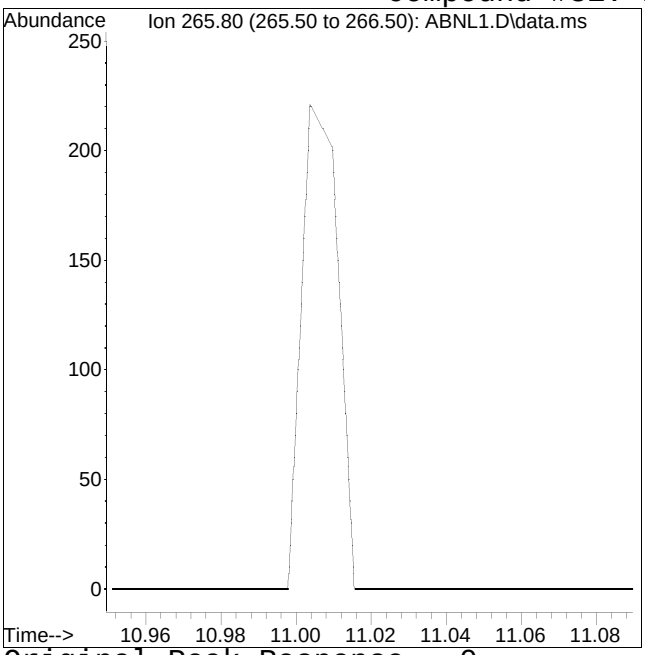
Manual Peak Response = 287 M2

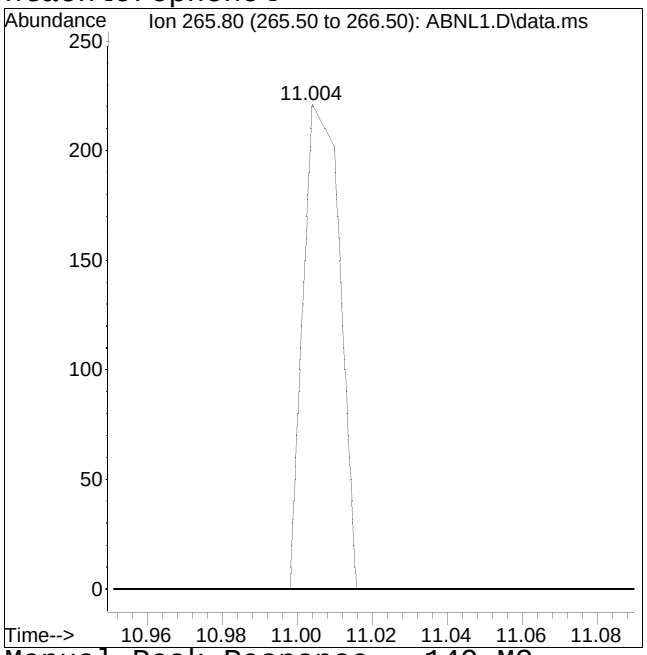
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #81: Pentachlorophenol



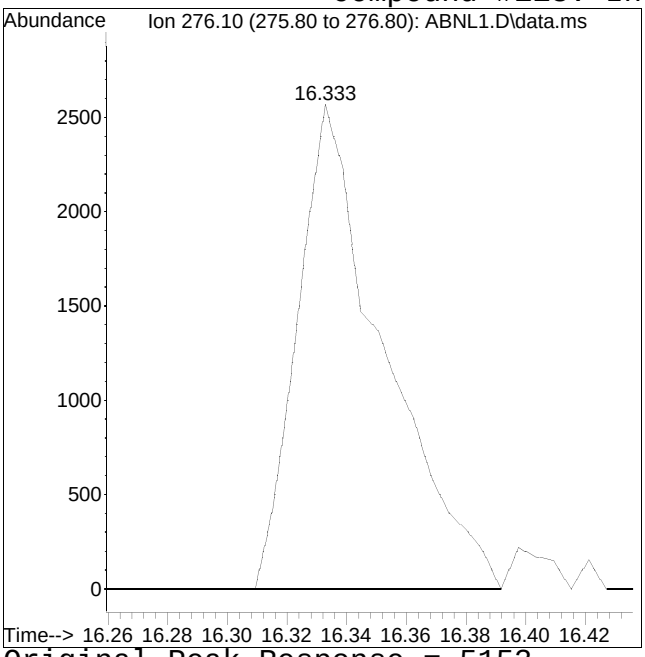


Original Peak Response = 0 Manual Peak Response = 149 M2
M2 = Peak not found by automatic integration algorithm.

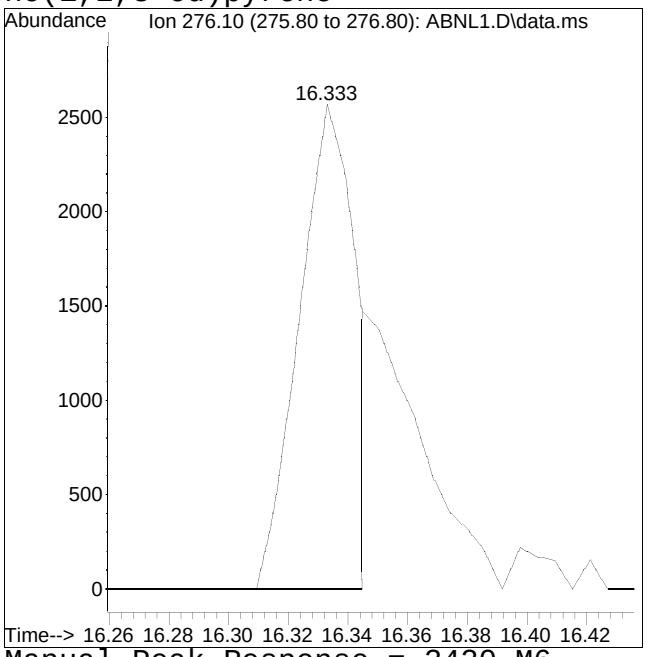
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 5153



Manual Peak Response = 3420 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	45858	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	103.27%		
54) IS2_Naphthalene-d8	7.957	136	172977	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.00%		
82) IS2_Acenaphthene-d10	9.728	164	104823	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.98%		
97) IS2_Phenanthrene-d10	11.169	188	219861	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.28%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	618134	54.604	ug/ml	98
29) Acetophenone	7.028	105	1117327	58.154	ug/ml#	82
30) m-Toluidine	7.128	106	1090647	57.246	ug/ml	95
31) 2-Chloroaniline	7.528	127	980664	57.446	ug/ml#	94
55) a-Terpineol	8.034	59	670711	61.601	ug/ml#	76
56) 3-Chloroaniline	8.039	65	344222	52.490	ug/ml	93
57) 2,6-Dichlorophenol	8.075	162	742012	64.537	ug/ml#	86
58) 1-chloro-2-nitrobenzene	8.339	111	317541	61.890	ug/ml#	1
59) Caprolactam	8.404	55	360505M3	53.080	ug/ml	
60) 1,2,4,5-Tetrachloroben...	8.875	216	906675	52.212	ug/ml	97
61) Biphenyl	9.175	154	2123620	54.675	ug/ml	98
83) Dichloran	10.869	206	258446	52.858	ug/ml#	69
84) Pentachloronitrobenzene	11.022	237	253718	57.643	ug/ml#	83
98) Diphenamid	12.080	167	1514426	74.549	ug/ml#	81

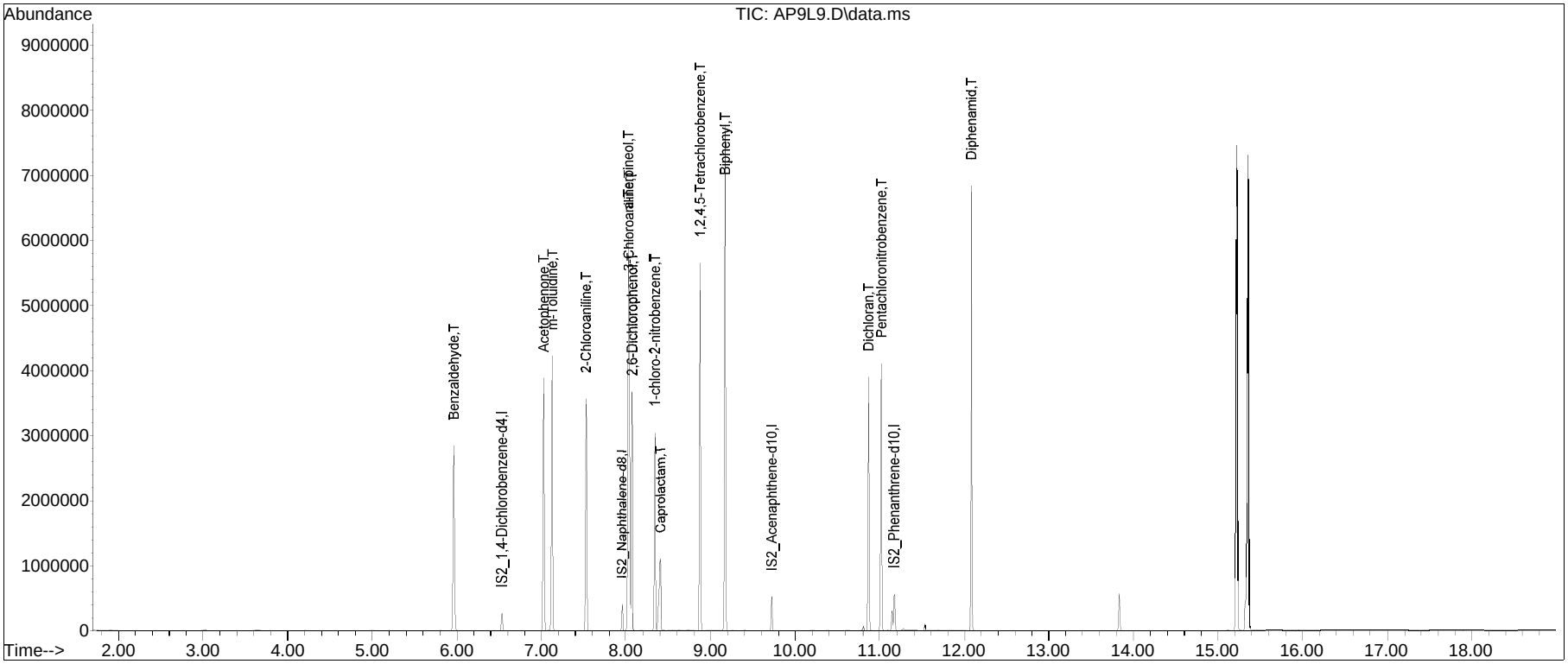
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

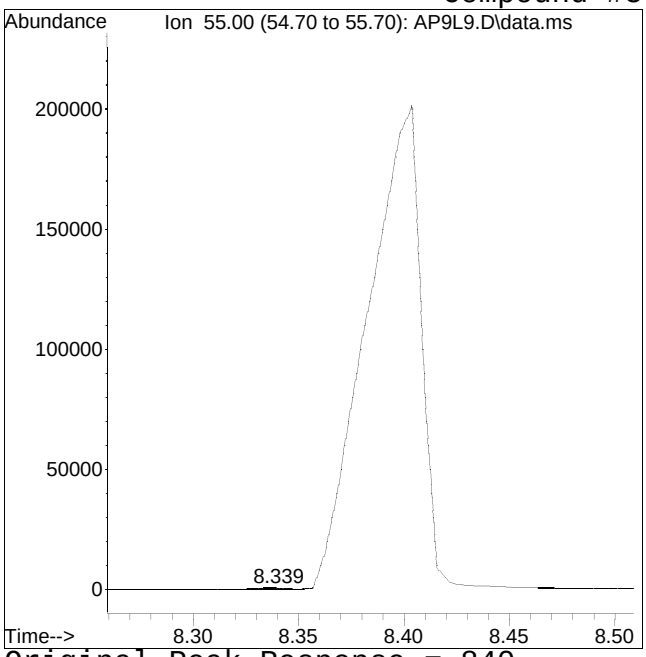
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

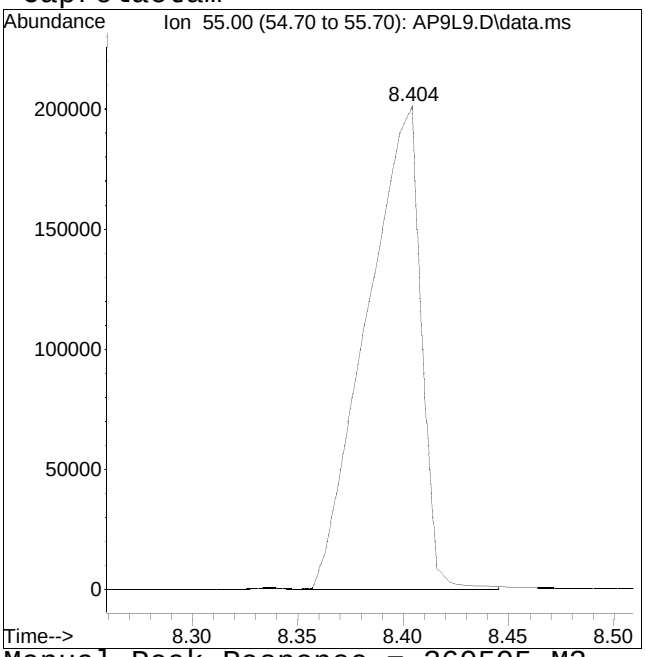


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 11:21 pm Instrument : SV107
Sample : IL2,32,,AP9L50 Lot# 10700 Quant Date : 6/3/2024 10:24 am

Compound #59: Caprolactam





Original Peak Response = 840 Manual Peak Response = 360505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	51703	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	116.43%		
54) IS2_Naphthalene-d8	7.957	136	192684	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	113.62%		
82) IS2_Acenaphthene-d10	9.727	164	119026	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	119.21%		
97) IS2_Phenanthrene-d10	11.169	188	250969	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	116.75%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	330697	25.910	ug/ml	98
29) Acetophenone	7.028	105	594302	27.435	ug/ml#	83
30) m-Toluidine	7.122	106	591629	27.543	ug/ml	95
31) 2-Chloroaniline	7.528	127	522346	27.139	ug/ml	94
55) a-Terpineol	8.028	59	360696	29.740	ug/ml#	78
56) 3-Chloroaniline	8.039	65	188453	25.798	ug/ml	91
57) 2,6-Dichlorophenol	8.069	162	398570	31.121	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.333	111	170632	29.855	ug/ml#	1
59) Caprolactam	8.386	55	201135	26.902	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.875	216	493850	25.530	ug/ml	97
61) Biphenyl	9.175	154	1167371	26.981	ug/ml	99
83) Dichloran	10.869	206	134106	27.858	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	134633	27.285	ug/ml#	83
98) Diphenamid	12.080	167	810689	34.960	ug/ml#	81

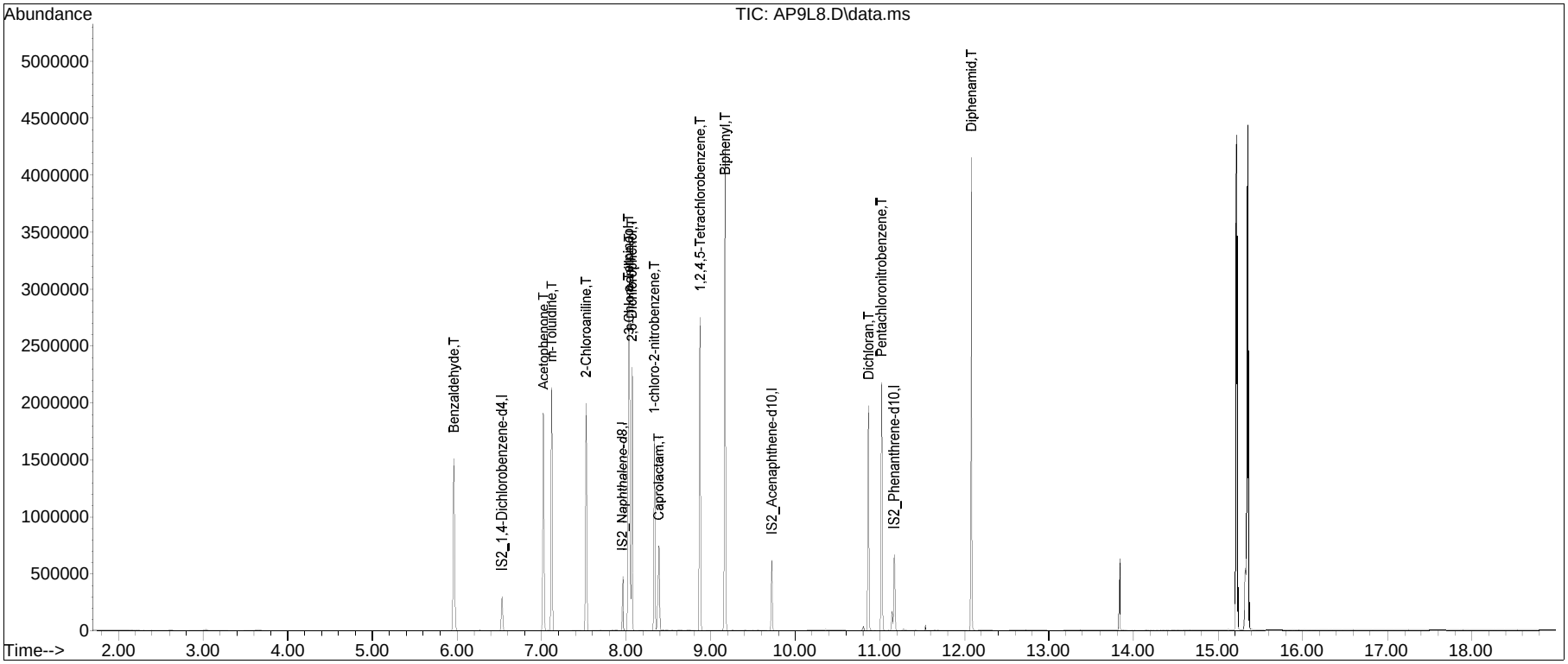
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L8.D	Operator	: SV107:jg
Date Inj'd	: 6/2/2024 11:47 pm	Instrument	: SV107
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.533	152	48096	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	108.31%		
54) IS2_Naphthalene-d8	7.957	136	179982	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.13%		
82) IS2_Acenaphthene-d10	9.727	164	110207	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	110.37%		
97) IS2_Phenanthrene-d10	11.168	188	230804	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery =	107.37%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	123578	10.408	ug/ml	99
29) Acetophenone	7.022	105	219138	10.875	ug/ml#	83
30) m-Toluidine	7.122	106	212267	10.623	ug/ml	95
31) 2-Chloroaniline	7.528	127	192499	10.752	ug/ml#	93
55) a-Terpineol	8.027	59	128933	11.381	ug/ml#	76
56) 3-Chloroaniline	8.039	65	68122	9.984	ug/ml	91
57) 2,6-Dichlorophenol	8.069	162	142626	11.922	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.333	111	59869	11.214	ug/ml#	1
59) Caprolactam	8.375	55	72277	10.740	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.874	216	178600	9.885	ug/ml	97
61) Biphenyl	9.174	154	412907	10.217	ug/ml	99
83) Dichloran	10.863	206	40375	10.432	ug/ml#	74
84) Pentachloronitrobenzene	11.016	237	44261	10.108	ug/ml#	83
98) Diphenamid	12.080	167	288397	13.523	ug/ml	82

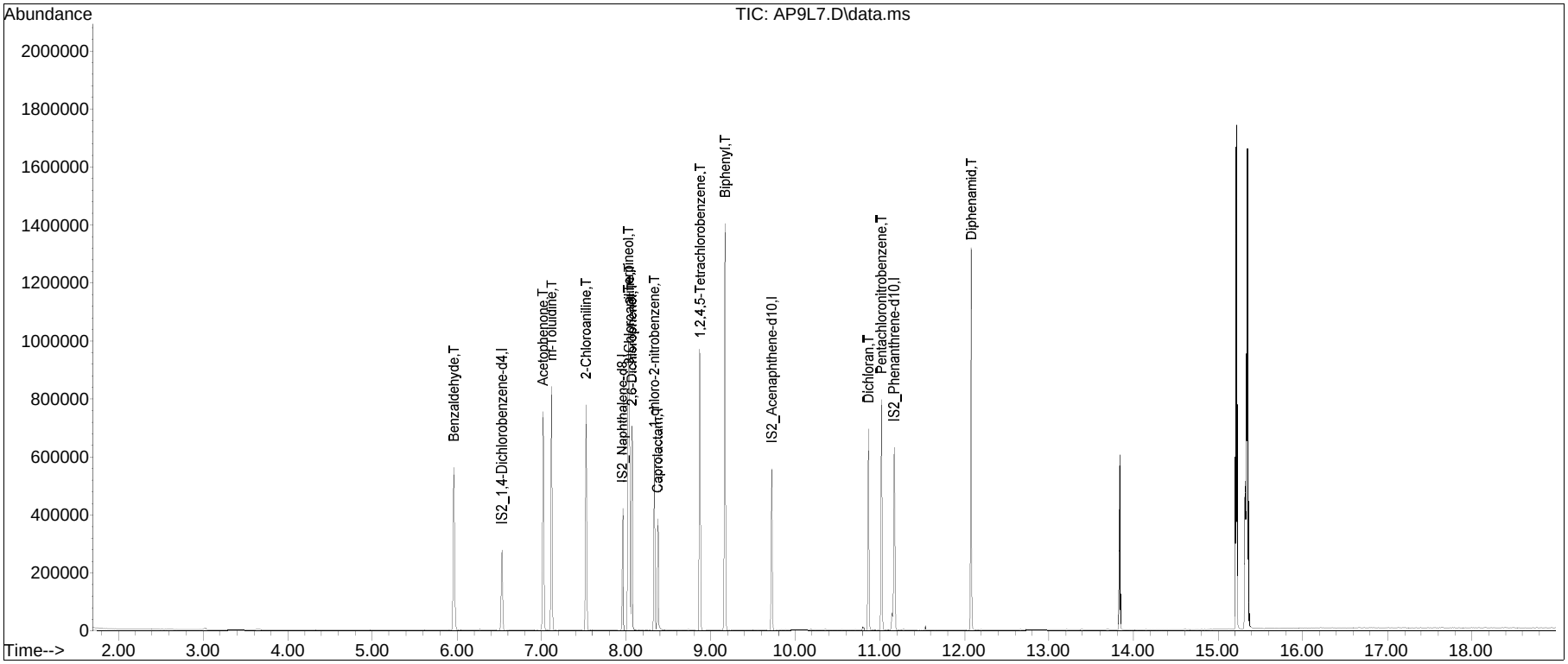
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:12 am	Instrument	: SV107
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	44406	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	100.00%		
54) IS2_Naphthalene-d8	7.957	136	169580	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	100.00%		
82) IS2_Acenaphthene-d10	9.728	164	99848	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	100.00%		
97) IS2_Phenanthrene-d10	11.169	188	214959	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	53347	4.867	ug/ml	98
29) Acetophenone	7.022	105	94421	5.075	ug/ml#	82
30) m-Toluidine	7.122	106	90846	4.924	ug/ml	94
31) 2-Chloroaniline	7.528	127	83530	5.053	ug/ml#	94
55) a-Terpineol	8.022	59	54760	5.130	ug/ml#	77
56) 3-Chloroaniline	8.034	65	29581	4.601	ug/ml	89
57) 2,6-Dichlorophenol	8.063	162	59495	5.278	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	23611	4.694	ug/ml#	1
59) Caprolactam	8.369	55	30038	5.091	ug/ml#	71
60) 1,2,4,5-Tetrachloroben...	8.869	216	78097	4.587	ug/ml	97
61) Biphenyl	9.175	154	181083	4.756	ug/ml	99
83) Dichloran	10.863	206	14102	4.535	ug/ml#	80
84) Pentachloronitrobenzene	11.016	237	16652	4.578	ug/ml#	83
98) Diphenamid	12.074	167	116240	5.852	ug/ml#	81

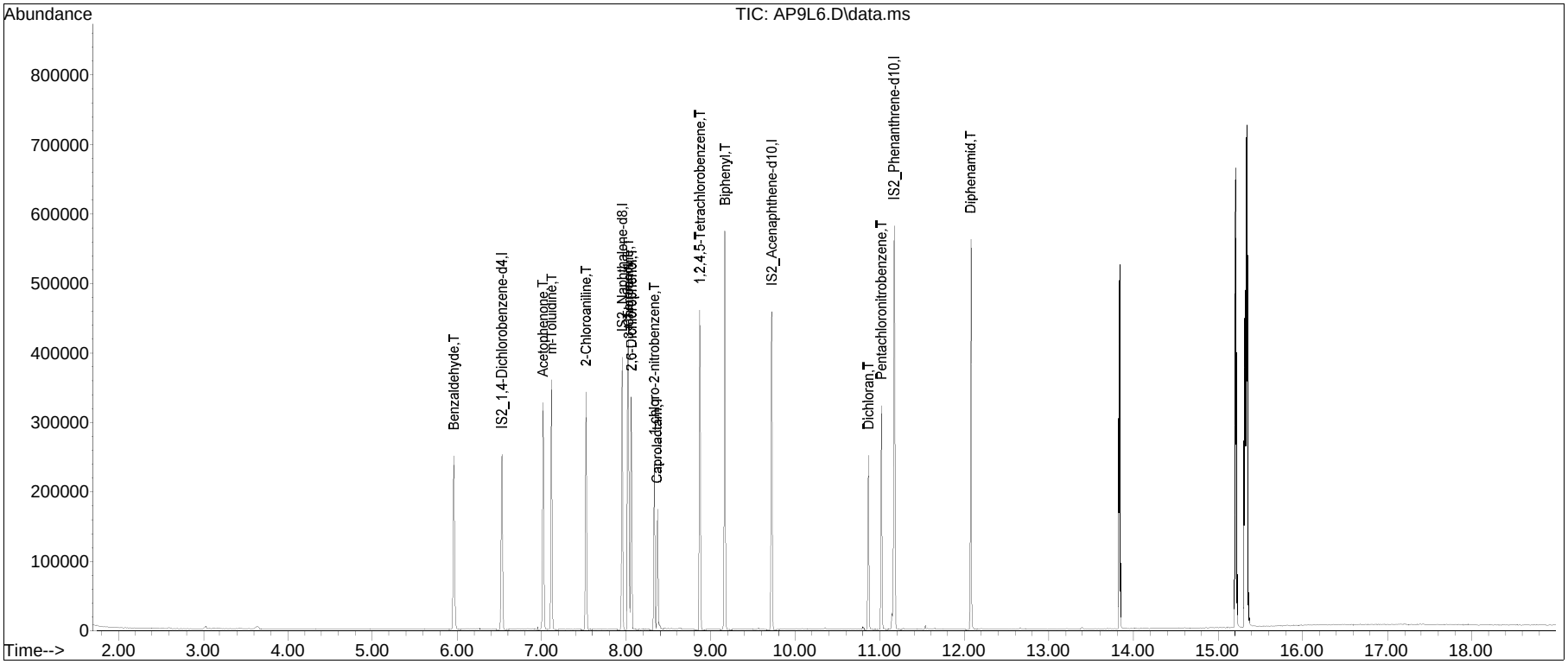
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:37 am	Instrument	: SV107
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.540	152	46890	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 105.59%			
54) IS2_Naphthalene-d8	7.957	136	170919	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 100.79%			
82) IS2_Acenaphthene-d10	9.728	164	103469	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 103.63%			
97) IS2_Phenanthrene-d10	11.175	188	220465	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery = 102.56%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	28474	2.460	ug/ml	98
29) Acetophenone	7.028	105	49113	2.500	ug/ml#	85
30) m-Toluidine	7.128	106	46785	2.402	ug/ml	95
31) 2-Chloroaniline	7.534	127	43298	2.481	ug/ml#	93
55) a-Terpineol	8.028	59	27803	2.584	ug/ml#	76
56) 3-Chloroaniline	8.040	65	15735	2.428	ug/ml	86
57) 2,6-Dichlorophenol	8.069	162	30396	2.676	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.339	111	12100	2.387	ug/ml#	1
59) Caprolactam	8.369	55	14231	2.729	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.875	216	40773	2.376	ug/ml	97
61) Biphenyl	9.175	154	95343	2.484	ug/ml	99
83) Dichloran	10.869	206	6586	2.397	ug/ml#	80
84) Pentachloronitrobenzene	11.022	237	7921	2.454	ug/ml#	82
98) Diphenamid	12.080	167	59344	2.913	ug/ml#	82

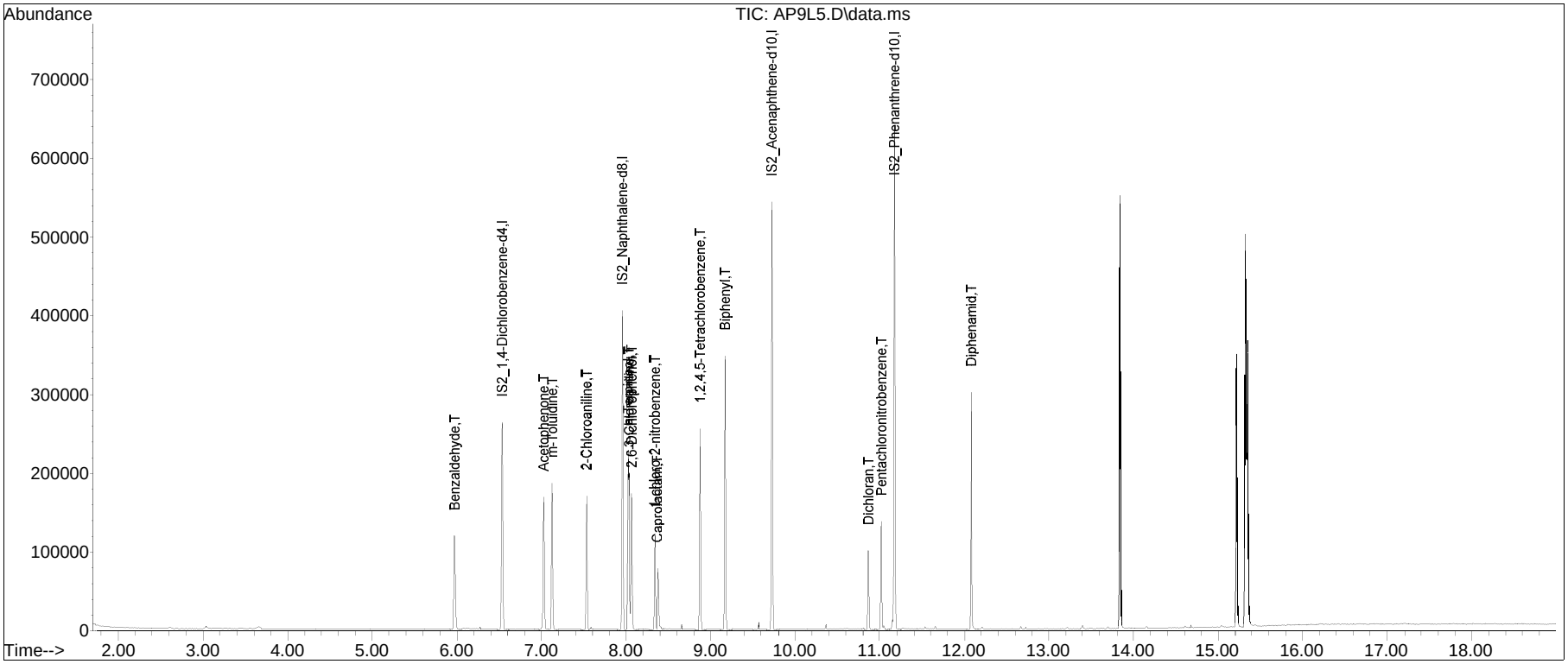
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:08 am	Instrument	: SV107
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	47509	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	106.99%		
54) IS2_Naphthalene-d8	7.957	136	173835	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.51%		
82) IS2_Acenaphthene-d10	9.728	164	103977	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.14%		
97) IS2_Phenanthrene-d10	11.169	188	219480	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.969	105	12095	1.031	ug/ml	95
29) Acetophenone	7.028	105	20411	1.025	ug/ml#	85
30) m-Toluidine	7.122	106	18578	0.941	ug/ml	93
31) 2-Chloroaniline	7.528	127	17491	0.989	ug/ml	94
55) a-Terpineol	8.022	59	11870	1.085	ug/ml#	79
56) 3-Chloroaniline	8.040	65	6420	0.974	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	11983	1.037	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	4685	0.909	ug/ml#	1
59) Caprolactam	8.369	55	5453	1.423	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.869	216	17097	0.980	ug/ml#	95
61) Biphenyl	9.175	154	38926	0.997	ug/ml	99
83) Dichloran	10.863	206	2167	1.192	ug/ml	85
84) Pentachloronitrobenzene	11.016	237	2723	1.268	ug/ml#	84
98) Diphenamid	12.075	167	22513	1.110	ug/ml#	81

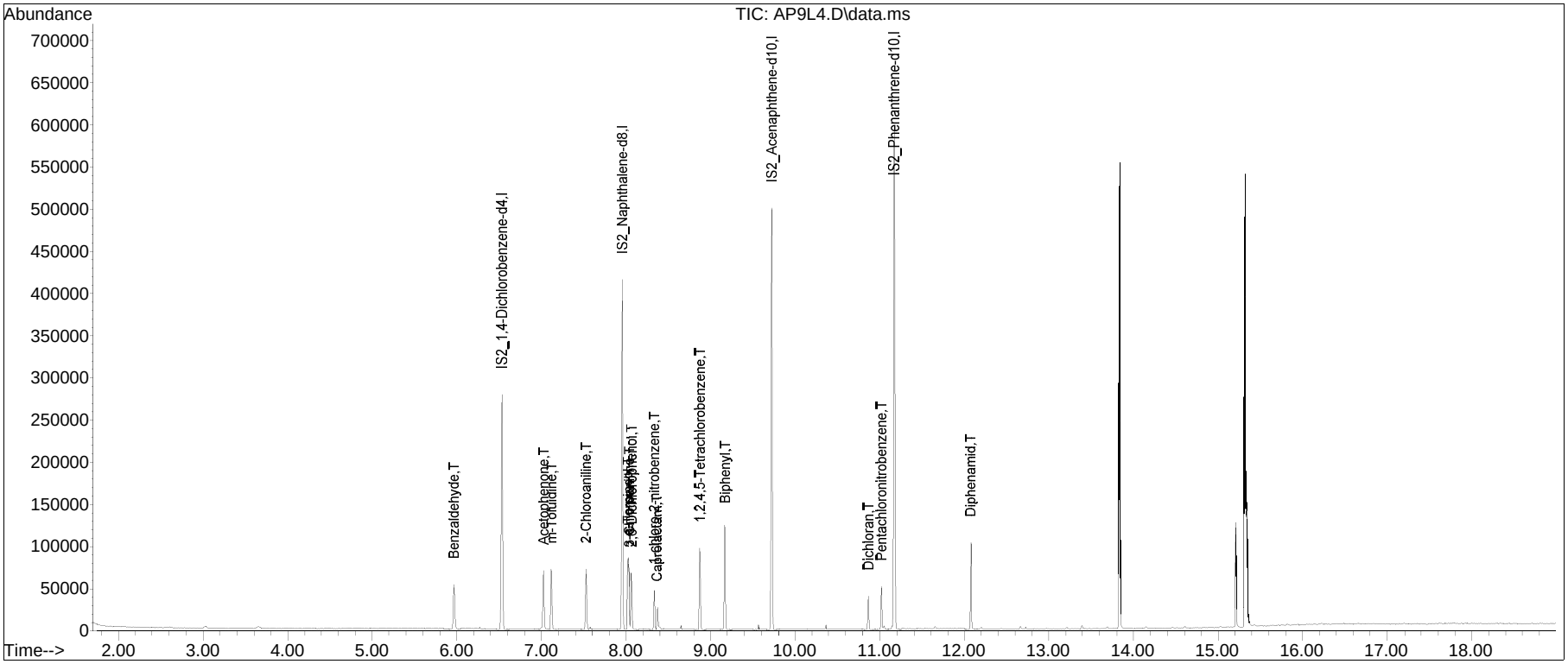
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:33 am	Instrument	: SV107
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	49009	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 110.37%				
54) IS2_Naphthalene-d8	7.957	136	179546	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 105.88%				
82) IS2_Acenaphthene-d10	9.728	164	109029	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 109.19%				
97) IS2_Phenanthrene-d10	11.169	188	231050	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 107.49%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.969	105	6140	0.508	ug/ml		97
29) Acetophenone	7.028	105	10875	0.530	ug/ml	#	91
30) m-Toluidine	7.122	106	9689	0.476	ug/ml		93
31) 2-Chloroaniline	7.528	127	9015	0.494	ug/ml		94
55) a-Terpineol	8.022	59	6227	0.551	ug/ml	#	77
56) 3-Chloroaniline	8.039	65	3347	0.492	ug/ml		89
57) 2,6-Dichlorophenol	8.063	162	6354	0.532	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.334	111	2550	0.479	ug/ml	#	1
59) Caprolactam	8.369	55	2660	1.007	ug/ml	#	93
60) 1,2,4,5-Tetrachloroben...	8.875	216	9408	0.522	ug/ml	#	94
61) Biphenyl	9.175	154	21583	0.535	ug/ml		99
83) Dichloran	10.863	206	1250	0.926	ug/ml	#	79
84) Pentachloronitrobenzene	11.016	237	1494	0.974	ug/ml	#	81
98) Diphenamid	12.080	167	11982	0.561	ug/ml	#	79

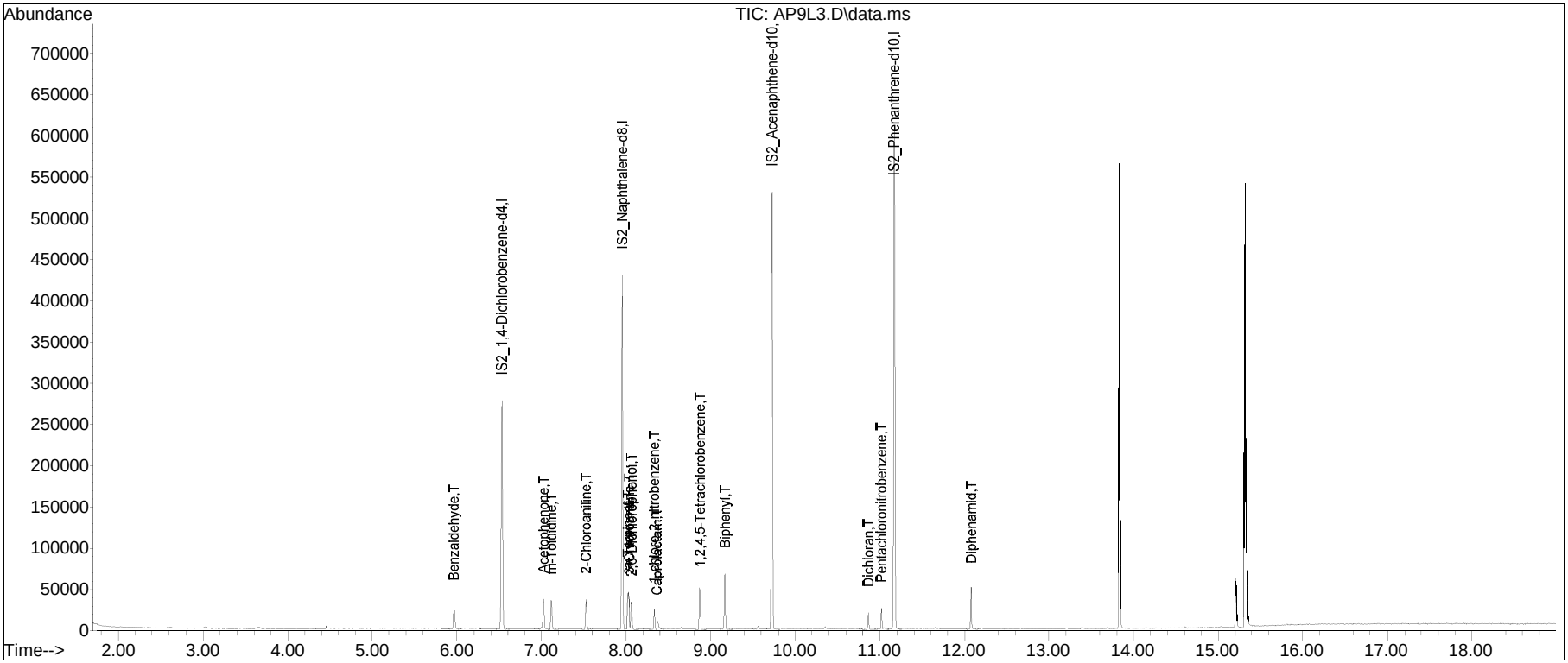
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:58 am	Instrument	: SV107
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49463	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	111.39%		
54) IS2_Naphthalene-d8	7.957	136	179922	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.10%		
82) IS2_Acenaphthene-d10	9.728	164	109290	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	109.46%		
97) IS2_Phenanthrene-d10	11.169	188	228813	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery =	106.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	2696	0.221	ug/ml	93
29) Acetophenone	7.028	105	4186	0.202	ug/ml#	92
30) m-Toluidine	7.122	106	3525	0.172	ug/ml	95
31) 2-Chloroaniline	7.528	127	3896	0.212	ug/ml	94
55) a-Terpineol	8.022	59	2243	0.198	ug/ml#	68
56) 3-Chloroaniline	8.040	65	1322	0.194	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	2307	0.193	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.334	111	1090	0.204	ug/ml#	1
59) Caprolactam	8.387	55	790	0.745	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.869	216	3668	0.203	ug/ml	94
61) Biphenyl	9.175	154	8671	0.215	ug/ml	100
83) Dichloran	10.863	206	506	0.731	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	485	0.756	ug/ml#	37
98) Diphenamid	12.075	167	4329	0.205	ug/ml	83

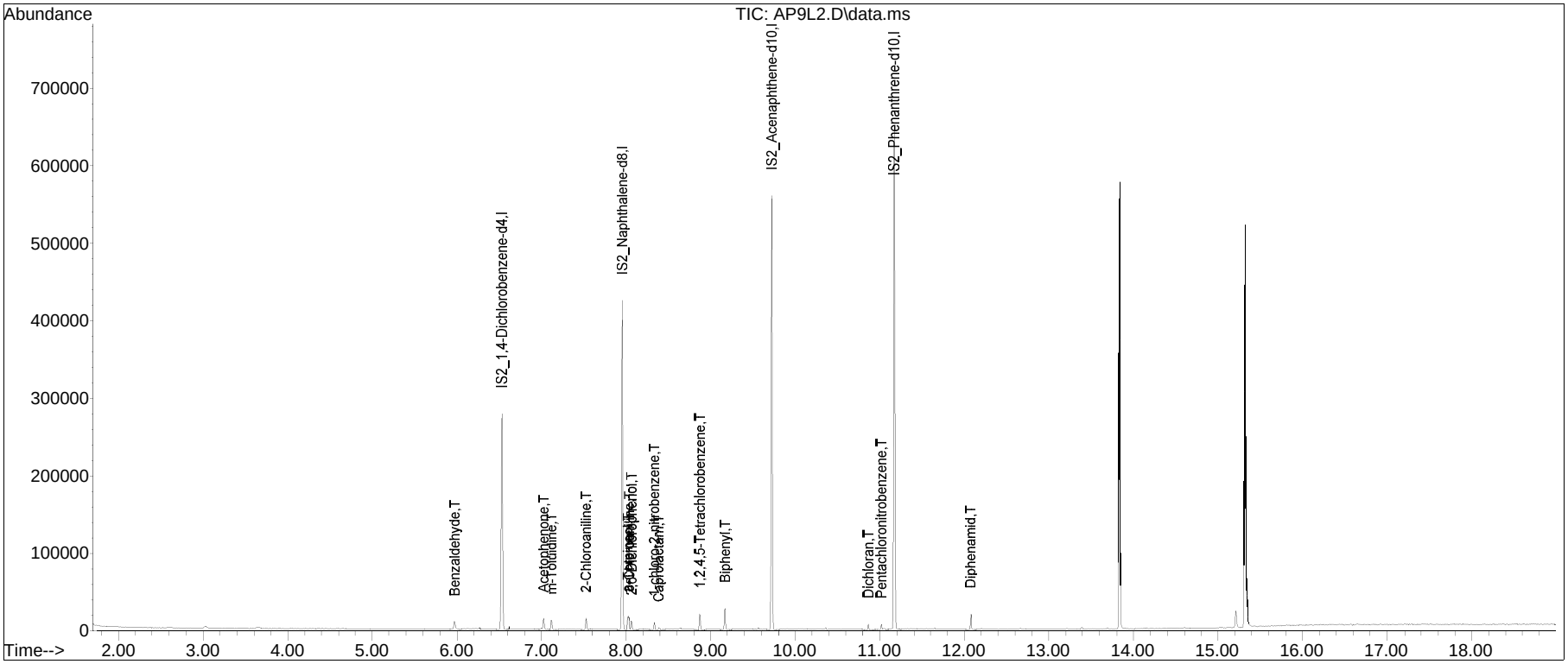
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 2:23 am	Instrument	: SV107
Sample	: IL9,32,,AP9L0.2 Lot# 10707	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49963	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 112.51%			
54) IS2_Naphthalene-d8	7.957	136	180953	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 106.71%			
82) IS2_Acenaphthene-d10	9.727	164	108611	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 108.78%			
97) IS2_Phenanthrene-d10	11.169	188	222108	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery = 103.33%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	1301	0.105	ug/ml	91
29) Acetophenone	7.028	105	2195	0.105	ug/ml#	81
30) m-Toluidine	7.128	106	1360	0.066	ug/ml#	93
31) 2-Chloroaniline	7.528	127	1858	0.100	ug/ml#	92
55) a-Terpineol	8.022	59	1234	0.108	ug/ml#	75
56) 3-Chloroaniline	8.033	65	582	0.085	ug/ml	87
57) 2,6-Dichlorophenol	8.069	162	1076	0.089	ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.333	111	460	0.086	ug/ml#	1
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	8.869	216	1907	0.105	ug/ml#	87
61) Biphenyl	9.175	154	4181	0.103	ug/ml	97
83) Dichloran	10.863	206	245M2	0.663	ug/ml	
84) Pentachloronitrobenzene	11.016	237	92M6	0.671	ug/ml	
98) Diphenamid	12.074	167	2056	0.100	ug/ml	86

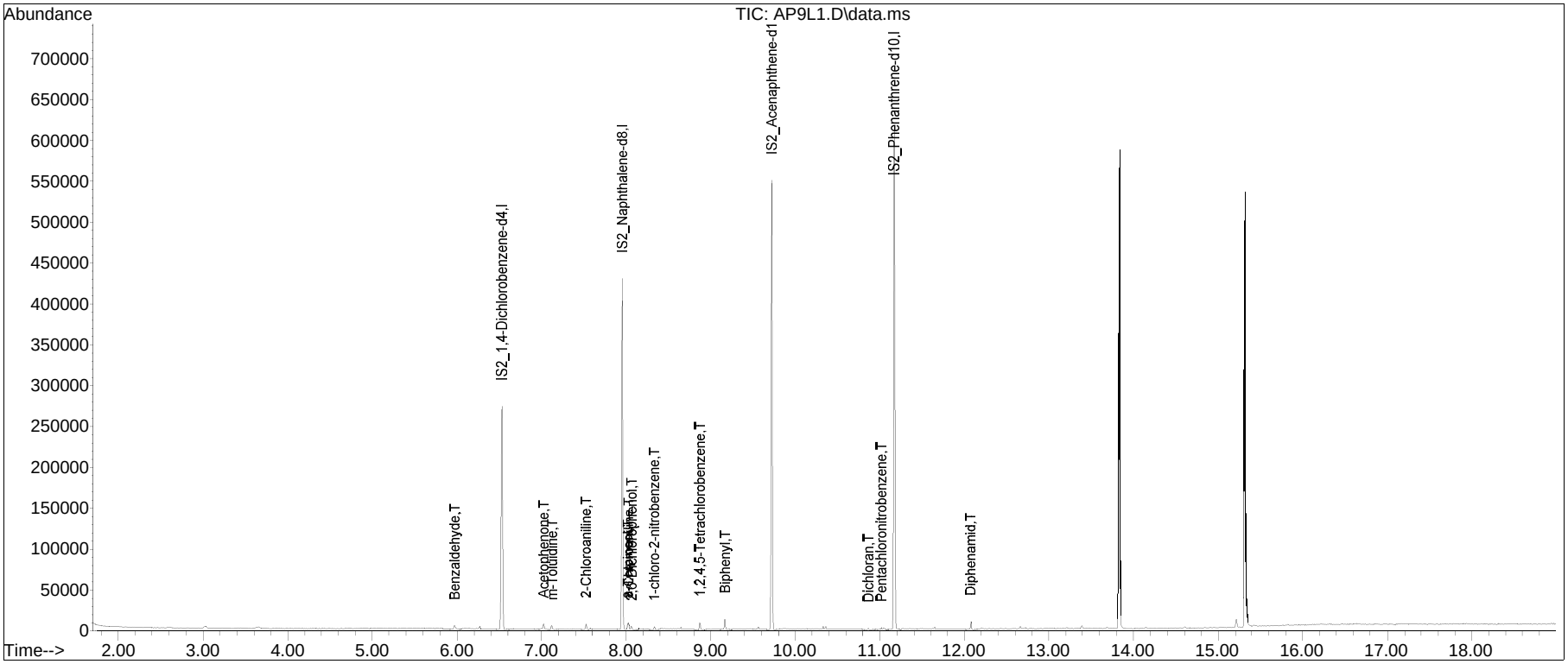
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

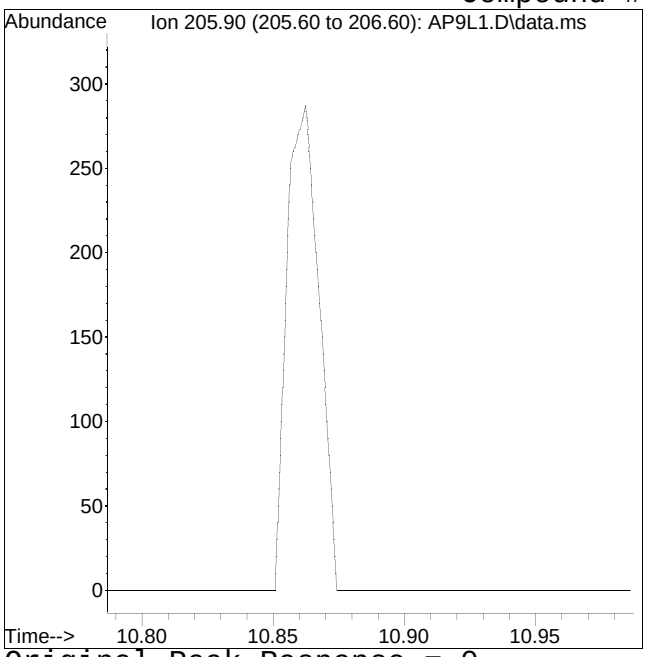
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



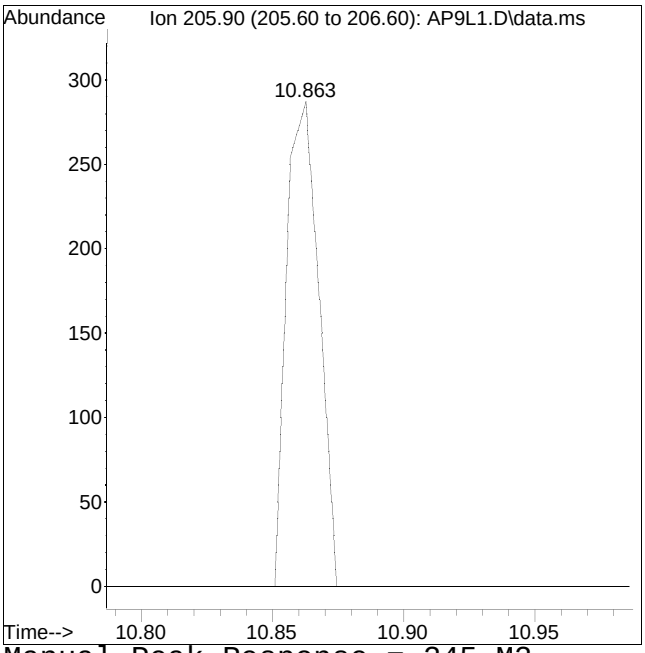
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070Quant Date : 6/3/2024 10:23 am

Compound #83: Dichloran



Original Peak Response = 0



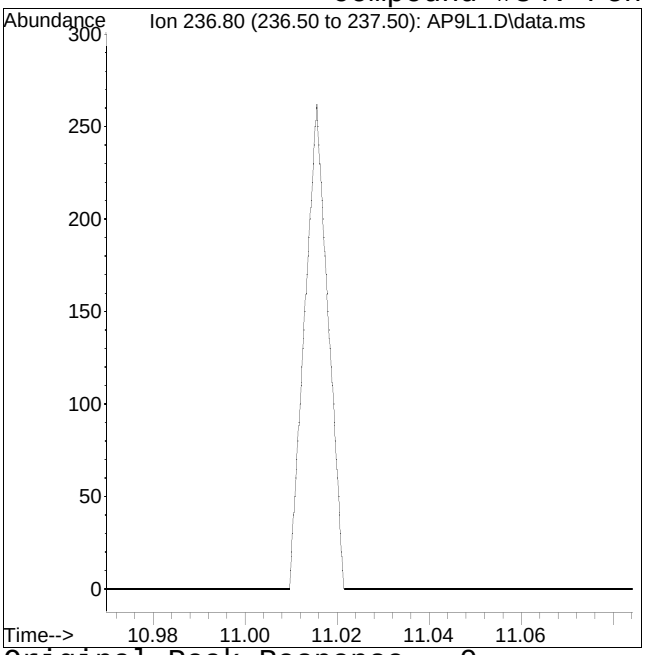
Manual Peak Response = 245 M2

M2 = Peak not found by automatic integration algorithm.

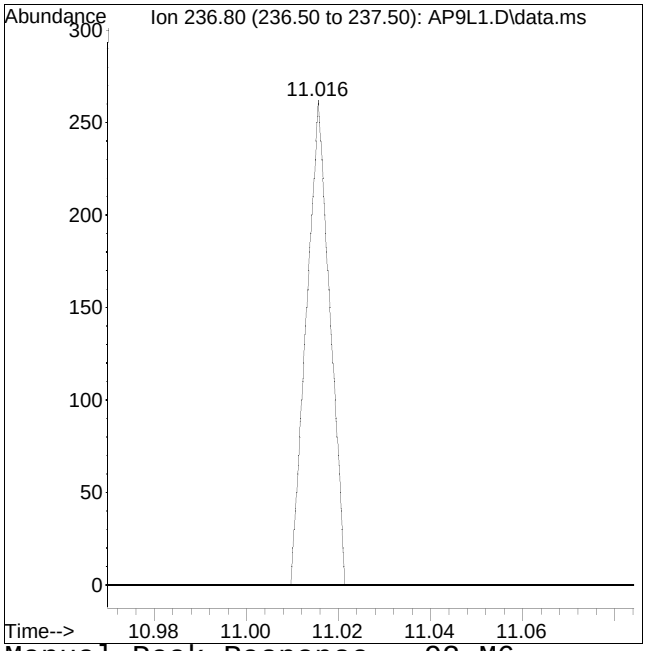
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070 Quant Date : 6/3/2024 10:23 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 92 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.704	0.768	-9.1	103	0.00
3	t	Pyridine		1.199	1.251	-4.3	100	-0.02
4	S	2-Fluorophenol		1.069	1.146	-7.2	102	0.00
5	T	Aniline		1.713	1.863	-8.8	106	0.00
6	t	2-Chlorophenol		1.178	1.257	-6.7	103	0.00
7	S	Phenol-d6		1.322	1.436	-8.6	105	0.00
8	T	Phenol		1.438	1.539	-7.0	105	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.257	-6.1	106	0.00
10	T	1,3-Dichlorobenzene		1.452	1.551	-6.8	105	0.00
11	T	1,4-Dichlorobenzene		1.478	1.555	-5.2	104	0.00
12	T	1,2-Dichlorobenzene		1.426	1.507	-5.7	104	0.00
13	t	Benzyl alcohol		1.000	1.070	-7.0	104	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.732	-6.7	107	0.00
15	T	2-Methylphenol		1.031	1.108	-7.5	103	0.00
16	T	Hexachloroethane		0.545	0.582	-6.8	104	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.938	-6.7	104	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.189	-9.7	102	0.00
19	S	Nitrobenzene-d5		1.165	1.236	-6.1	99	0.00
20	T	Nitrobenzene		1.197	1.260	-5.3	98	0.00
21	T	Isophorone		2.310	2.527	-9.4	104	0.00
22	T	2-Nitrophenol		0.533	0.499	6.4	93	0.00
23	T	2,4-Dimethylphenol		1.088	1.120	-2.9	98	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.642	-8.9	108	0.00
25	T	2,4-Dichlorophenol		1.094	1.207	-10.3	102	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.411	-7.1	107	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	95	0.00
35	T	Naphthalene		0.996	1.041	-4.5	107	0.00
36	T	Benzoic Acid	*	5.000	4.821	3.6	96	0.00
37	T	4-Chloroaniline		0.126	0.136	-7.9	107	0.00
38	T	Hexachlorobutadiene		0.211	0.230	-9.0	111	0.00
39	T	p-Chloro-m-cresol		0.272	0.297	-9.2	102	0.00
40	T	2-Methylnaphthalene		0.688	0.740	-7.6	107	0.00
41	T	1-Methylnaphthalene		0.235	0.251	-6.8	108	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.225	-9.8	108	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.260	-9.7	101	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.278	-10.8	103	0.00
45	S	2-Fluorobiphenyl		0.866	0.928	-7.2	107	0.00

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.756	-5.7	106	0.00
47	T	2-Nitroaniline		0.173	0.173	0.0	94	0.00
48	T	1,4-Dinitrobenzene		0.087	0.076	12.6	95	0.00
49	T	1,3-Dinitrobenzene		0.109	0.097	11.0	93	0.00
50	T	Dimethyl phthalate		0.839	0.901	-7.4	105	0.00
51	T	Acenaphthylene		1.079	1.189	-10.2	107	0.00
52	T	2,6-Dinitrotoluene		0.153	0.166	-8.5	98	0.00
53	T	1,2-Dinitrobenzene		0.068	0.070	-2.9	95	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	89	0.00
63	T	3-Nitroaniline		0.259	0.287	-10.8	100	0.00
64	T	Acenaphthene		1.081	1.163	-7.6	107	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.210	15.8	88	0.00
66	T	Dibenzofuran		1.757	1.922	-9.4	107	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.699	6.0	99	0.00
68	T	4-Nitrophenol		0.221	0.232	-5.0	100	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.377	-18.6	105	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.386	-22.9#	107	0.00
71	T	Diethyl phthalate		1.301	1.431	-10.0	107	0.00
72	T	Fluorene		1.328	1.453	-9.4	105	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.742	-10.4	108	0.00
74	T	4-Nitroaniline		0.262	0.292	-11.5	104	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.232	15.4	98	0.00
76	T	NDPA/DPA		1.131	1.265	-11.8	107	0.00
77	T	Azobenzene		1.259	1.441	-14.5	108	0.00
78	S	2,4,6-Tribromophenol		0.171	0.200	-17.0	102	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.409	-8.8	106	0.00
80	T	Hexachlorobenzene		0.431	0.465	-7.9	107	0.00
81	T	Pentachlorophenol		0.252	0.269	-6.7	102	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	90	0.00
88	T	Phenanthrene		1.038	1.096	-5.6	105	0.00
89	T	Anthracene		1.030	1.137	-10.4	109	0.00
90	T	Carbazole		0.928	1.011	-8.9	104	0.00
91	T	Di-n-butylphthalate		1.088	1.207	-10.9	104	0.00
92	T	Fluoranthene		1.186	1.307	-10.2	108	0.00
93	T	Benzidine		0.721	0.754	-4.6	101	0.00
94	T	Pyrene		1.269	1.394	-9.9	108	0.00
95	S	4-Terphenyl-d14		0.875	0.956	-9.3	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.557	8.9	100	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	86	0.00
104	T	Benzo(a)anthracene		1.335	1.459	-9.3	103	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.500	-16.3	100	0.00
106	T	Chrysene		1.276	1.383	-8.4	102	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	5.140	-2.8	103	0.00
108	T	Di-n-octylphthalate	*	5.000	4.740	5.2	99	0.00
109	T	Benzo(b)fluoranthene		1.178	1.306	-10.9	101	0.00
110	T	Benzo(k)fluoranthene		1.154	1.298	-12.5	101	0.00
111	T	Benzo(a)pyrene		1.025	1.213	-18.3	106	-0.01
112	I	IS1_Perylene-d12		1.000	1.000	0.0	84	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.196	-25.6#	113	-0.01
114	T	Dibenzo(a,h)anthracene		0.953	1.178	-23.6#	103	-0.01
115	T	Benzo(ghi)perylene		0.928	1.074	-15.7	103	-0.01

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	48133	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 92.47%			
34) IS1_Naphthalene-d8	7.957	136	179971	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 94.55%			
62) IS1_Acenaphthene-d10	9.727	164	110910	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 89.47%			
87) IS1_Phenanthrene-d10	11.169	188	227716	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 90.27%			
103) IS1_Chrysene-d12	13.833	240	201209	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 86.01%			
112) IS1_Perylene-d12	15.315	264	202785	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.687	112	68980	5.362	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 268.10%#			
7) Phenol-d6	6.157	99	86386	5.431	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 271.55%#			
19) Nitrobenzene-d5	7.181	82	74359	5.306	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 530.60%#			
45) 2-Fluorobiphenyl	9.080	172	208717	5.356	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 535.60%#			
78) 2,4,6-Tribromophenol	10.498	330	27761	5.871	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 293.55%#			
95) 4-Terphenyl-d14	12.763	244	272131	5.463	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 546.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	46190	5.454	ug/ml#	68
3) Pyridine	2.293	79	75290	5.217	ug/ml#	59
5) Aniline	6.128	93	112111	5.439	ug/ml	97
6) 2-Chlorophenol	6.269	128	75656	5.336	ug/ml	94
8) Phenol	6.175	94	92596	5.351	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	75604	5.301	ug/ml#	85
10) 1,3-Dichlorobenzene	6.457	146	93317	5.342	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	93546	5.261	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	90658	5.284	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	64368	5.347	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	104198	5.335	ug/ml#	46
15) 2-Methylphenol	6.904	108	66691	5.377	ug/ml	99
16) Hexachloroethane	7.122	117	34991	5.336	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	56436	5.334	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.086	108	71562	5.484	ug/ml	98
20) Nitrobenzene	7.204	77	75830	5.265	ug/ml	98
21) Isophorone	7.481	82	152062	5.470	ug/ml	97
22) 2-Nitrophenol	7.563	139	30029	4.680	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	67410	5.150	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	98786	5.446	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	72592	5.515	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	84896	5.351	ug/ml	97
35) Naphthalene	7.975	128	234099	5.225	ug/ml	99
36) Benzoic Acid	7.751	105	37692	4.821	ug/ml	97
37) 4-Chloroaniline	8.057	65	30505	5.397	ug/ml	91
38) Hexachlorobutadiene	8.145	225	51724	5.458	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	66777	5.450	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	166439	5.374	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	56538	5.353	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	50620	5.482	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	58438	5.485	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	62619	5.542	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	170033	5.283	ug/ml	96
47) 2-Nitroaniline	9.292	138	39012	5.011	ug/ml	92
48) 1,4-Dinitrobenzene	9.422	168	17114	4.373	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	21913	4.480	ug/ml#	1
50) Dimethyl phthalate	9.492	163	202629	5.370	ug/ml#	99
51) Acenaphthylene	9.580	152	267479	5.507	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37241	5.426	ug/ml#	84
53) 1,2-Dinitrobenzene	9.580	168	15743	5.134	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39753	5.525	ug/ml	98
64) Acenaphthene	9.757	154	161236	5.379	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	15506	4.210	ug/ml	90
66) Dibenzofuran	9.927	168	266500	5.472	ug/ml	93
67) 2,4-Dinitrotoluene	9.927	165	50041	4.699	ug/ml	94
68) 4-Nitrophenol	9.880	65	32159	5.239	ug/ml#	90
69) 2,3,5,6-Tetrachlorophenol	10.022	232	52335	5.940	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	53523	6.152	ug/ml	99
71) Diethyl phthalate	10.192	149	198362	5.497	ug/ml	97
72) Fluorene	10.263	166	201378	5.468	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.280	204	102835	5.519	ug/ml	89
74) 4-Nitroaniline	10.286	138	40513	5.566	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.322	198	23532	4.232	ug/ml#	63
76) NDPA/DPA	10.398	169	175362	5.590	ug/ml	94
77) Azobenzene	10.433	77	199756	5.722	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	56638	5.427	ug/ml#	87
80) Hexachlorobenzene	10.810	284	64431	5.392	ug/ml#	88
81) Pentachlorophenol	10.998	266	37359	5.357	ug/ml	100
88) Phenanthrene	11.192	178	311941	5.278	ug/ml	99
89) Anthracene	11.245	178	323617	5.520	ug/ml	98
90) Carbazole	11.410	167	287846	5.448	ug/ml	98
91) Di-n-butylphthalate	11.798	149	343566	5.546	ug/ml	99
92) Fluoranthene	12.357	202	371982	5.510	ug/ml#	92
93) Benzidine	12.504	184	214564	5.230	ug/ml#	94
94) Pyrene	12.574	202	396732	5.493	ug/ml	99
96) Butyl benzyl phthalate	13.292	149	132785	4.557	ug/ml	94
104) Benzo(a)anthracene	13.821	228	366917	5.465	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.821	252	125706	5.814	ug/ml#	97
106) Chrysene	13.862	228	347792	5.420	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	222853	5.140	ug/ml#	95
108) Di-n-octylphthalate	14.621	149	332901	4.740	ug/ml#	74
109) Benzo(b)fluoranthene	14.945	252	328567	5.545	ug/ml#	94
110) Benzo(k)fluoranthene	14.968	252	326553	5.626	ug/ml#	93
111) Benzo(a)pyrene	15.257	252	305124	5.916	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	16.333	276	303147M6	6.281	ug/mL	
114) Dibenzo(a,h)anthracene	16.356	278	298480	6.178	ug/ml#	89
115) Benzo(ghi)perylene	16.603	276	272174	5.787	ug/ml#	89

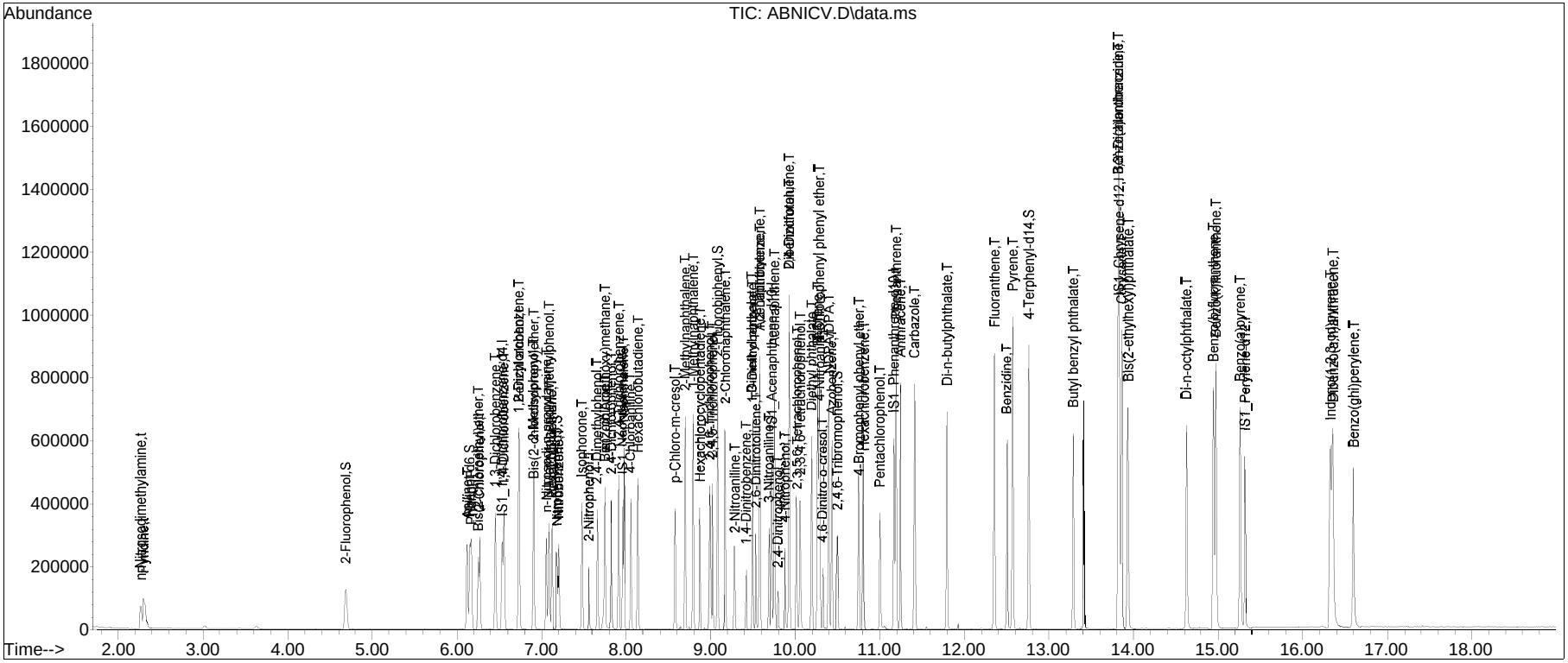
(#) = qualifier out of range (m) = manual integration (+) = signals summed

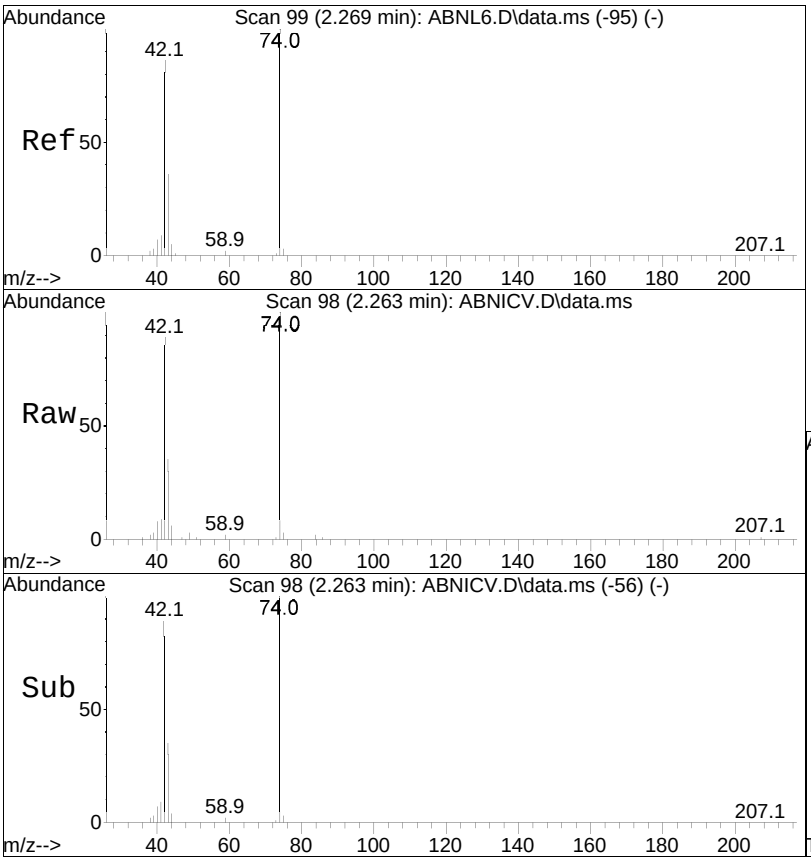
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L6.D•

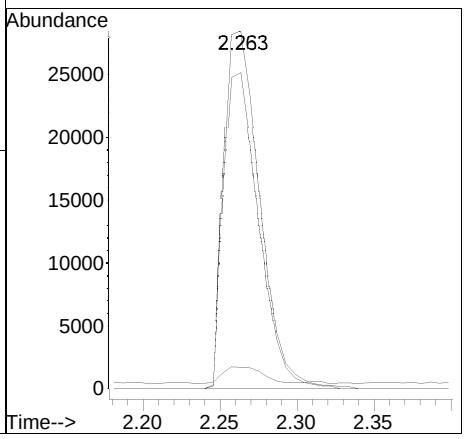


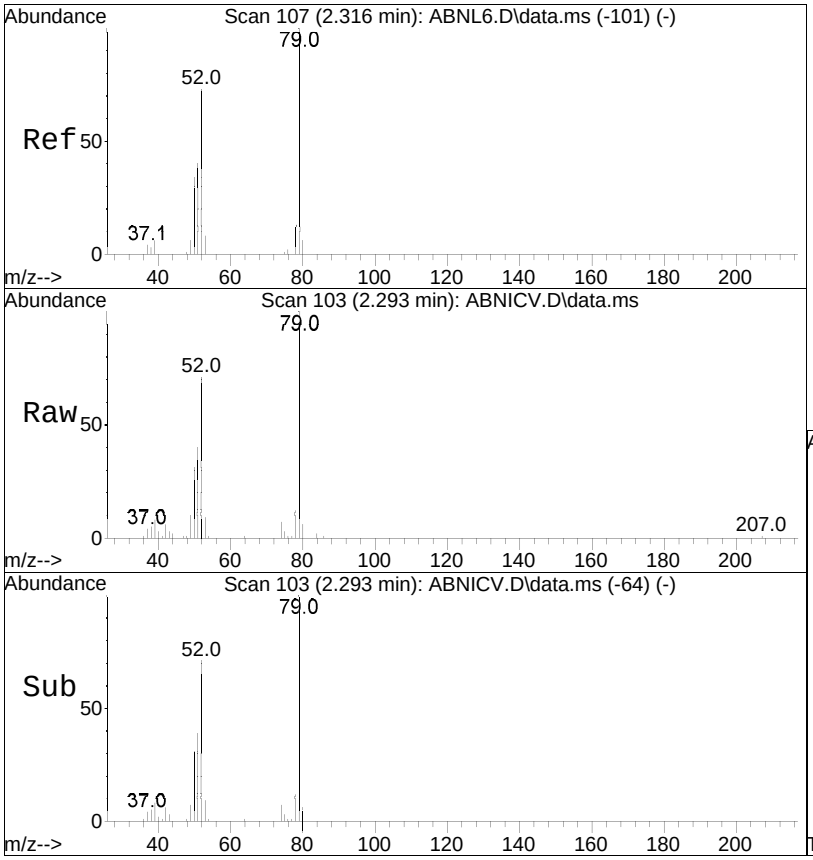


#2
n-Nitrosodimethylamine
Concen: 5.45 ug/ml
RT: 2.263 min Scan# 98
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 74 Resp: 46190

Ion	Ratio	Lower	Upper
74	100		
42	86.9	100.0	150.0#
44	5.2	6.7	10.1#

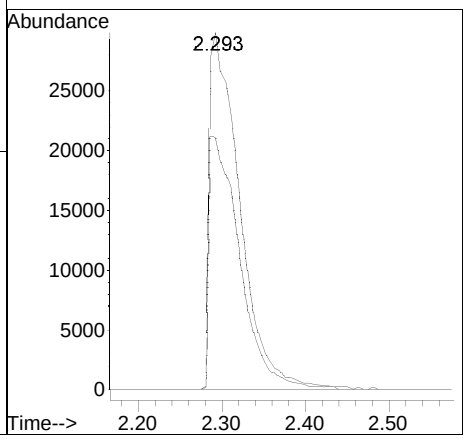


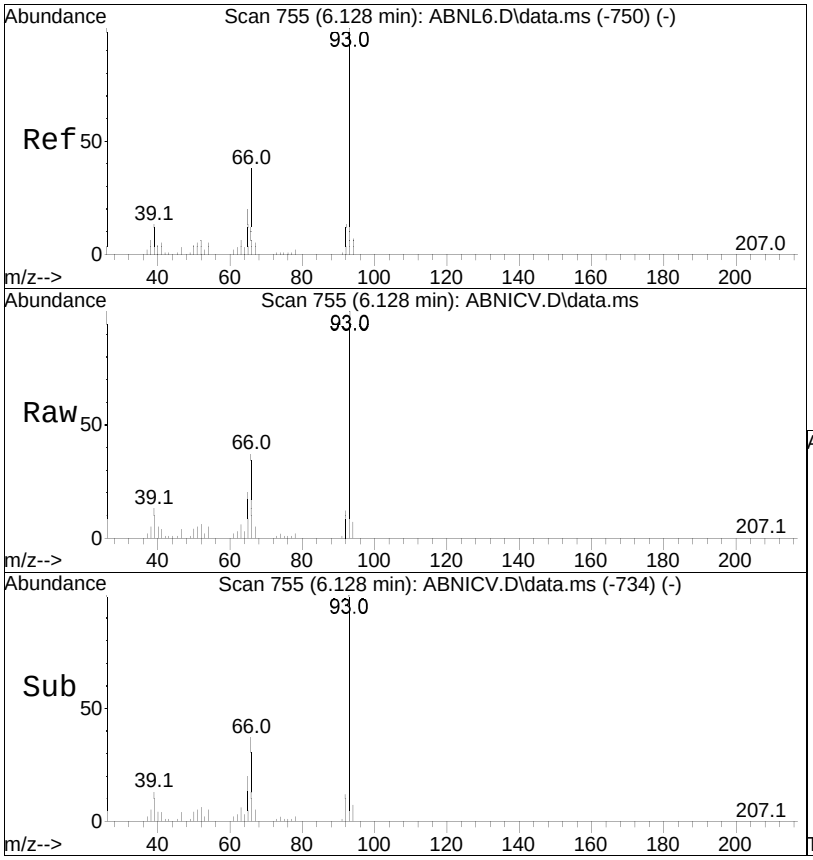


#3
Pyridine
Concen: 5.22 ug/ml
RT: 2.293 min Scan# 103
Delta R.T. -0.023 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 75290

Ion	Ratio	Lower	Upper
79	100		
52	72.0	93.1	139.7#

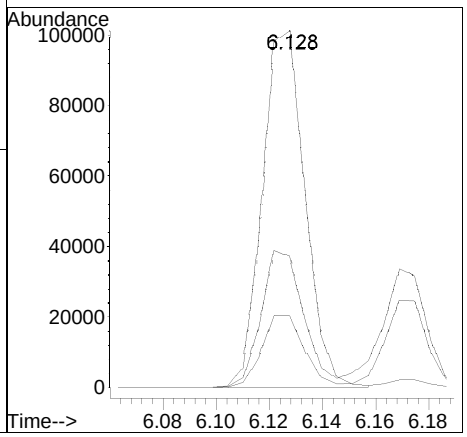


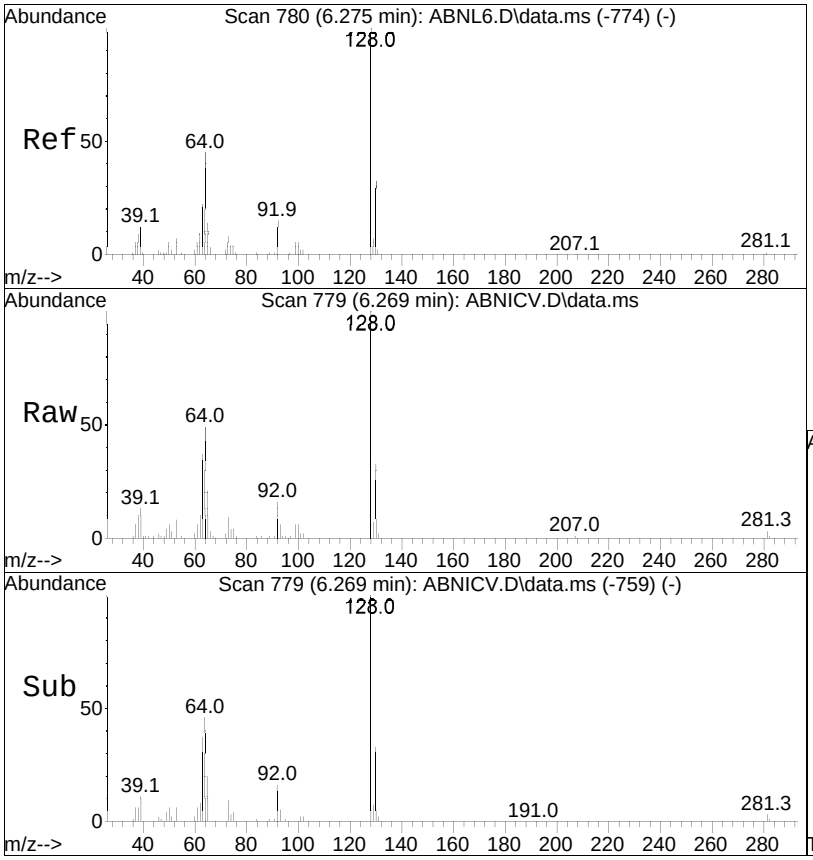


#5
Aniline
Concen: 5.44 ug/ml
RT: 6.128 min Scan# 755
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 112111

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.6	49.0
65	20.3	17.6	26.4

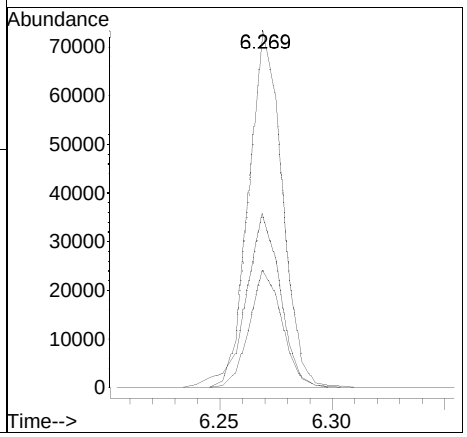


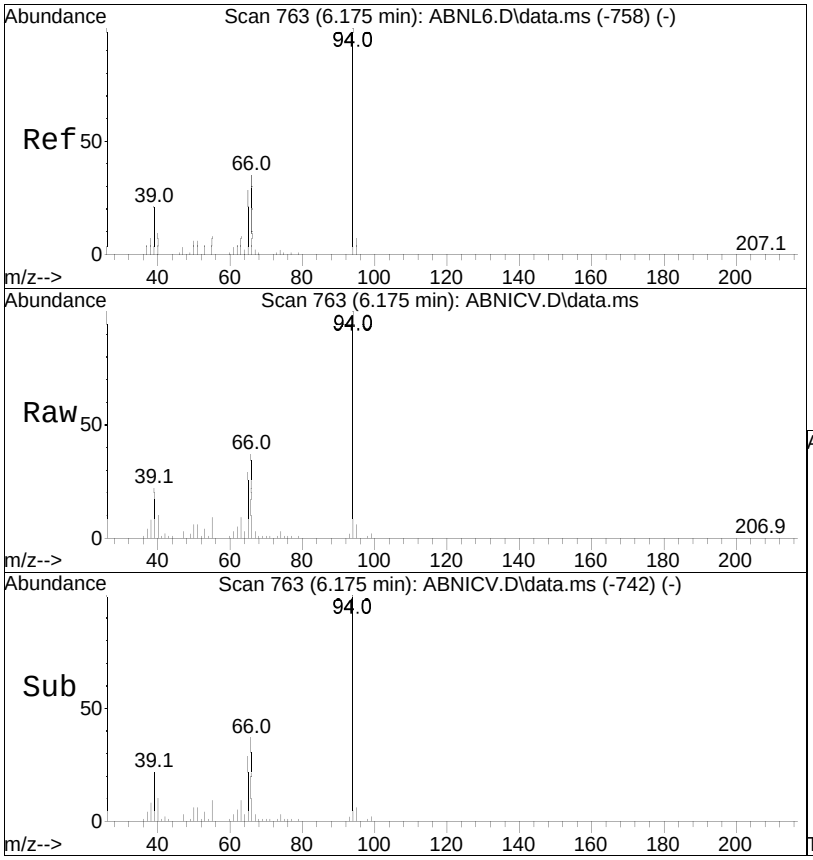


#6
2-Chlorophenol
Concen: 5.34 ug/ml
RT: 6.269 min Scan# 779
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 75656

Ion	Ratio	Lower	Upper
128	100		
64	50.4	45.1	67.7
130	32.3	26.2	39.4

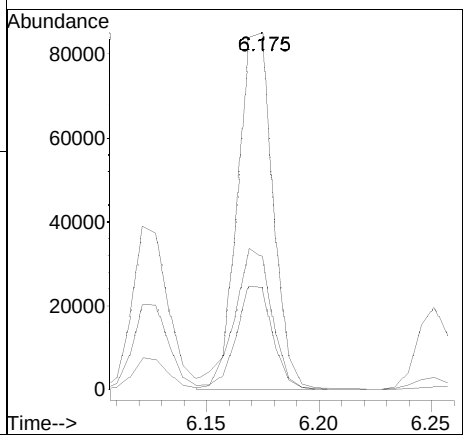


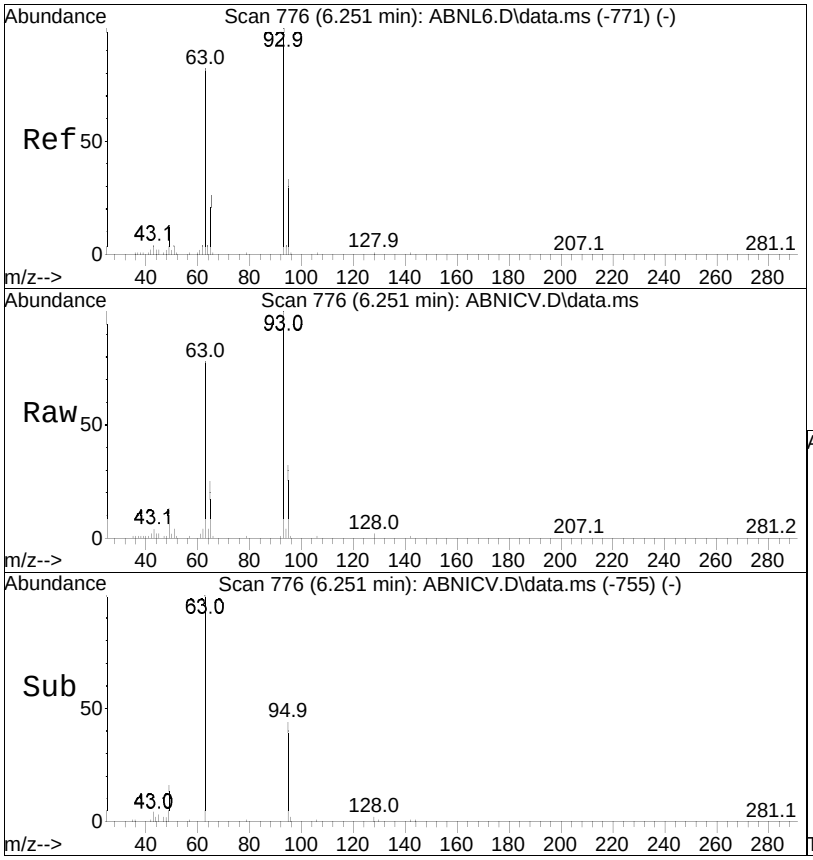


#8
Phenol
Concen: 5.35 ug/ml
RT: 6.175 min Scan# 763
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 94 Resp: 92596

Ion	Ratio	Lower	Upper
94	100		
65	30.0	26.0	39.0
66	42.7	33.8	50.8

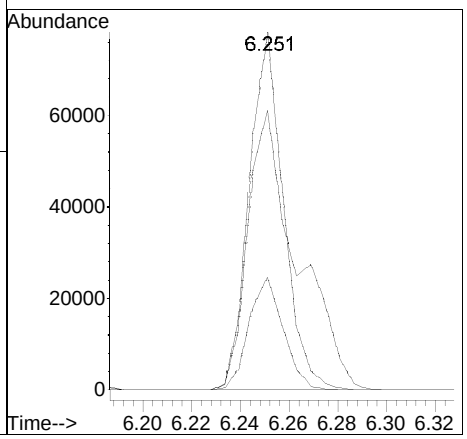


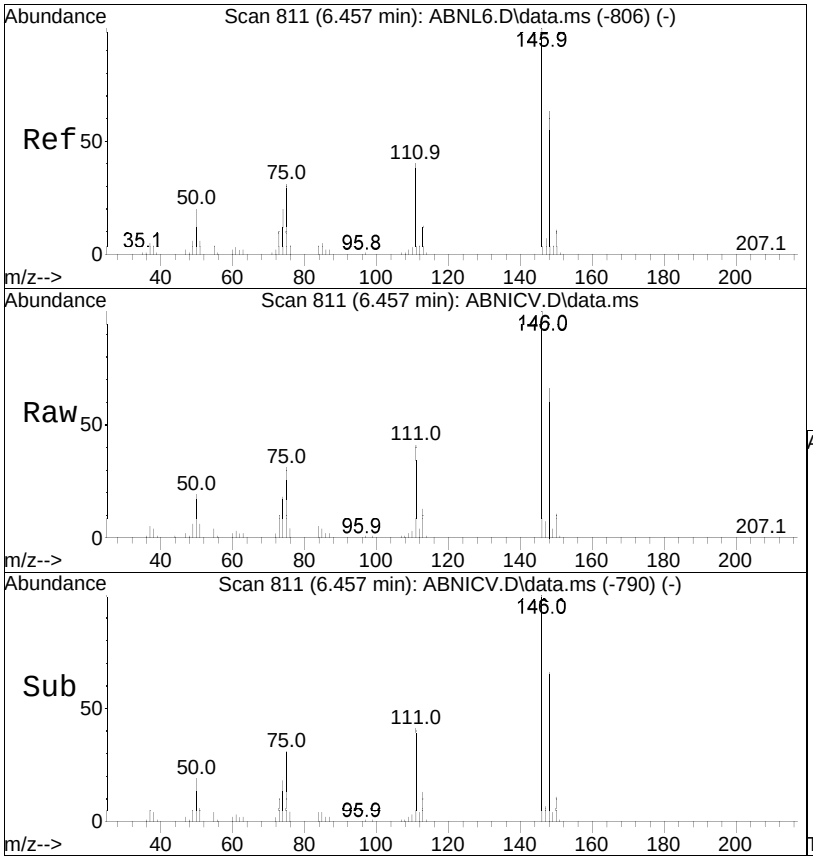


#9
Bis(2-chloroethyl)ether
Concen: 5.30 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 75604

Ion	Ratio	Lower	Upper
93	100		
63	112.3	74.6	111.8#
95	31.8	25.9	38.9

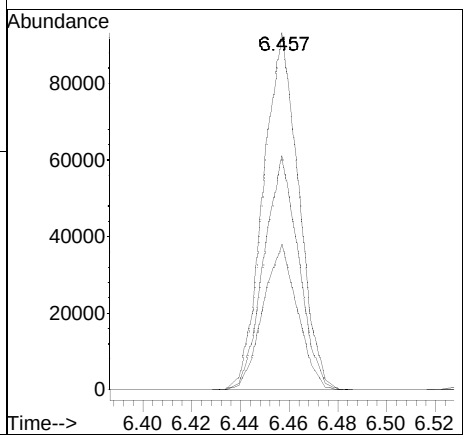


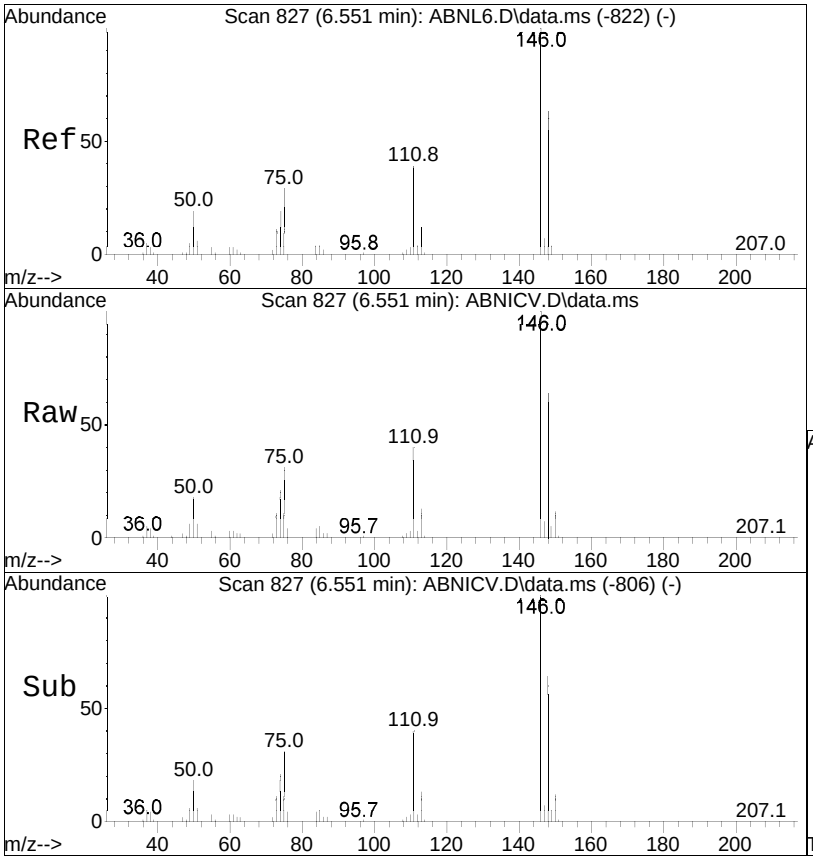


#10
1,3-Dichlorobenzene
Concen: 5.34 ug/ml
RT: 6.457 min Scan# 811
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93317

Ion	Ratio	Lower	Upper
146	100		
111	39.9	34.3	51.5
148	64.2	50.8	76.2

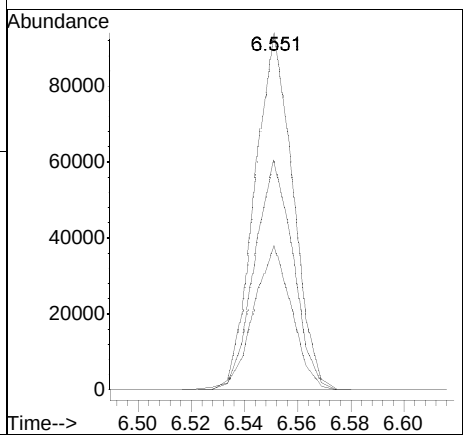


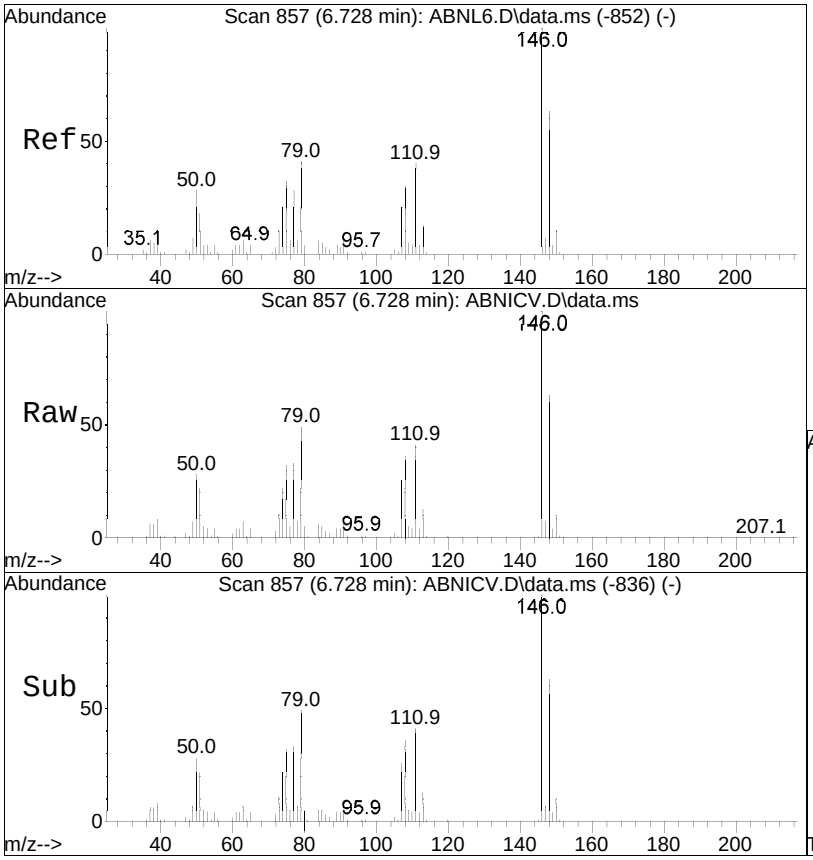


#11
1,4-Dichlorobenzene
Concen: 5.26 ug/ml
RT: 6.551 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93546

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.7	76.1
111	40.3	33.4	50.0

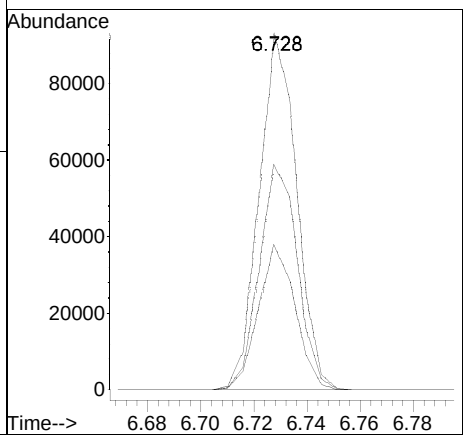


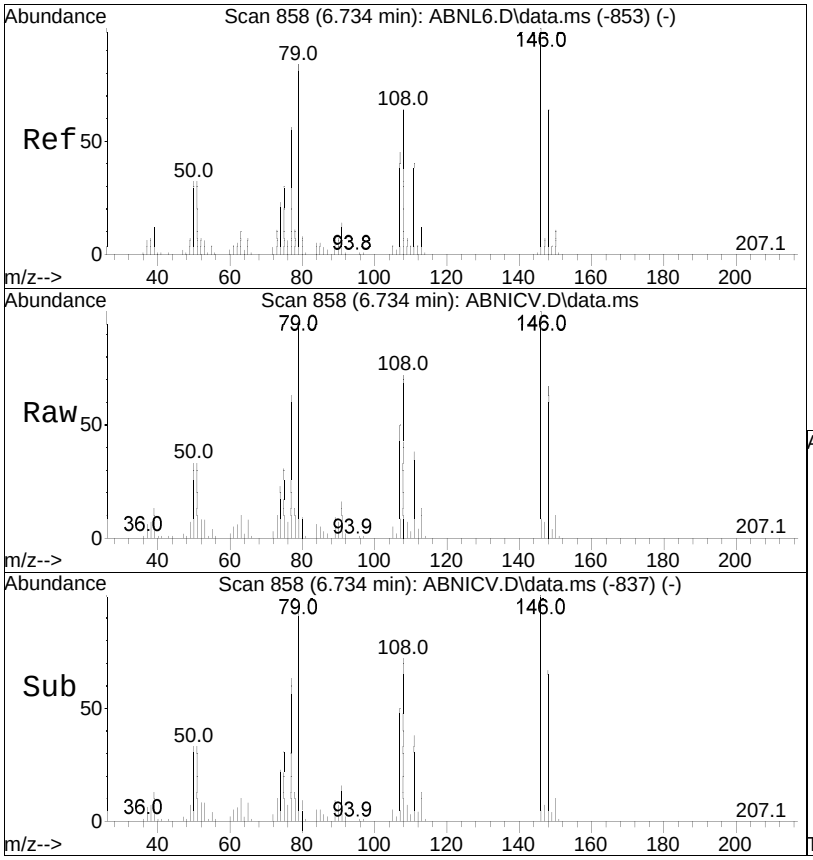


#12
1,2-Dichlorobenzene
Concen: 5.28 ug/ml
RT: 6.728 min Scan# 857
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 90658

Ion	Ratio	Lower	Upper
146	100		
111	40.3	34.6	52.0
148	64.3	50.2	75.4

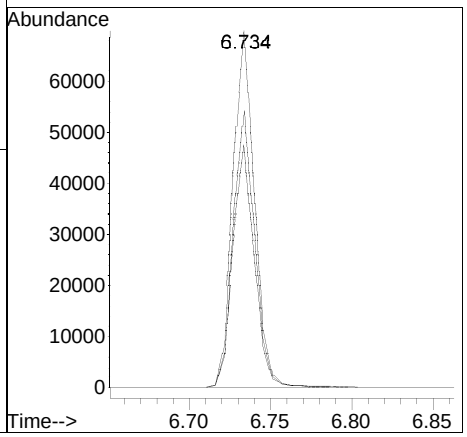


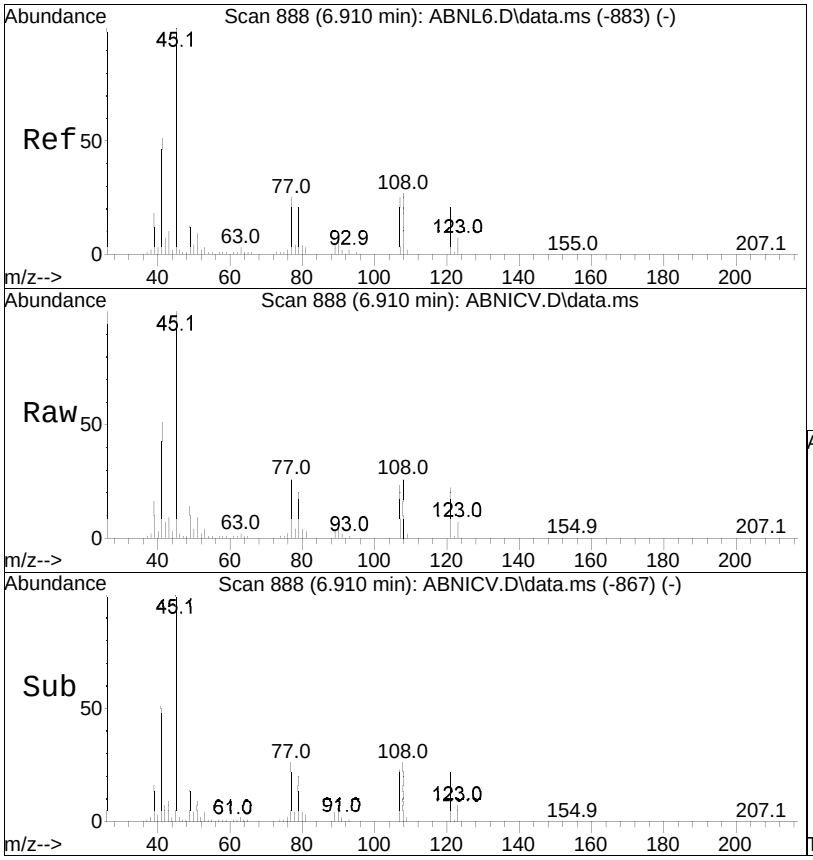


#13
Benzyl alcohol
Concen: 5.35 ug/ml
RT: 6.734 min Scan# 858
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 64368

Ion	Ratio	Lower	Upper
79	100		
77	68.0	54.9	82.3
108	77.1	63.1	94.7

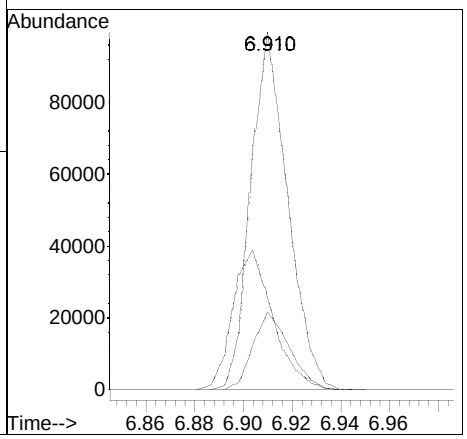


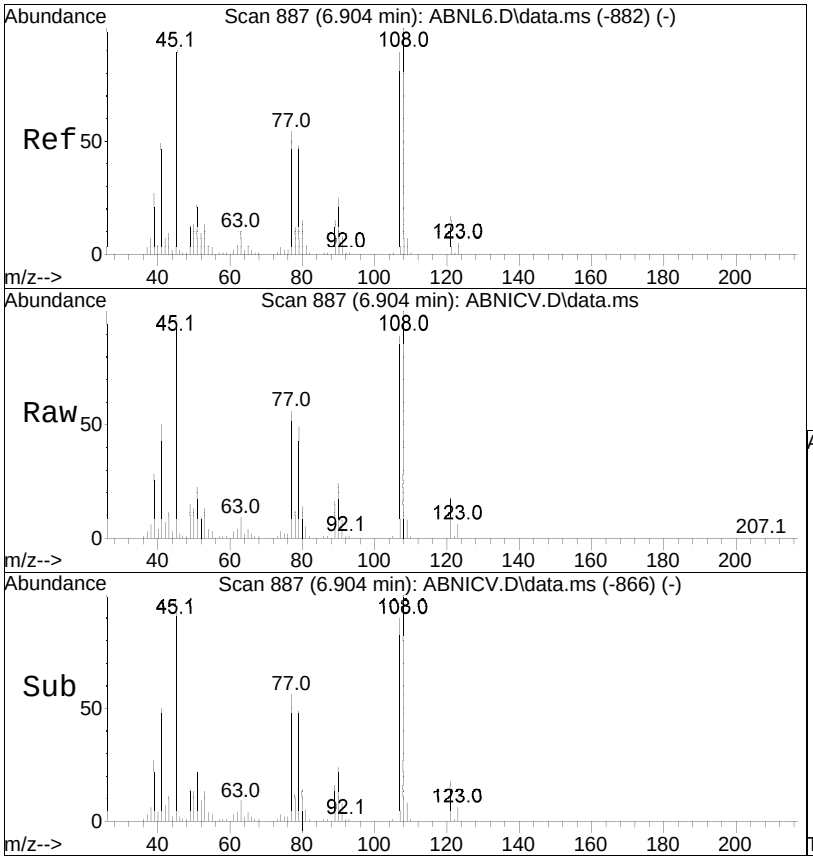


#14
Bis(2-chloroisopropyl)ether
Concen: 5.34 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 45 Resp: 104198

Ion	Ratio	Lower	Upper
45	100		
121	21.6	9.8	14.6#
77	43.0	6.1	9.1#

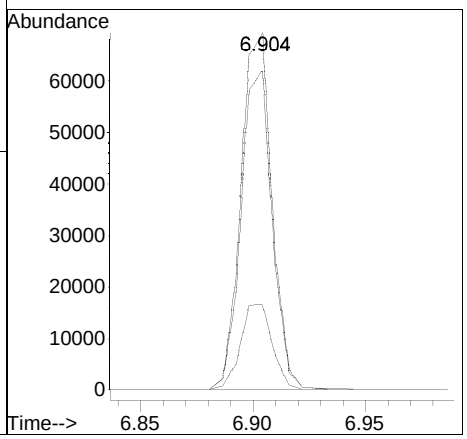


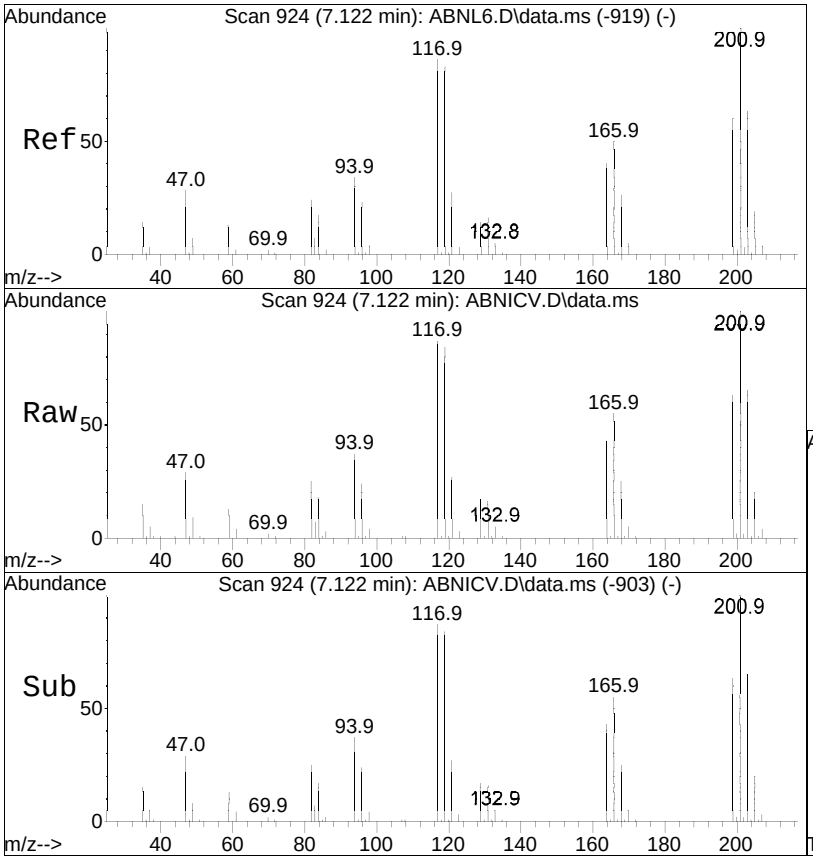


#15
2-Methylphenol
Concen: 5.38 ug/ml
RT: 6.904 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 66691

Ion	Ratio	Lower	Upper
108	100		
107	89.0	70.7	106.1
90	24.3	18.7	28.1

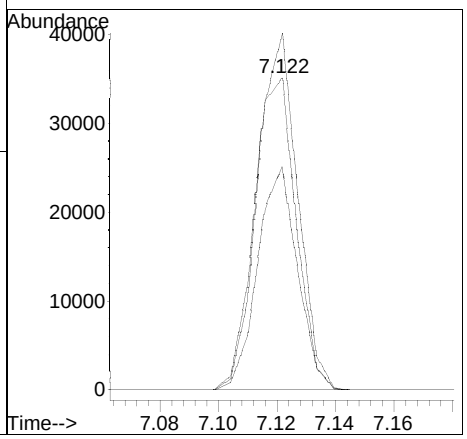


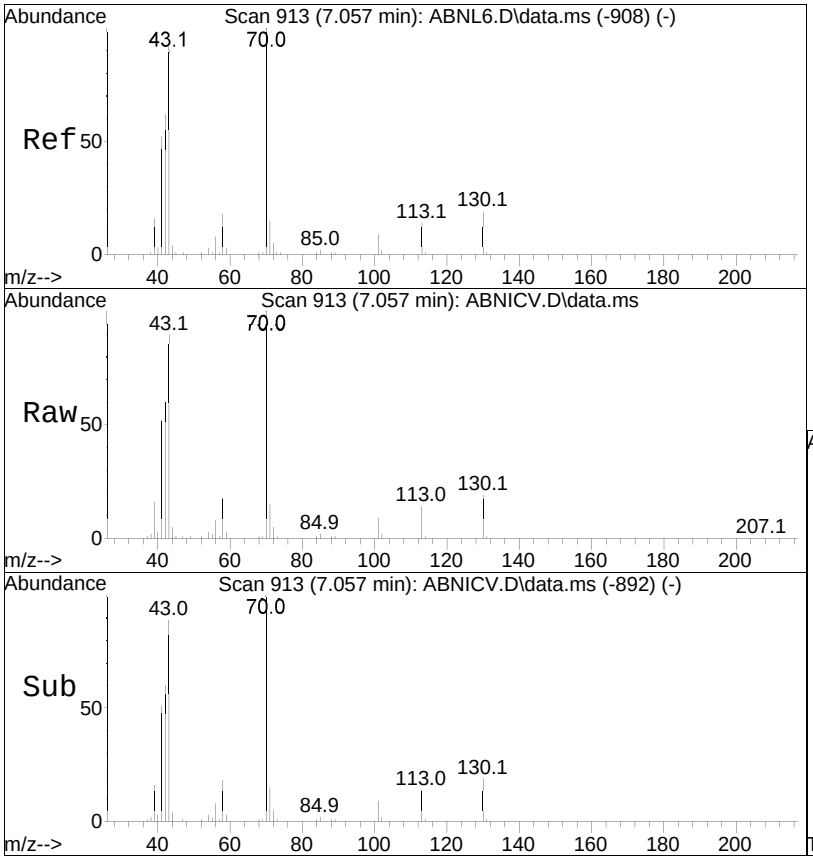


#16
Hexachloroethane
Concen: 5.34 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:117 Resp: 34991

Ion	Ratio	Lower	Upper
117	100		
201	109.1	58.6	87.8#
199	67.7	36.9	55.3#

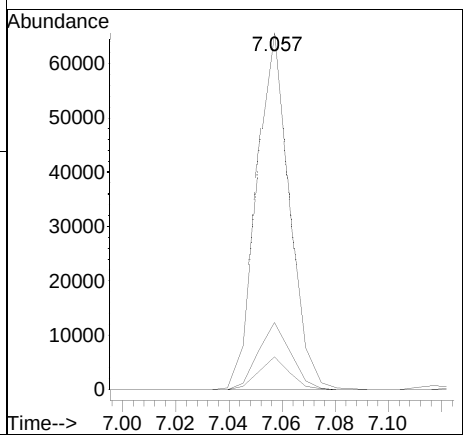


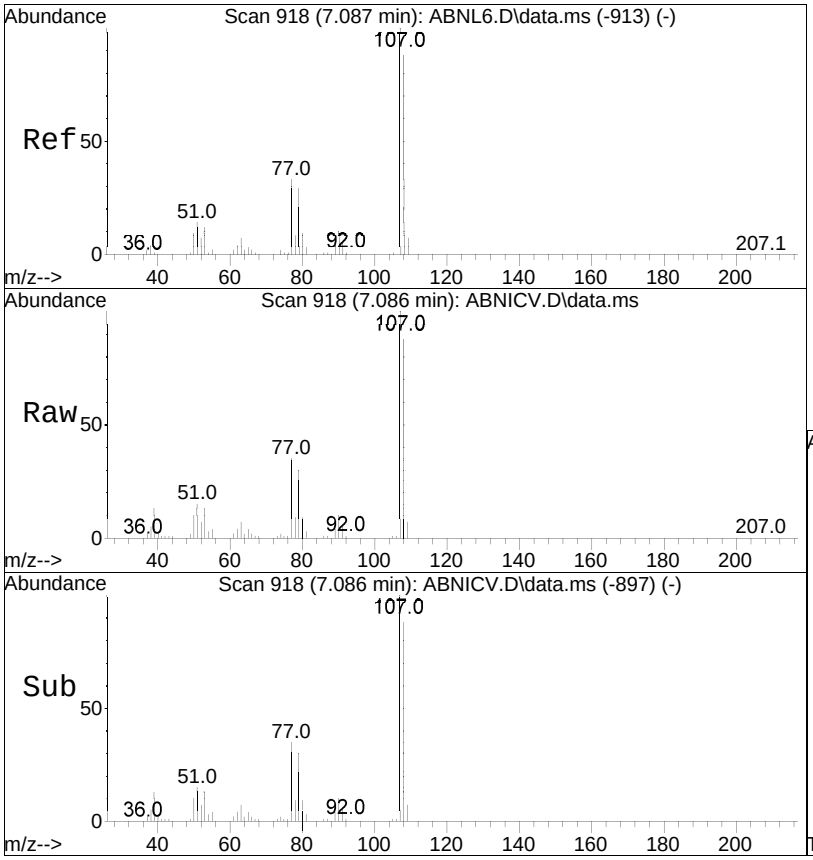


#17
n-Nitrosodi-n-propylamine
Concen: 5.33 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 70 Resp: 56436

Ion	Ratio	Lower	Upper
70	100		
130	18.5	18.2	27.4
101	8.7	7.8	11.8

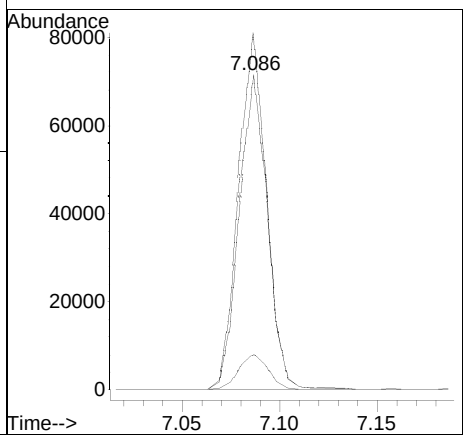


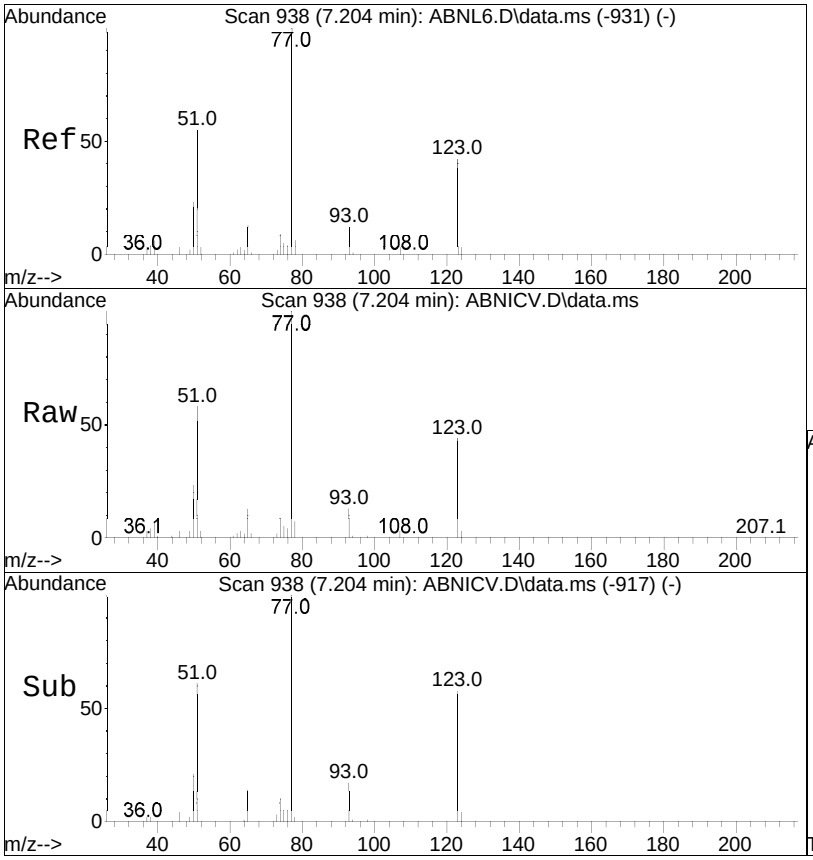


#18
3-Methylphenol/4-Methylphenol
Concen: 5.48 ug/ml
RT: 7.086 min Scan# 918
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 71562

Ion	Ratio	Lower	Upper
108	100		
107	113.0	88.6	132.8
90	11.6	8.8	13.2

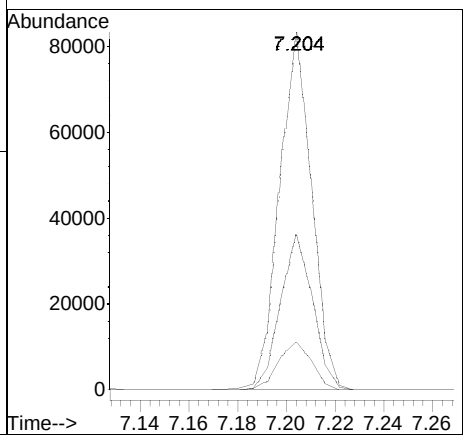


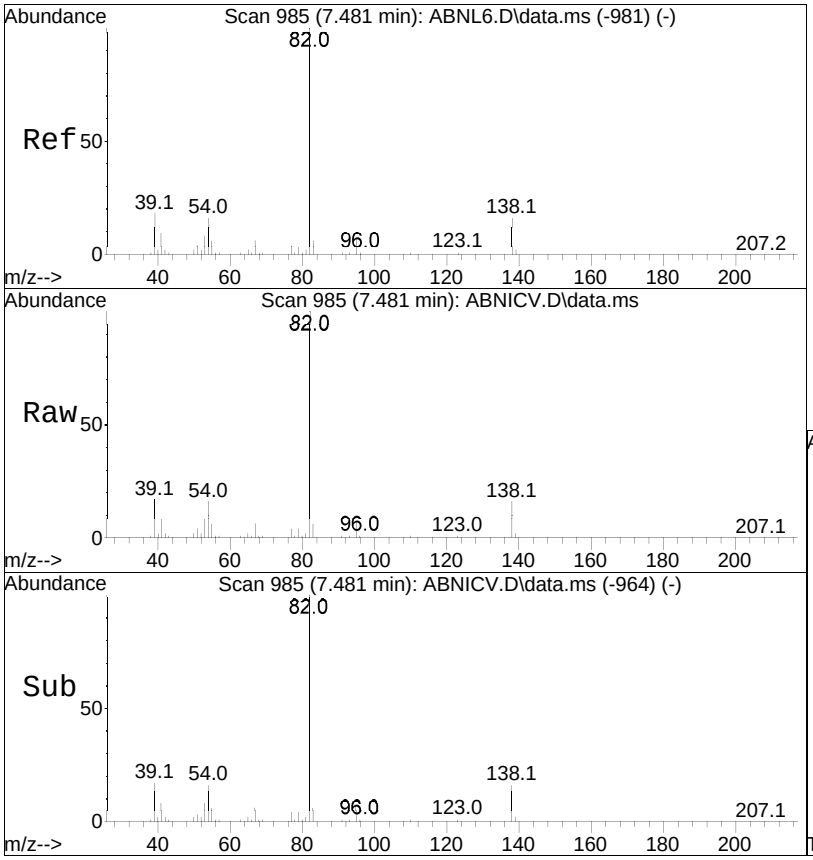


#20
Nitrobenzene
Concen: 5.27 ug/ml
RT: 7.204 min Scan# 938
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 75830

Ion	Ratio	Lower	Upper
77	100		
123	43.6	36.3	54.5
65	14.1	11.6	17.4

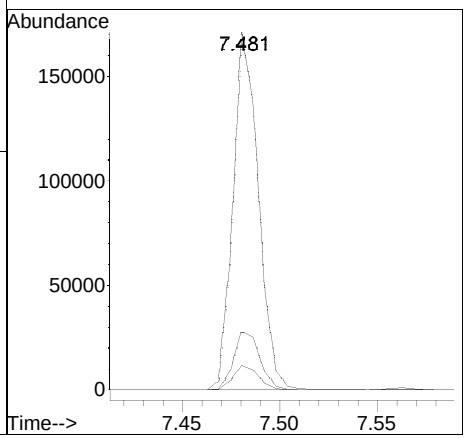


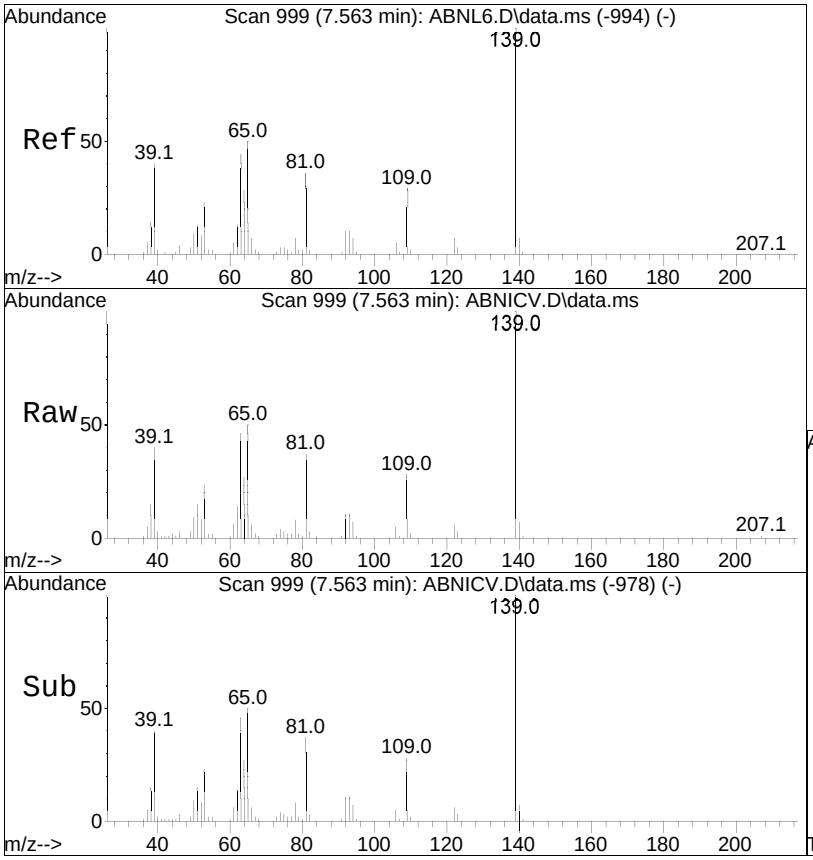


#21
Isophorone
Concen: 5.47 ug/ml
RT: 7.481 min Scan# 985
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 82 Resp: 152062

Ion	Ratio	Lower	Upper
82	100		
138	16.9	14.7	22.1
95	6.9	5.2	7.8

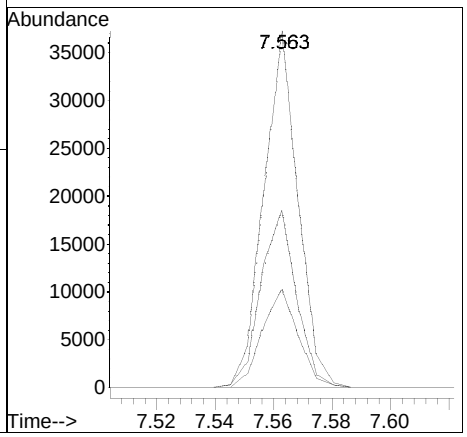


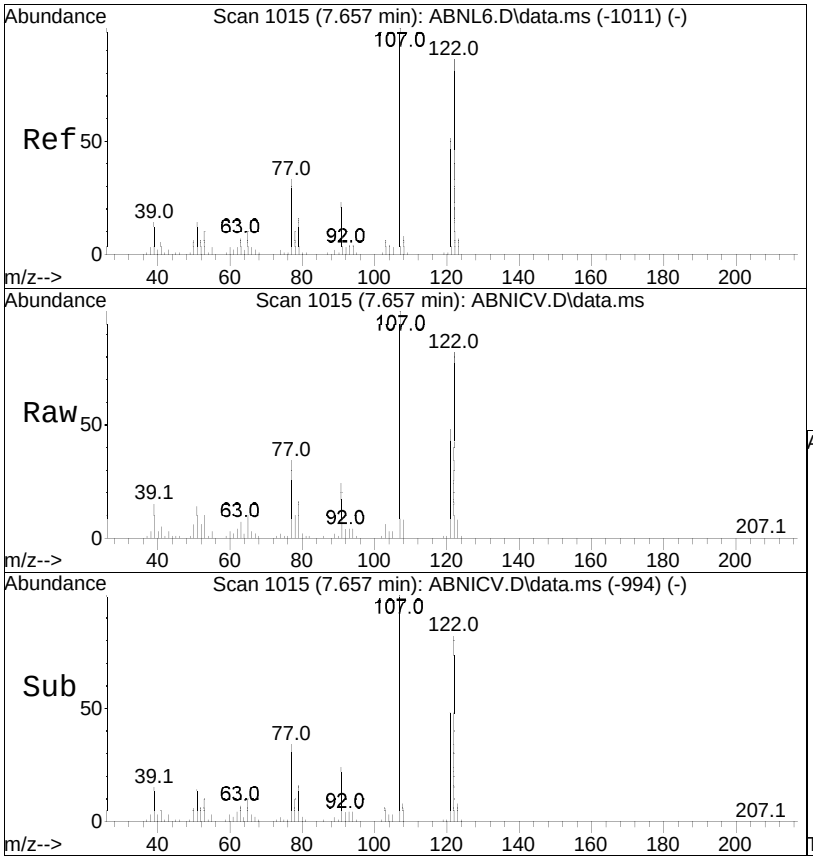


#22
2-Nitrophenol
Concen: 4.68 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:139 Resp: 30029

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	51.9	46.1	69.1

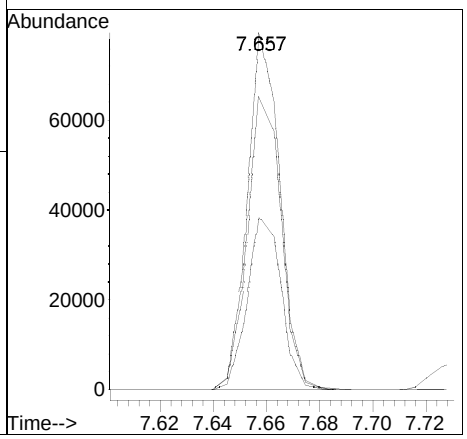


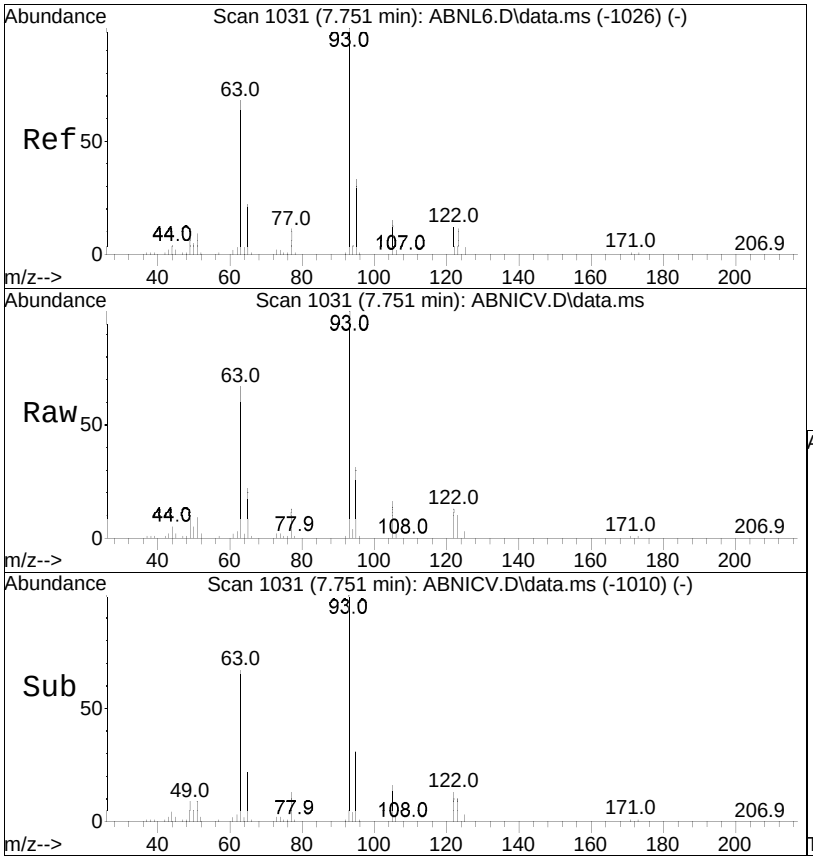


#23
2,4-Dimethylphenol
Concen: 5.15 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 67410

Ion	Ratio	Lower	Upper
107	100		
121	50.6	40.0	60.0
122	85.3	70.2	105.4

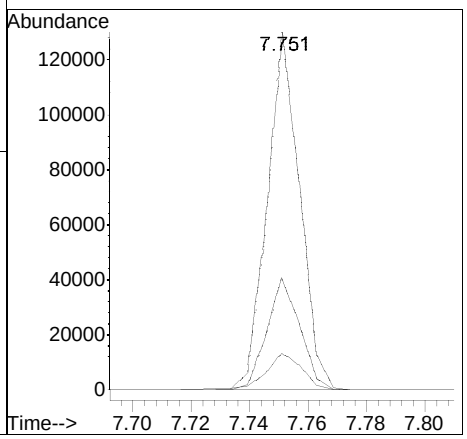


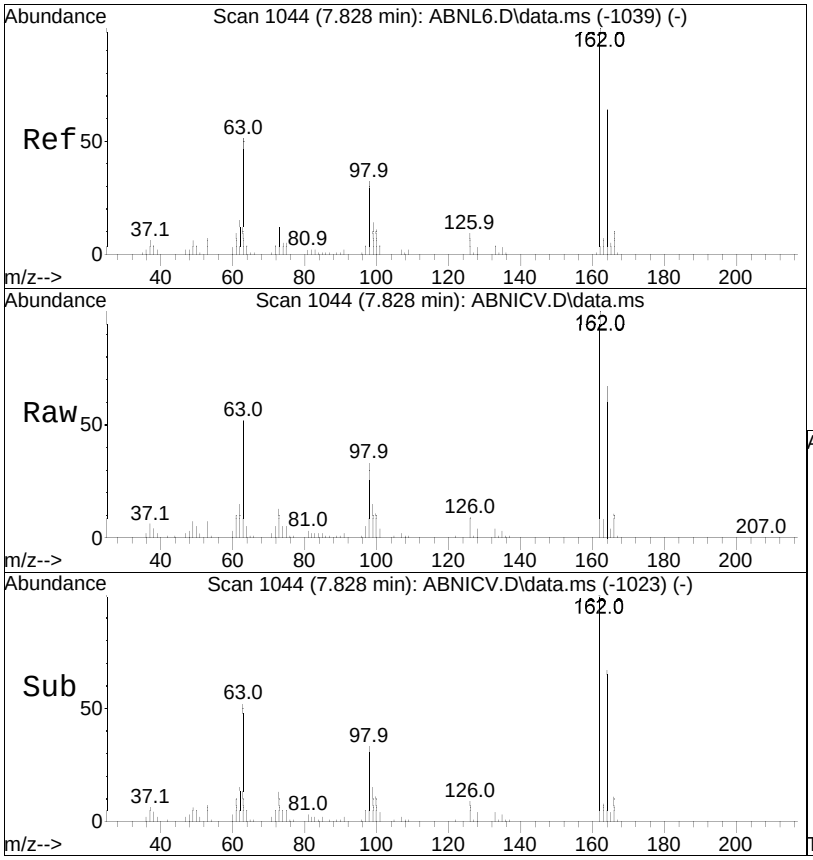


#24
Bis(2-chloroethoxy)methane
Concen: 5.45 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 98786

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	11.7	10.1	15.1

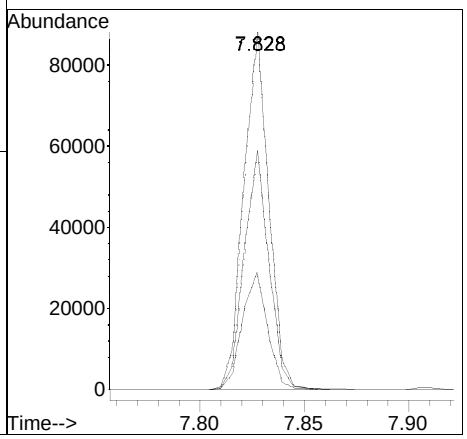


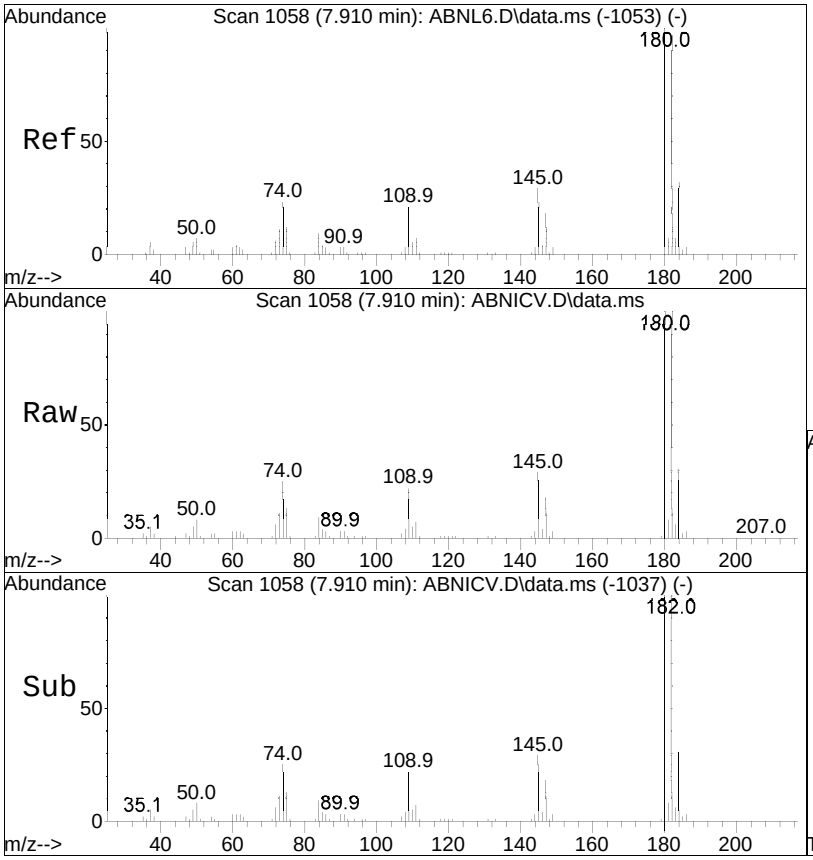


#25
2,4-Dichlorophenol
Concen: 5.52 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 72592

Ion	Ratio	Lower	Upper
162	100		
164	66.1	51.0	76.4
98	33.5	32.2	48.2

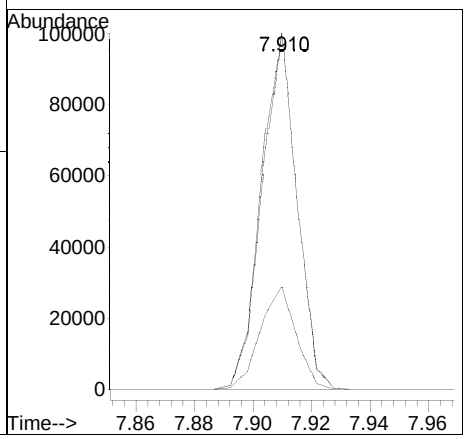


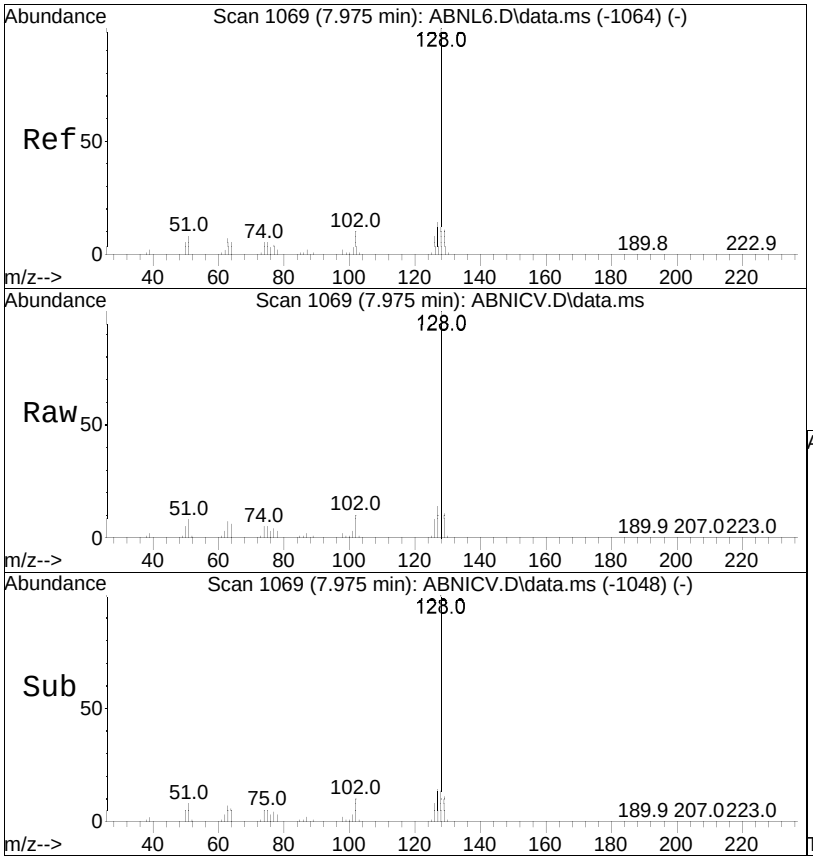


#26
1,2,4-Trichlorobenzene
Concen: 5.35 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:180 Resp: 84896

Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	29.0	25.7	38.5

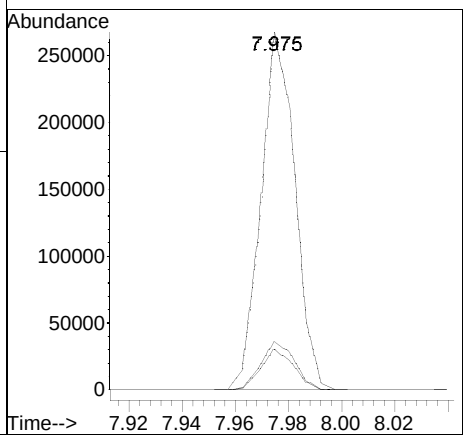


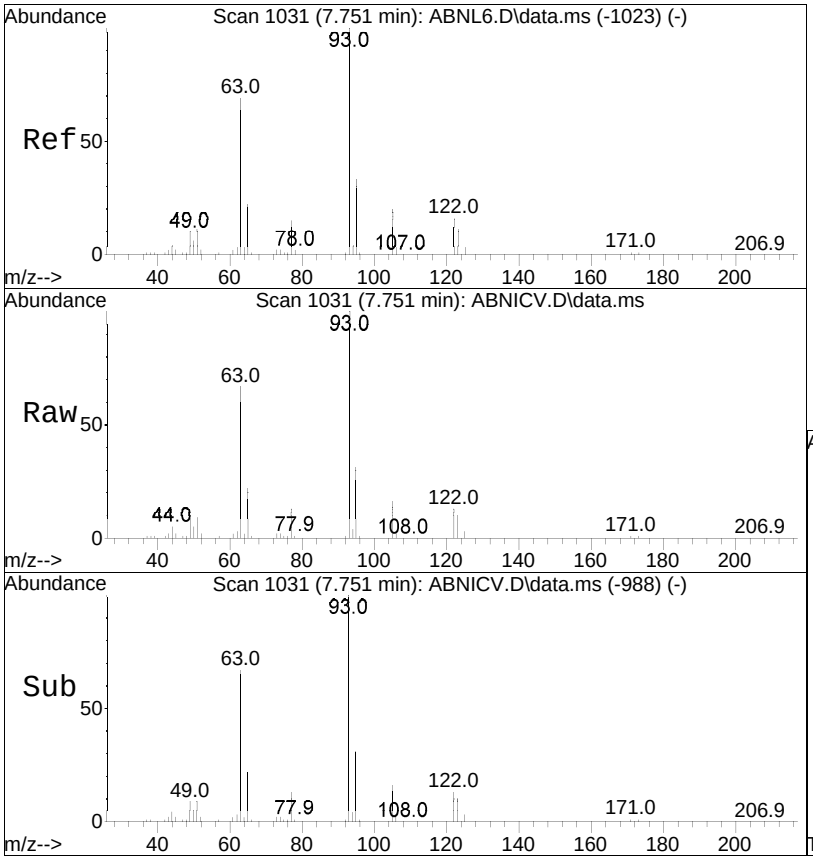


#35
Naphthalene
Concen: 5.22 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 234099

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.6	10.3	15.5

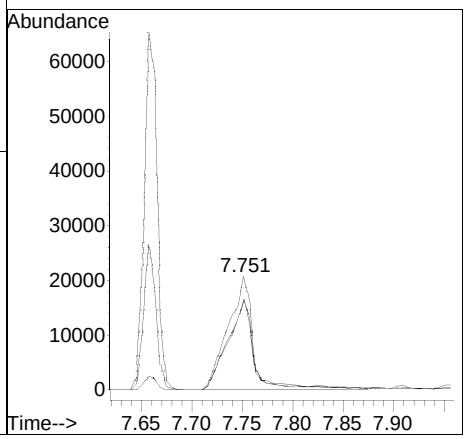


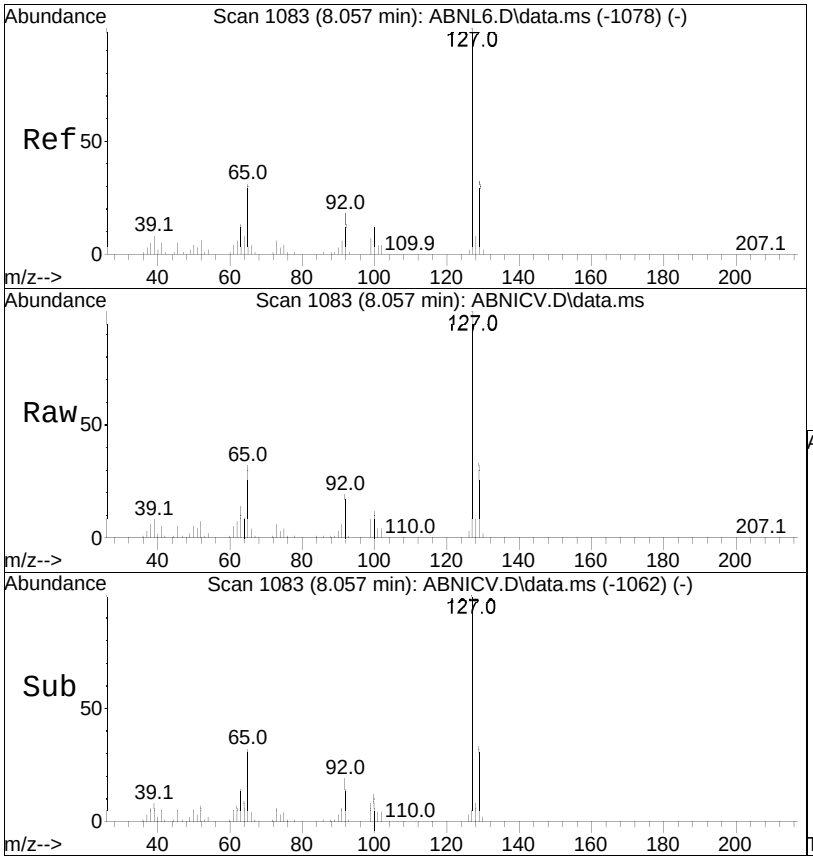


#36
Benzoic Acid
Concen: 4.82 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:105 Resp: 37692

Ion	Ratio	Lower	Upper
105	100		
122	80.2	59.9	89.9
77	75.3	60.1	90.1

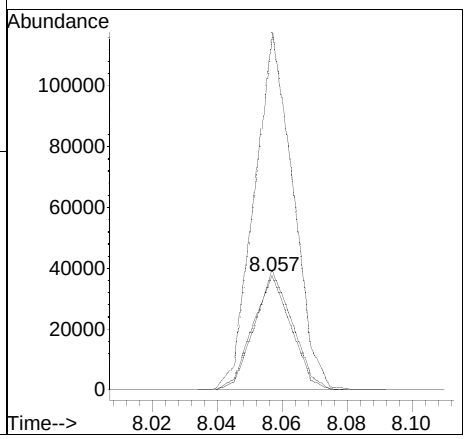


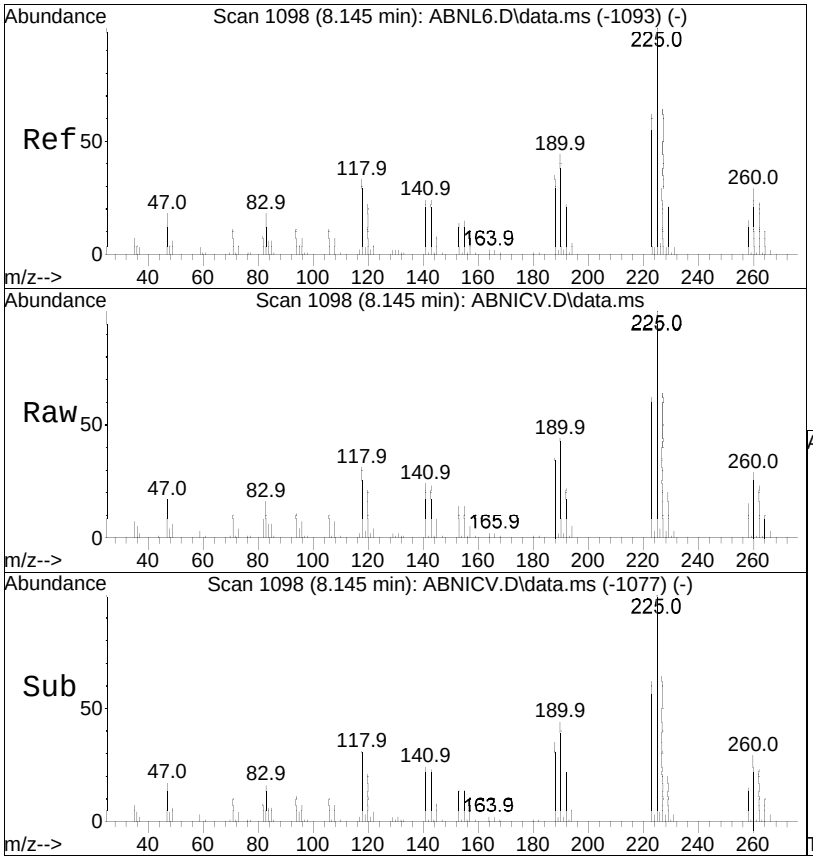


#37
4-Chloroaniline
Concen: 5.40 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 30505

Ion	Ratio	Lower	Upper
65	100		
127	316.4	237.6	356.4
129	103.0	76.3	114.5

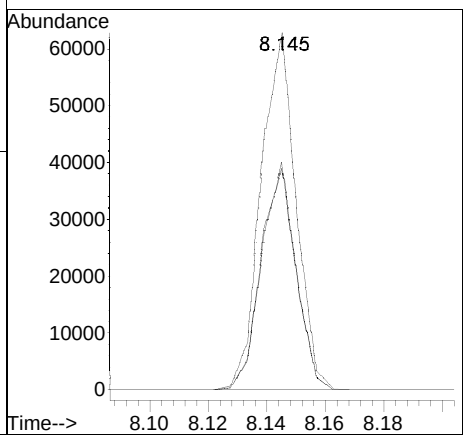


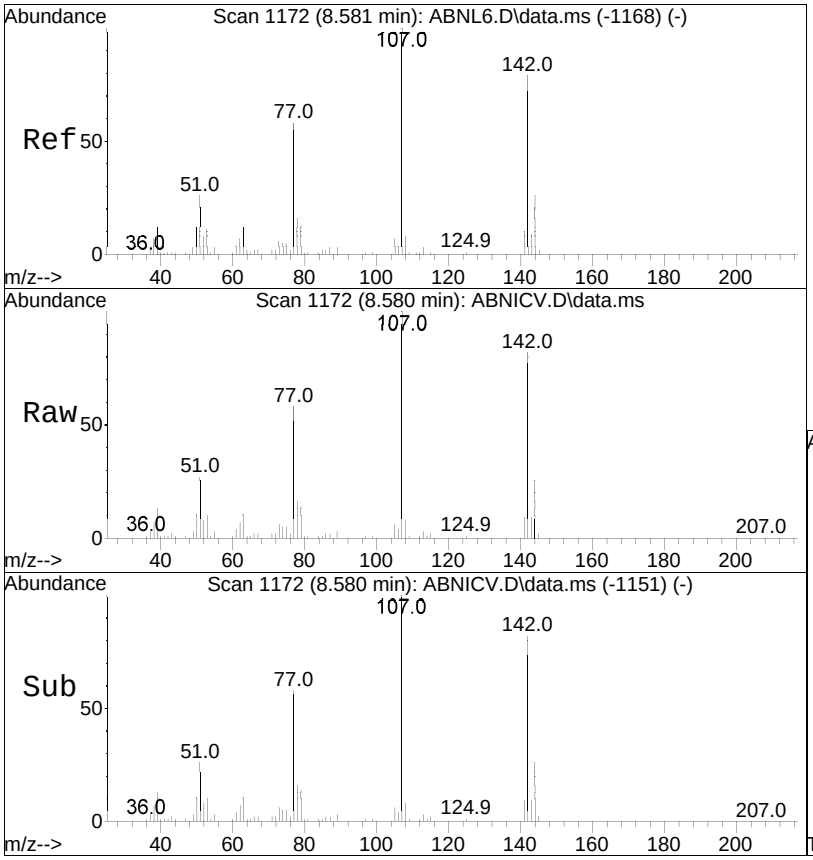


#38
Hexachlorobutadiene
Concen: 5.46 ug/ml
RT: 8.145 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:225 Resp: 51724

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	62.7	52.2	78.2

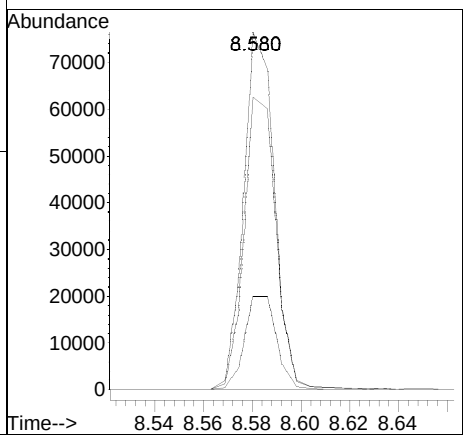


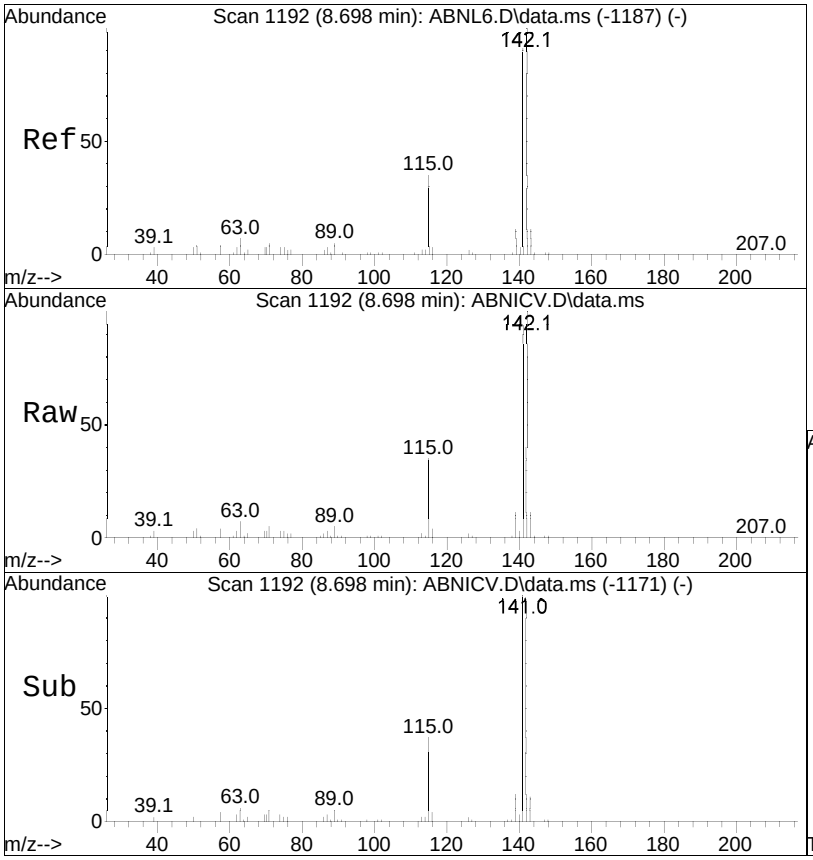


#39
p-Chloro-m-cresol
Concen: 5.45 ug/ml
RT: 8.580 min Scan# 1172
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 66777

Ion	Ratio	Lower	Upper
107	100		
144	27.2	20.9	31.3
142	84.7	66.1	99.1

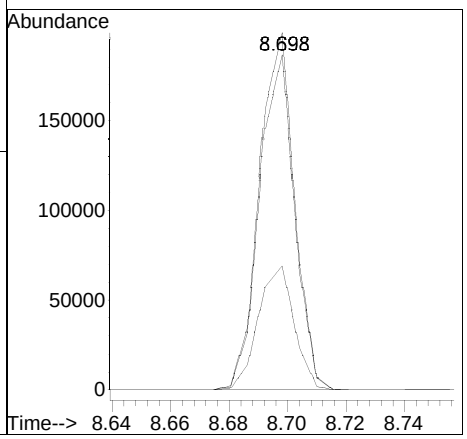


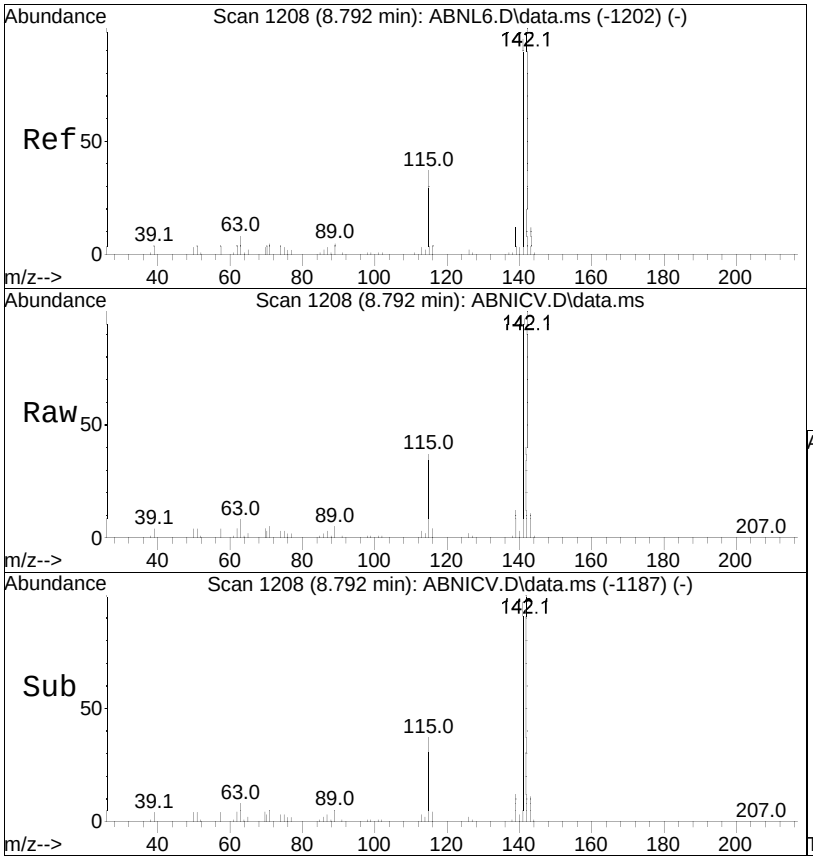


#40
2-Methylnaphthalene
Concen: 5.37 ug/ml
RT: 8.698 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:142 Resp: 166439

Ion	Ratio	Lower	Upper
142	100		
141	93.2	69.6	104.4
115	35.6	26.6	40.0

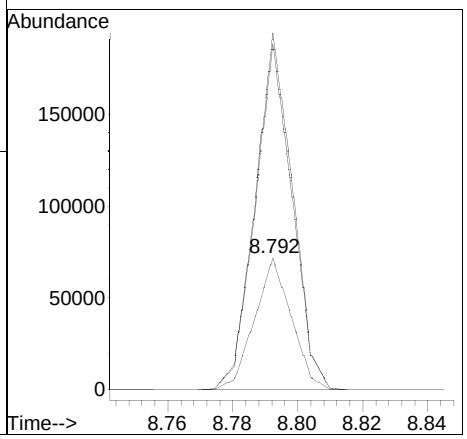


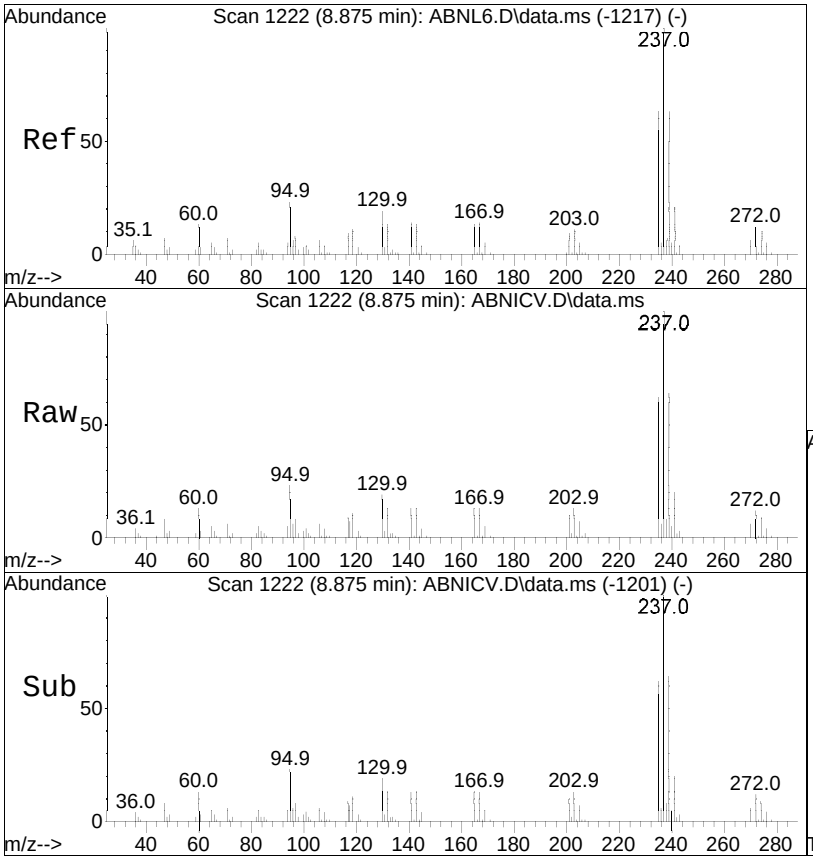


#41
1-Methylnaphthalene
Concen: 5.35 ug/ml
RT: 8.792 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:115 Resp: 56538

Ion	Ratio	Lower	Upper
115	100		
141	261.8	207.8	311.6
142	273.1	226.8	340.2

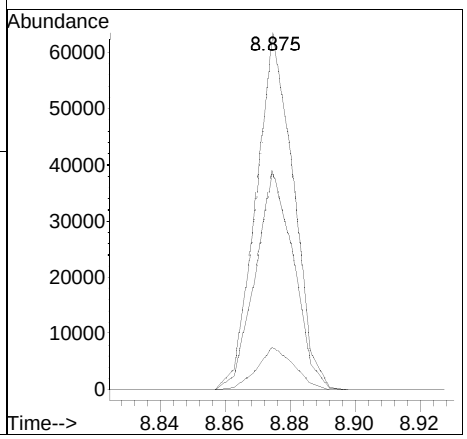


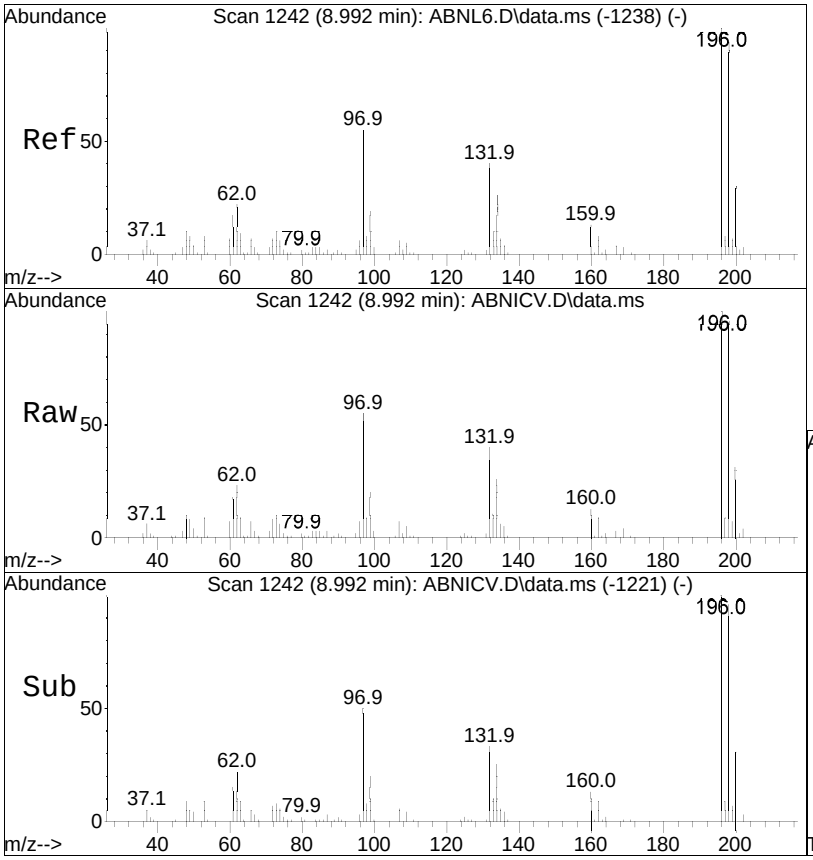


#42
Hexachlorocyclopentadiene
Concen: 5.48 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:237 Resp: 50620

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.9	9.8	14.6

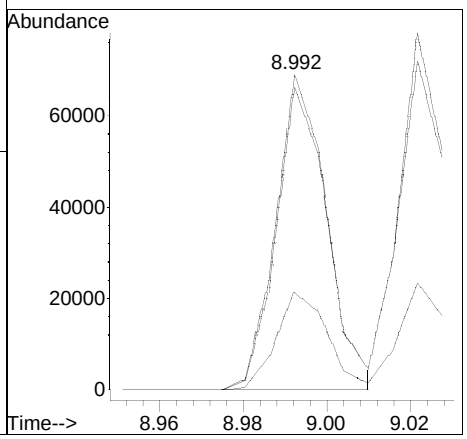


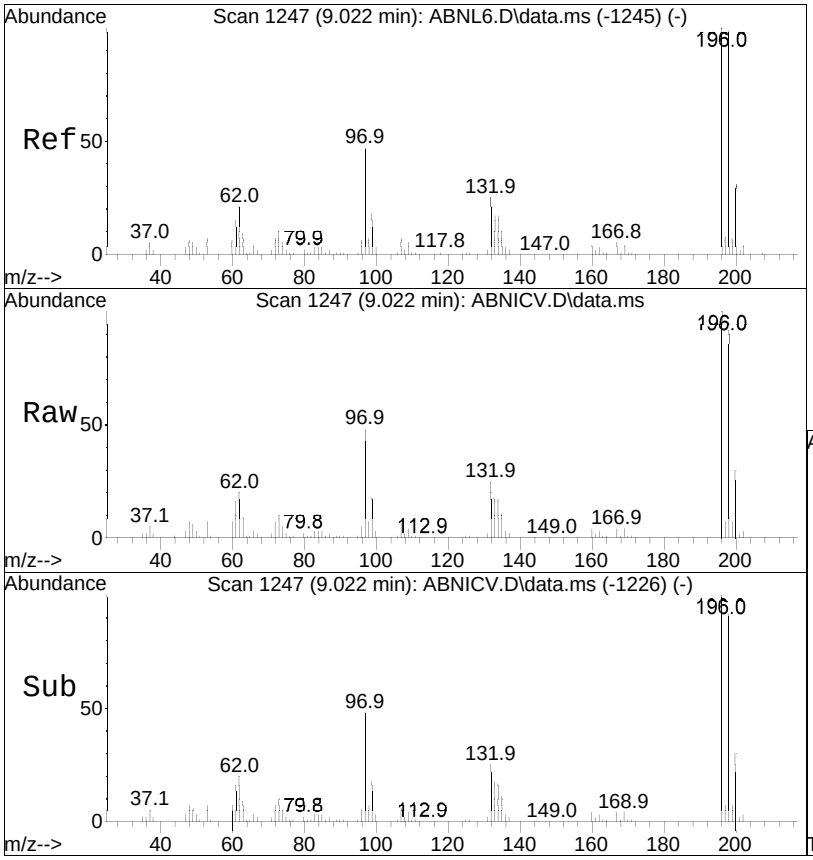


#43
2,4,6-Trichlorophenol
Concen: 5.49 ug/ml
RT: 8.992 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 58438

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.5	116.3
200	31.5	23.8	35.6

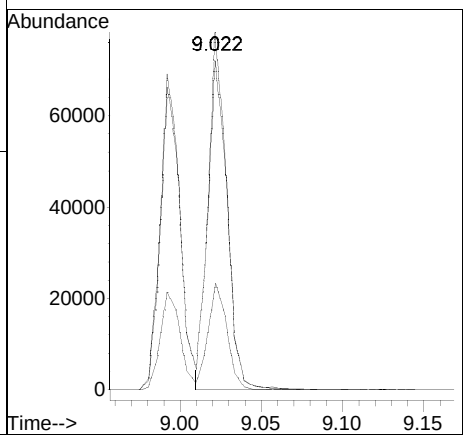


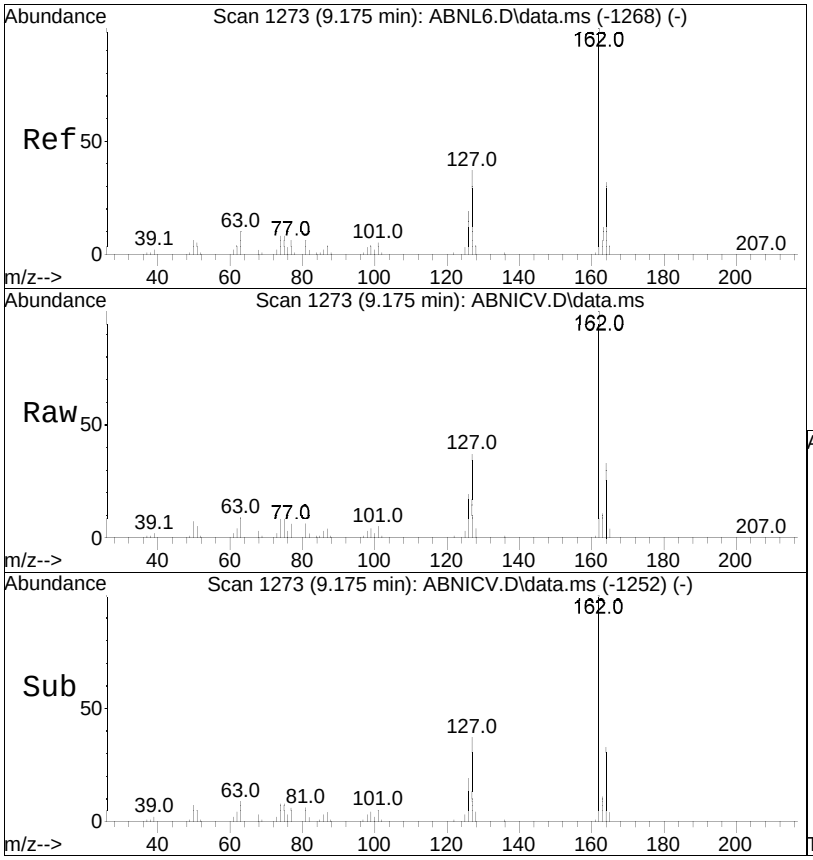


#44
2,4,5-Trichlorophenol
Concen: 5.54 ug/ml
RT: 9.022 min Scan# 1247
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 62619

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	95.3	78.0	117.0

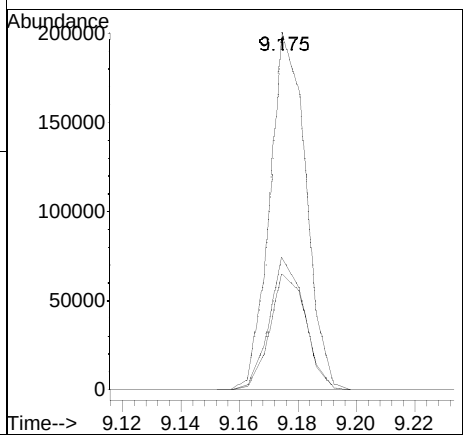


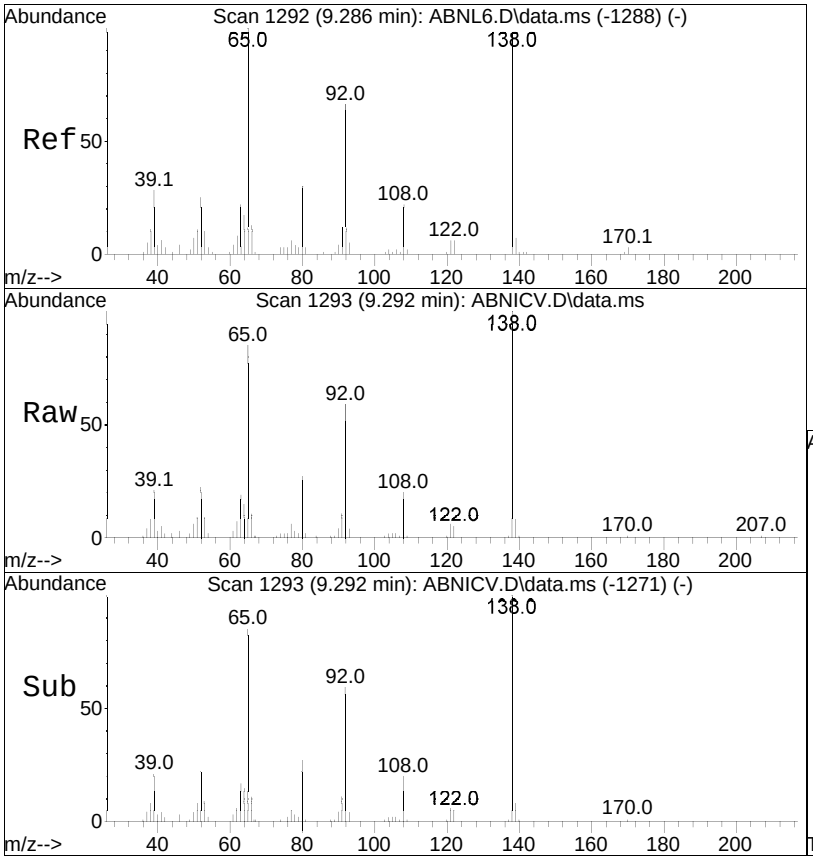


#46
2-Chloronaphthalene
Concen: 5.28 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 170033

Ion	Ratio	Lower	Upper
162	100		
127	36.0	32.2	48.4
164	32.8	25.7	38.5

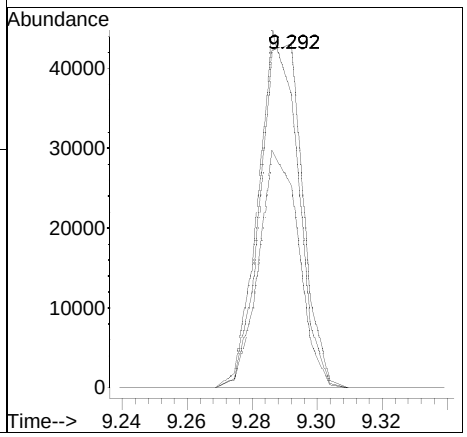


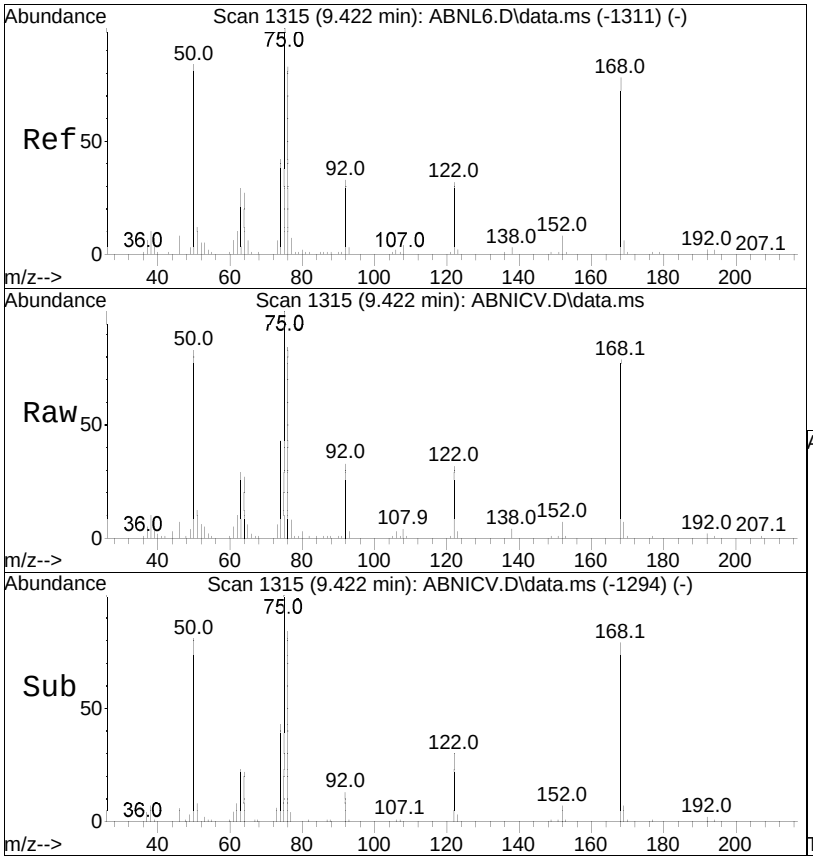


#47
2-Nitroaniline
Concen: 5.01 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39012

Ion	Ratio	Lower	Upper
138	100		
92	64.9	53.5	80.3
65	96.8	86.3	129.5

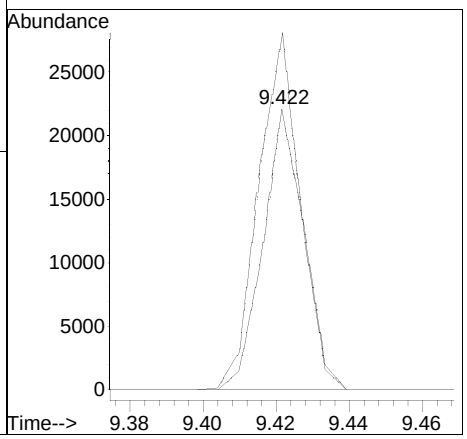


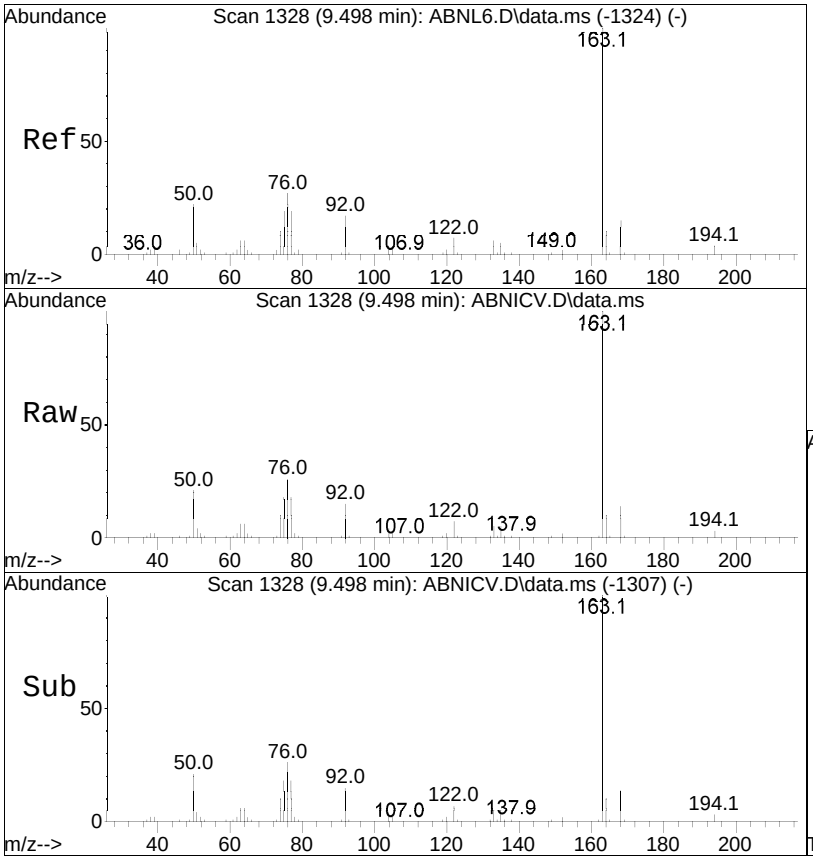


#48
1,4-Dinitrobenzene
Concen: 4.37 ug/ml
RT: 9.422 min Scan# 1315
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 17114

Ion	Ratio	Lower	Upper
168	100		
75	129.1	121.8	182.8

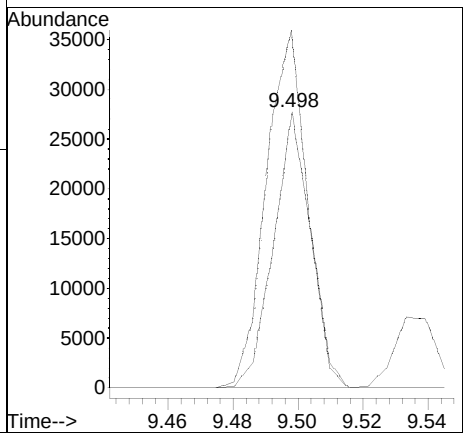


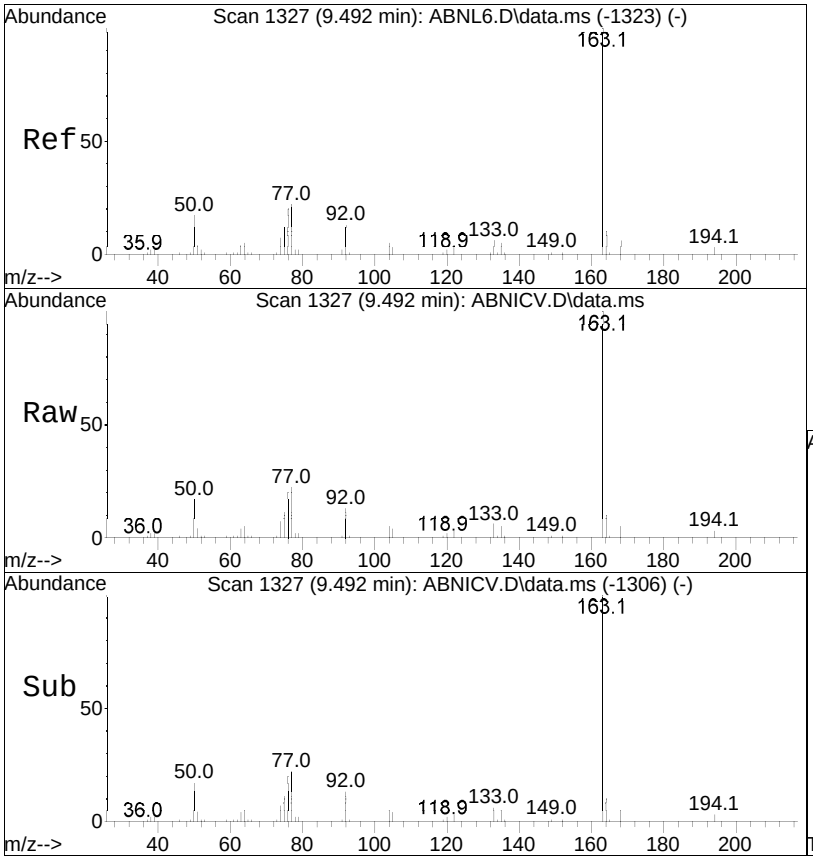


#49
1,3-Dinitrobenzene
Concen: 4.48 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 21913

Ion	Ratio	Lower	Upper
168	100		
75	142.2	22.7	34.1#

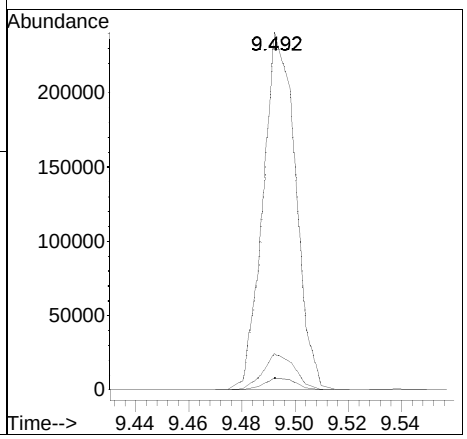


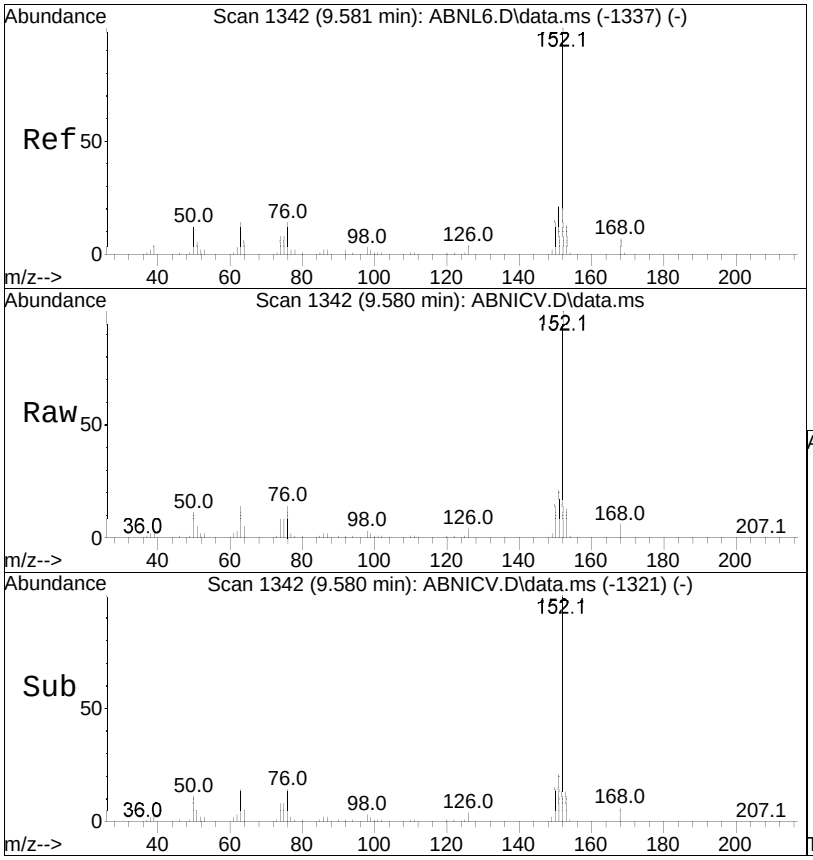


#50
Dimethyl phthalate
Concen: 5.37 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:163 Resp: 202629

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.0	7.9	11.9

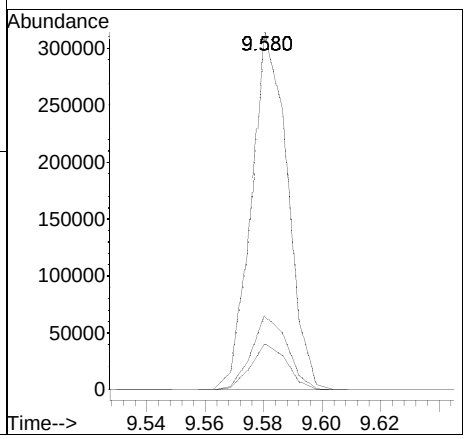


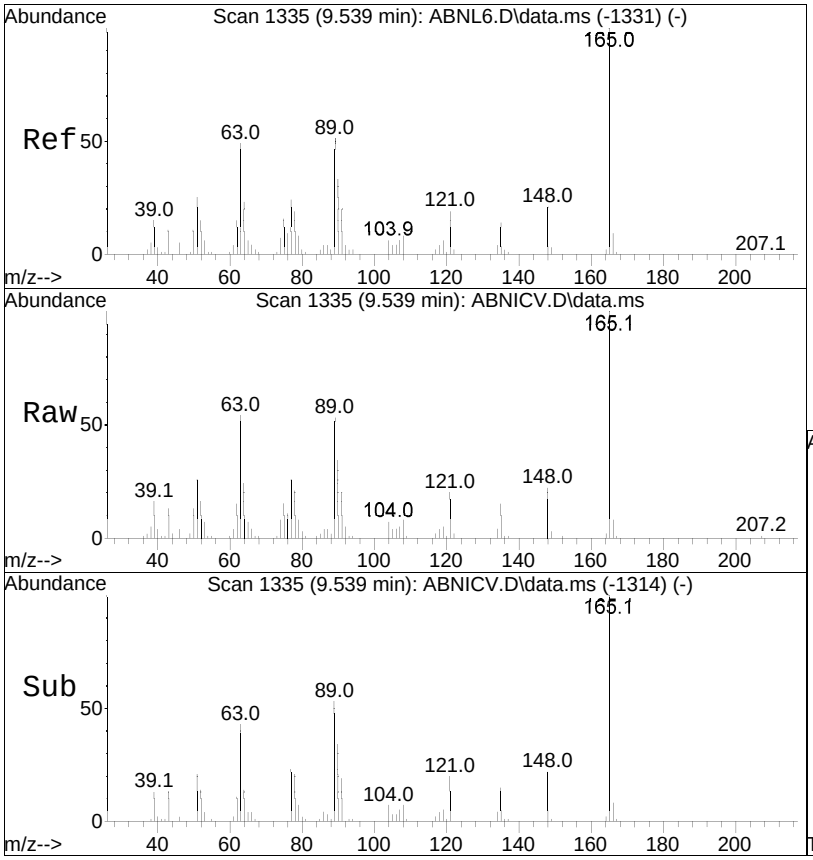


#51
Acenaphthylene
Concen: 5.51 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:152 Resp: 267479

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	12.9	10.5	15.7

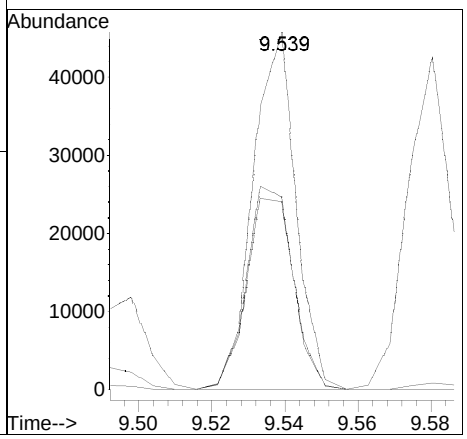


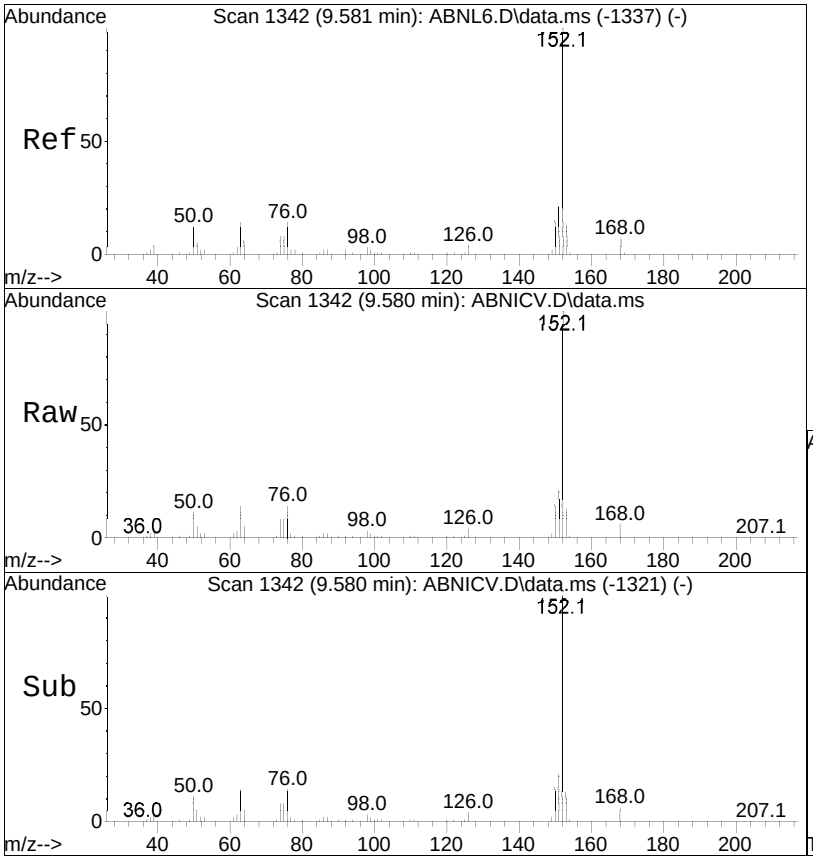


#52
2,6-Dinitrotoluene
Concen: 5.43 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 37241

Ion	Ratio	Lower	Upper
165	100		
89	59.7	54.2	81.2
63	61.7	64.2	96.2#

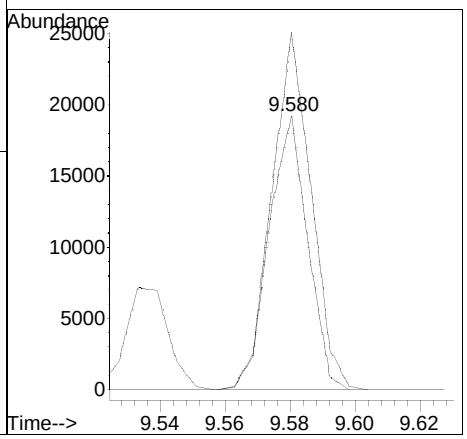


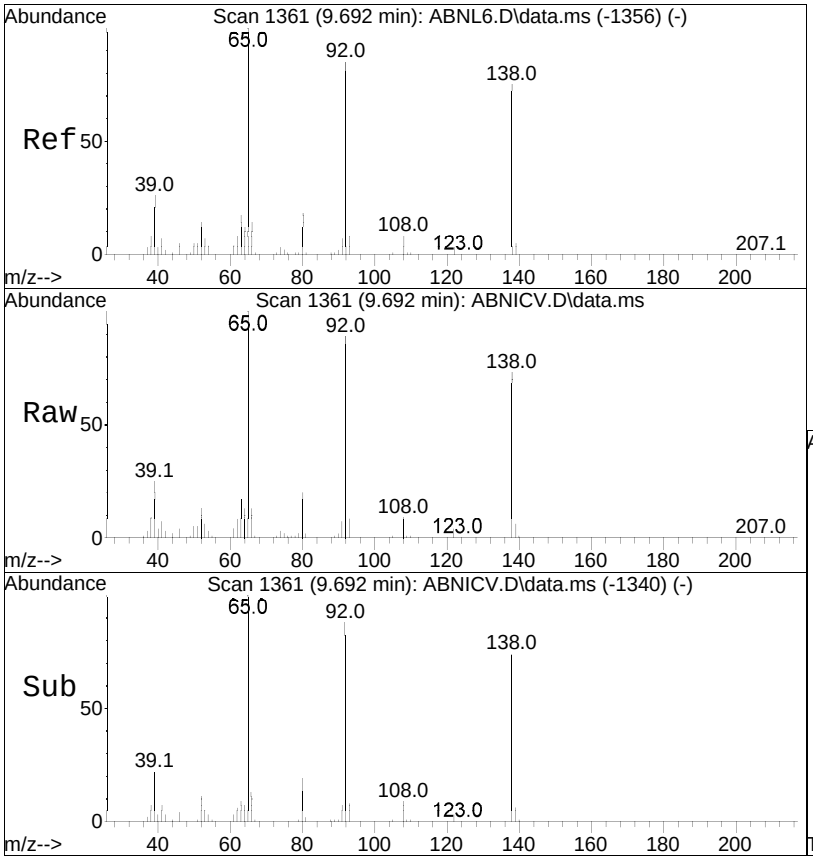


#53
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 15743

Ion	Ratio	Lower	Upper
168	100		
75	133.3	30.9	46.3#

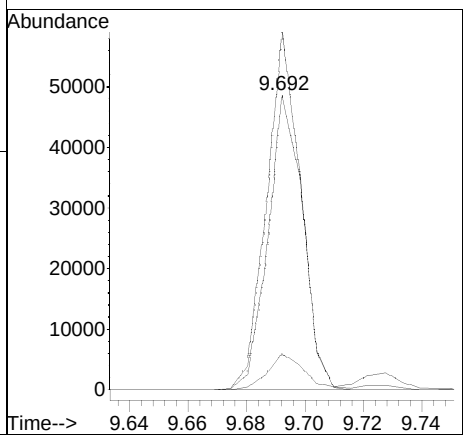


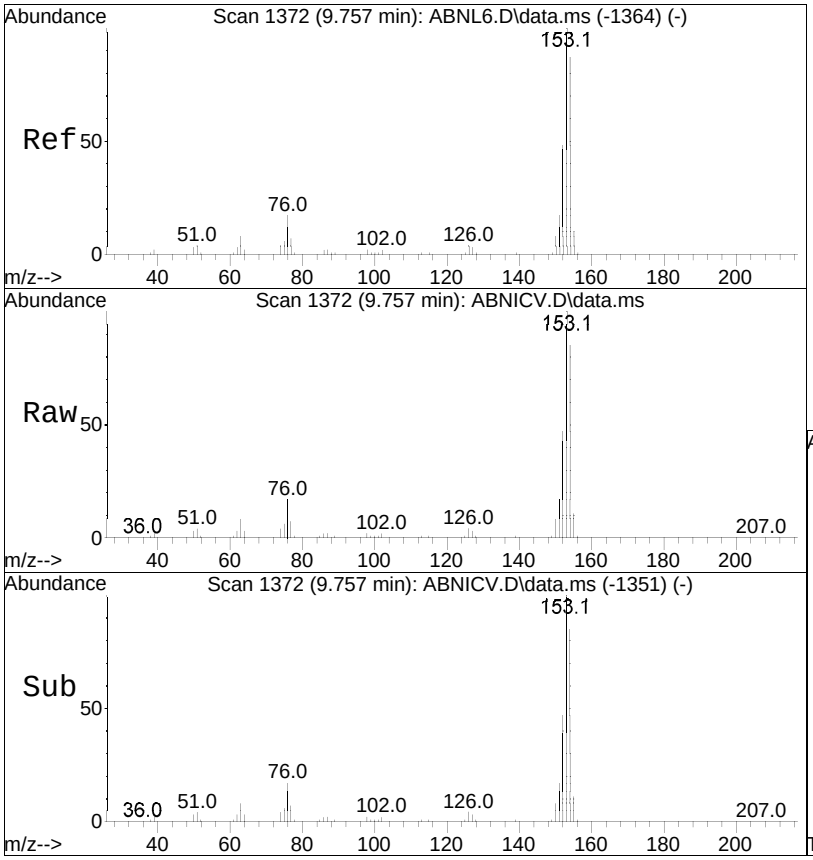


#63
3-Nitroaniline
Concen: 5.53 ug/ml
RT: 9.692 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39753

Ion	Ratio	Lower	Upper
138	100		
92	118.5	93.4	140.2
108	12.8	9.5	14.3

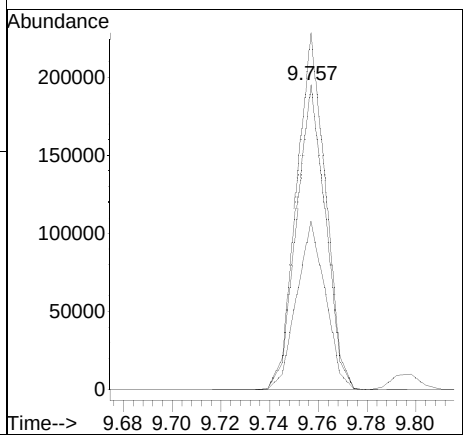


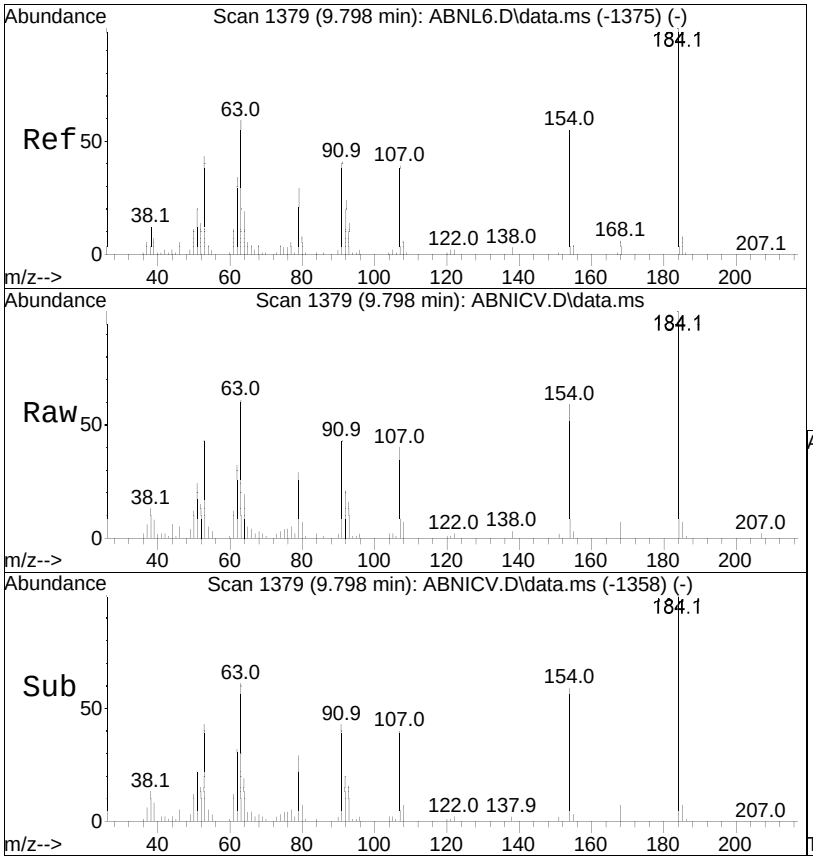


#64
Acenaphthene
Concen: 5.38 ug/ml
RT: 9.757 min Scan# 1372
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:154 Resp: 161236

Ion	Ratio	Lower	Upper
154	100		
153	116.6	85.3	127.9
152	55.3	41.4	62.0

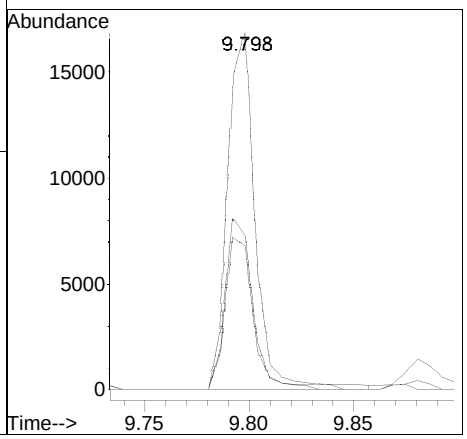


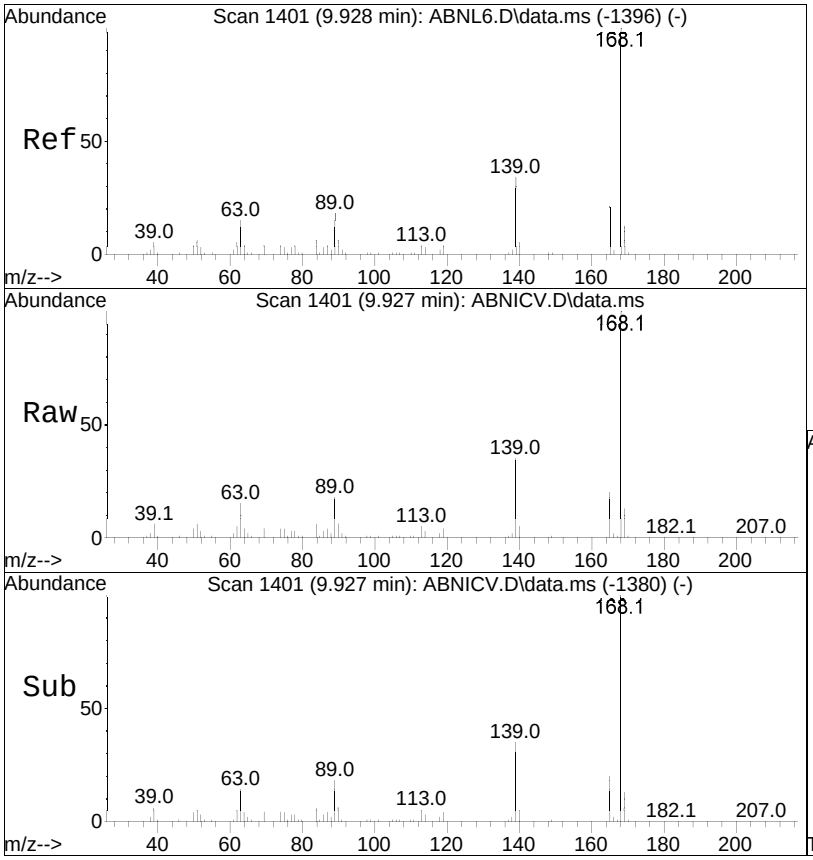


#65
2,4-Dinitrophenol
Concen: 4.21 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 15506

Ion	Ratio	Lower	Upper
184	100		
107	43.0	37.7	56.5
91	48.6	46.3	69.5

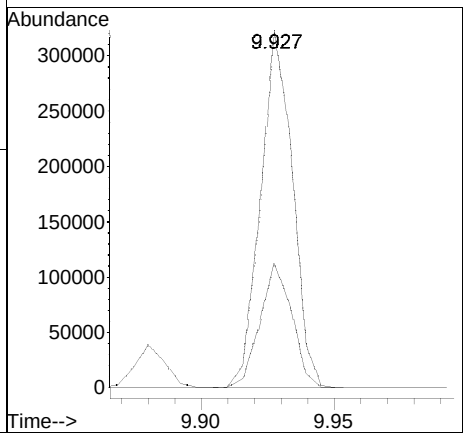


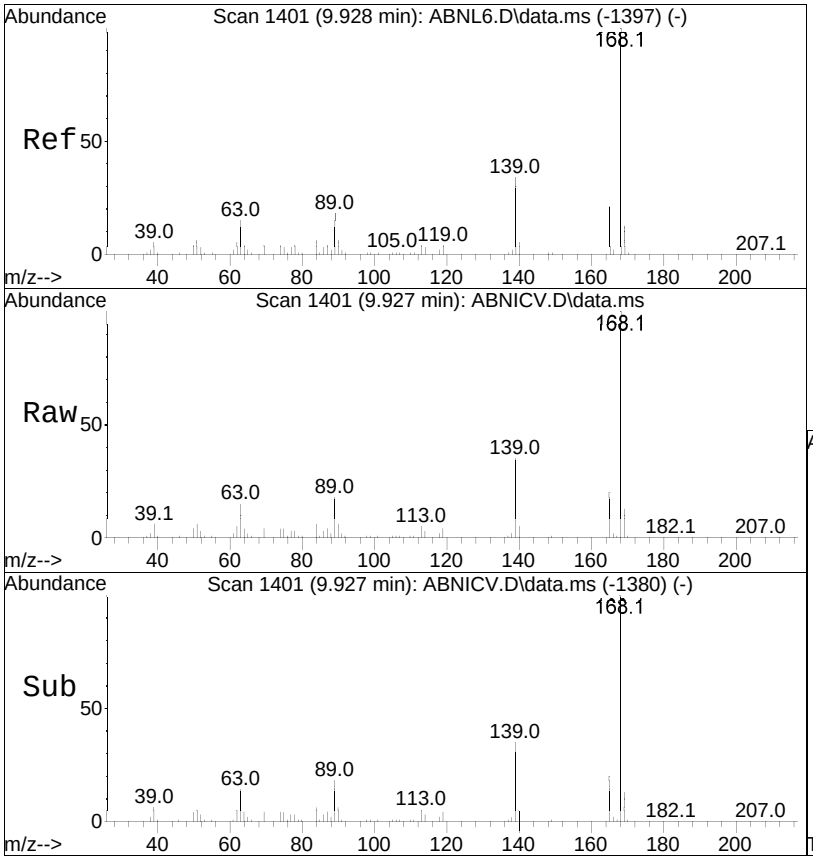


#66
Dibenzofuran
Concen: 5.47 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 266500

Ion	Ratio	Lower	Upper
168	100		
139	35.1	31.4	47.2

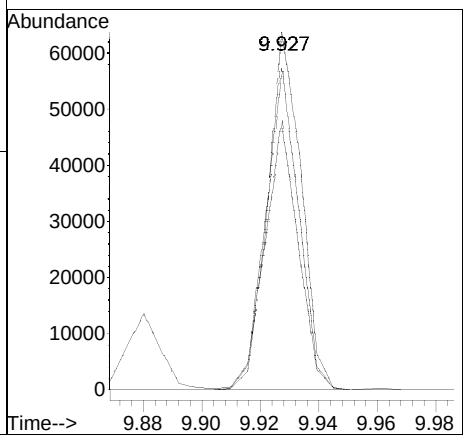


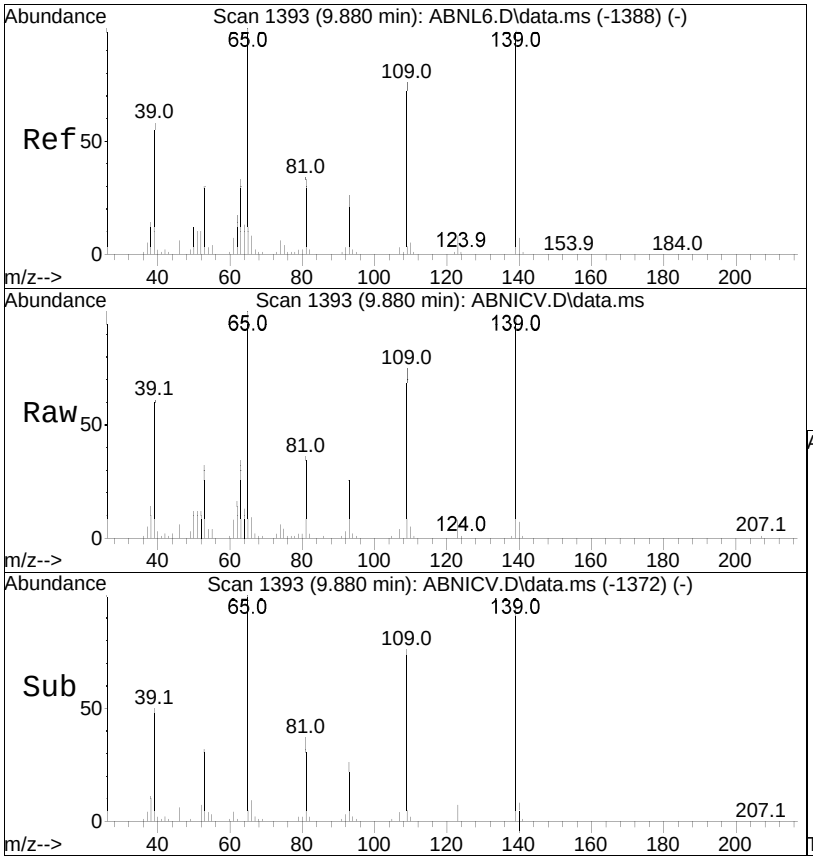


#67
2,4-Dinitrotoluene
Concen: 4.70 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 50041

Ion	Ratio	Lower	Upper
165	100		
89	88.8	72.0	108.0
63	75.3	52.7	79.1

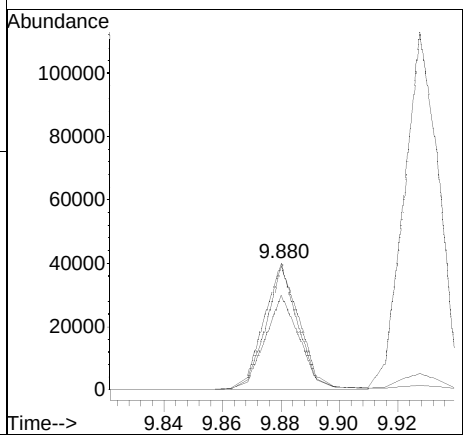


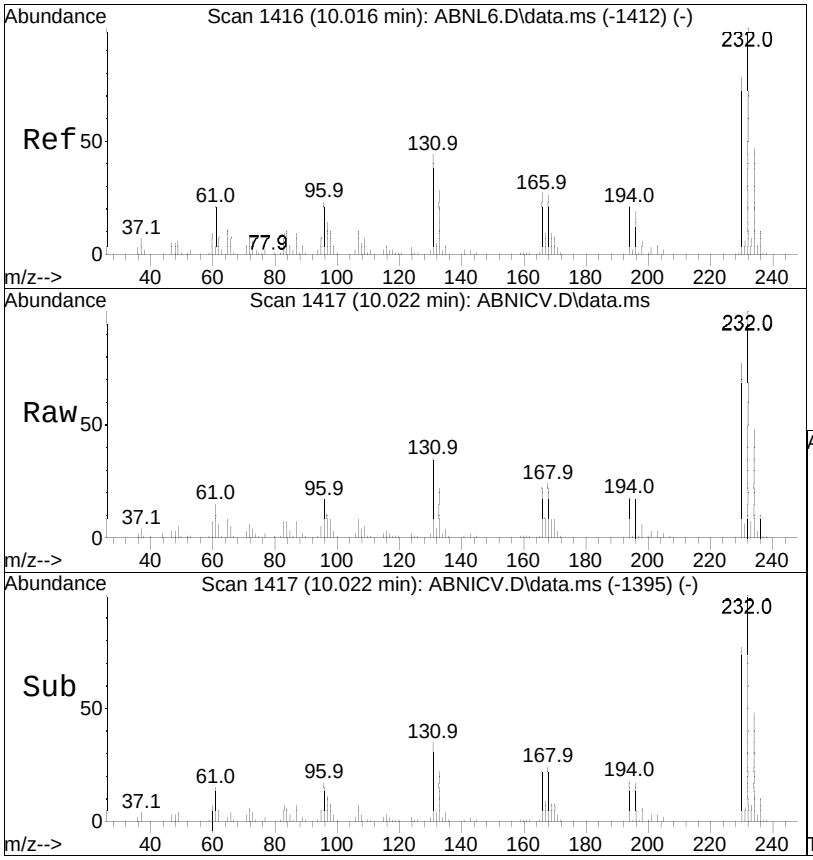


#68
4-Nitrophenol
Concen: 5.24 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 32159

Ion	Ratio	Lower	Upper
65	100		
109	76.3	47.4	71.2#
139	97.3	76.6	115.0

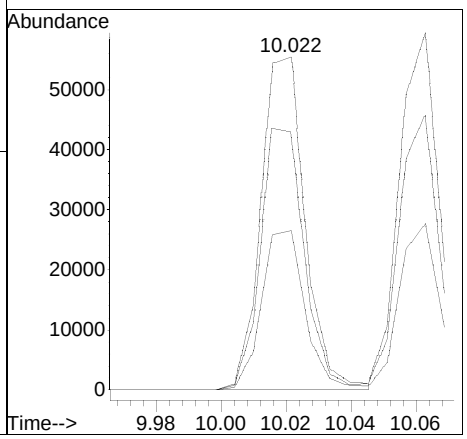


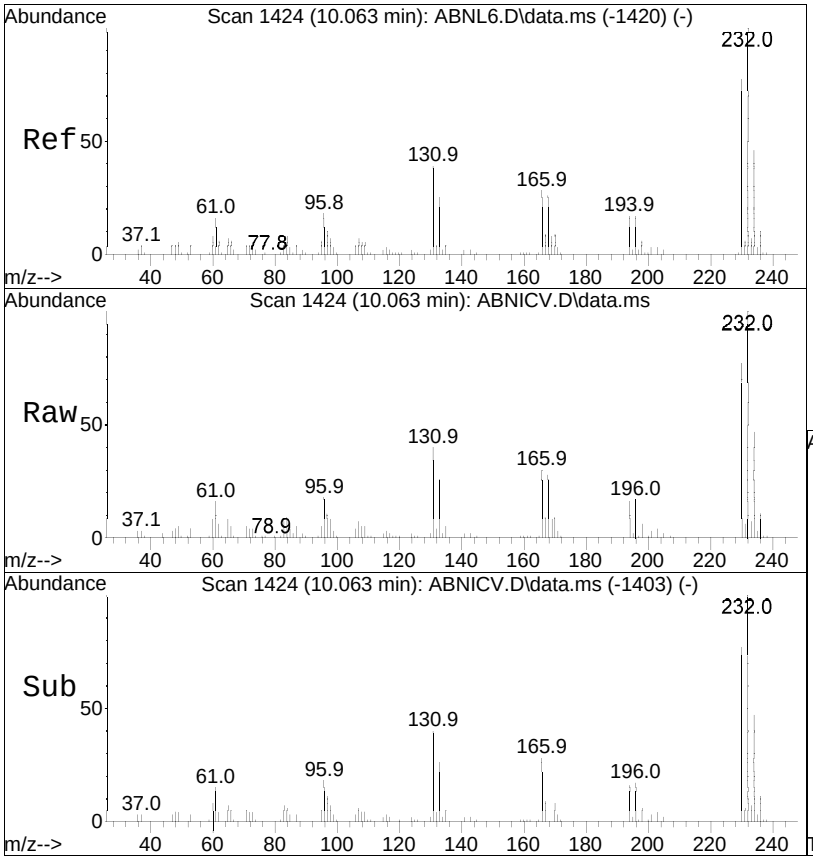


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.94 ug/ml
RT: 10.022 min Scan# 1417
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 52335

Ion	Ratio	Lower	Upper
232	100		
230	77.8	64.2	96.4
234	47.5	38.1	57.1

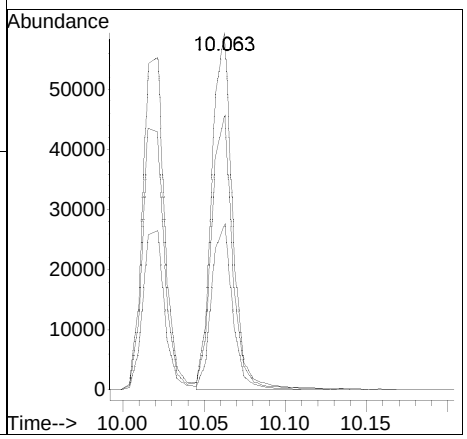


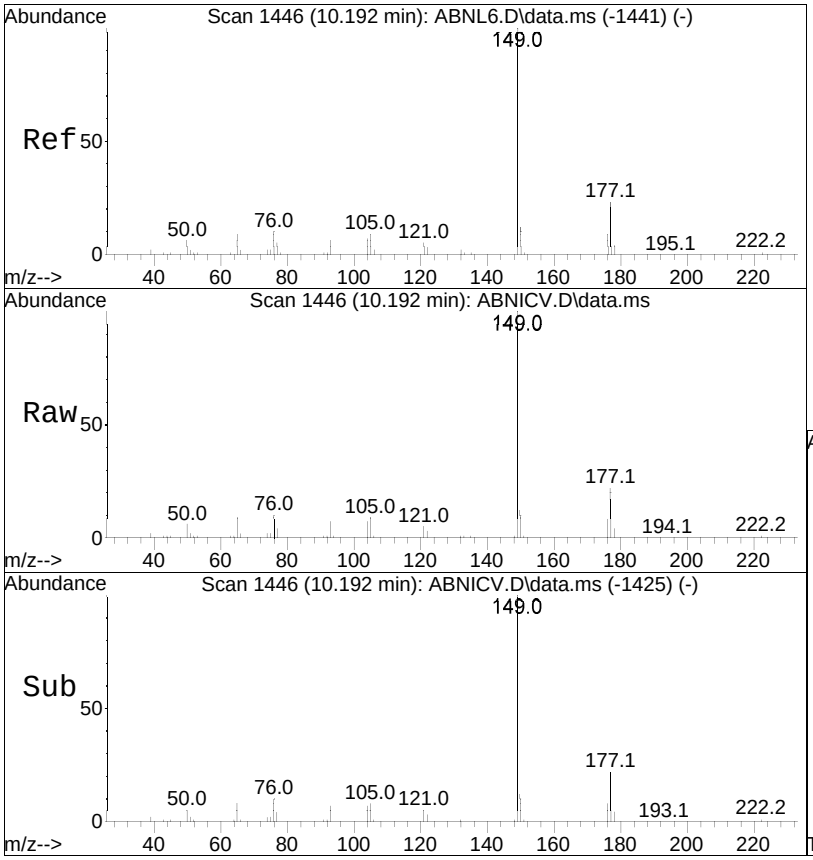


#70
2,3,4,6-Tetrachlorophenol
Concen: 6.15 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 53523

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	46.4	36.2	54.2

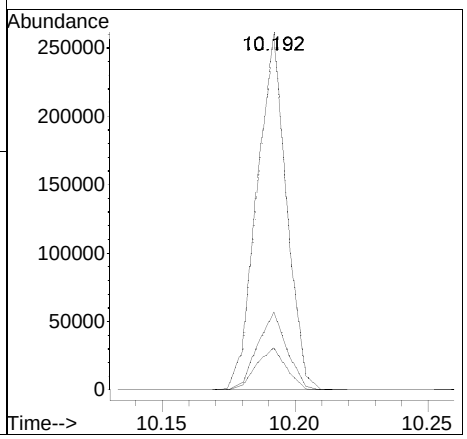


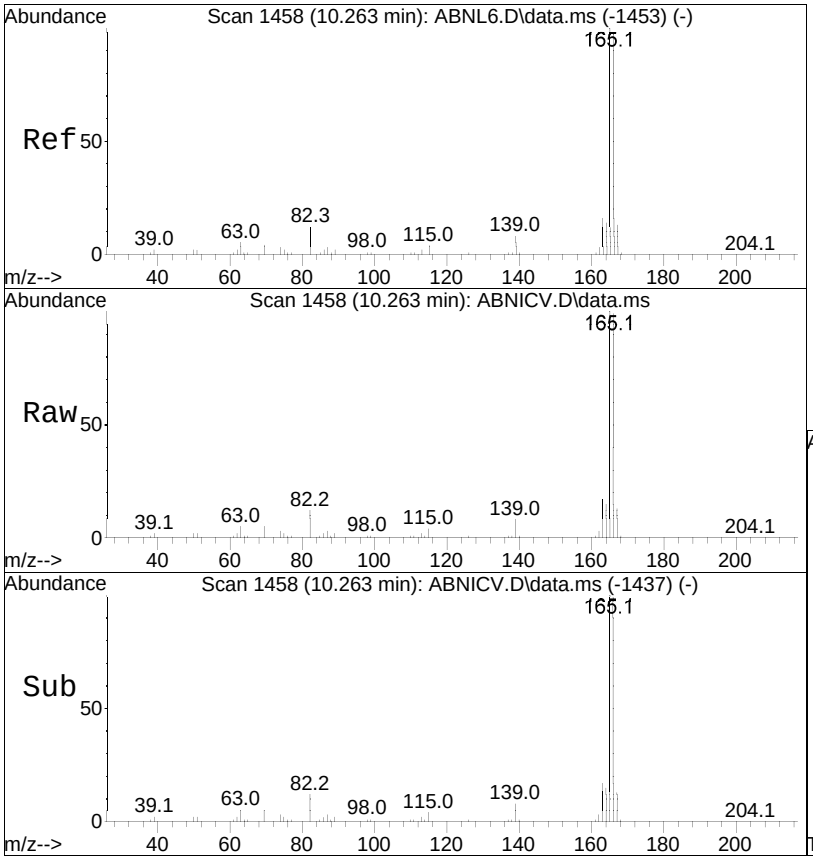


#71
Diethyl phthalate
Concen: 5.50 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 198362

Ion	Ratio	Lower	Upper
149	100		
177	22.0	16.1	24.1
150	12.1	9.4	14.2

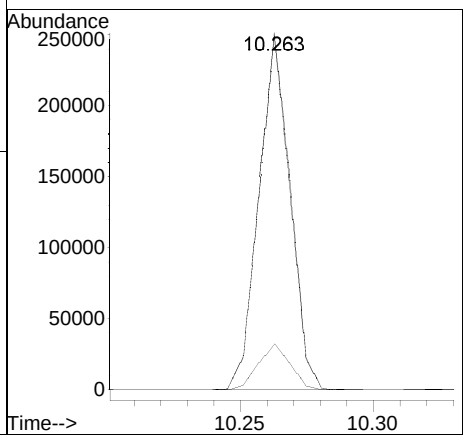


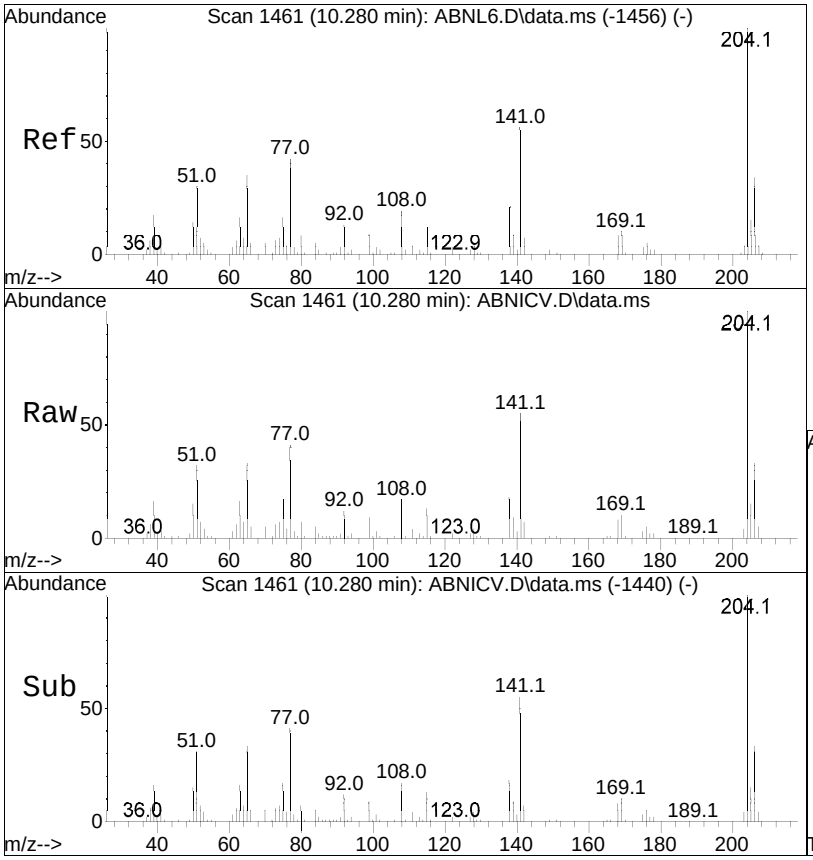


#72
Fluorene
Concen: 5.47 ug/ml
RT: 10.263 min Scan# 1458
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:166 Resp: 201378

Ion	Ratio	Lower	Upper
166	100		
165	102.2	76.2	114.2
167	13.7	10.6	15.8

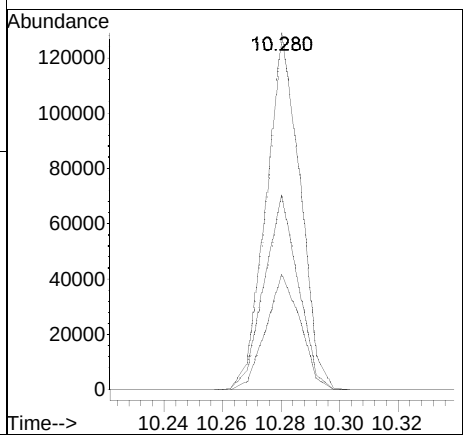


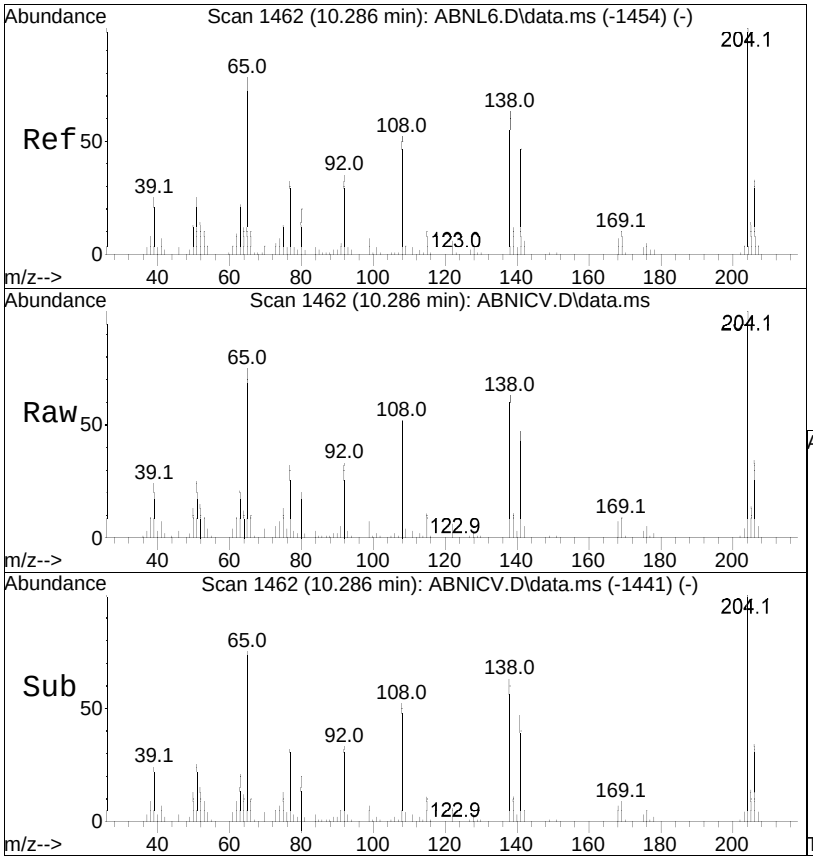


#73
4-Chlorophenyl phenyl ether
Concen: 5.52 ug/ml
RT: 10.280 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:204 Resp: 102835

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	54.9	53.6	80.4

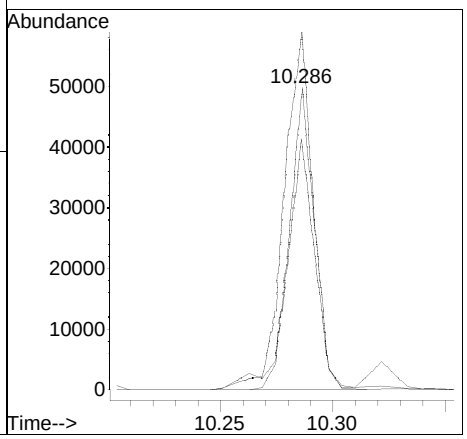


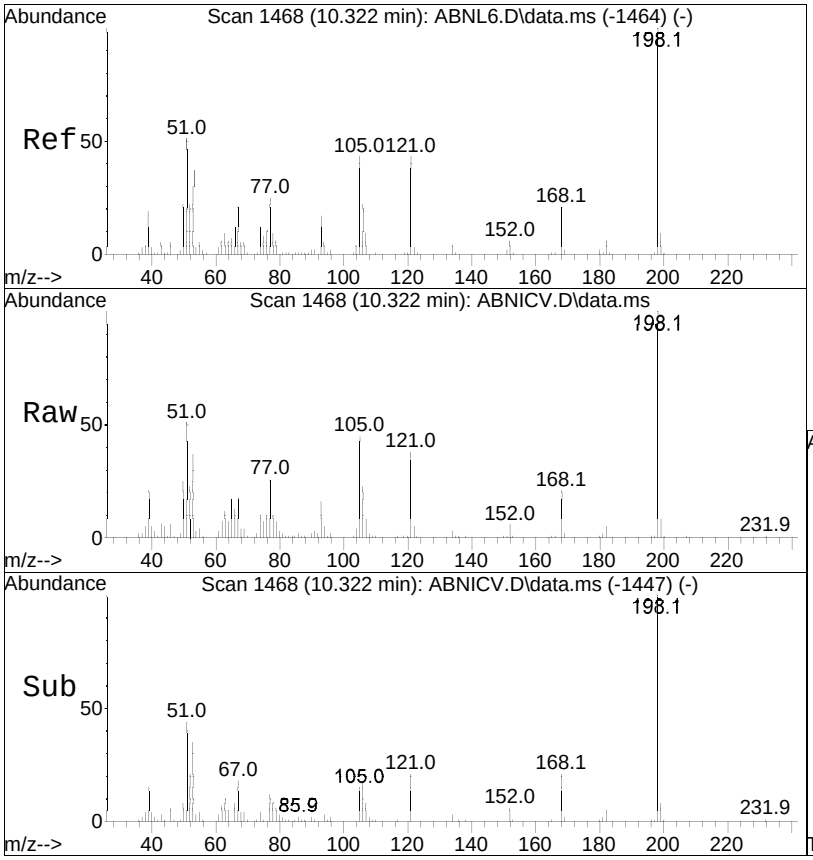


#74
4-Nitroaniline
Concen: 5.57 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 40513

Ion	Ratio	Lower	Upper
138	100		
108	82.3	52.1	78.1#
65	129.8	115.0	172.6

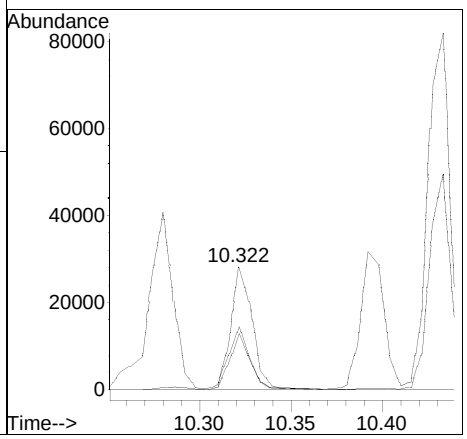


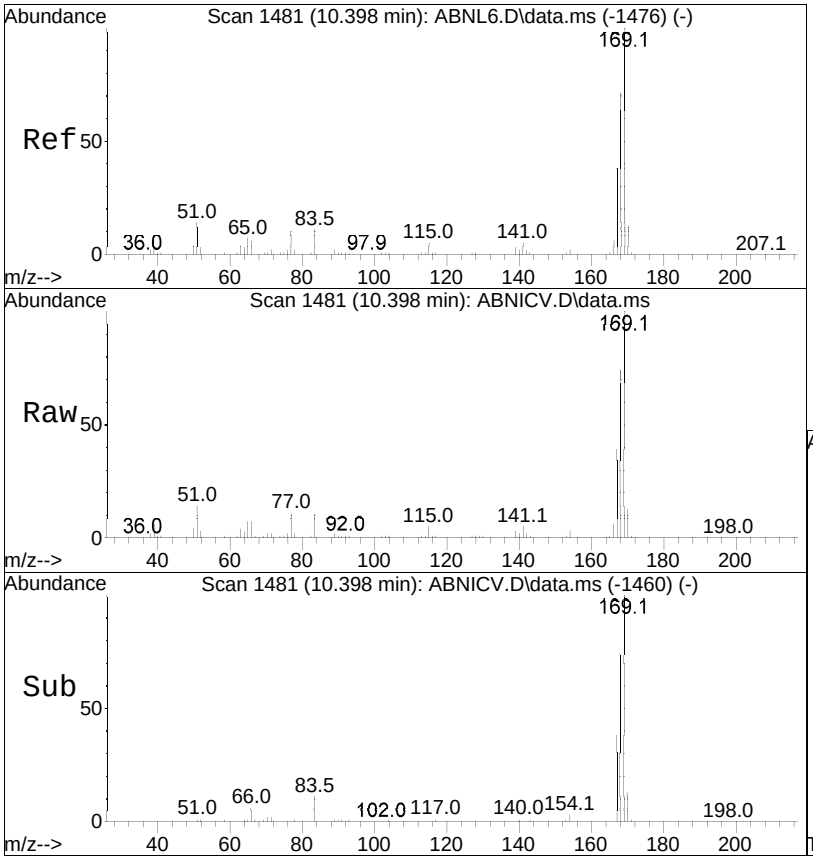


#75
4,6-Dinitro-o-cresol
Concen: 4.23 ug/ml
RT: 10.322 min Scan# 1468
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:198 Resp: 23532

Ion	Ratio	Lower	Upper
198	100		
51	48.4	76.0	114.0#
105	43.6	45.6	68.4#

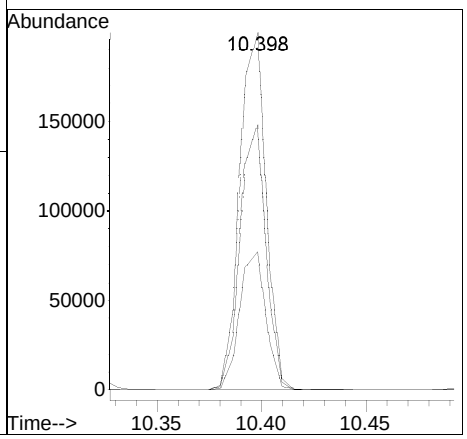


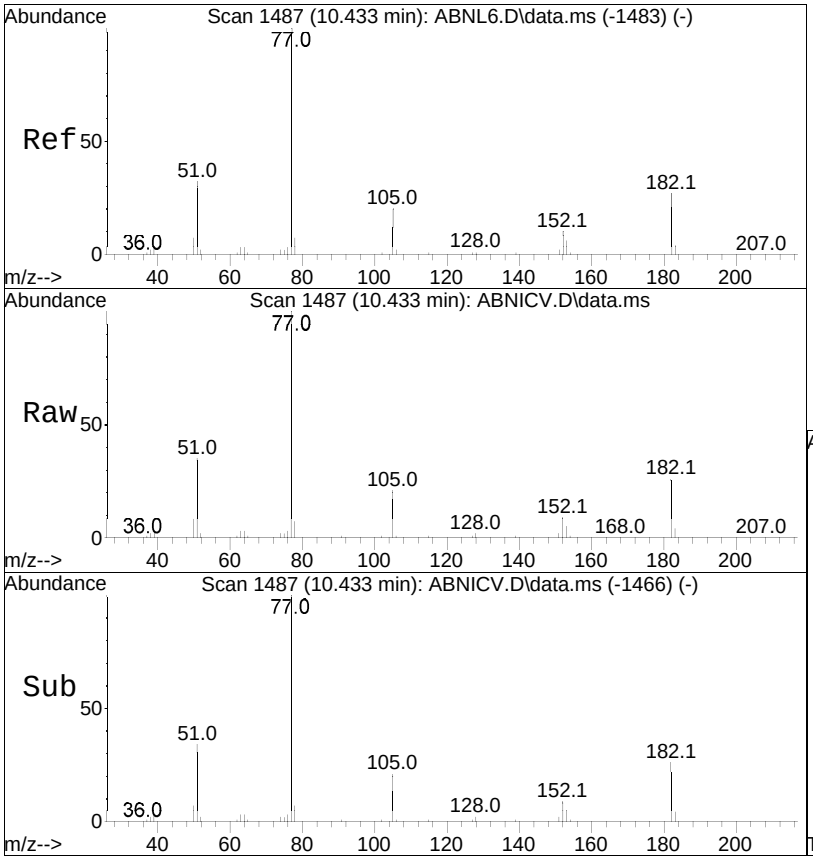


#76
NDPA/DPA
Concen: 5.59 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:169 Resp: 175362

Ion	Ratio	Lower	Upper
169	100		
168	72.6	54.0	81.0
167	38.7	28.6	42.8

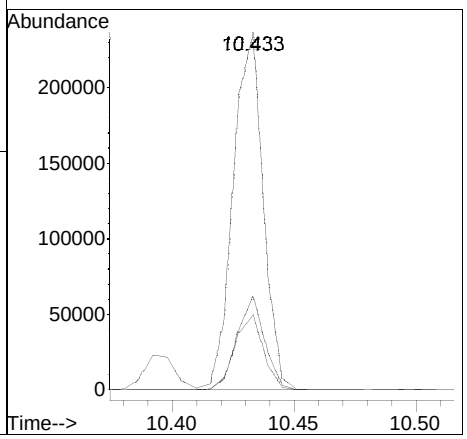


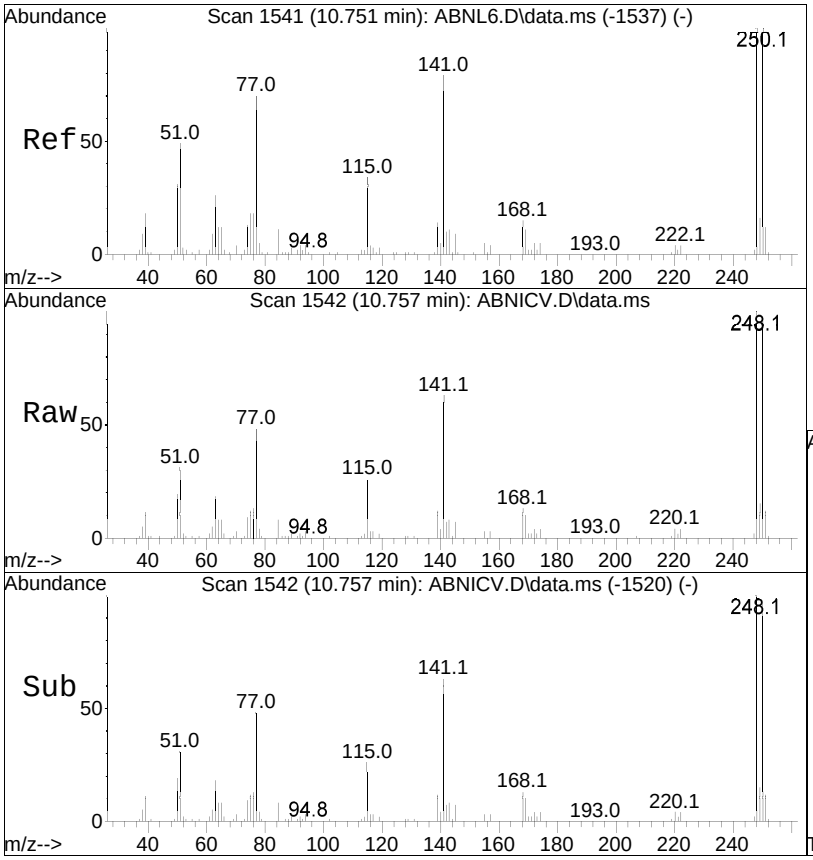


#77
Azobenzene
Concen: 5.72 ug/ml
RT: 10.433 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 199756

Ion	Ratio	Lower	Upper
77	100		
182	24.5	17.4	26.2
105	20.3	15.4	23.2

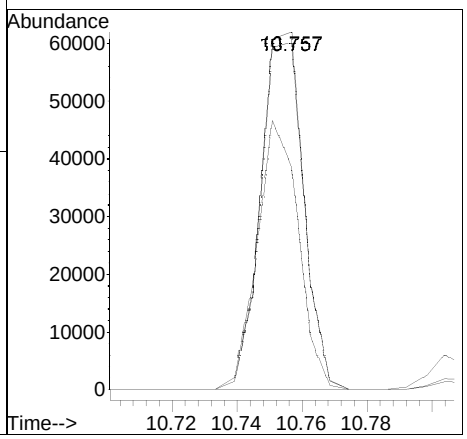


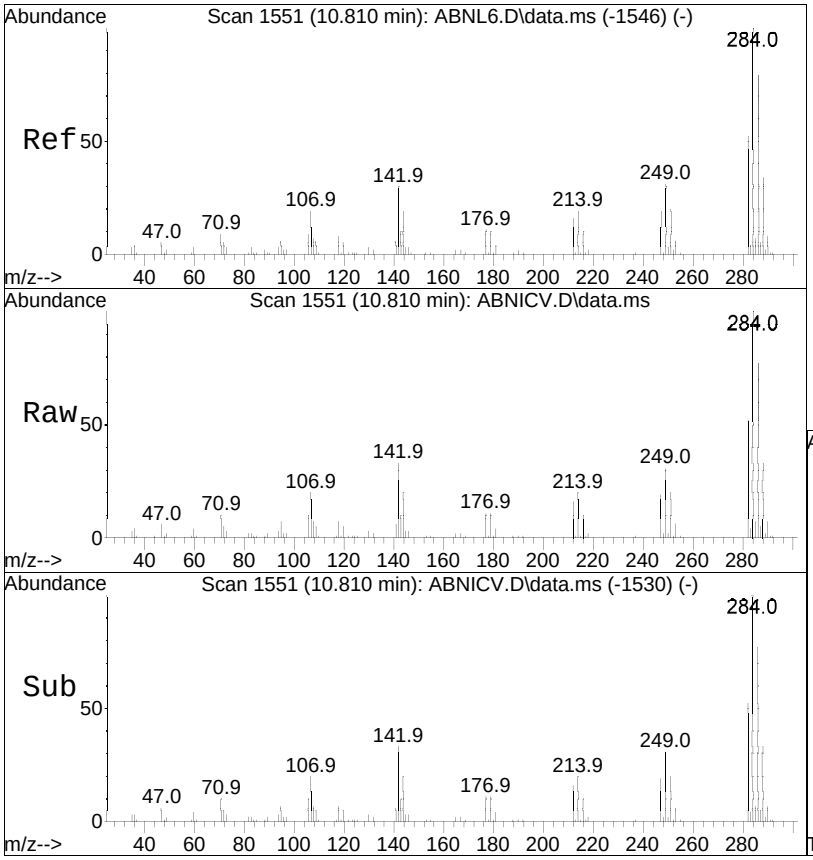


#79
4-Bromophenyl phenyl ether
Concen: 5.43 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:248 Resp: 56638

Ion	Ratio	Lower	Upper
248	100		
141	71.9	76.6	114.8#
250	97.4	77.3	115.9

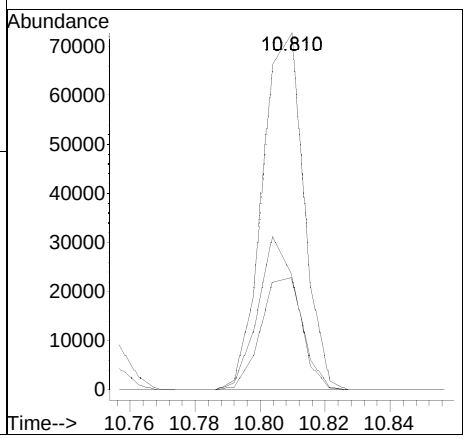


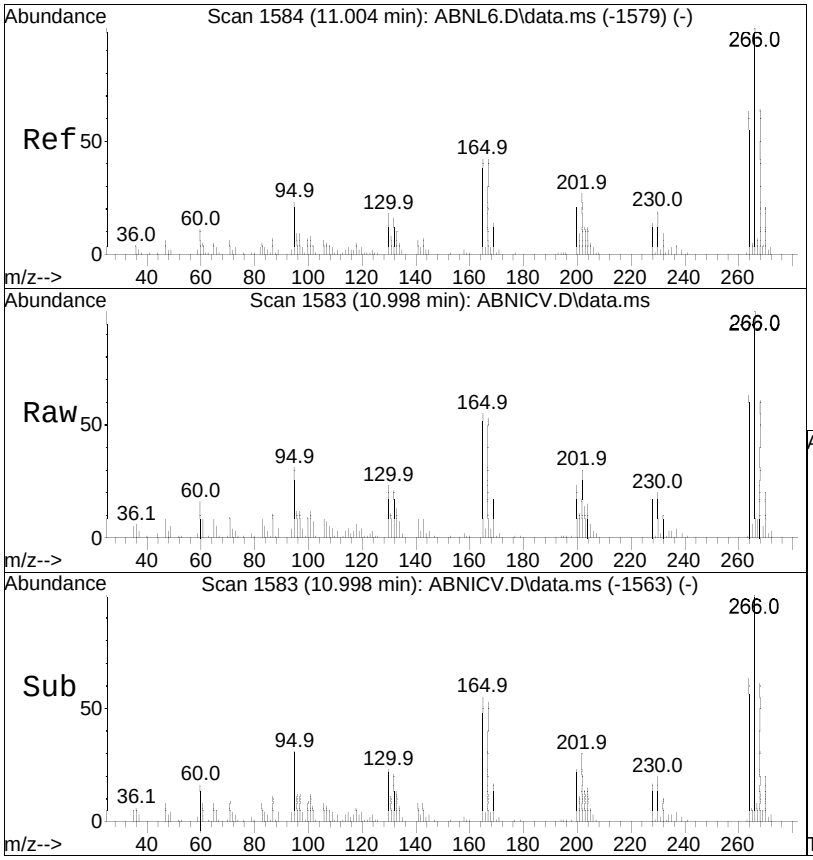


#80
Hexachlorobenzene
Concen: 5.39 ug/ml
RT: 10.810 min Scan# 1551
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:284 Resp: 64431

Ion	Ratio	Lower	Upper
284	100		
142	40.3	41.9	62.9#
249	32.3	24.1	36.1

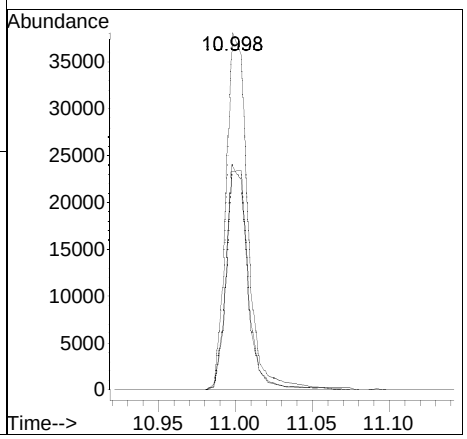


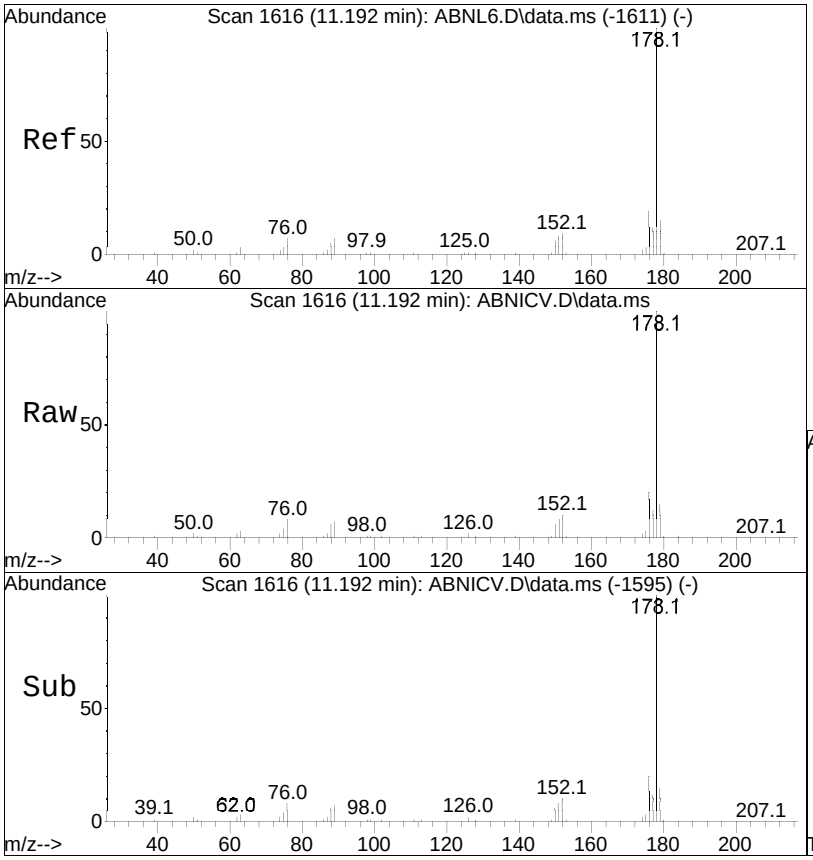


#81
Pentachlorophenol
Concen: 5.36 ug/ml
RT: 10.998 min Scan# 1583
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:266 Resp: 37359

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.7	74.5
268	62.8	50.5	75.7

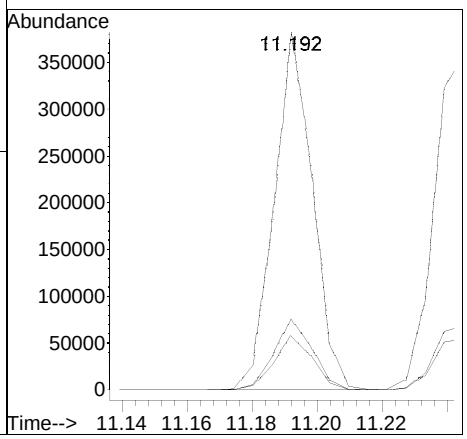


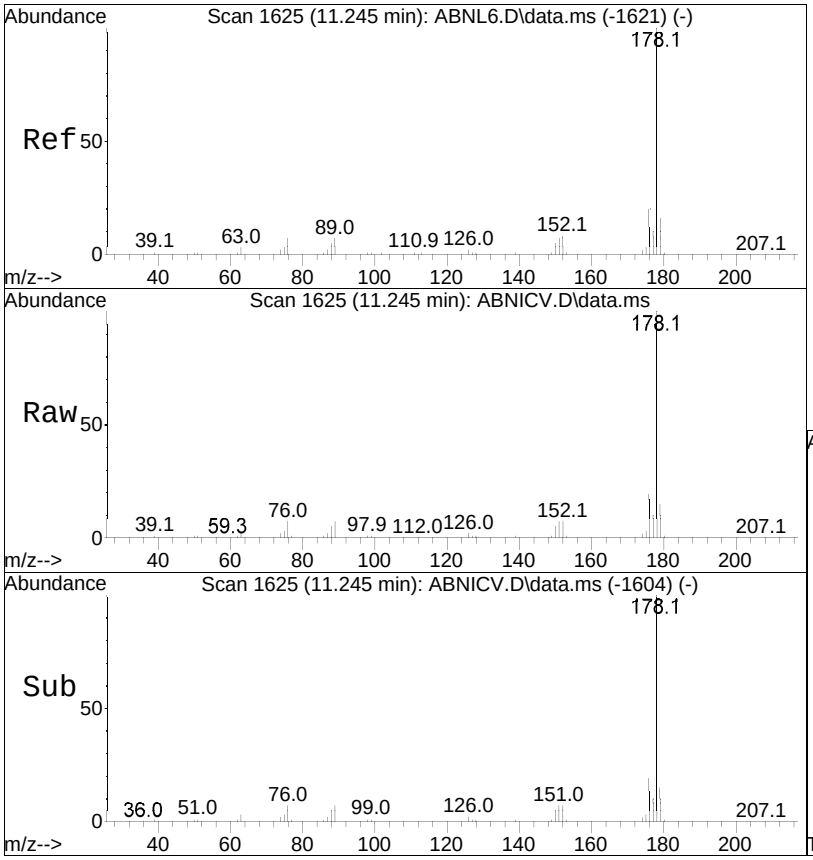


#88
Phenanthrene
Concen: 5.28 ug/ml
RT: 11.192 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 311941

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.8	15.4	23.2

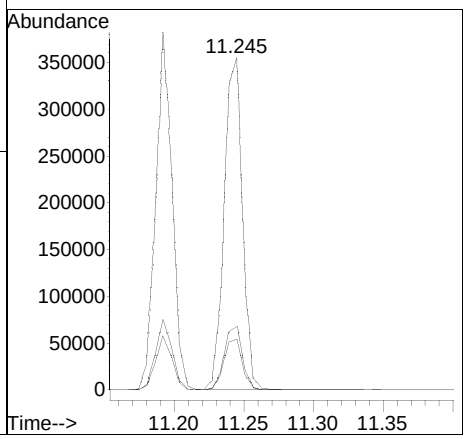


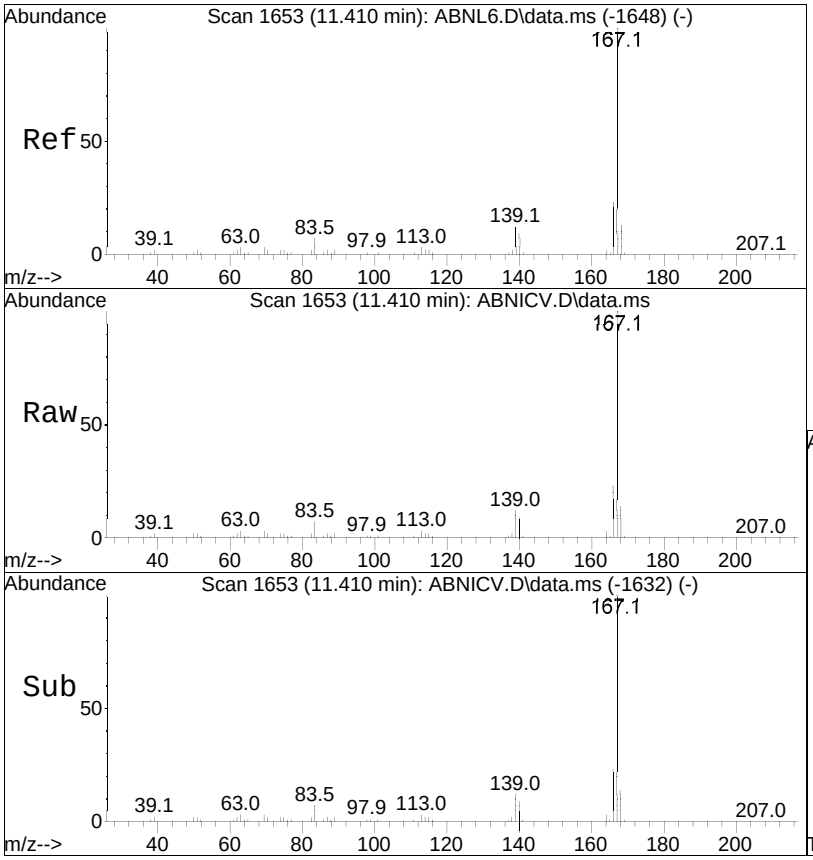


#89
Anthracene
Concen: 5.52 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 323617

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	19.2	14.6	22.0

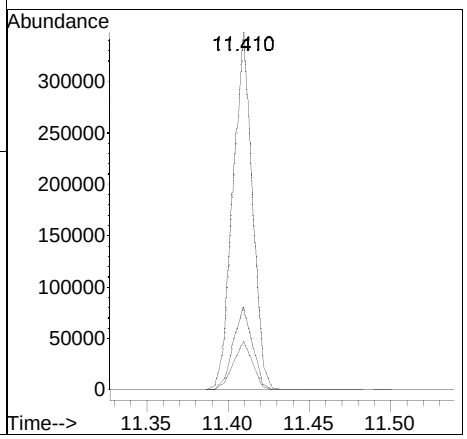


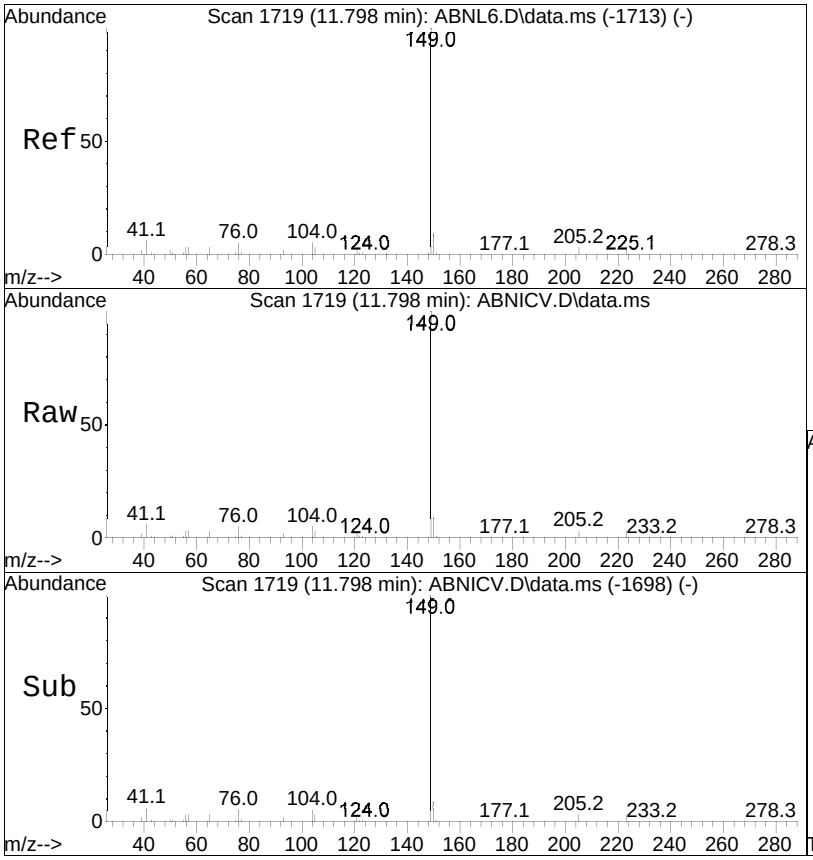


#90
Carbazole
Concen: 5.45 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:167 Resp: 287846

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.0	17.4	26.0

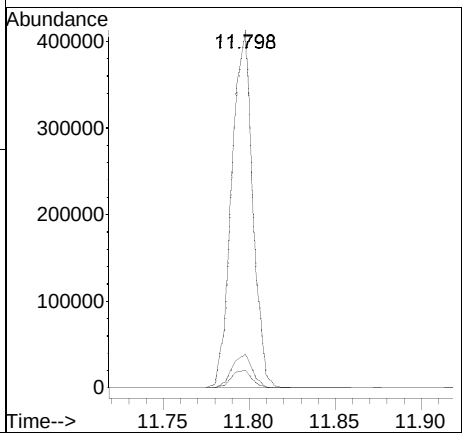


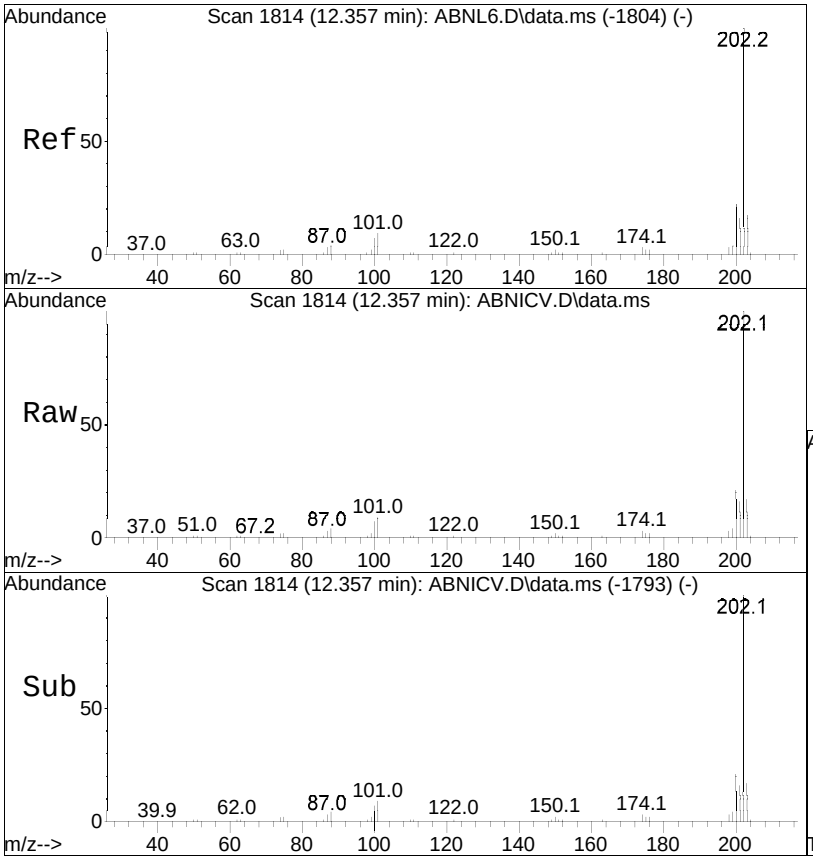


#91
Di-n-butylphthalate
Concen: 5.55 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 343566

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.0	4.5	6.7

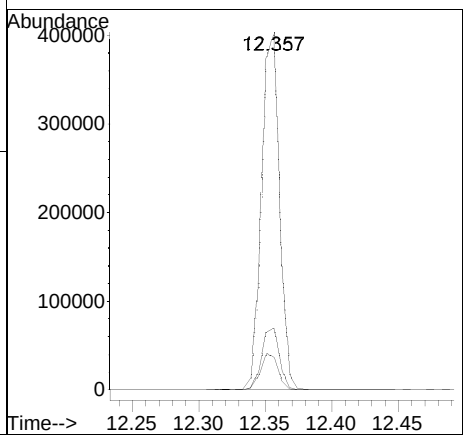


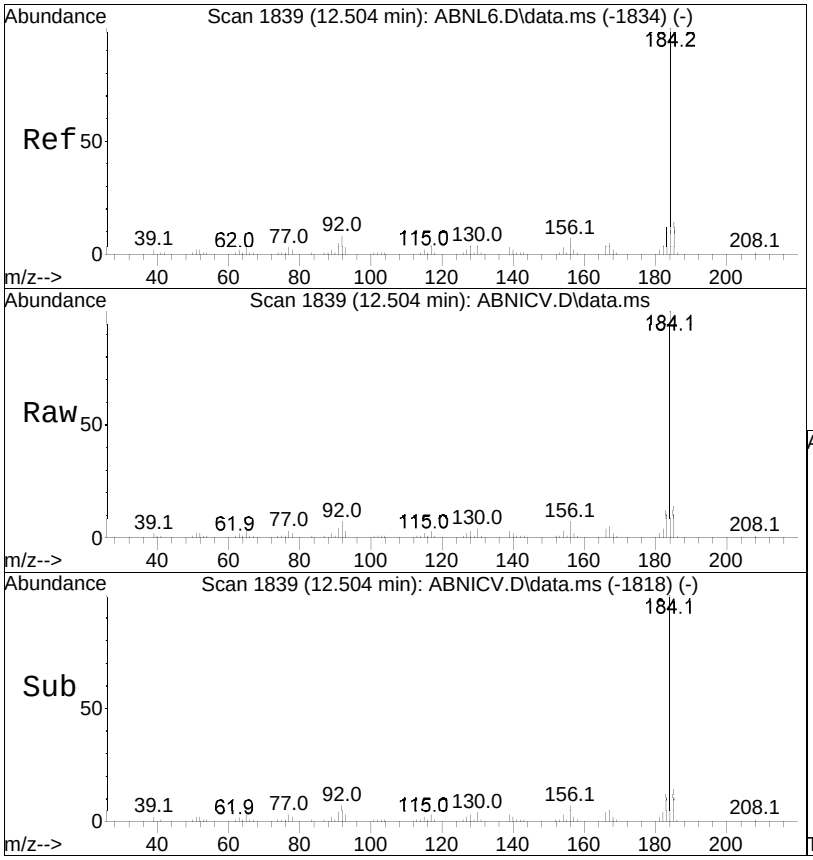


#92
Fluoranthene
Concen: 5.51 ug/ml
RT: 12.357 min Scan# 1814
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 371982

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.4	13.6	20.4

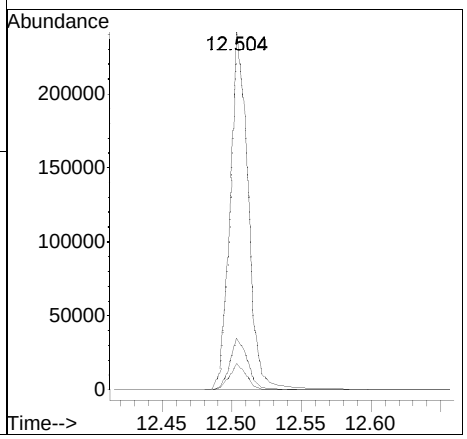


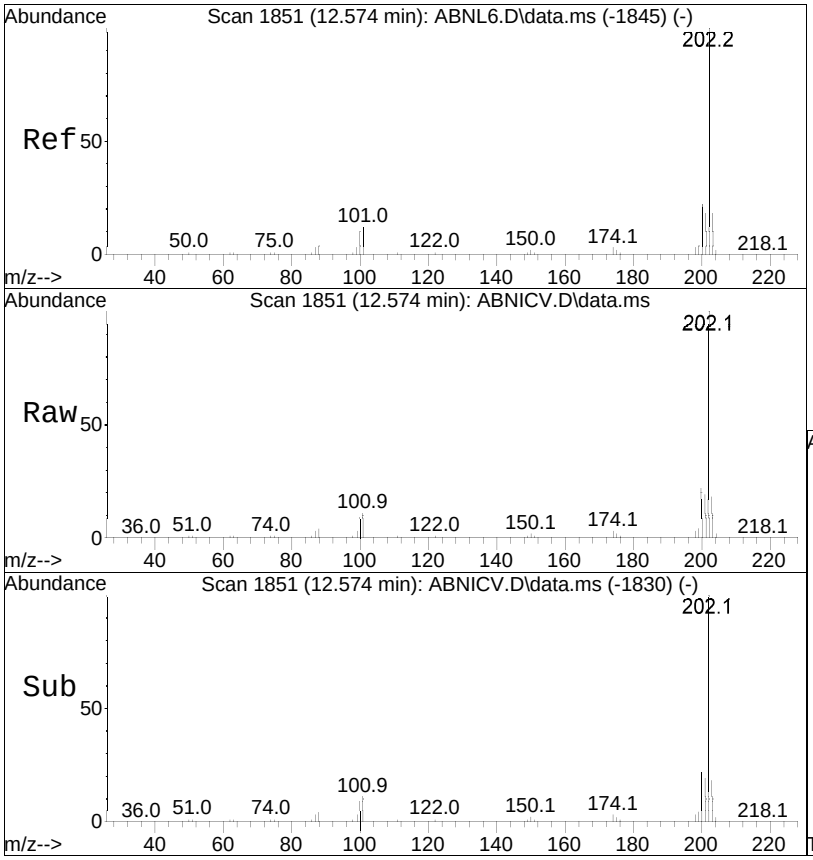


#93
Benzidine
Concen: 5.23 ug/ml
RT: 12.504 min Scan# 1839
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 214564

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	14.5	11.1	16.7

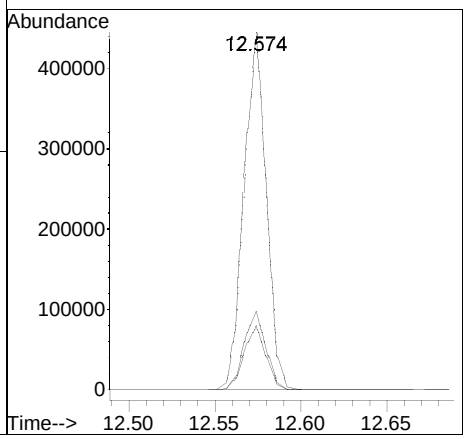


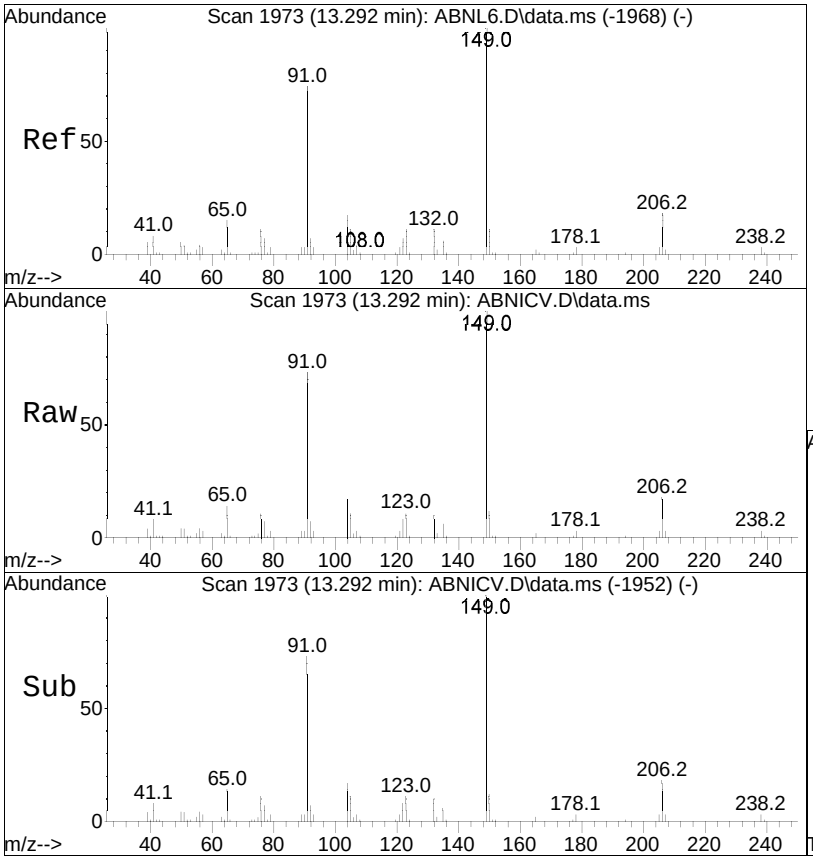


#94
Pyrene
Concen: 5.49 ug/ml
RT: 12.574 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 396732

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	17.6	14.2	21.4

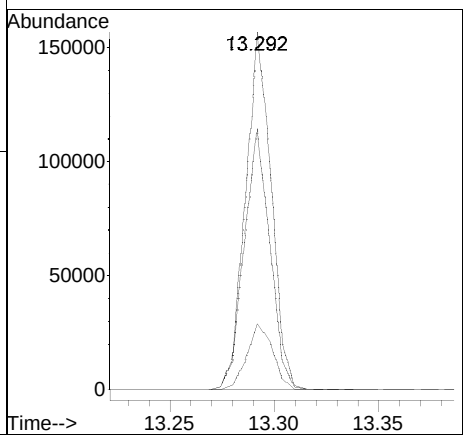


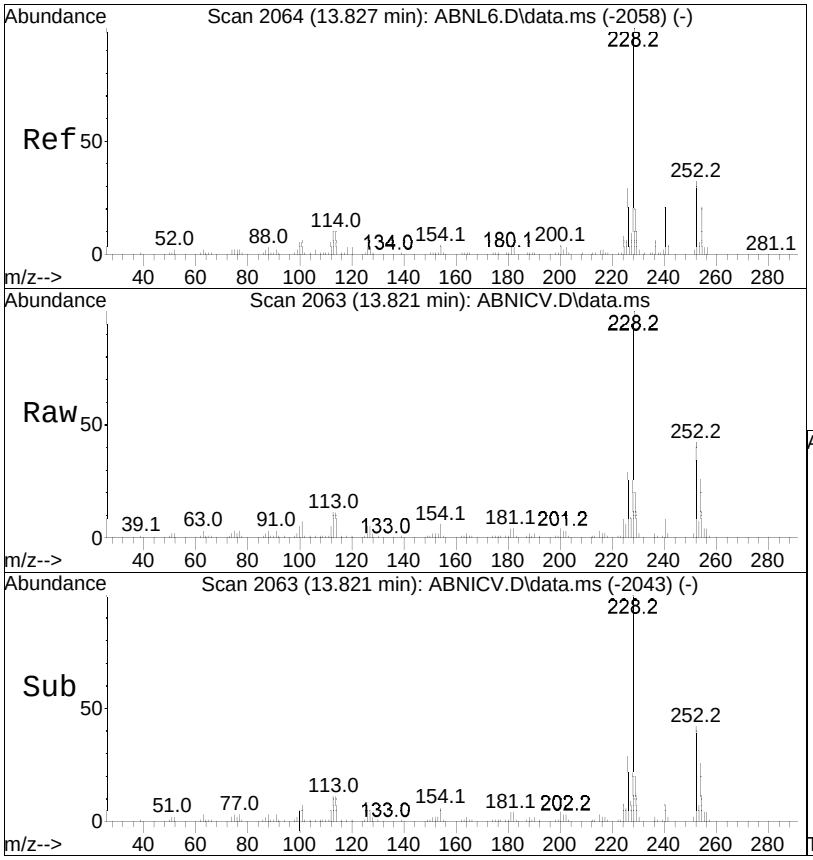


#96
Butyl benzyl phthalate
Concen: 4.56 ug/ml
RT: 13.292 min Scan# 1973
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 132785

Ion	Ratio	Lower	Upper
149	100		
91	73.3	63.3	94.9
206	18.7	13.9	20.9

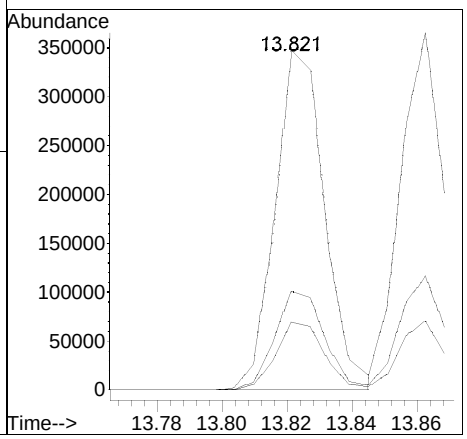


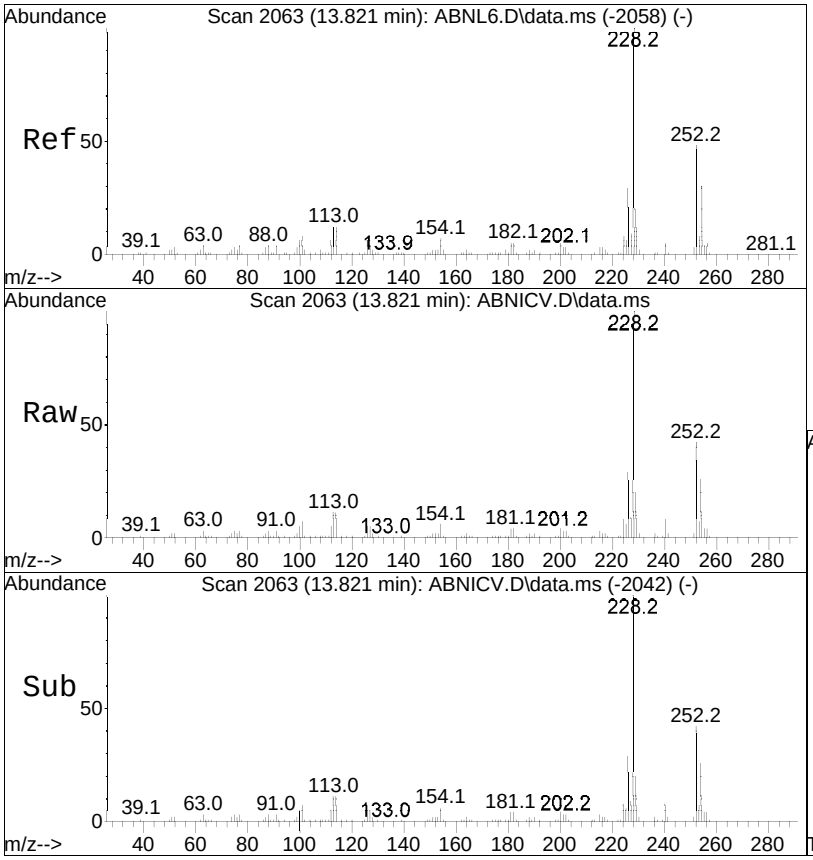


#104
Benzo(a)anthracene
Concen: 5.46 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 366917

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	19.8	15.6	23.4

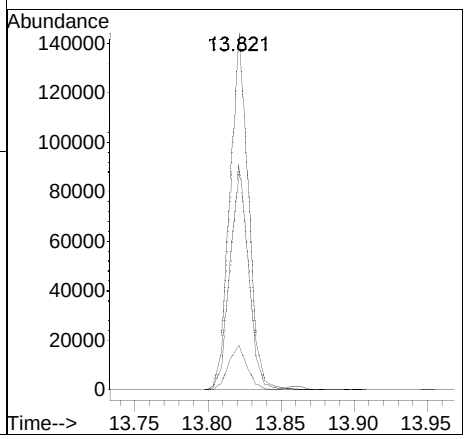


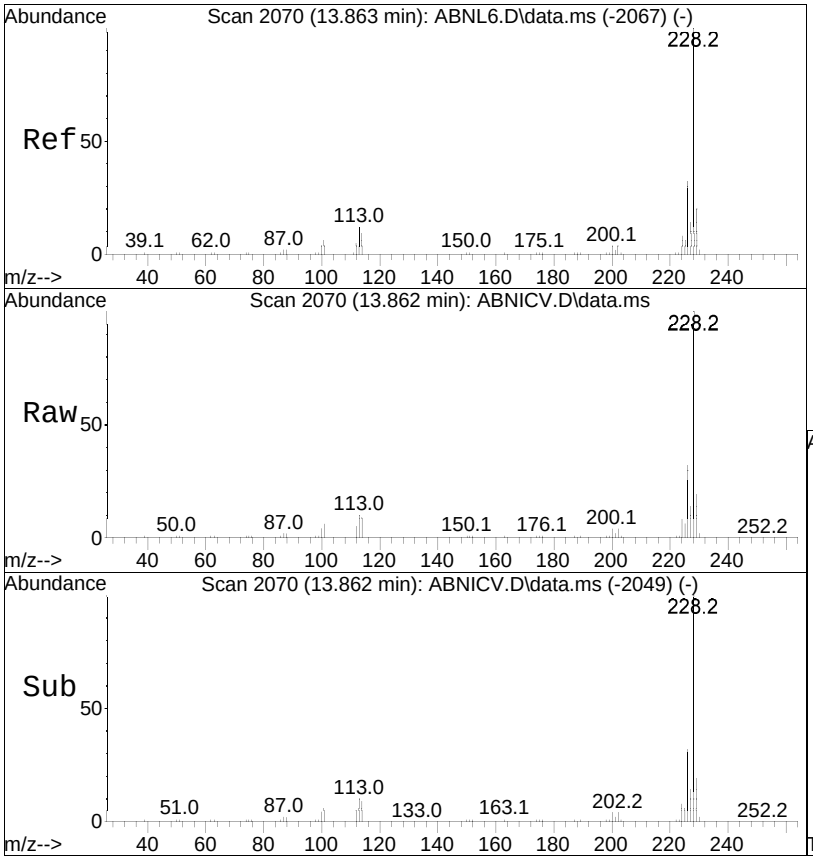


#105
3,3'-Dichlorobenzidine
Concen: 5.81 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 125706

Ion	Ratio	Lower	Upper
252	100		
126	13.0	14.5	21.7#
254	63.1	51.2	76.8

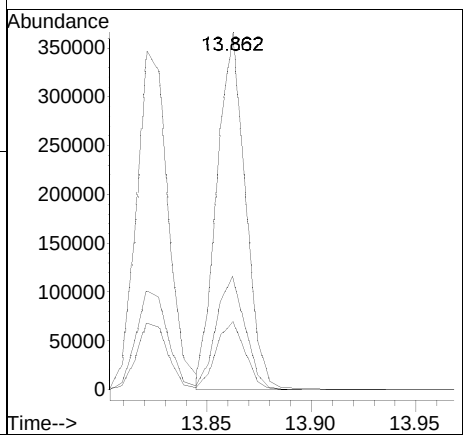


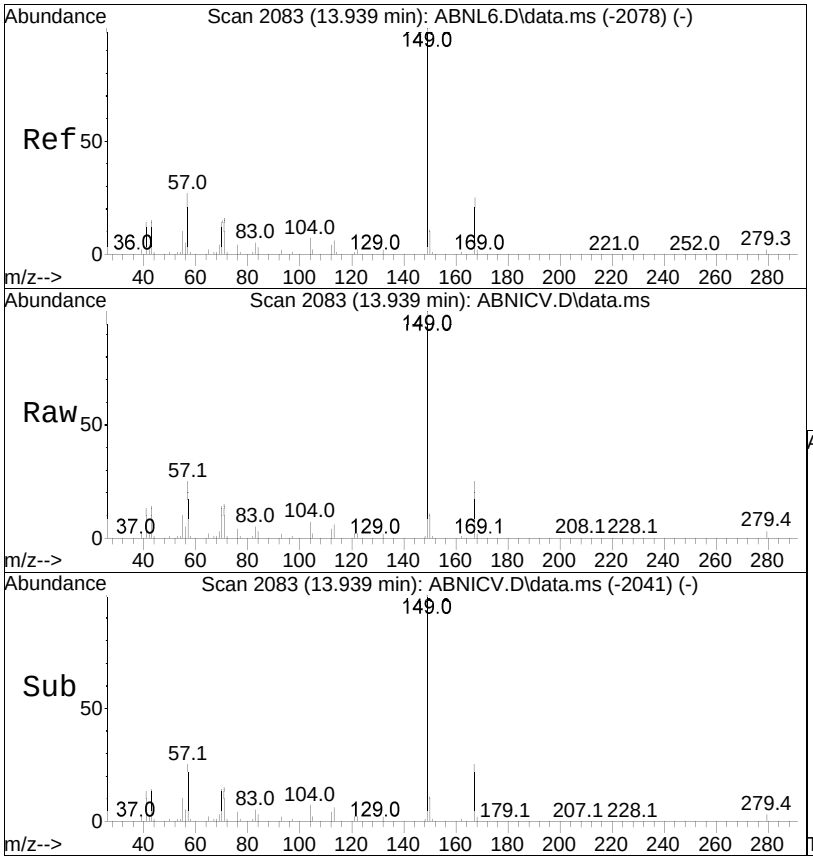


#106
Chrysene
Concen: 5.42 ug/ml
RT: 13.862 min Scan# 2070
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 347792

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	19.5	15.8	23.8

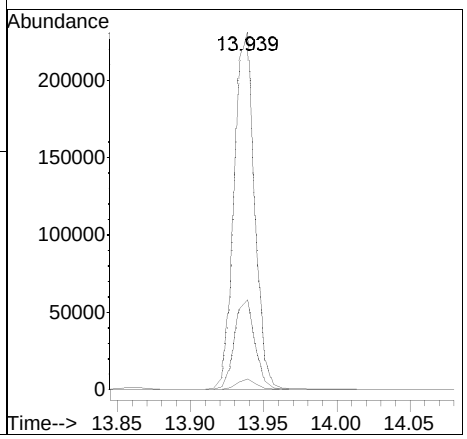


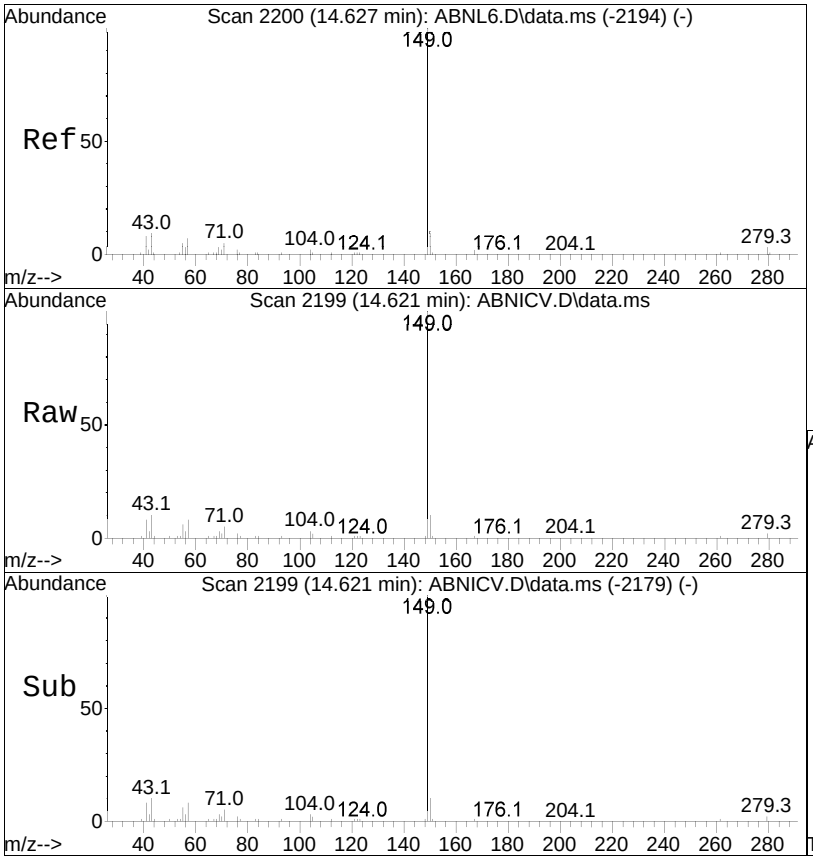


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.14 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 222853

Ion	Ratio	Lower	Upper
149	100		
167	25.1	22.1	33.1
279	2.5	3.0	4.4#

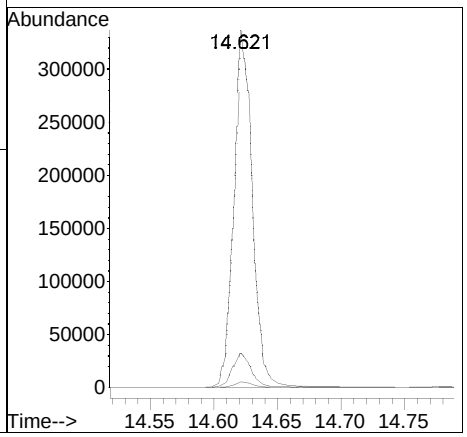


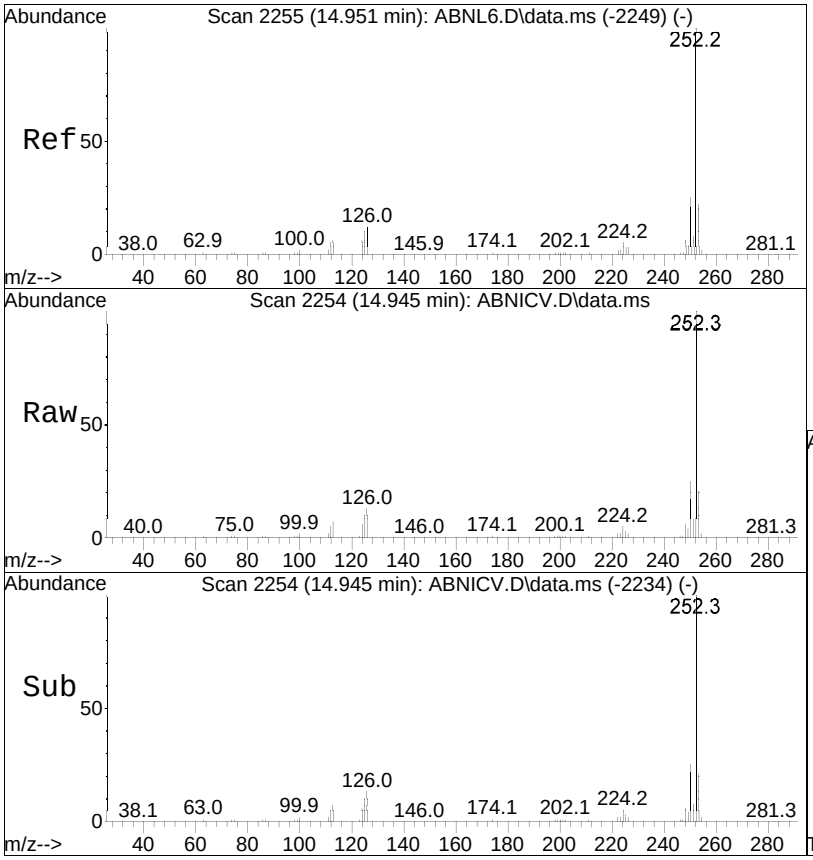


#108
Di-n-octylphthalate
Concen: 4.74 ug/ml
RT: 14.621 min Scan# 2199
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 332901

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.4	1.3	1.9

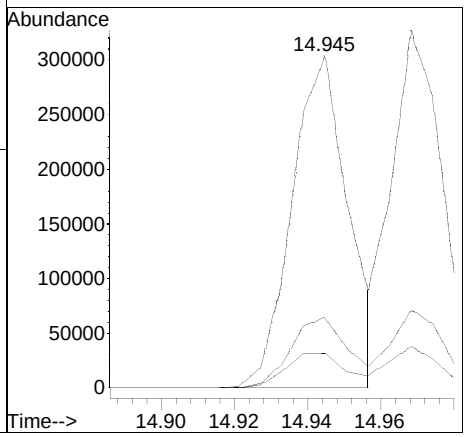


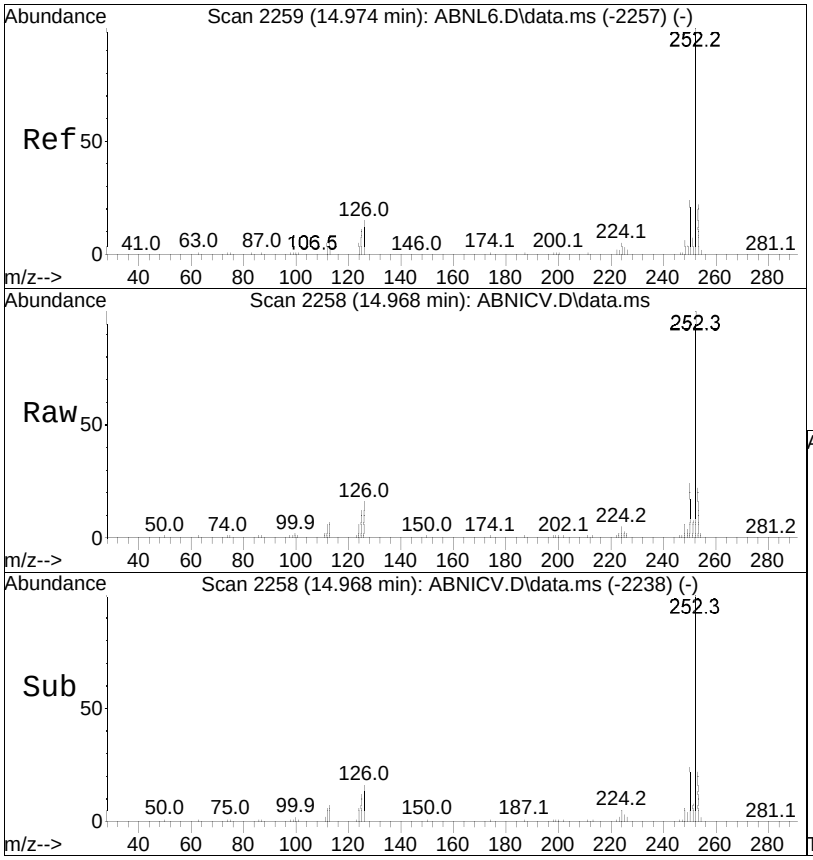


#109
Benzo(b)fluoranthene
Concen: 5.54 ug/ml
RT: 14.945 min Scan# 2254
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 328567

Ion	Ratio	Lower	Upper
252	100		
125	11.4	13.3	19.9#
253	21.8	17.1	25.7

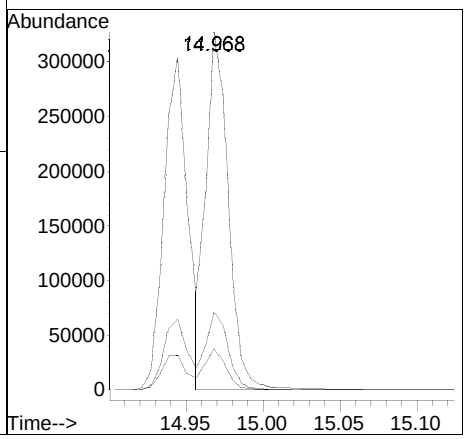


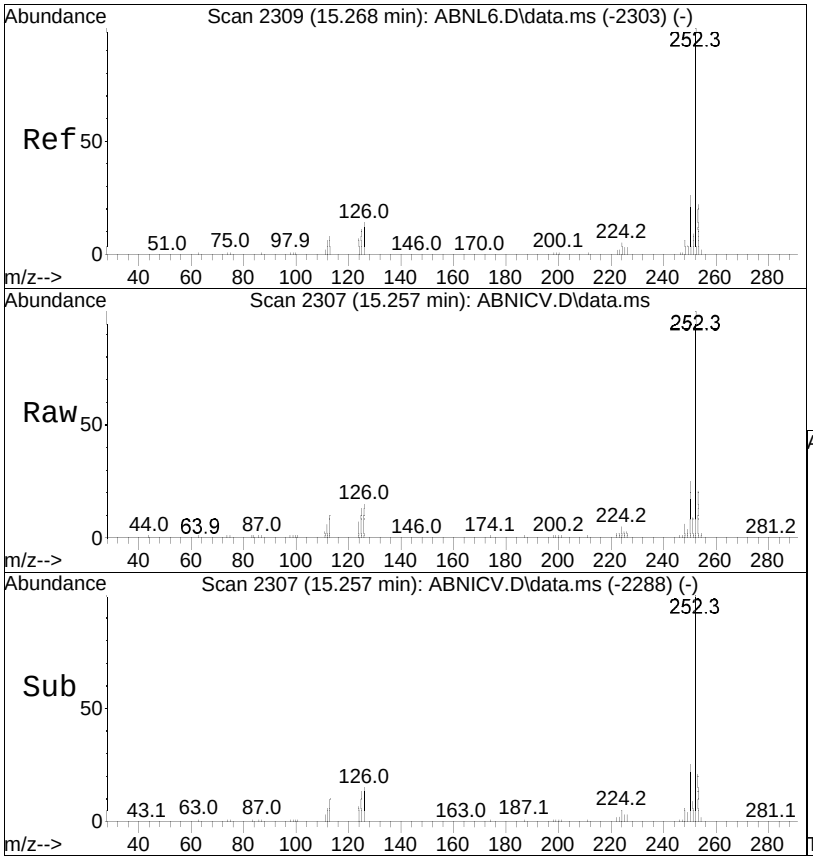


#110
Benzo(k)fluoranthene
Concen: 5.63 ug/ml
RT: 14.968 min Scan# 2258
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 326553

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	22.0	16.8	25.2

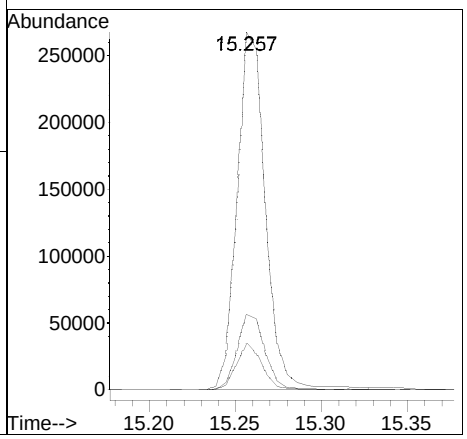


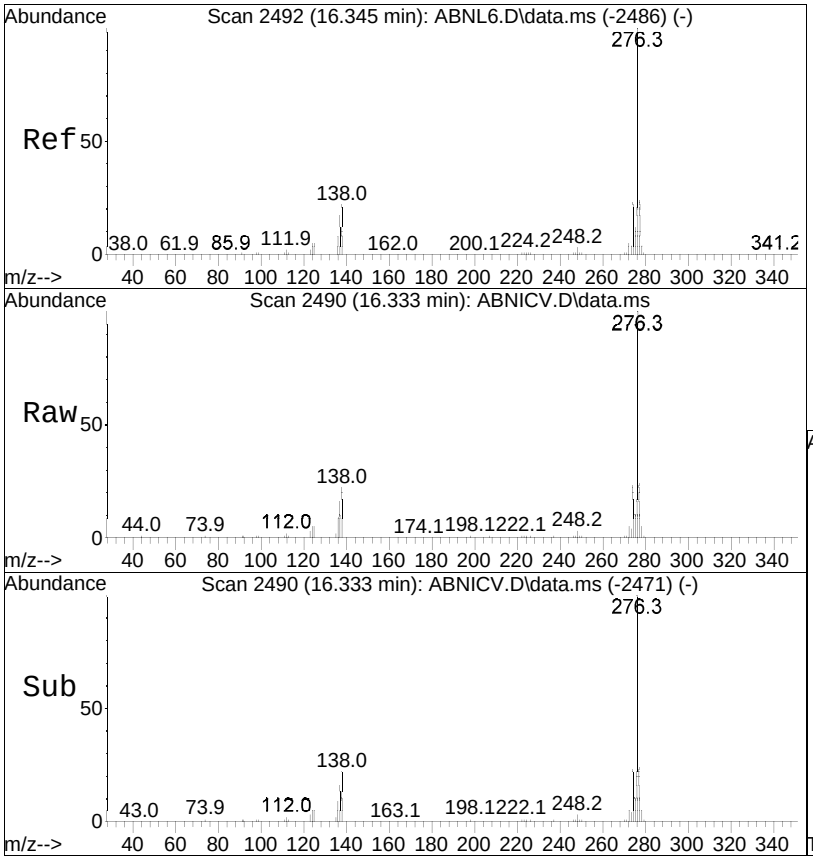


#111
Benzo(a)pyrene
Concen: 5.92 ug/ml
RT: 15.257 min Scan# 2307
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 305124

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	20.9	16.9	25.3

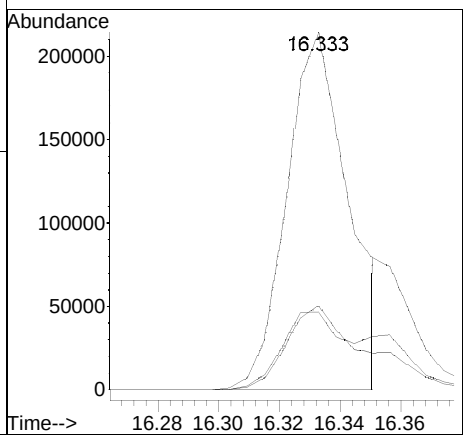


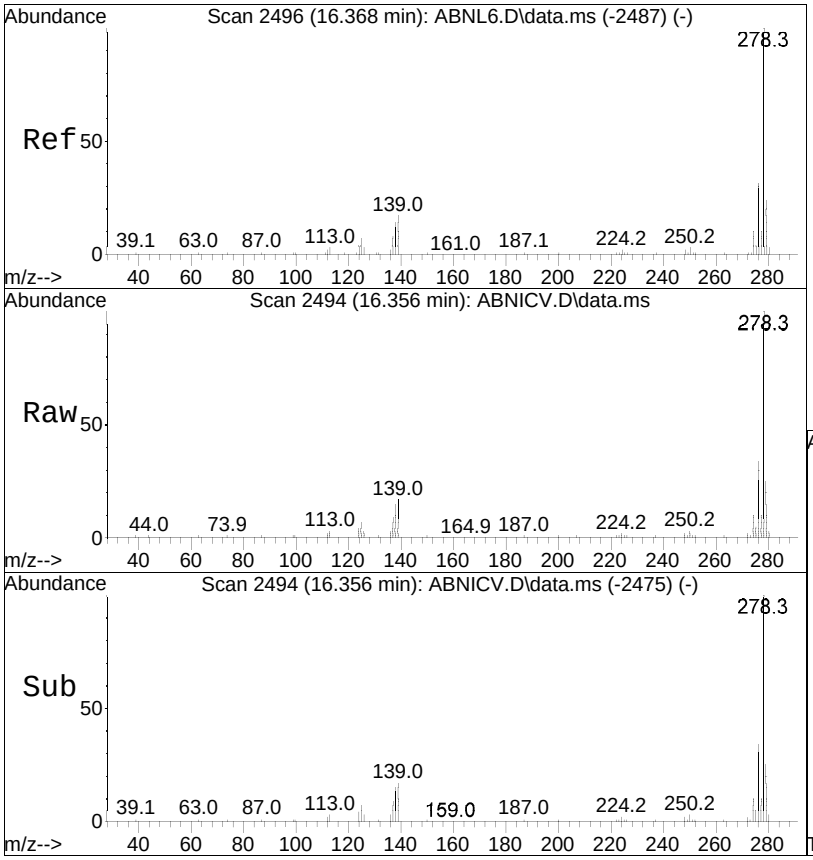


#113
Indeno(1,2,3-cd)pyrene
Concen: 6.28 ug/mL M6
RT: 16.333 min Scan# 2490
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 303147

Ion	Ratio	Lower	Upper
276	100		
138	34.9	25.1	37.7
277	30.8	18.6	28.0#

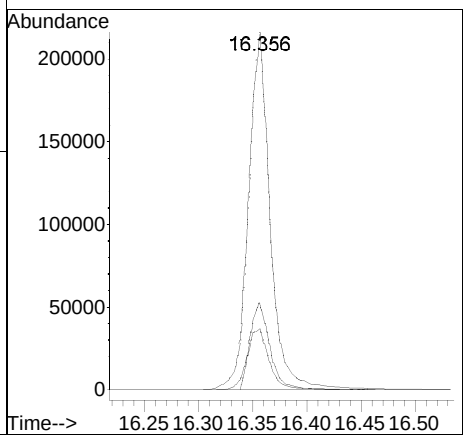


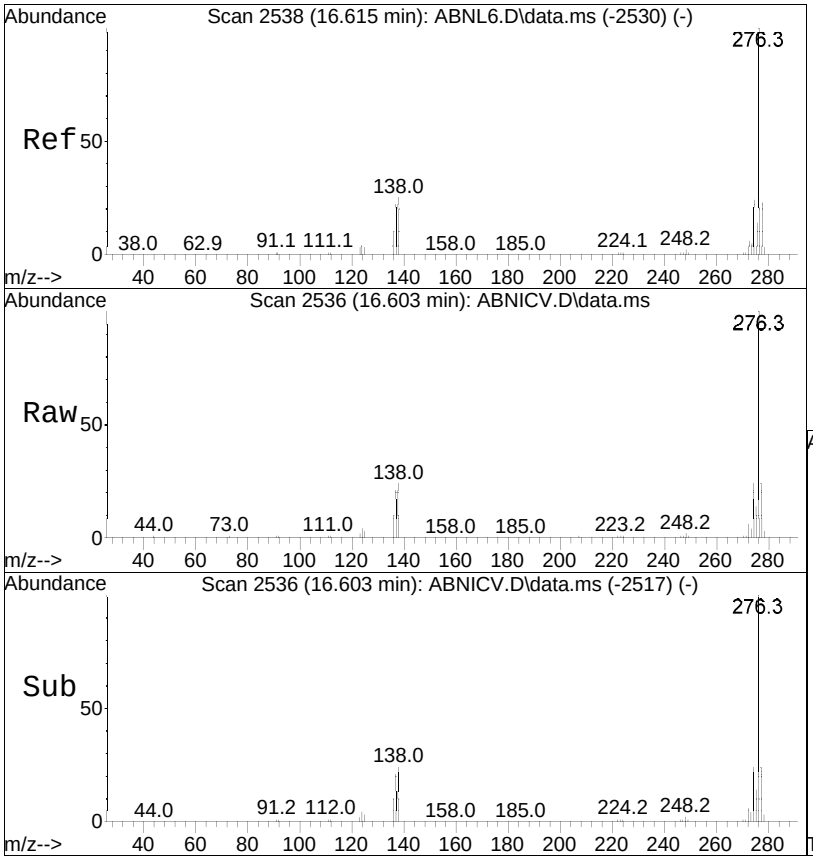


#114
Dibenzo(a,h)anthracene
Concen: 6.18 ug/ml
RT: 16.356 min Scan# 2494
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:278 Resp: 298480

Ion	Ratio	Lower	Upper
278	100		
139	16.6	20.8	31.2#
279	23.8	18.3	27.5

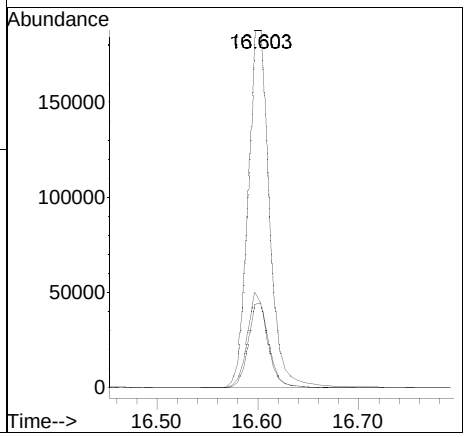




#115
Benzo(ghi)perylene
Concen: 5.79 ug/ml
RT: 16.603 min Scan# 2536
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 272174

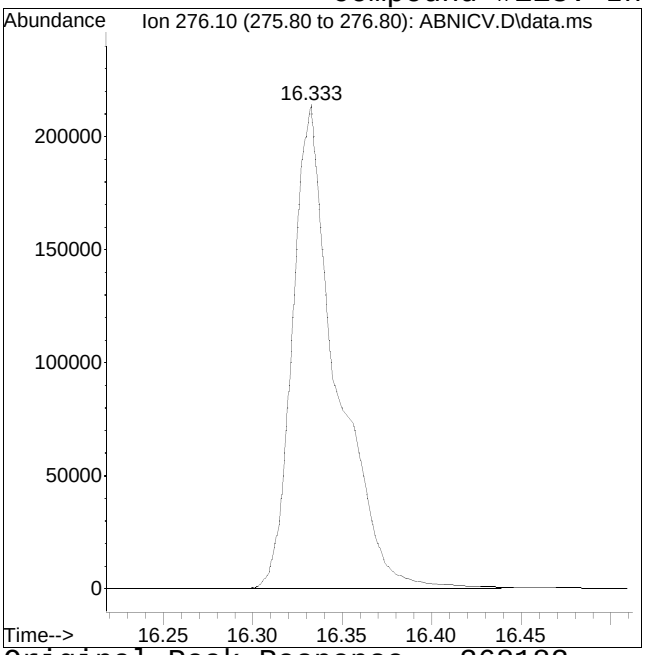
Ion	Ratio	Lower	Upper
276	100		
138	25.4	29.2	43.8#
277	23.6	18.8	28.2



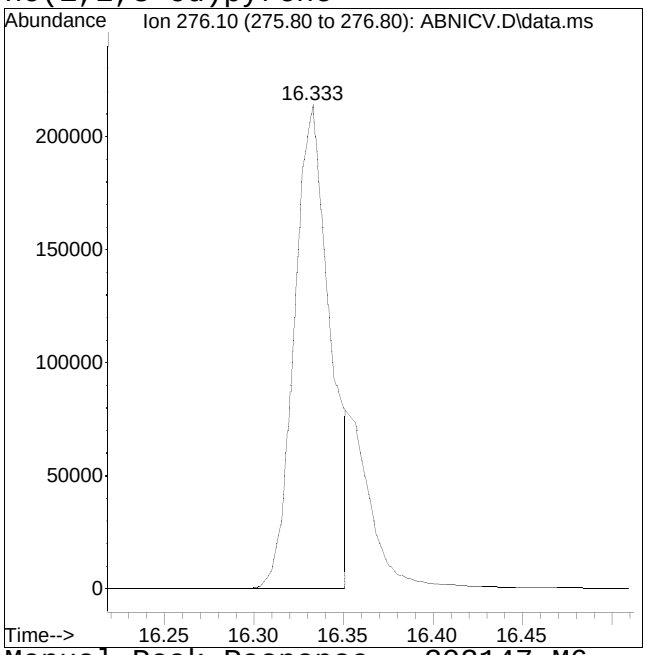
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNICV.D Operator : SV107:jg
Date Inj'd : 6/3/2024 3:14 am Instrument : SV107
Sample : CQICV1,32,,ABNICV Lot# 106Quant Date : 6/3/2024 4:29 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 368182



Manual Peak Response = 303147 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	110	0.00
28	T	Benzaldehyde		1.024	0.995	2.8	114	0.00
29	T	Acetophenone		1.770	1.747	1.3	113	0.00
30	T	m-Toluidine		1.599	1.705	-6.6	114	0.00
31	T	2-Chloroaniline		1.546	1.533	0.8	112	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	104	0.00
55	T	a-Terpineol		0.276	0.276	0.0	111	0.00
56	T	3-Chloroaniline		0.147	0.150	-2.0	112	0.00
57	T	2,6-Dichlorophenol		0.290	0.299	-3.1	111	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.125	-3.3	117	0.00
59	T	Caprolactam		0.149	0.146	2.0	107	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.394	2.0	111	0.00
61	T	Biphenyl		0.929	0.909	2.2	111	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
83	T	Dichloran	*	5.000	4.676	6.5	120	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.804	3.9	116	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
98	T	Diphenamid		0.445	0.474	-6.5	114	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	48775	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 109.84%				
54) IS2_Naphthalene-d8	7.957	136	176755	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 104.23%				
82) IS2_Acenaphthene-d10	9.728	164	108771	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 108.94%				
97) IS2_Phenanthrene-d10	11.169	188	224732	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 104.55%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	60668	4.860	ug/ml		98
29) Acetophenone	7.022	105	106516	4.935	ug/ml	#	83
30) m-Toluidine	7.122	106	103936	5.330	ug/ml		94
31) 2-Chloroaniline	7.528	127	93473	4.957	ug/ml	#	93
55) a-Terpineol	8.022	59	60976	4.992	ug/ml	#	78
56) 3-Chloroaniline	8.034	65	33250	5.106	ug/ml		88
57) 2,6-Dichlorophenol	8.063	162	66015	5.153	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.334	111	27611	5.157	ug/ml	#	1
59) Caprolactam	8.369	55	32169	4.882	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.869	216	87005	4.897	ug/ml		96
61) Biphenyl	9.175	154	200775	4.891	ug/ml		100
83) Dichloran	10.863	206	16902	4.676	ug/ml	#	75
84) Pentachloronitrobenzene	11.016	237	19356	4.804	ug/ml	#	84
98) Diphenamid	12.074	167	133073	5.323	ug/ml		82

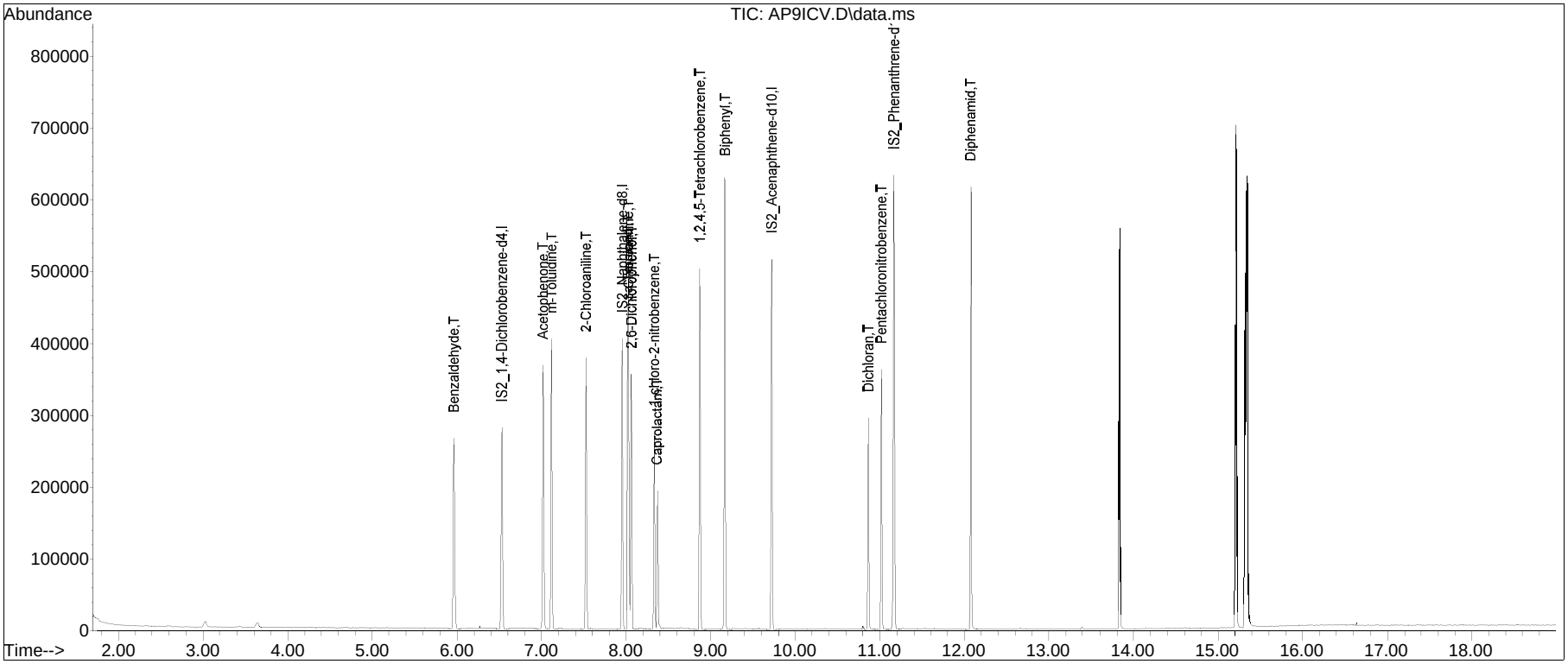
(#) = qualifier out of range (m) = manual integration (+) = signals summed

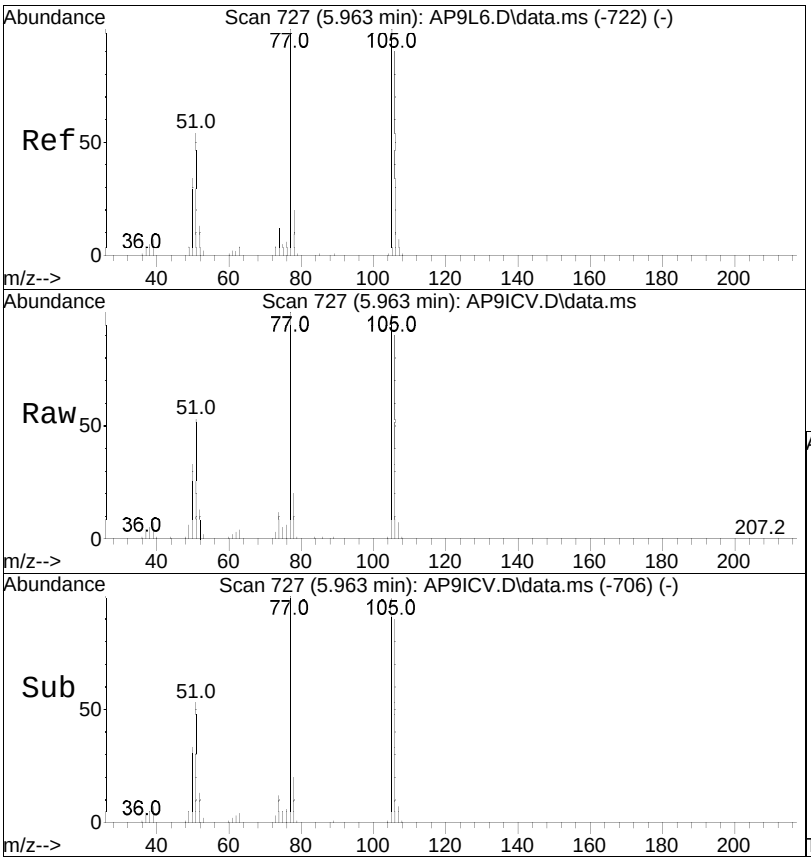
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

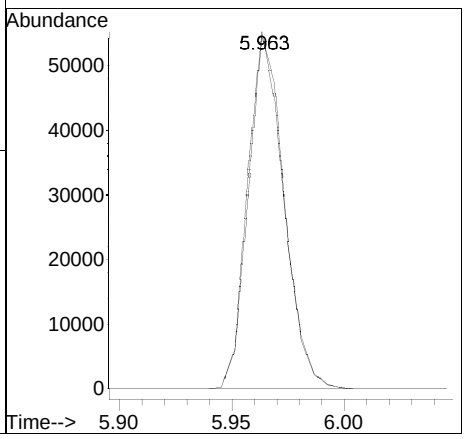


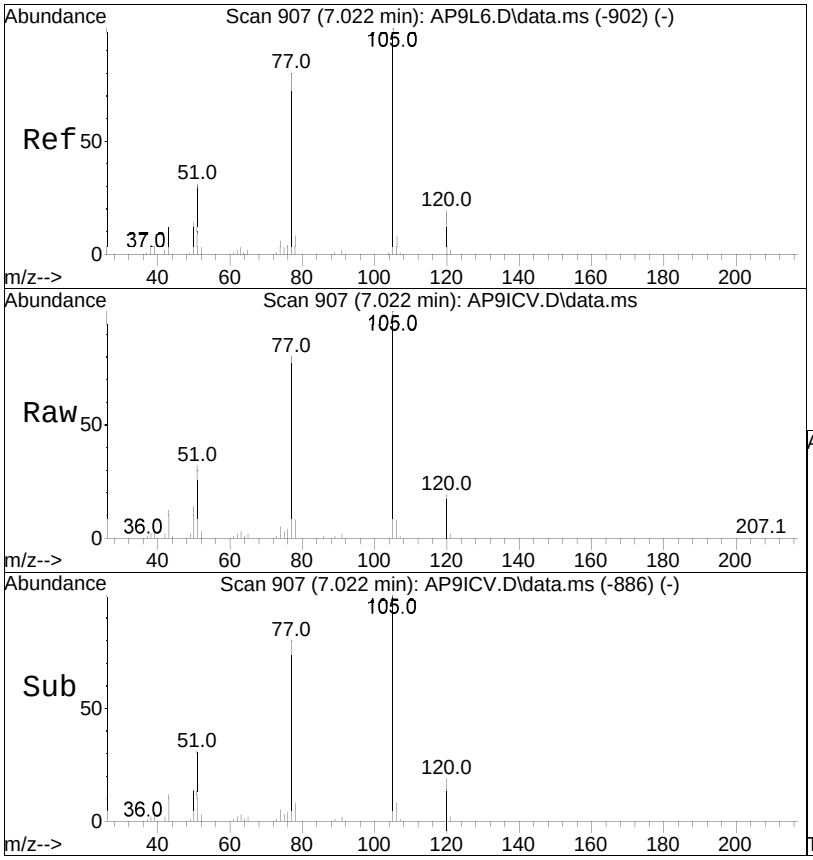


#28
Benzaldehyde
Concen: 4.86 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 60668

Ion	Ratio	Lower	Upper
105	100		
77	100.4	82.2	123.4

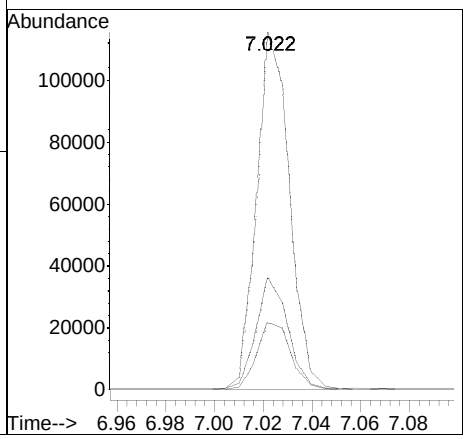


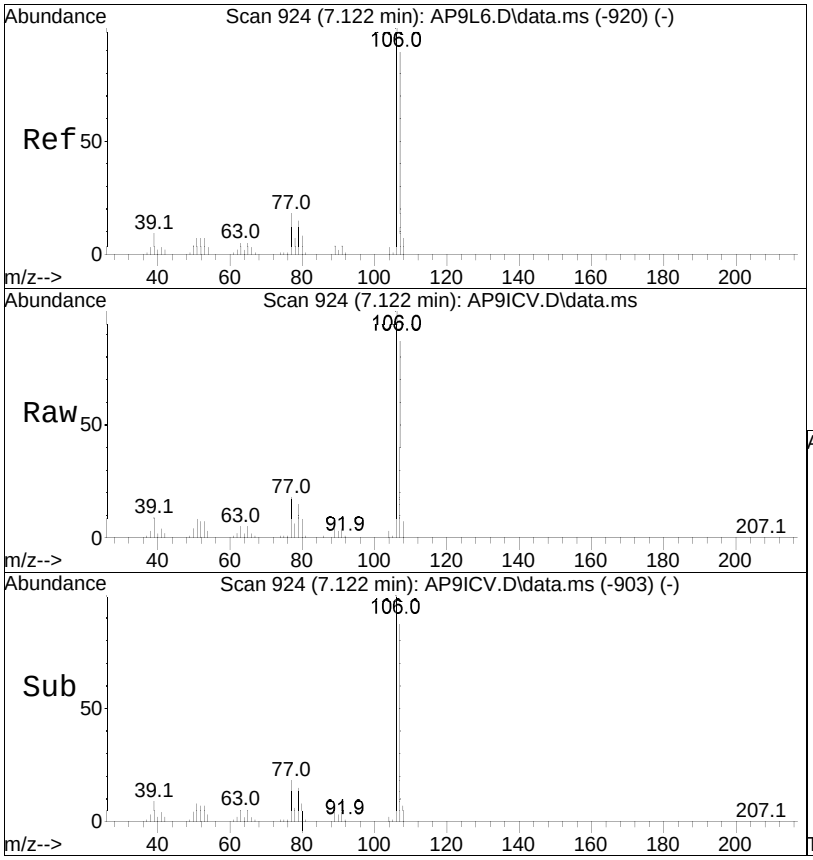


#29
Acetophenone
Concen: 4.93 ug/ml
RT: 7.022 min Scan# 907
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 106516

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	30.5	34.9	52.3#

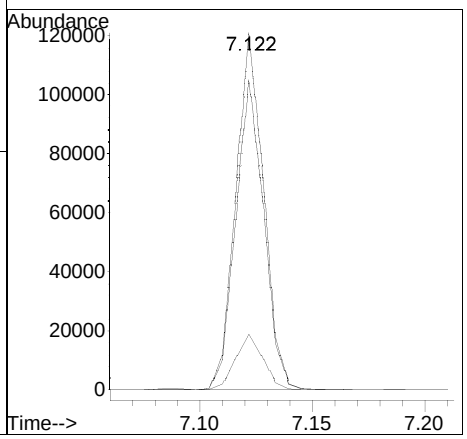


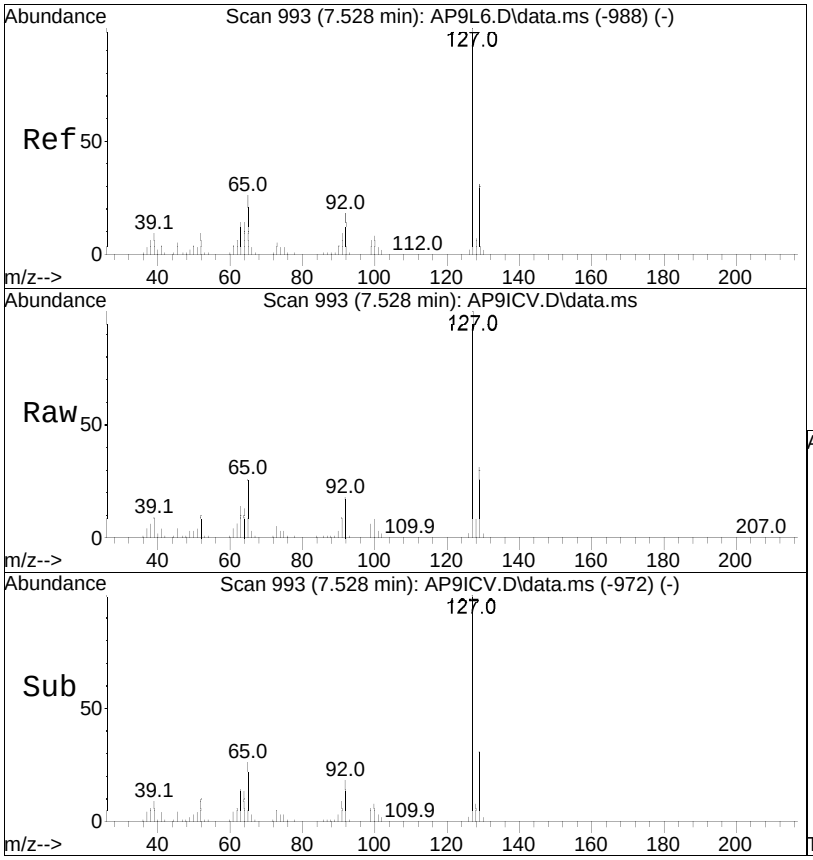


#30
m-Toluidine
Concen: 5.33 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:106 Resp: 103936

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.5	11.8	17.8

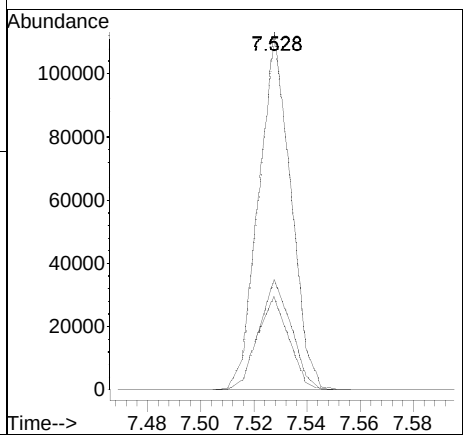


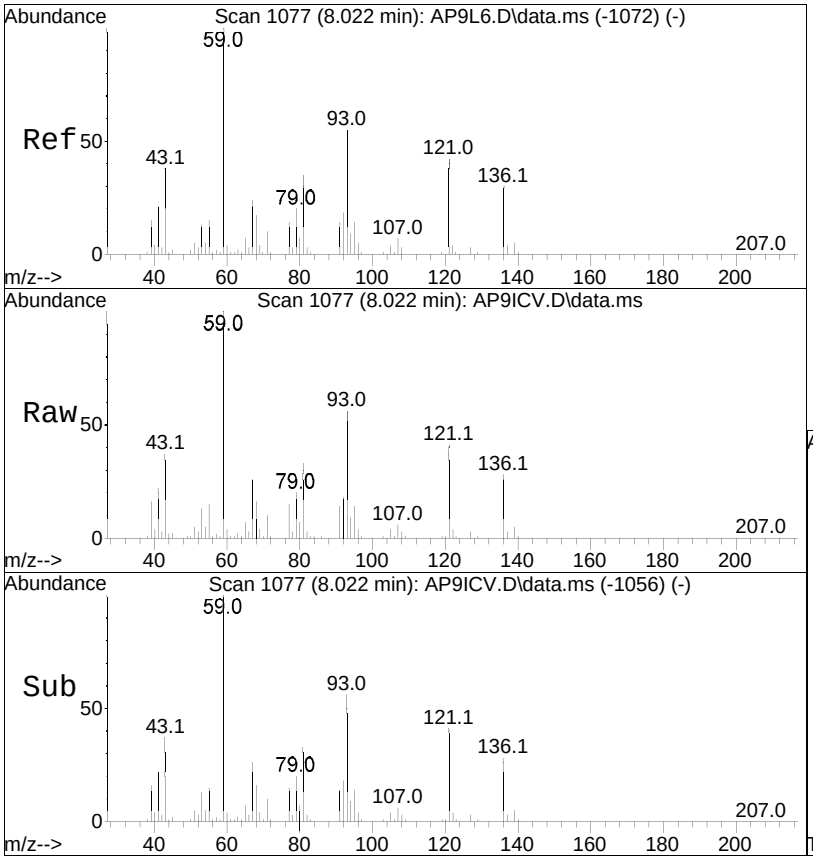


#31
2-Chloroaniline
Concen: 4.96 ug/ml
RT: 7.528 min Scan# 993
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:127 Resp: 93473

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.9	38.9
65	26.1	26.3	39.5#

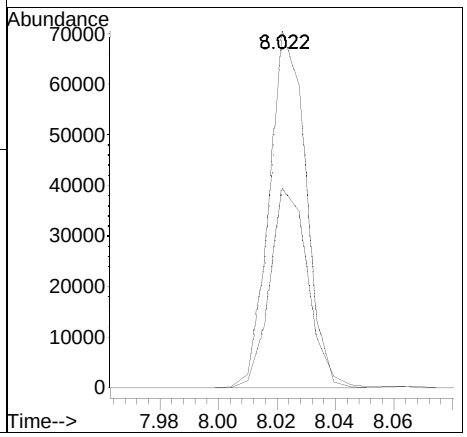


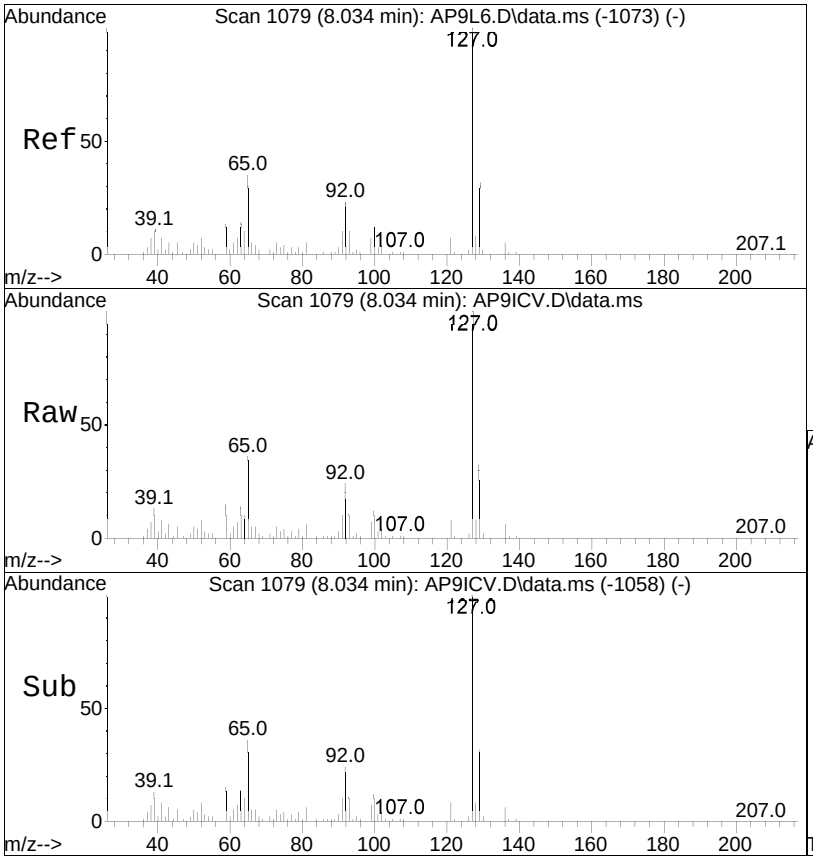


#55
a-Terpineol
Concen: 4.99 ug/ml
RT: 8.022 min Scan# 1077
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 59 Resp: 60976

Ion	Ratio	Lower	Upper
59	100		
93	59.0	35.6	53.4#

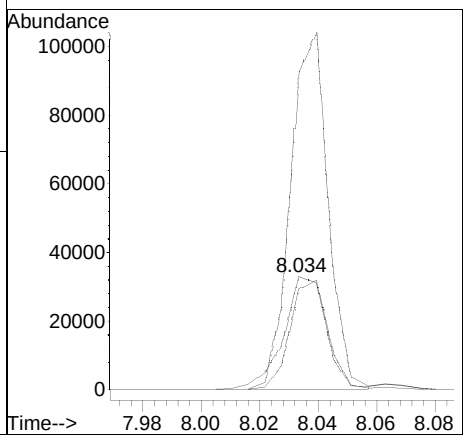


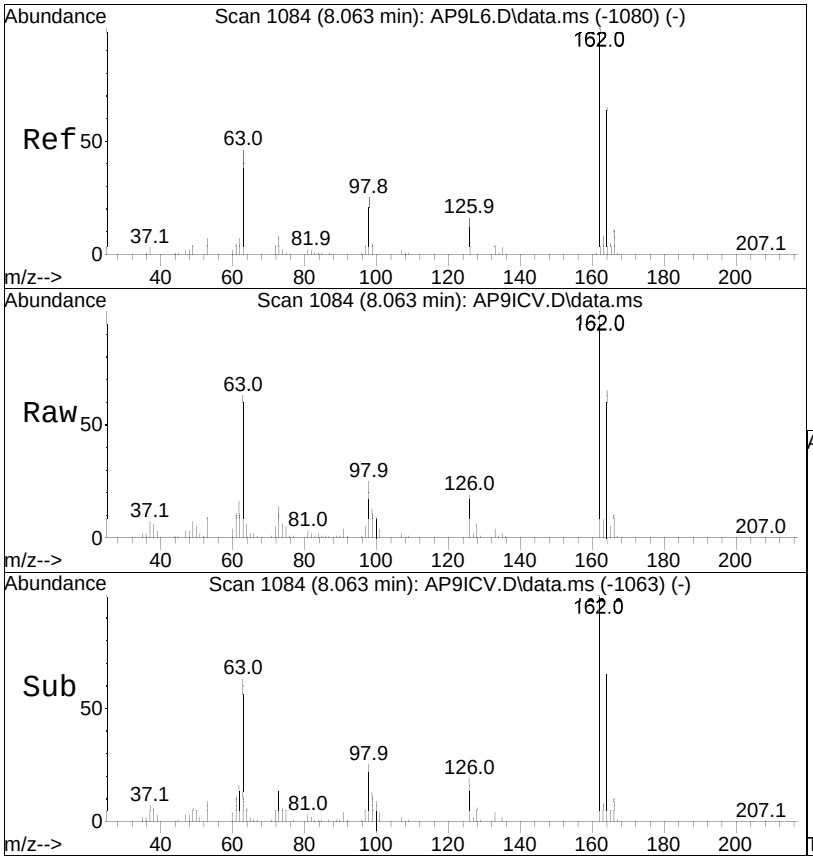


#56
3-Chloroaniline
Concen: 5.11 ug/ml
RT: 8.034 min Scan# 1079
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 65 Resp: 33250

Ion	Ratio	Lower	Upper
65	100		
127	279.0	243.2	364.8
129	87.0	78.8	118.2

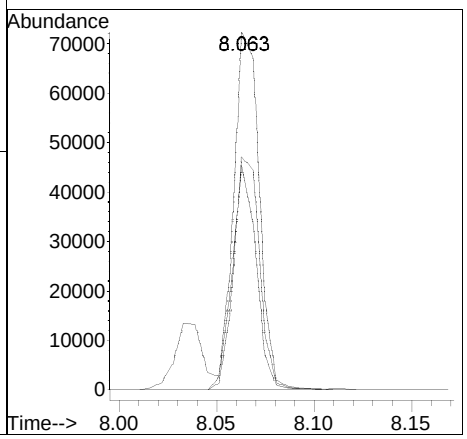


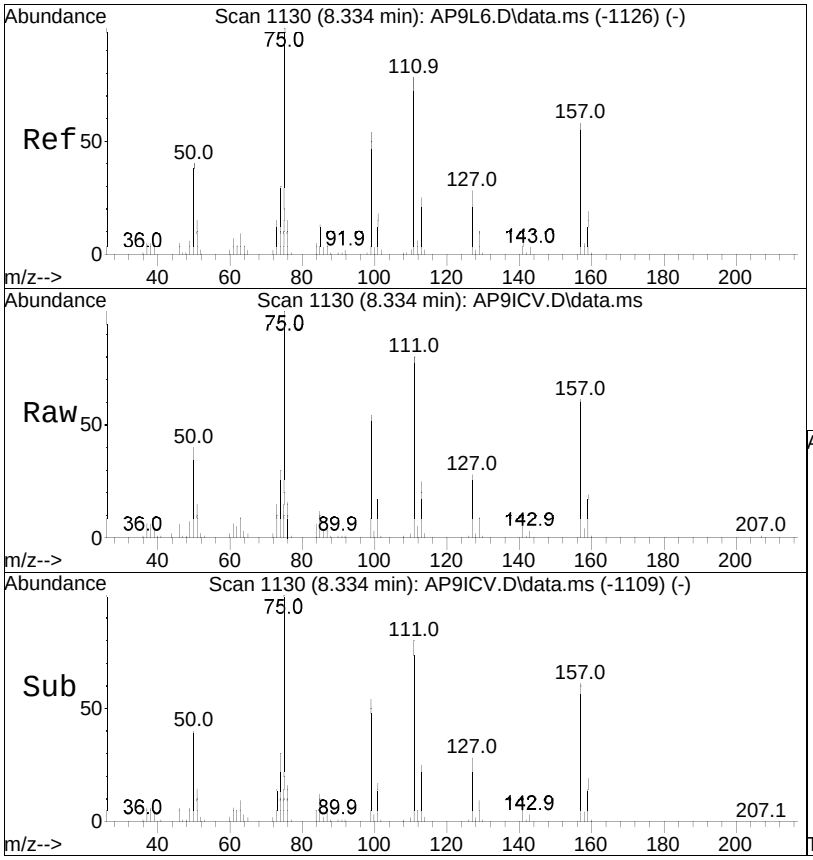


#57
2,6-Dichlorophenol
Concen: 5.15 ug/ml
RT: 8.063 min Scan# 1084
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:162 Resp: 66015

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.1	76.7
63	56.8	60.8	91.2#

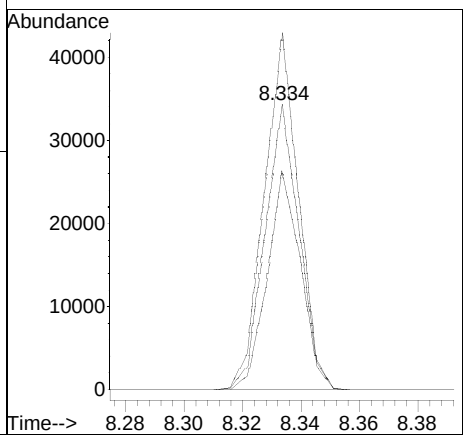


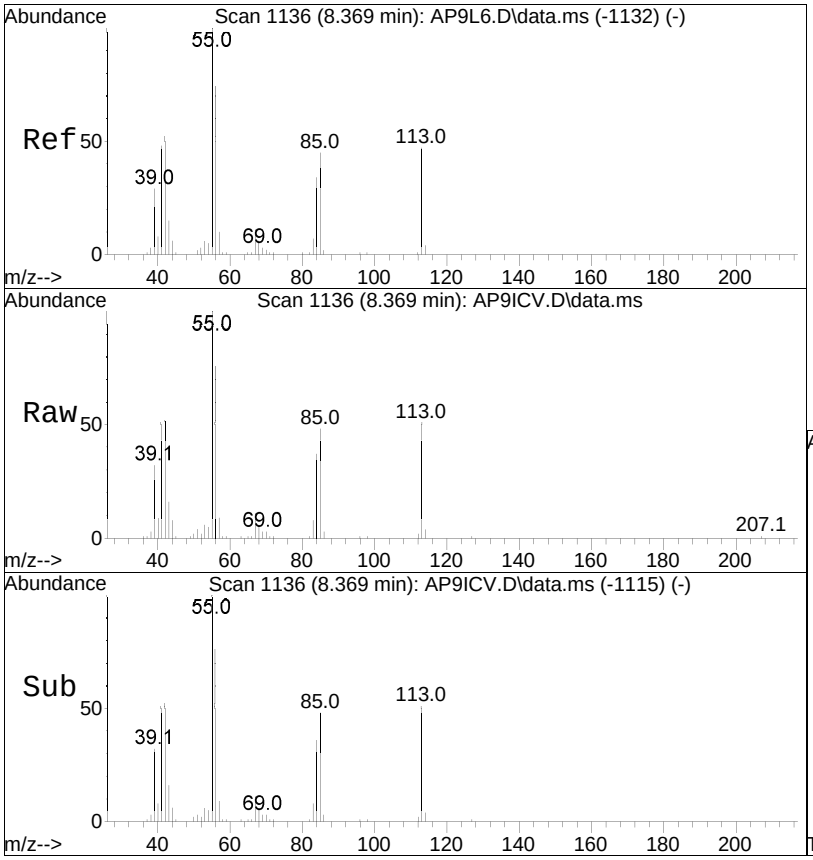


#58
1-chloro-2-nitrobenzene
Concen: 5.16 ug/ml
RT: 8.334 min Scan# 1130
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:111 Resp: 27611

Ion	Ratio	Lower	Upper
111	100		
157	74.9	0.0	0.0#
75	125.2	28.2	42.2#

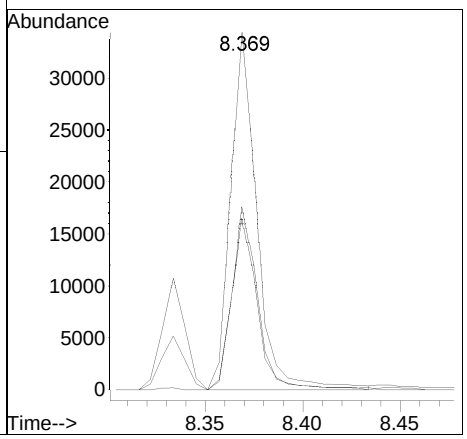


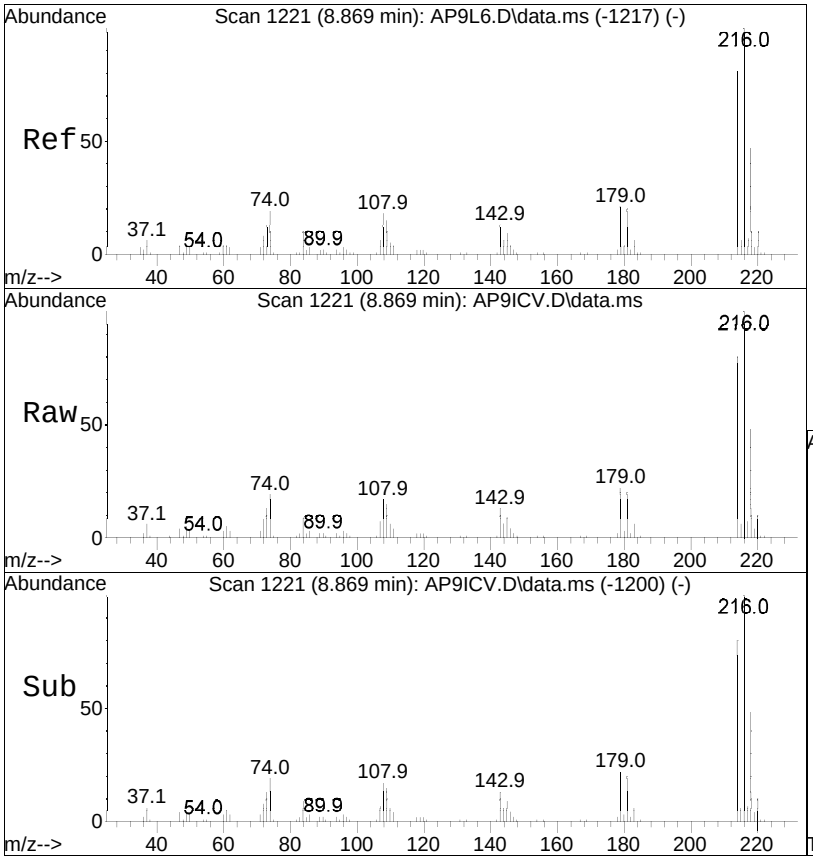


#59
Caprolactam
Concen: 4.88 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 55 Resp: 32169

Ion	Ratio	Lower	Upper
55	100		
85	47.5	19.8	29.6#
113	50.2	29.6	44.4#

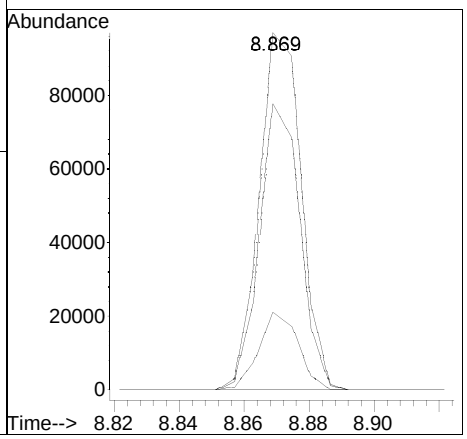


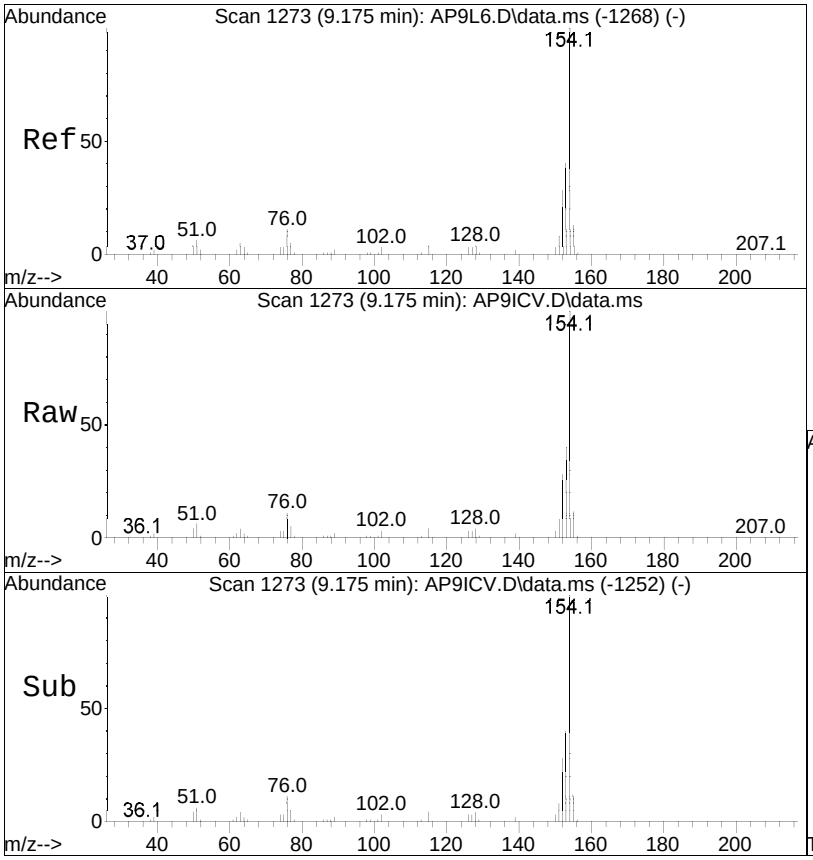


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.90 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:216 Resp: 87005

Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	20.5	19.0	28.6

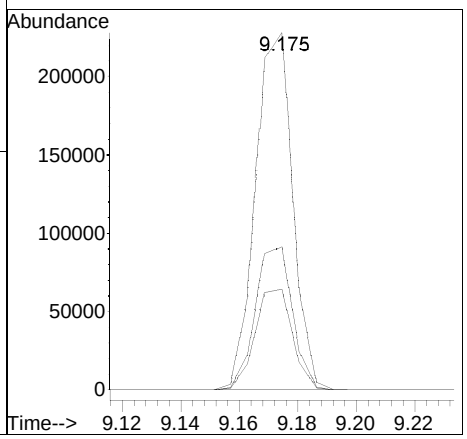


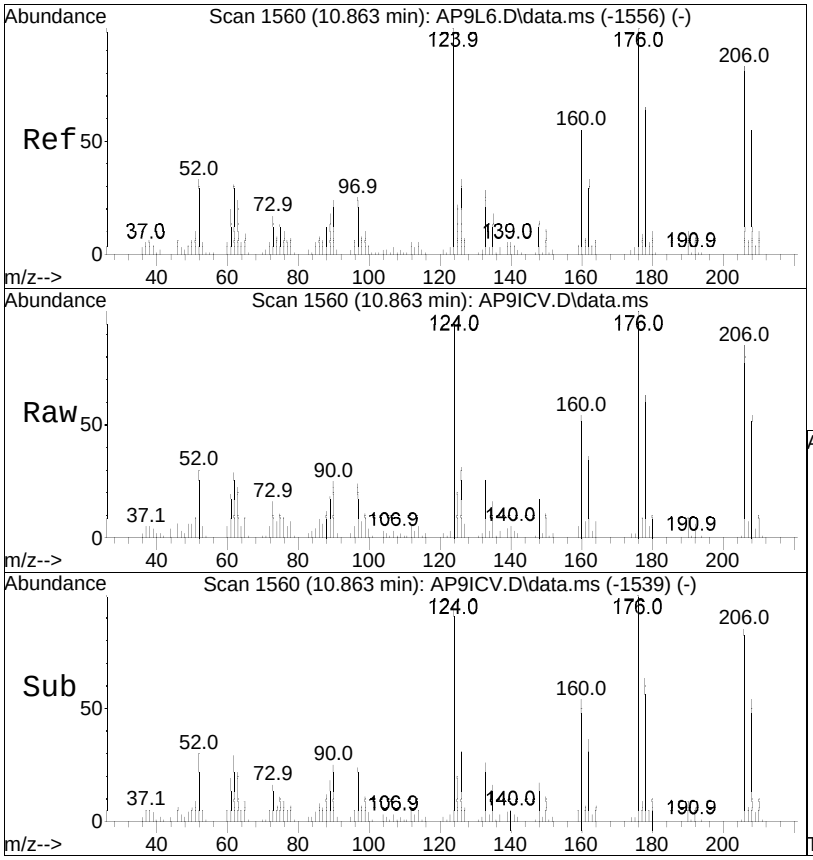


#61
Biphenyl
Concen: 4.89 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:154 Resp: 200775

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.6	22.5	33.7

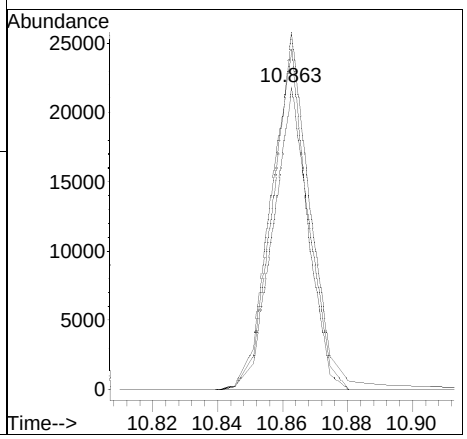


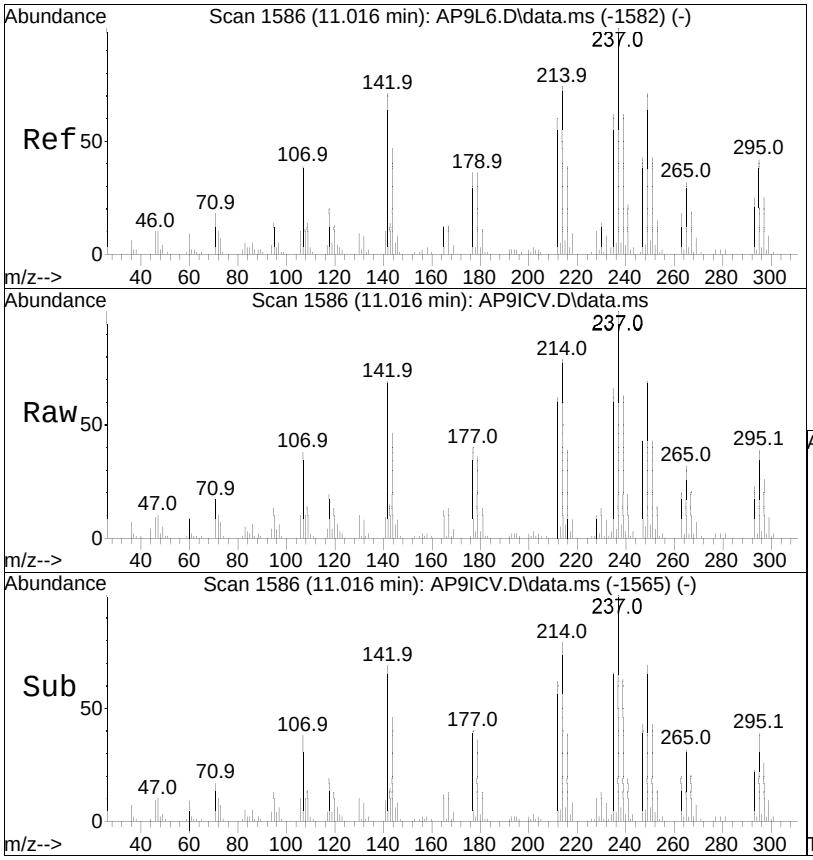


#83
Dichloran
Concen: 4.68 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:206 Resp: 16902

Ion	Ratio	Lower	Upper
206	100		
176	122.7	104.6	157.0
124	111.4	130.5	195.7#

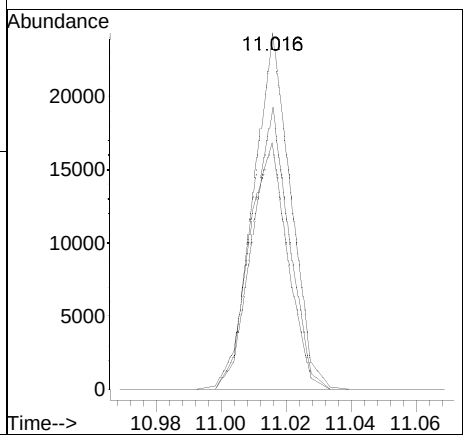


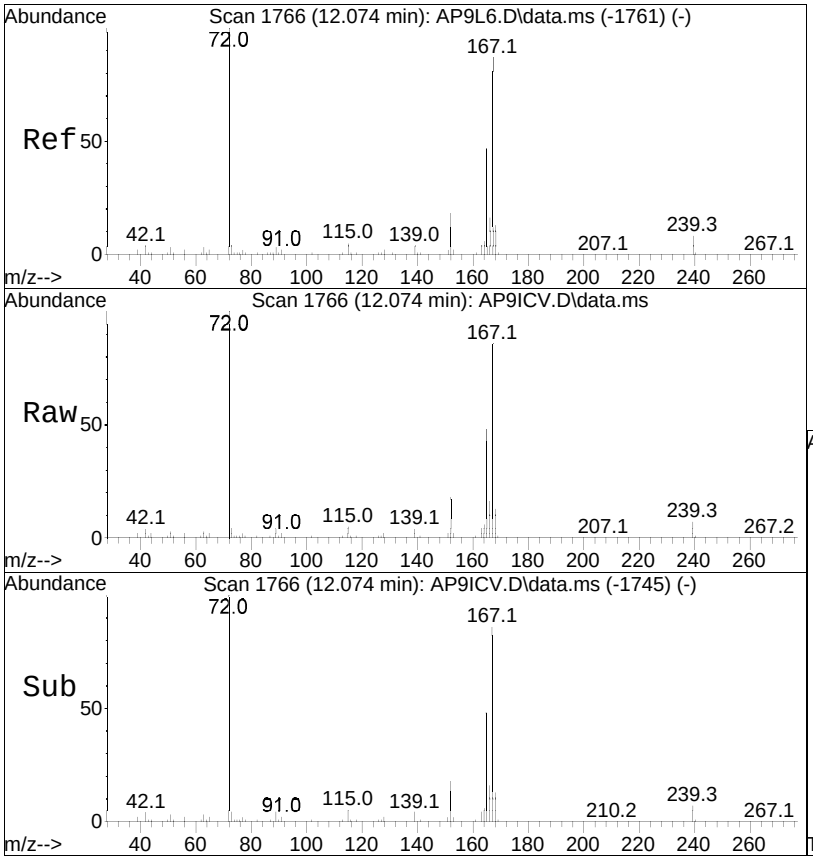


#84
Pentachloronitrobenzene
Concen: 4.80 ug/ml
RT: 11.016 min Scan# 1586
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:237 Resp: 19356

Ion	Ratio	Lower	Upper
237	100		
142	72.7	77.0	115.4#
214	77.0	58.2	87.4

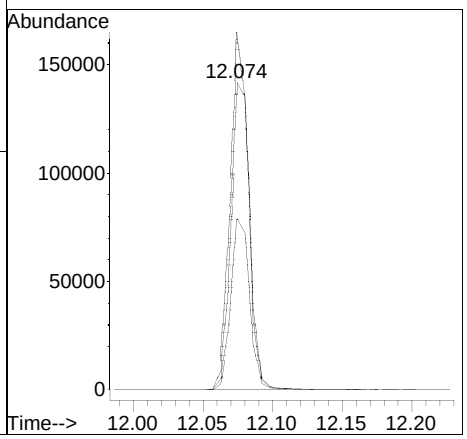




#98
Diphenamid
Concen: 5.32 ug/ml
RT: 12.074 min Scan# 1766
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:167 Resp: 133073

Ion	Ratio	Lower	Upper
167	100		
72	110.2	109.7	164.5
165	55.5	41.8	62.6



Manual Integration Report

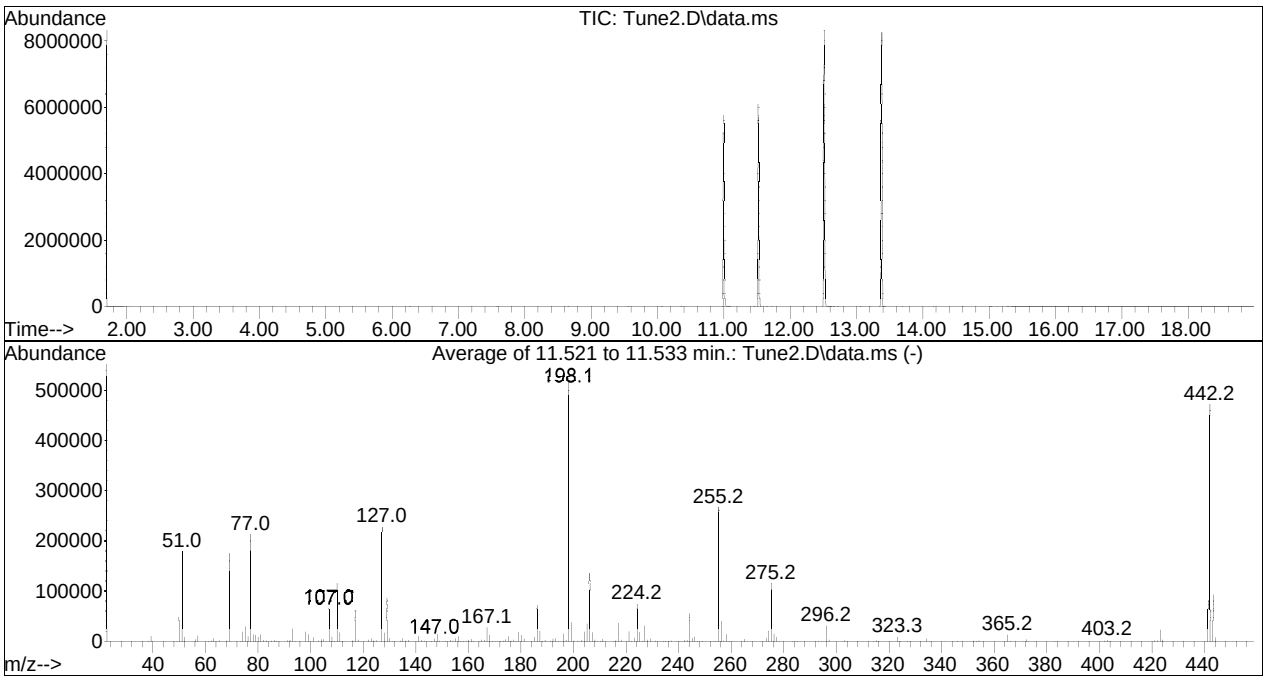
Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9ICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 3:39 am	Instrument	: SV107
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

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

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

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



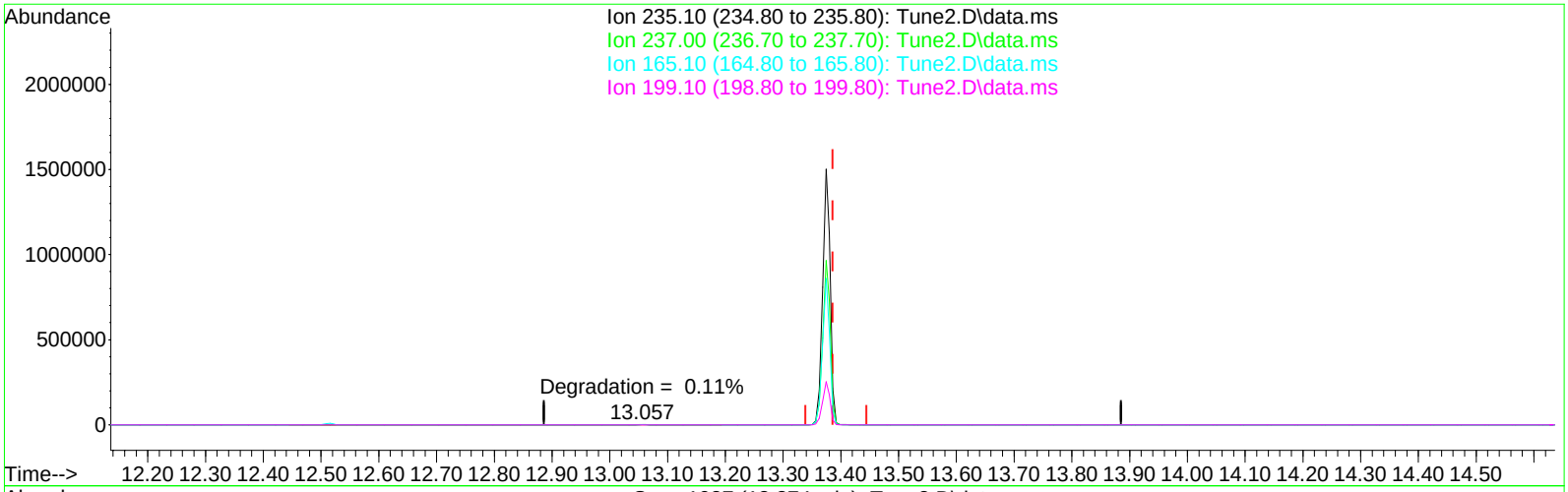
Spectrum Information: Average of 11.521 to 11.533 min.

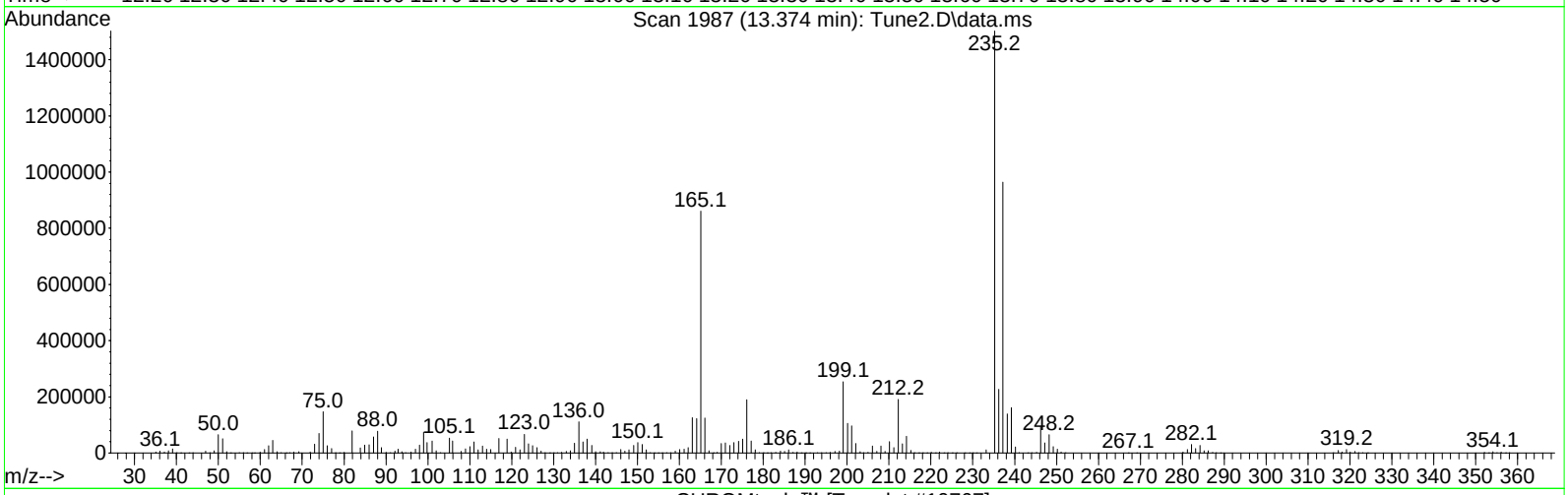
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.1	179126	PASS
68	69	0.00	2	1.6	2727	PASS
69	69	100	100	100.0	175083	PASS
70	69	0.00	2	0.5	958	PASS
127	198	10	80	43.3	227533	PASS
197	198	0.00	2	0.7	3814	PASS
198	198	100	100	100.0	525056	PASS
199	198	5	9	6.8	35925	PASS
275	198	10	60	21.9	115021	PASS
365	198	1	100	2.5	13285	PASS
441	442	0.01	24	17.1	80432	PASS
442	198	50	100	89.8	471531	PASS
443	442	15	24	19.6	92475	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.374min (-0.012) 225.28

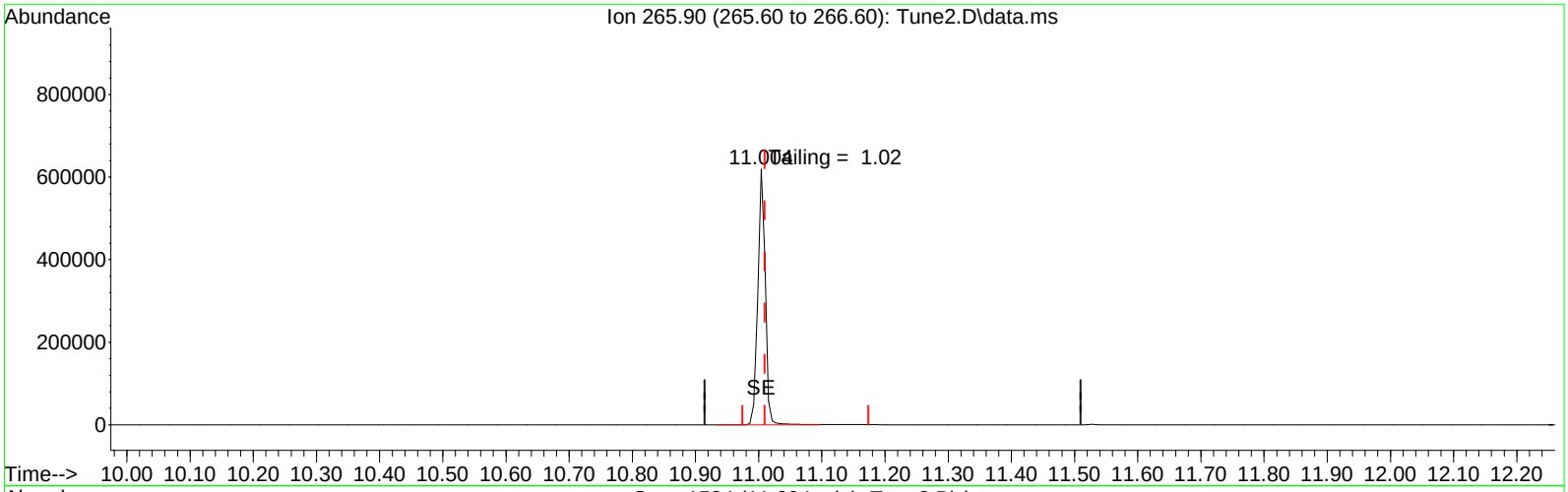
response 1373258

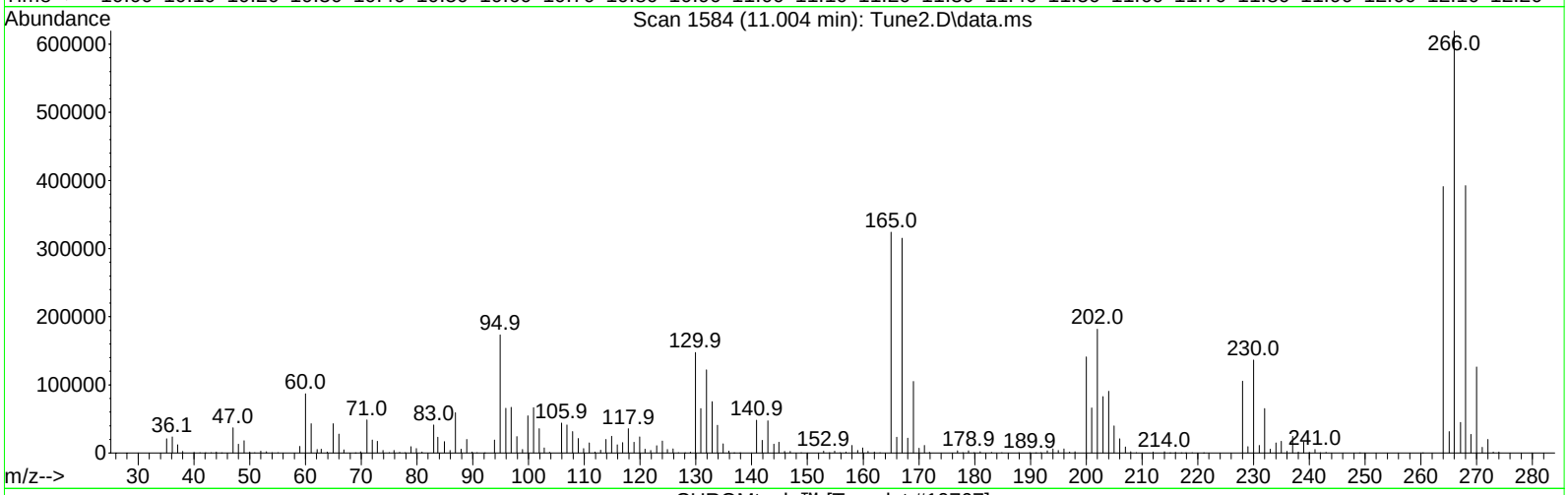
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.18
165.10	55.40	54.82
199.10	16.20	16.61

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.004min (-0.006) 246.25

response 517216

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

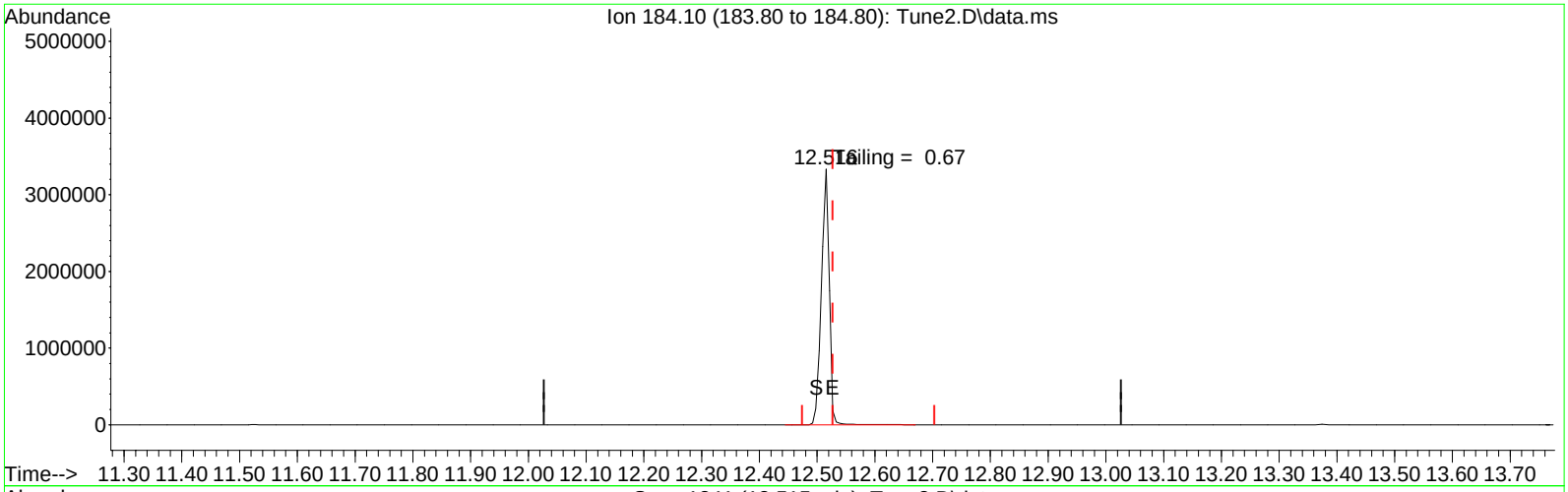
Duplicate Retention Times

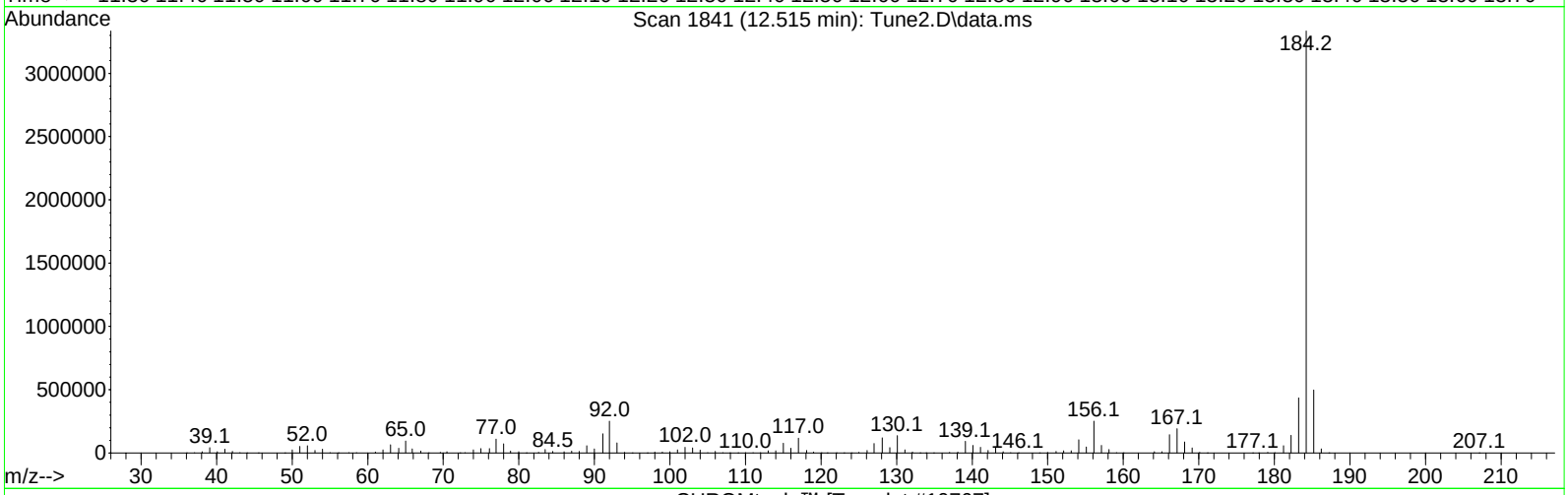
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.515min (-0.011) 309.73

response 3153109

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.528	152	47256	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 97.26%			
85) IS3_Acenaphthene-d10	9.728	164	107768	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 99.45%			
99) IS3_Phenanthrene-d10	11.169	188	235749	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 101.01%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	888155	51.448	ug/ml#	45
86) Atrazine	10.945	200	640804	48.965	ug/ml	96
100) n-Octadecane	11.145	57	1411913	65.046	ug/ml#	1
101) Parathion	11.963	109	364006	52.963	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.263	212	2636452	58.961	ug/ml	98

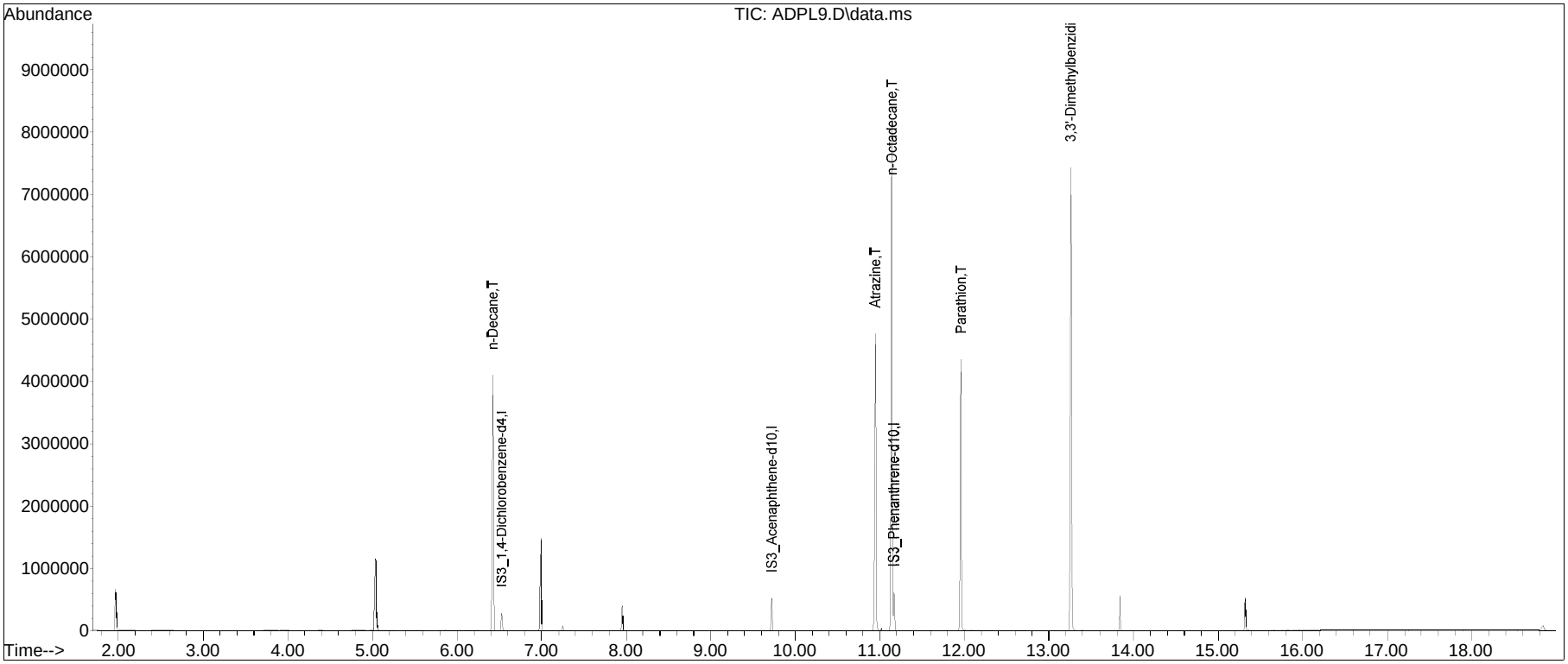
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL9.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:29 am	Instrument	: SV107
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51248	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	105.48%		
85) IS3_Acenaphthene-d10	9.727	164	116945	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	107.92%		
99) IS3_Phenanthrene-d10	11.169	188	253101	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	108.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	454019	24.251	ug/ml#	44
86) Atrazine	10.945	200	311783	26.312	ug/ml	96
100) n-Octadecane	11.145	57	687493	29.501	ug/ml#	1
101) Parathion	11.957	109	158582	26.950	ug/ml	98
102) 3,3'-Dimethylbenzidine	13.263	212	1265195	27.816	ug/ml	98

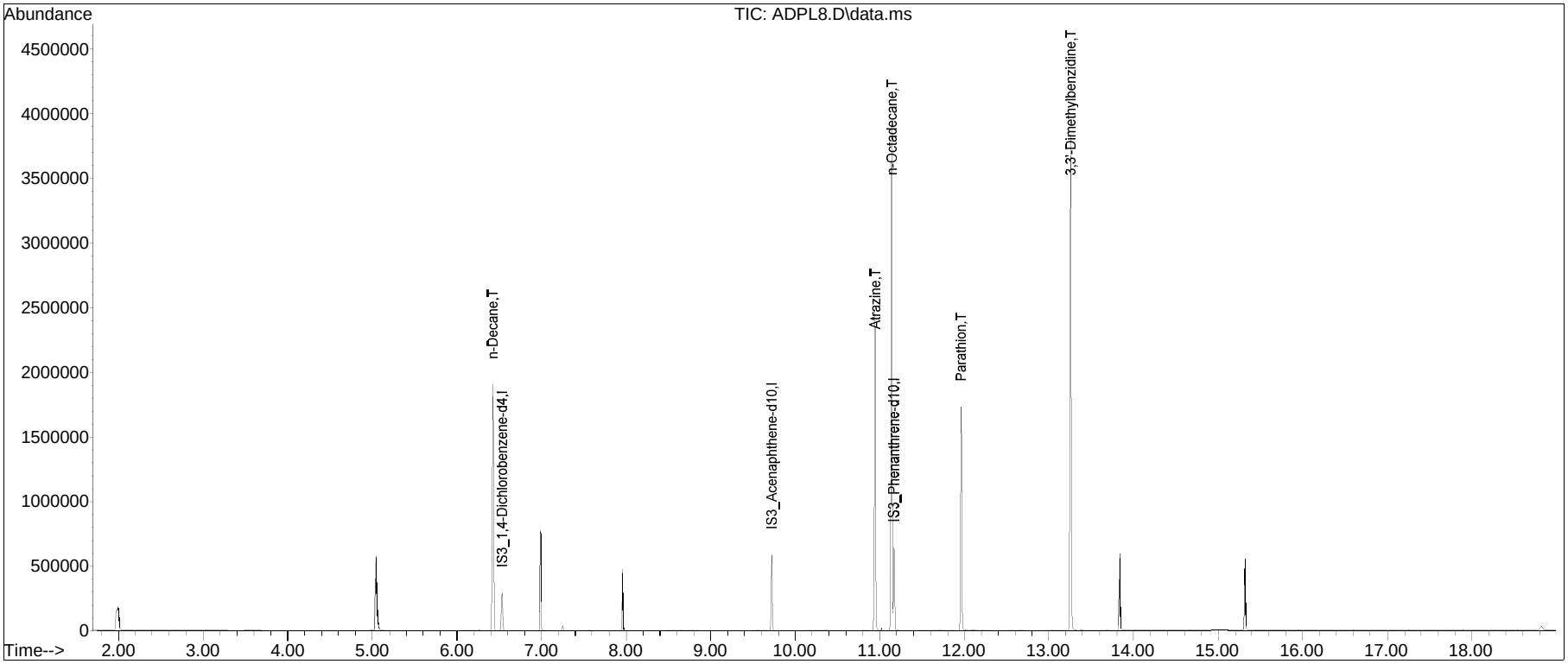
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL8.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:54 am	Instrument	: SV107
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51597	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.20%		
85) IS3_Acenaphthene-d10	9.728	164	112556	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	103.87%		
99) IS3_Phenanthrene-d10	11.169	188	243667	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	104.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	181344	9.621	ug/ml#	44
86) Atrazine	10.939	200	109374	11.099	ug/ml	96
100) n-Octadecane	11.139	57	260309	11.603	ug/ml#	1
101) Parathion	11.957	109	46804	10.070	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.257	212	445526	10.874	ug/ml	98

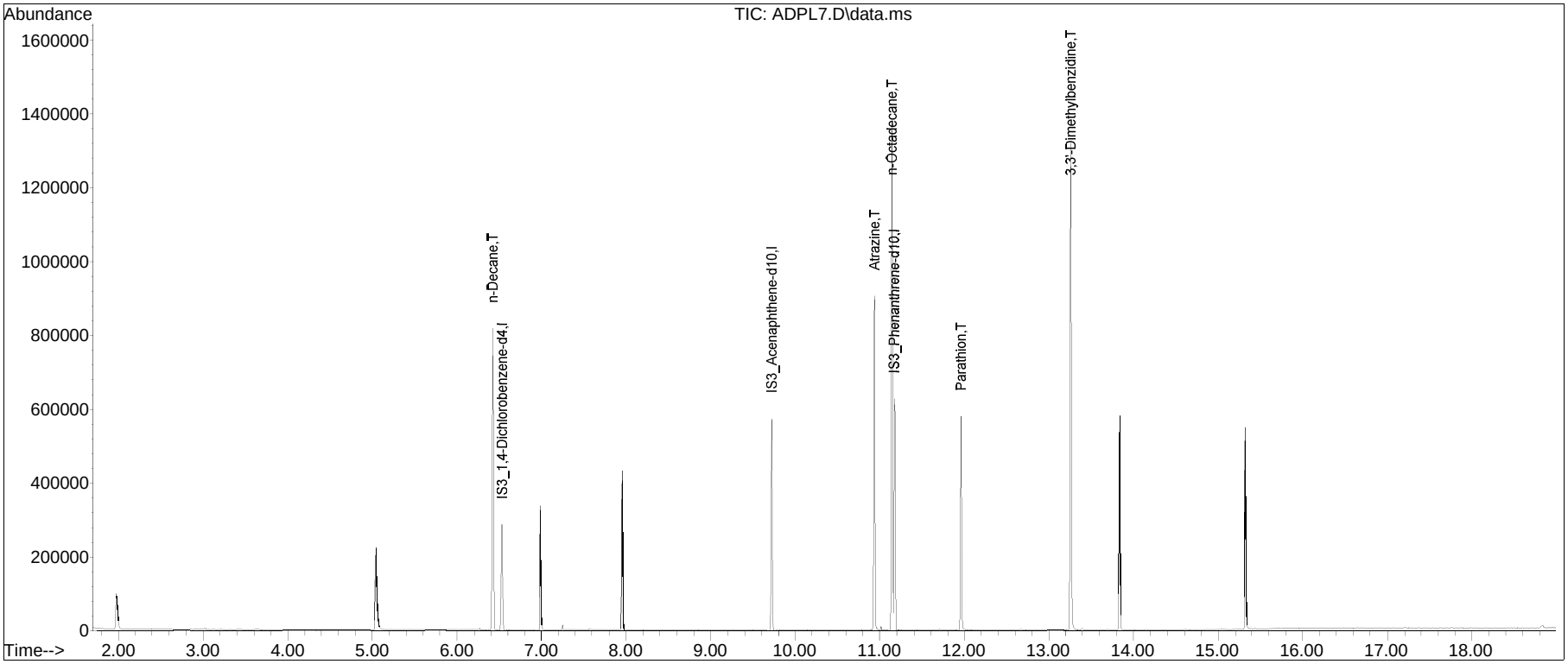
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:19 am	Instrument	: SV107
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48587	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.728	164	108359	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	11.174	188	233400	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	81218	4.576	ug/ml#	43
86) Atrazine	10.933	200	48202	5.430	ug/ml	96
100) n-Octadecane	11.139	57	115995	5.398	ug/ml#	1
101) Parathion	11.957	109	18001	4.531	ug/ml	96
102) 3,3'-Dimethylbenzidine	13.257	212	195495	5.424	ug/ml	99

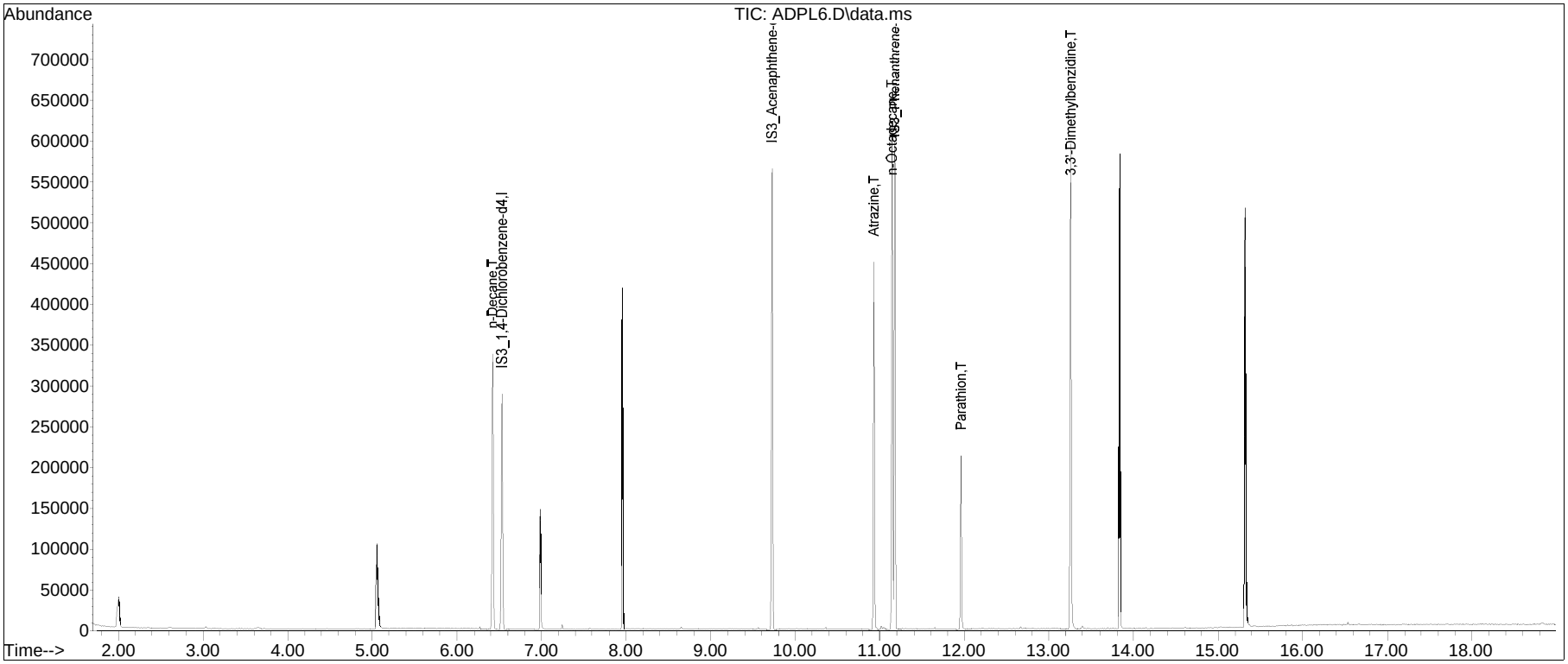
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:45 am	Instrument	: SV107
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.533	152	48599	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.02%		
85) IS3_Acenaphthene-d10	9.727	164	105030	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	96.93%		
99) IS3_Phenanthrene-d10	11.168	188	227320	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	97.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	41542	2.340	ug/ml#	44
86) Atrazine	10.933	200	21586	2.630	ug/ml	96
100) n-Octadecane	11.145	57	53141	2.539	ug/ml#	1
101) Parathion	11.957	109	7173	2.132	ug/ml	94
102) 3,3'-Dimethylbenzidine	13.257	212	77675	2.666	ug/ml	99

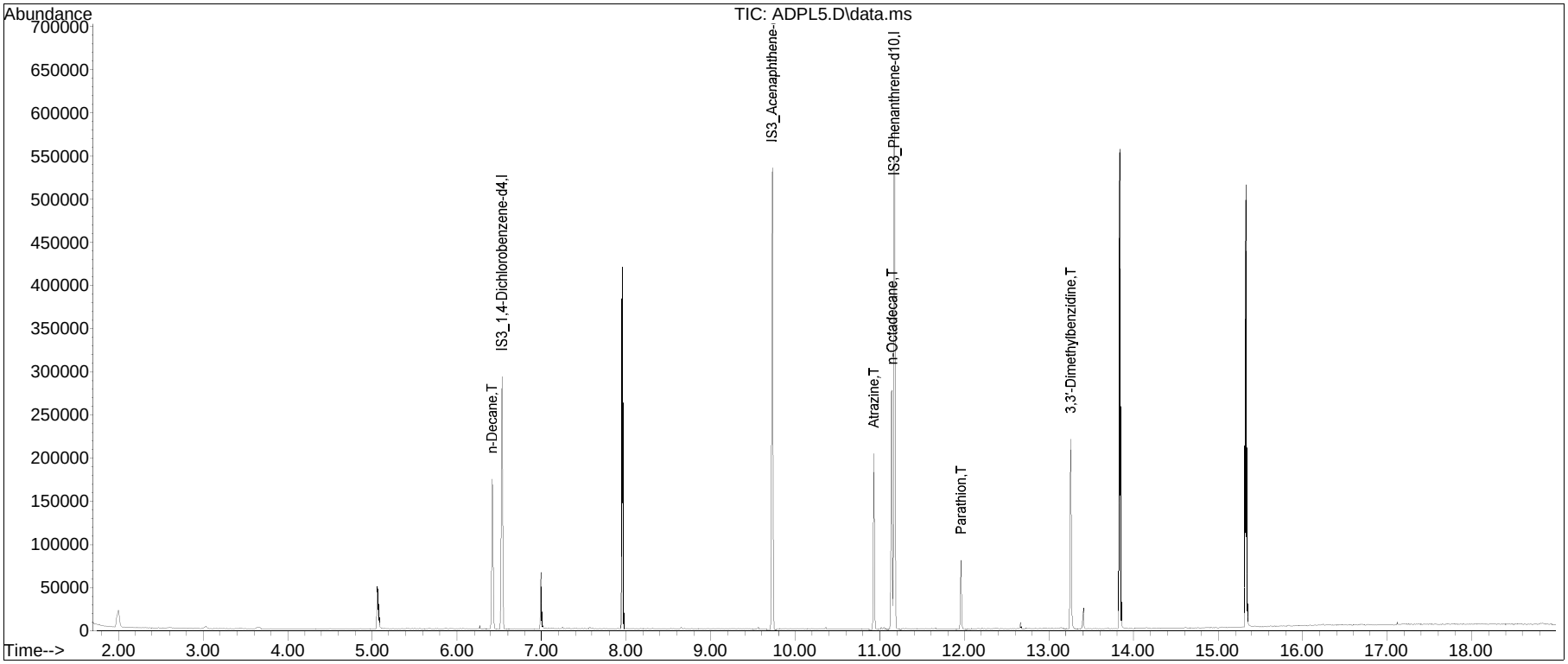
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:10 am	Instrument	: SV107
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	46933	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 96.60%			
85) IS3_Acenaphthene-d10	9.727	164	101637	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 93.80%			
99) IS3_Phenanthrene-d10	11.169	188	214729	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 92.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	17888	1.043	ug/ml#	44
86) Atrazine	10.933	200	8768	1.170	ug/ml	96
100) n-Octadecane	11.139	57	22089	1.117	ug/ml#	1
101) Parathion	11.957	109	2809	1.119	ug/ml	97
102) 3,3'-Dimethylbenzidine	13.257	212	28638	1.502	ug/ml	99

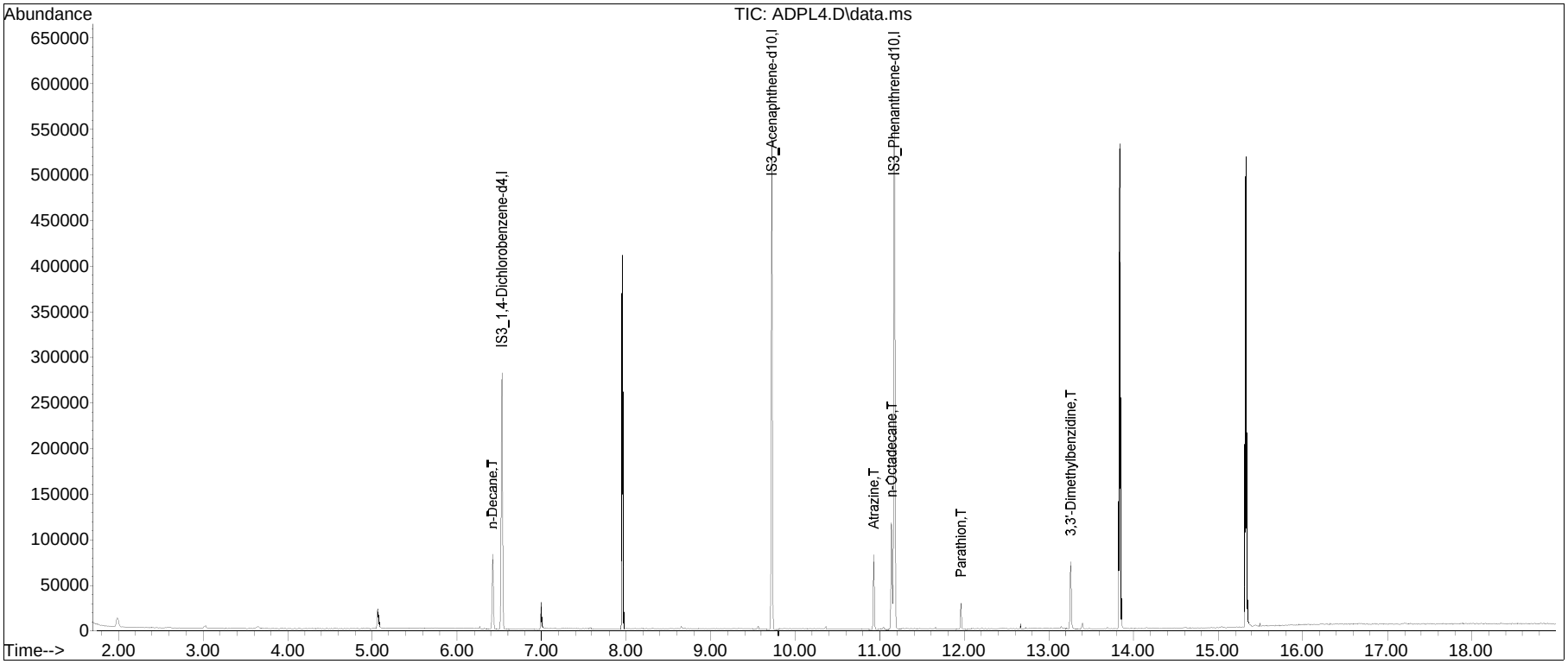
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:35 am	Instrument	: SV107
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48900	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.64%		
85) IS3_Acenaphthene-d10	9.727	164	108367	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.01%		
99) IS3_Phenanthrene-d10	11.169	188	232187	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.48%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	8935	0.500	ug/ml#	42
86) Atrazine	10.933	200	4033	0.556	ug/ml	94
100) n-Octadecane	11.139	57	10307	0.482	ug/ml#	1
101) Parathion	11.957	109	1161	0.668	ug/ml#	82
102) 3,3'-Dimethylbenzidine	13.257	212	10182	1.000	ug/ml	97

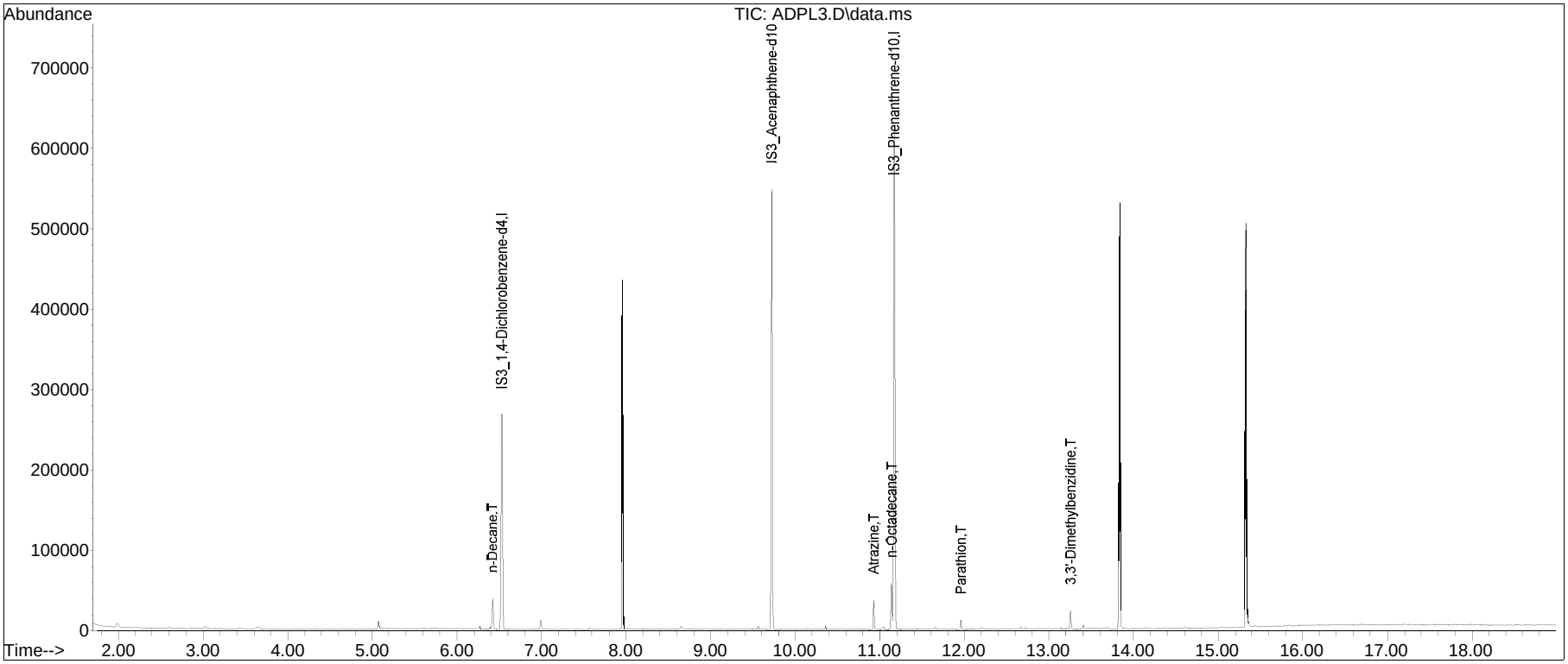
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:00 am	Instrument	: SV107
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51656	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.32%		
85) IS3_Acenaphthene-d10	9.727	164	110125	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	101.63%		
99) IS3_Phenanthrene-d10	11.169	188	232671	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.69%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	3838	0.203	ug/ml#	42
86) Atrazine	10.933	200	1581	0.267	ug/ml	92
100) n-Octadecane	11.139	57	3822	0.178	ug/ml#	1
101) Parathion	11.957	109	580	0.527	ug/ml#	80
102) 3,3'-Dimethylbenzidine	13.257	212	3243	0.833	ug/ml#	95

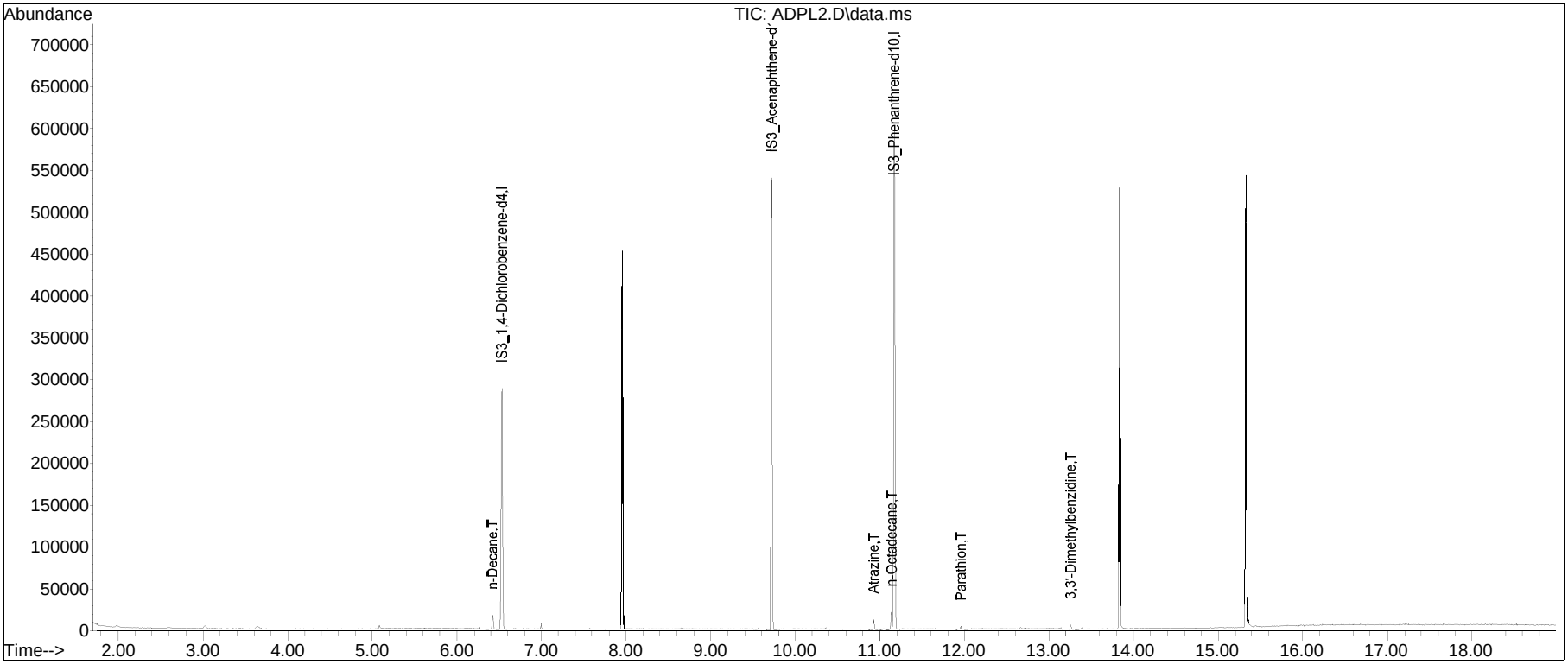
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:25 am	Instrument	: SV107
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	47913	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery = 98.61%				
85) IS3_Acenaphthene-d10	9.728	164	103451	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery = 95.47%				
99) IS3_Phenanthrene-d10	11.169	188	219717	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery = 94.14%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	1821	0.104	ug/ml	#	41
86) Atrazine	10.933	200	629	0.162	ug/ml	#	33
100) n-Octadecane	11.139	57	1799	0.089	ug/ml	#	1
101) Parathion	11.951	109	154M2	0.426	ug/ml		
102) 3,3'-Dimethylbenzidine	13.257	212	1095	0.783	ug/ml	#	62

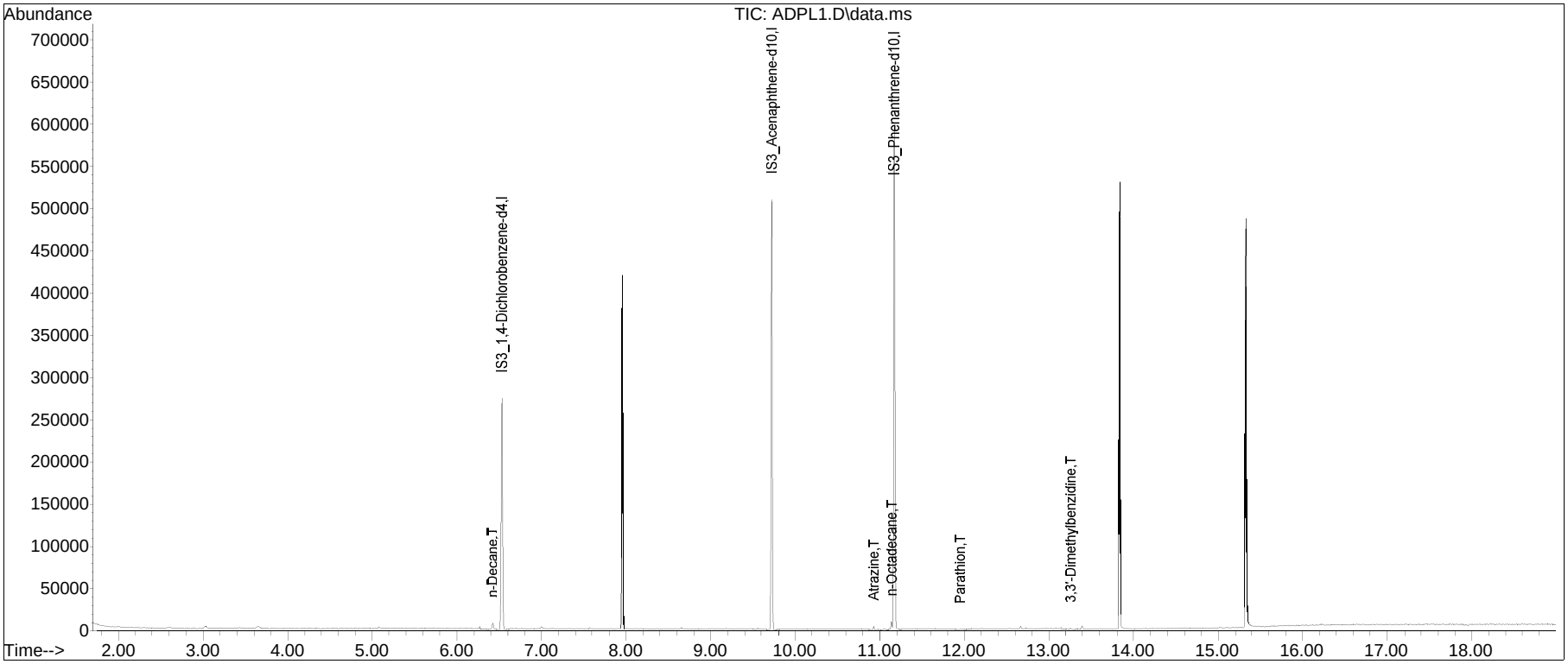
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

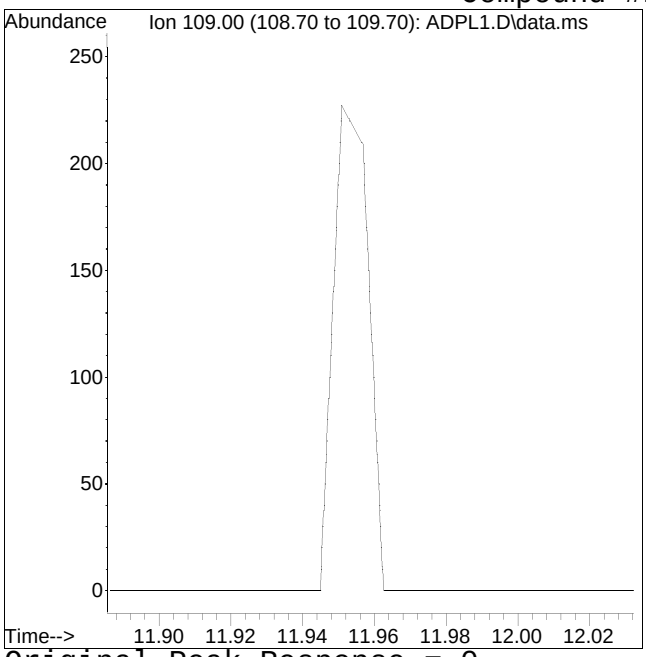
Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



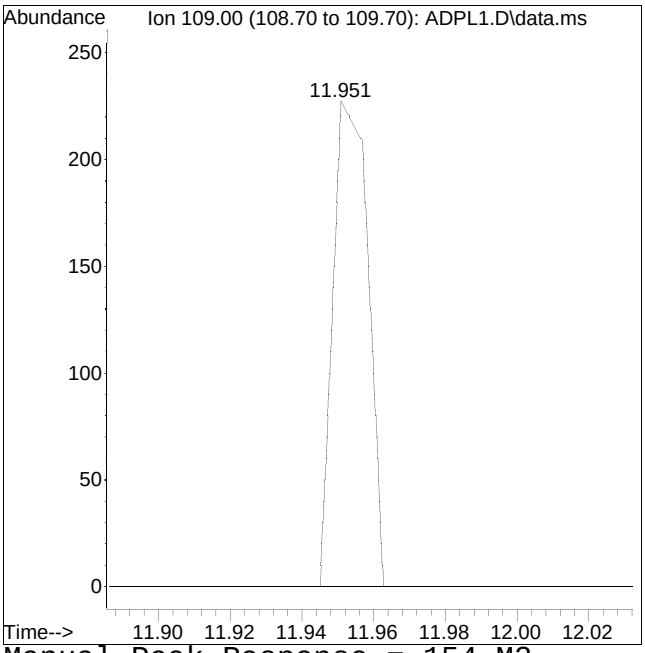
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ADPL1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 7:50 am Instrument : SV107
Sample : IL10,32,,ADPL0.1 Lot# 1071 Quant Date : 6/3/2024 10:22 am

Compound #101: Parathion



Original Peak Response = 0



Manual Peak Response = 154 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
33	T	n-Decane		1.447	1.410	2.6	109	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
86	T	Atrazine		0.347	0.330	4.9	97	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
100	T	n-Octadecane		0.393	0.408	-3.8	108	0.00
101	T	Parathion	*	5.000	3.951	21.0#	90	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.560	19.5	88	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	50098	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery =	103.11%			
85) IS3_Acenaphthene-d10	9.727	164	112929	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery =	104.22%			
99) IS3_Phenanthrene-d10	11.174	188	244668	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery =	104.83%			
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	88278	4.871	ug/ml	#	44
86) Atrazine	10.933	200	46602	4.755	ug/ml		95
100) n-Octadecane	11.139	57	124696	5.190	ug/ml	#	1
101) Parathion	11.957	109	16251	3.951	ug/ml		97
102) 3,3'-Dimethylbenzidine	13.262	212	171129	4.020	ug/ml		98

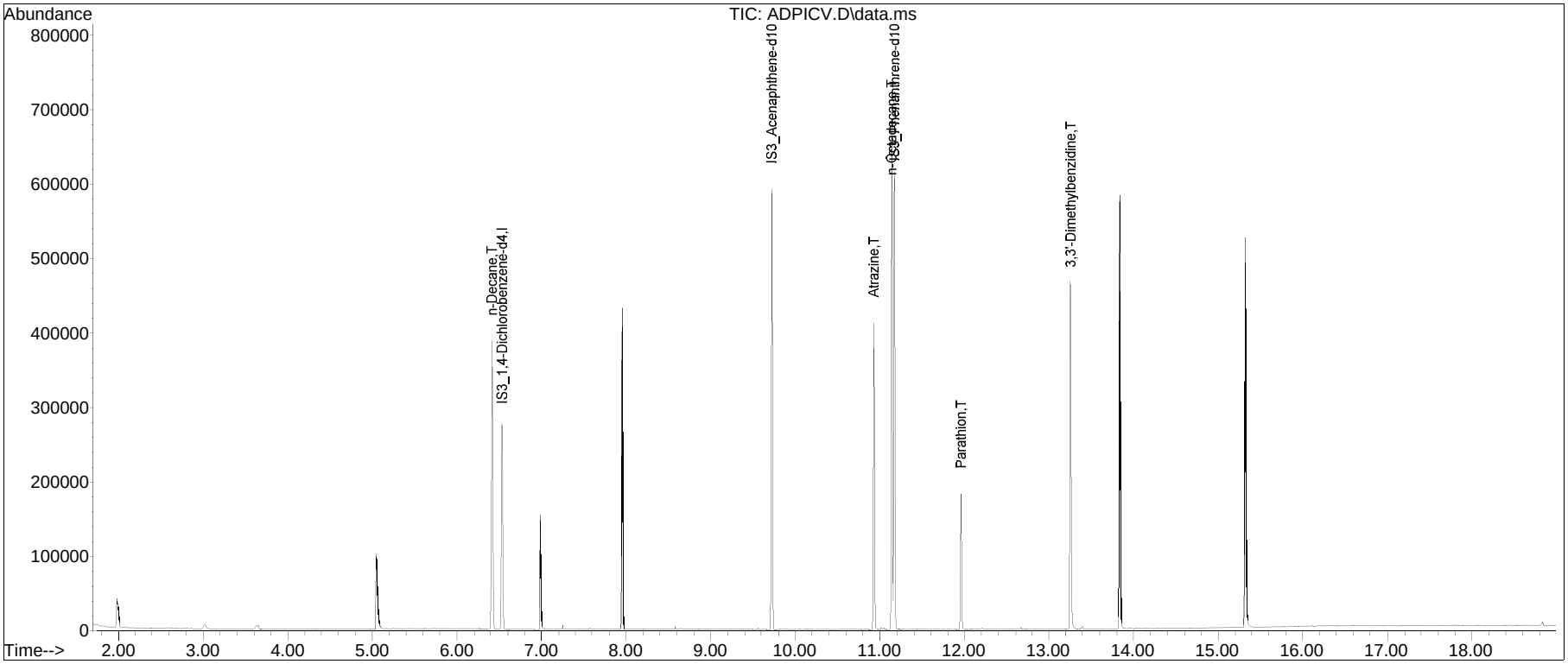
(#) = qualifier out of range (m) = manual integration (+) = signals summed

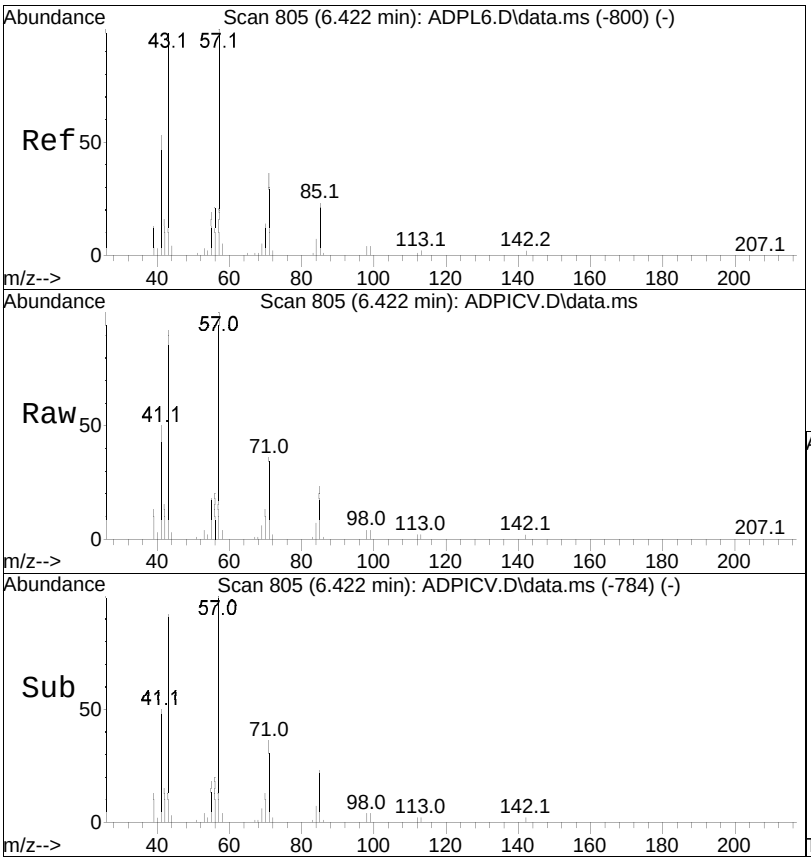
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•

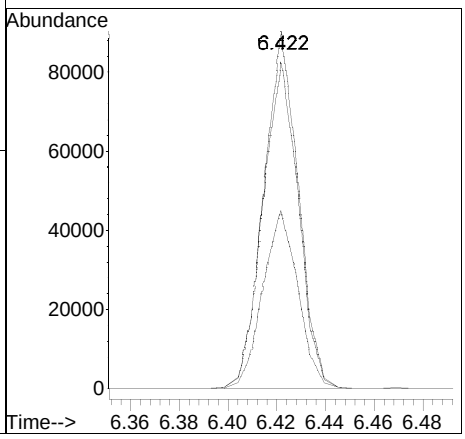


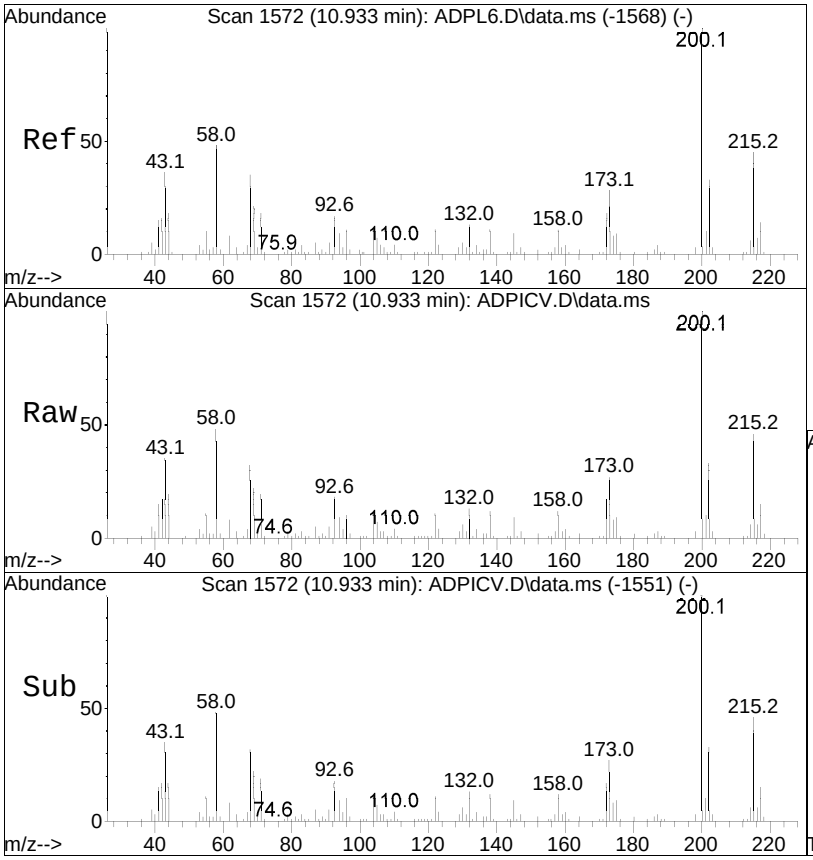


#33
n-Decane
Concen: 4.87 ug/ml
RT: 6.422 min Scan# 805
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 88278

Ion	Ratio	Lower	Upper
57	100		
43	93.8	0.2	0.2#
41	50.7	0.2	0.2#

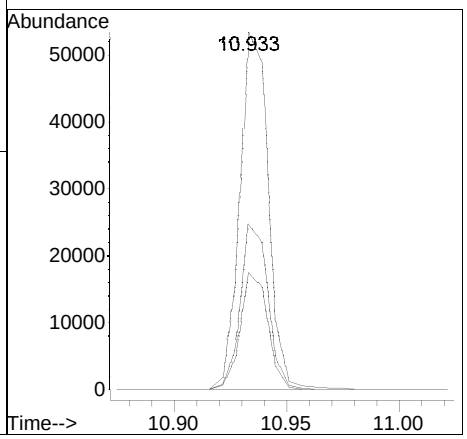


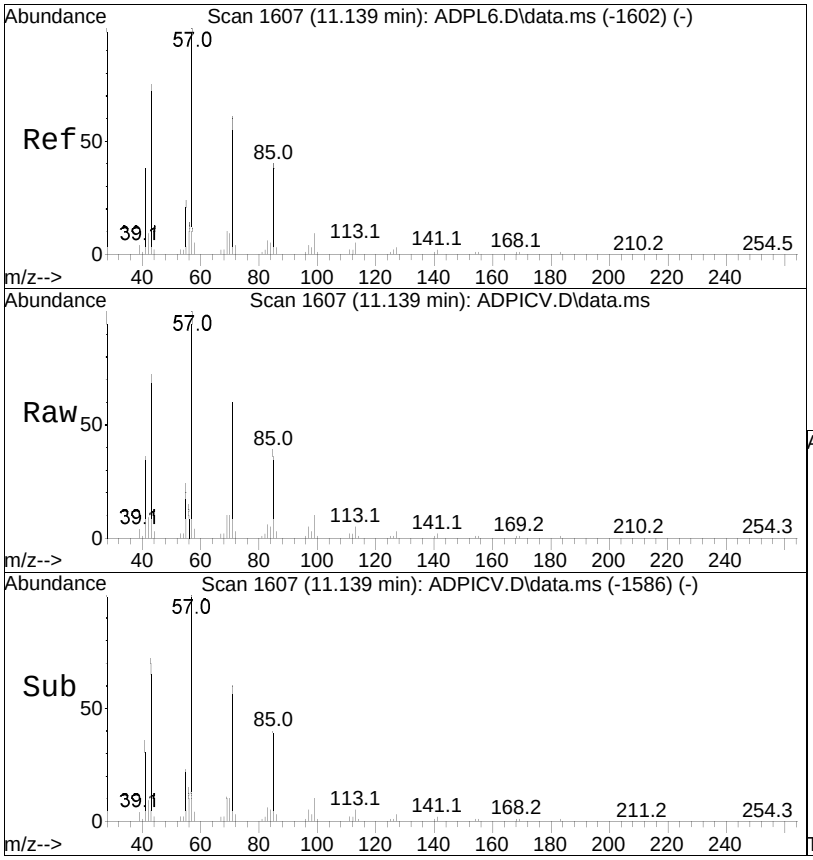


#86
Atrazine
Concen: 4.76 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:200 Resp: 46602

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.8	38.6
215	45.0	40.2	60.4

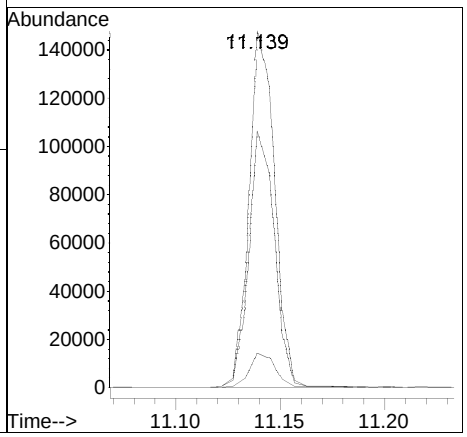


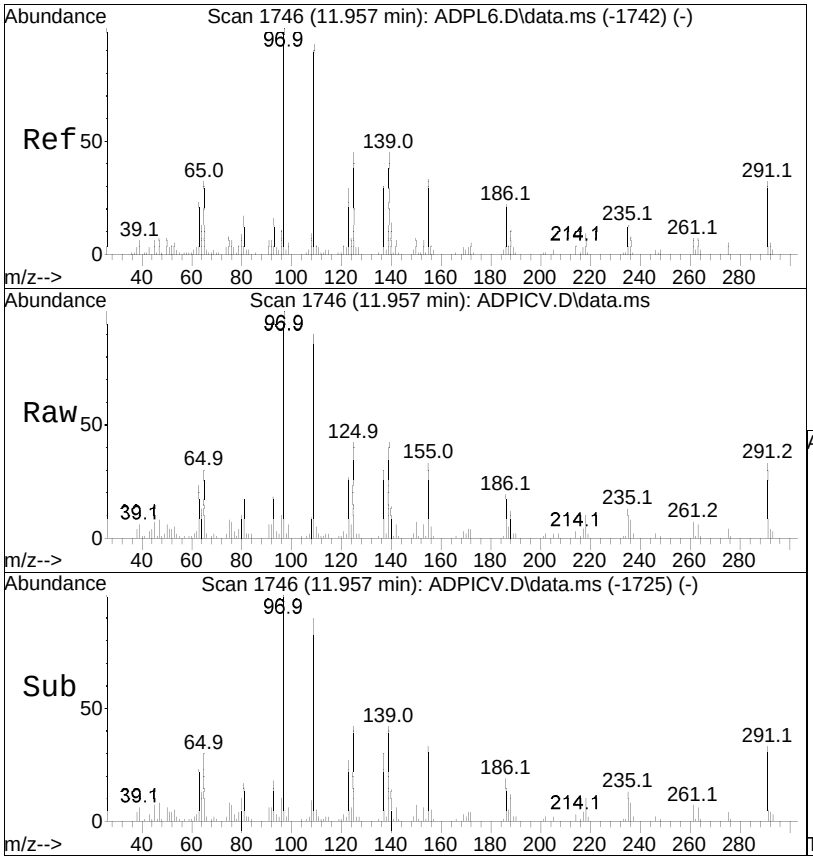


#100
n-Octadecane
Concen: 5.19 ug/ml
RT: 11.139 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 124696

Ion	Ratio	Lower	Upper
57	100		
43	72.2	9.0	13.6#
70	9.9	0.2	0.2#

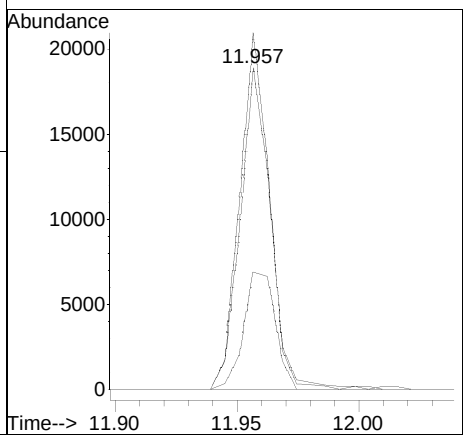


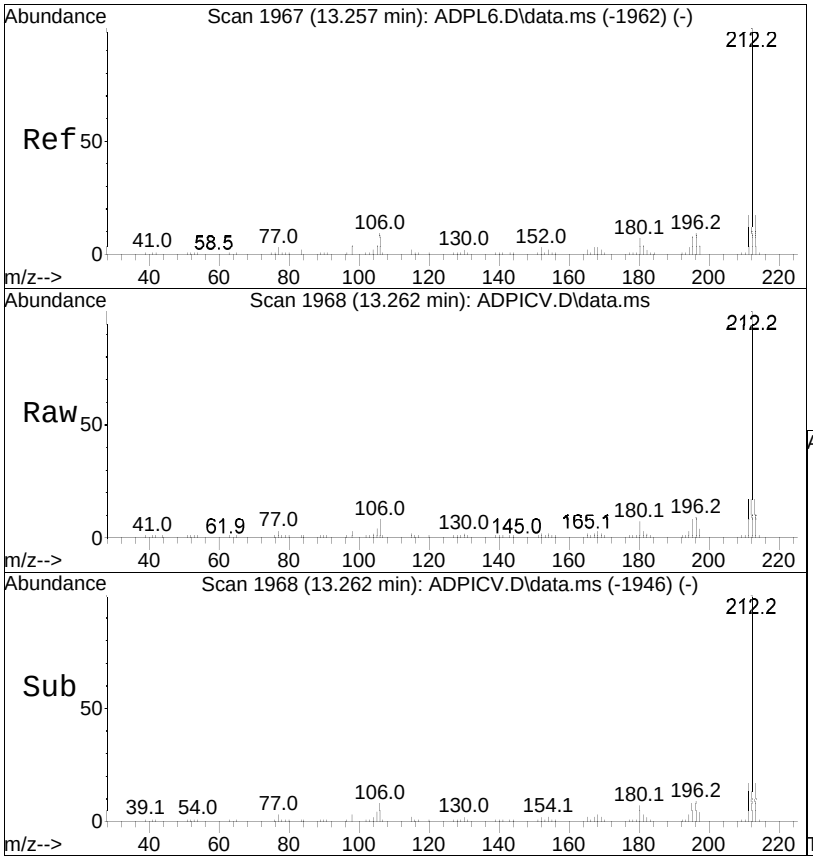


#101
Parathion
Concen: 3.95 ug/ml
RT: 11.957 min Scan# 1746
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:109 Resp: 16251

Ion	Ratio	Lower	Upper
109	100		
97	107.2	87.4	131.2
291	38.3	34.2	51.2

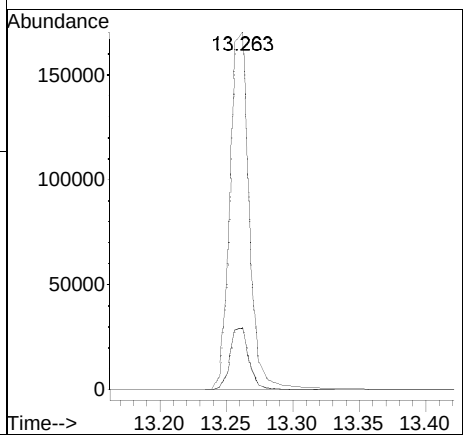




#102
3,3'-Dimethylbenzidine
Concen: 4.02 ug/ml
RT: 13.262 min Scan# 1968
Delta R.T. 0.005 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:212 Resp: 171129

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	17.2	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 8:15 am	Instrument	: SV107
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

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

Evaluate Relative Error Report SV107

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

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36	T Benzoic Acid	L	ug/ml	5.0	4.765	-4.7	2.50	2.683	7.3
65	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.255	-14.9	1.00	1.308	30.8
67	T 2,4-Dinitrotoluene	L	ug/ml	5.0	4.264	-14.7	0.50	0.672	34.4
75	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	3.927	-21.5	0.50	0.735	47.0
83	T Dichloran	Q	ug/ml	5.0	4.317	-13.7	1.00	1.187	18.7
84	T Pentachloronitrobenzene	Q	ug/ml	5.0	4.537	-9.3	1.00	1.124	12.4
96	T Butyl benzyl phthalate	L	ug/ml	5.0	4.159	-16.8	0.50	0.670	34.0
101	T Parathion	Q	ug/ml	5.0	4.503	-9.9	0.50	0.593	18.6
107	T Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.326	-13.5	0.20	0.285	42.5
108	T Di-n-octylphthalate	L	ug/ml	5.0	4.163	-16.7	0.50	0.659	31.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36	T Benzoic Acid	Linear	0.999239	0.000000	0.246525	-0.0877201
65	T 2,4-Dinitrophenol	Linear	0.992182	0.000000	0.171609	-0.0408051
67	T 2,4-Dinitrotoluene	Linear	0.994784	0.000000	0.417373	-0.0391465
75	T 4,6-Dinitro-o-cresol	Linear	0.991136	0.000000	0.230601	-0.0318046
83	T Dichloran	Quadratic	0.997786	0.004249	0.148025	-0.0234694
84	T Pentachloronitrobenzene	Quadratic	0.998992	0.002852	0.160738	-0.0192012
96	T Butyl benzyl phthalate	Linear	0.996221	0.000000	0.560774	-0.0556932
101	T Parathion	Quadratic	0.998691	0.004558	0.067987	-0.00517977
107	T Bis(2-ethylhexyl)phthalate	Linear	0.993524	0.000000	0.893249	-0.0402223
108	T Di-n-octylphthalate	Linear	0.991815	0.000000	1.53318	-0.162213

Response Factor Report SV112

Method Path : I:\8270\SV112\240625RVTical\
Method File : FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jul 01 06:16:22 2024
Response Via : Initial Calibration

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	T	N-Nitrosodimethylamine	0.562	0.547	0.668	0.671	0.658	0.715	0.737	0.691	0.666	0.657	9.69
3)	T	Pyridine	0.765	0.804	1.096	1.064	1.020	1.187	1.214	1.164	1.068	1.043	15.30
4)	S	2-Fluorophenol	1.042	0.902	1.137	1.062	1.020	1.069	1.112	1.061	1.048	1.050	6.30
5)	T	Aniline	2.034	1.689	1.779	1.844	1.753	1.761	1.854	1.790	1.794	1.811	5.35
6)	T	2-Chlorophenol	1.446	1.123	1.293	1.241	1.188	1.224	1.274	1.223	1.242	1.251	7.06
7)	S	Phenol-d6	1.528	1.195	1.365	1.305	1.289	1.368	1.414	1.357	1.387	1.357	6.75
8)	T	Phenol	1.817	1.428	1.559	1.538	1.527	1.566	1.627	1.557	1.574	1.577	6.62
9)	T	bis(2-Chloroethyl)ether	1.421	1.058	1.219	1.151	1.143	1.120	1.163	1.115	1.115	1.167	8.96
10)	T	1,3-Dichlorobenzene	1.825	1.427	1.538	1.518	1.438	1.487	1.482	1.424	1.436	1.508	8.33
11)	T	1,4-Dichlorobenzene	1.923	1.640	1.694	1.536	1.486	1.486	1.516	1.438	1.453	1.575	9.88
12)	T	1,2-Dichlorobenzene	1.745	1.340	1.594	1.450	1.424	1.428	1.446	1.404	1.447	1.475	8.21
13)	T	Benzyl alcohol	0.853	0.833	0.903	0.958	0.947	0.948	1.013	1.009	1.039	0.945	7.55
14)	T	bis(2-chloroisopropyl)ether	1.542	1.444	1.529	1.423	1.507	1.427	1.472	1.462	1.466	1.475	2.91
15)	T	2-Methylphenol	1.068	0.979	1.057	1.054	1.005	1.051	1.101	1.074	1.118	1.056	4.08
16)	T	Hexachloroethane	0.605	0.534	0.540	0.589	0.515	0.542	0.556	0.550	0.587	0.558	5.34
17)	T	n-Nitrosodi-n-propylamine	0.857	0.797	0.848	0.850	0.863	0.844	0.894	0.895	0.940	0.865	4.65
18)	T	3-Methylphenol/4-Methylphenol	1.109	1.056	1.147	1.130	1.122	1.166	1.205	1.181	1.237	1.150	4.72
19)	S	Nitrobenzene-d5	1.364	1.174	1.284	1.255	1.256	1.289	1.357	1.316	1.350	1.294	4.73
20)	T	Nitrobenzene	1.374	1.167	1.255	1.249	1.268	1.288	1.348	1.313	1.342	1.289	4.92
21)	T	Isophorone	2.526	2.023	2.282	2.274	2.361	2.267	2.412	2.399	2.410	2.328	6.09
22)	T	2-Nitrophenol	0.572	0.455	0.543	0.529	0.574	0.574	0.614	0.643	0.665	0.574	10.96
23)	T	2,4-Dimethylphenol	1.050	0.967	1.174	1.119	1.111	1.004	1.135	1.146	1.205	1.101	7.16
24)	T	bis(2-Chloroethoxy)methane	1.755	1.546	1.604	1.513	1.557	1.463	1.547	1.531	1.587	1.567	5.19
25)	T	2,4-Dichlorophenol	1.200	1.008	1.072	1.112	1.136	1.123	1.219	1.218	1.285	1.153	7.42
26)	T	1,2,4-Trichlorobenzene	1.821	1.484	1.450	1.478	1.378	1.332	1.381	1.373	1.442	1.460	9.94
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.040	0.972	1.109	1.072	1.093	1.082	1.162	1.162	1.149	1.094	5.70
29)	T	Acetophenone	1.672	1.587	1.917	1.903	1.905	1.998	2.059	2.064	2.024	1.903	8.87
30)	T	m-Toluidine	1.624	1.422	1.775	1.781	1.812	1.920	2.030	2.045	2.045	1.828	11.53
31)	T	2-Chloroaniline	1.694	1.374	1.765	1.690	1.753	1.785	1.883	1.869	1.863	1.742	8.93
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane		0.421	0.595	0.567	0.467	0.415	0.448	0.424	0.426	0.470	15.01
34)	T	n-Decane	1.220	0.970	1.192	1.255	1.127	1.060	1.191	1.145	1.149	1.145	7.58
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.266	1.035	1.152	1.087	1.005	0.997	1.043	0.966	0.888	1.049	10.49
37)	T	Benzoic Acid					0.129	0.163	0.217	0.243	0.251	*L	0.9992
38)	T	4-Chloroaniline	0.080	0.126	0.116	0.116	0.123	0.117	0.126	0.128	0.129	0.118	12.79
39)	T	Hexachlorobutadiene	0.283	0.225	0.275	0.254	0.226	0.226	0.241	0.236	0.246	0.246	8.74
40)	T	p-Chloro-m-cresol	0.262	0.248	0.265	0.272	0.279	0.270	0.296	0.299	0.302	0.277	6.77
41)	T	2-Methylnaphthalene	0.846	0.703	0.755	0.742	0.670	0.650	0.700	0.683	0.670	0.713	8.47
42)	T	1-Methylnaphthalene	0.316	0.233	0.258	0.237	0.231	0.218	0.236	0.235	0.243	0.245	11.70
43)	T	Hexachlorocyclopentadiene	0.245	0.228	0.273	0.253	0.241	0.226	0.253	0.261	0.279	0.251	7.32
44)	T	2,4,6-Trichlorophenol	0.256	0.222	0.245	0.252	0.255	0.249	0.272	0.275	0.281	0.256	7.06
45)	T	2,4,5-Trichlorophenol	0.242	0.215	0.272	0.252	0.257	0.258	0.278	0.287	0.301	0.262	9.81

Response Factor Report SV112

Method Path : I:\8270\SV112\240625RVTical\
Method File : FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jul 01 06:16:22 2024
Response Via : Initial Calibration

Calibration Files
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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	S	2-Fluorobiphenyl	1.108	0.906	0.959	0.931	0.893	0.820	0.871	0.845	0.809	0.904	10.04
47)	T	2-Chloronaphthalene	0.947	0.735	0.788	0.772	0.738	0.697	0.735	0.717	0.699	0.759	10.11
48)	T	2-Nitroaniline	0.189	0.160	0.201	0.186	0.193	0.191	0.219	0.231	0.235	0.200	11.96
49)	T	1,4-Dinitrobenzene	0.083	0.069	0.090	0.093	0.097	0.095	0.111	0.122	0.125	0.098	18.43
50)	T	1,3-Dinitrobenzene	0.094	0.088	0.105	0.107	0.111	0.110	0.126	0.138	0.147	0.114	17.21
51)	T	Dimethyl phthalate	1.140	0.882	1.009	0.933	0.924	0.827	0.876	0.885	0.829	0.923	10.69
52)	T	Acenaphthylene	1.278	1.043	1.196	1.115	1.136	1.059	1.125	1.115	1.011	1.120	7.23
53)	T	2,6-Dinitrotoluene	0.173	0.138	0.163	0.165	0.177	0.163	0.181	0.195	0.199	0.173	10.72
54)	T	1,2-Dinitrobenzene			0.062	0.068	0.072	0.070	0.080	0.088	0.091	0.076	14.13
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.269	0.222	0.274	0.268	0.264	0.279	0.299	0.310	0.310	0.277	9.94
57)	T	3-Chloroaniline		0.104	0.168	0.149	0.143	0.149	0.158	0.163	0.168	0.150	13.96
58)	T	2,6-Dichlorophenol	0.313	0.261	0.306	0.302	0.317	0.335	0.366	0.365	0.371	0.326	11.19
59)	T	1-chloro-2-nitrobenzene	0.113	0.111	0.143	0.146	0.133	0.146	0.162	0.167	0.168	0.143	14.67
60)	T	Caprolactam				0.126	0.131	0.155	0.174	0.178	0.183	*L	0.9990
61)	T	1,2,4,5-Tetrachlorobenzene	0.481	0.431	0.503	0.503	0.461	0.474	0.493	0.488	0.478	0.479	4.71
62)	T	Biphenyl	1.095	0.927	1.090	1.060	1.016	1.018	1.066	1.031	0.935	1.026	5.96
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline	0.252	0.237	0.287	0.294	0.299	0.308	0.339	0.336	0.337	0.299	12.23
65)	T	Acenaphthene	1.314	1.113	1.226	1.123	1.053	1.036	1.084	1.054	1.029	1.115	8.64
66)	T	2,4-Dinitrophenol			0.079	0.095	0.133	0.147	0.168	0.191	0.195	*Q	0.9985
67)	T	Dibenzofuran	2.211	1.799	2.086	1.945	1.751	1.726	1.777	1.698	1.542	1.837	11.29
68)	T	2,4-Dinitrotoluene	0.319	0.294	0.352	0.365	0.387	0.389	0.418	0.459	0.468	0.383	15.30
69)	T	4-Nitrophenol	0.317	0.249	0.284	0.274	0.264	0.286	0.308	0.313	0.311	0.290	8.32
70)	T	2,3,5,6-Tetrachlorophenol	0.349	0.273	0.359	0.360	0.382	0.387	0.416	0.430	0.434	0.377	13.18
71)	T	2,3,4,6-Tetrachlorophenol	0.327	0.272	0.371	0.360	0.389	0.365	0.400	0.421	0.424	0.370	12.93
72)	T	Diethyl phthalate	1.798	1.445	1.599	1.494	1.494	1.341	1.413	1.434	1.361	1.487	9.42
73)	T	Fluorene	1.722	1.358	1.548	1.423	1.385	1.344	1.395	1.386	1.317	1.431	8.89
74)	T	4-Chlorophenyl-phenylether	0.957	0.826	0.818	0.791	0.738	0.691	0.715	0.740	0.741	0.780	10.31
75)	T	4-Nitroaniline	0.243	0.230	0.295	0.325	0.330	0.334	0.361	0.368	0.344	0.314	15.56
76)	T	4,6-Dinitro-o-cresol		0.090	0.161	0.181	0.205	0.204	0.232	0.261	0.263	*L	0.9966
77)	T	NDPA/DPA	1.445	1.148	1.297	1.268	1.198	1.152	1.215	1.205	1.148	1.231	7.78
78)	T	Azobenzene	1.524	1.129	1.373	1.336	1.302	1.260	1.305	1.296	1.220	1.305	8.30
79)	S	2,4,6-Tribromophenol			0.253	0.239	0.249	0.236	0.255	0.277	0.288	0.257	7.47
80)	T	4-Bromophenyl-phenylether	0.639	0.500	0.517	0.492	0.471	0.440	0.462	0.485	0.490	0.500	11.37
81)	T	Hexachlorobenzene	0.879	0.616	0.680	0.640	0.584	0.529	0.554	0.574	0.592	0.628	16.66
82)	T	Pentachlorophenol			0.259	0.272	0.303	0.302	0.345	0.384	0.391	0.322	16.23
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran				0.160	0.184	0.198	0.225	0.256	0.269	*L	0.9964
85)	T	Pentachloronitrobenzene			0.200	0.205	0.213	0.226	0.246	0.272	0.282	0.235	13.89
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.389	0.299	0.438	0.468	0.450	0.397	0.506	0.509	0.516	0.441	16.04
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.320	1.071	1.173	1.090	1.015	1.012	1.045	0.947	0.850	1.058	12.62
90)	T	Anthracene	1.256	1.017	1.087	1.043	1.001	0.996	1.069	0.971	0.876	1.035	9.97

Response Factor Report SV112

Method Path : I:\8270\SV112\240625RVTical\
Method File : FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jul 01 06:16:22 2024
Response Via : Initial Calibration

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

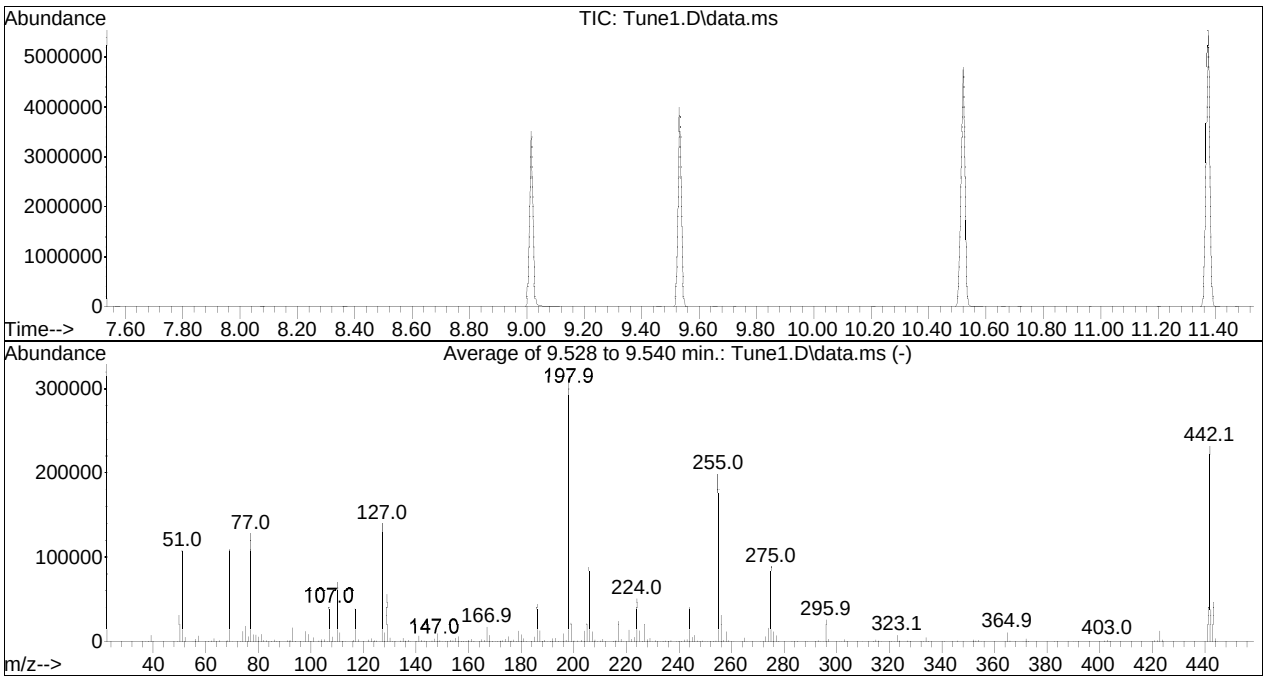
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Carbazole	1.052	0.896	1.012	0.948	0.942	0.948	1.001	0.904	0.827	0.948	7.18
92)	T	Di-n-butylphthalate	1.109	0.955	1.058	1.048	1.078	0.981	1.100	1.066	0.910	1.034	6.68
93)	T	Fluoranthene	1.499	1.186	1.326	1.251	1.214	1.178	1.266	1.147	0.982	1.228	11.39
94)	T	Benzidine	0.637	0.494	0.641	0.646	0.698	0.700	0.797	0.760	0.702	0.675	12.87
95)	T	Pyrene	1.601	1.214	1.406	1.321	1.304	1.289	1.345	1.209	1.024	1.301	12.03
96)	S	4-Terphenyl-d14	1.228	0.991	1.112	1.049	1.046	0.959	1.026	0.978	0.869	1.029	9.83
97)	T	Butyl benzyl phthalate	0.487	0.361	0.434	0.413	0.452	0.421	0.491	0.535	0.524	0.458	12.35
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.509	0.383	0.468	0.508	0.502	0.532	0.578	0.597	0.558	0.515	12.43
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.312	0.243	0.299	0.318	0.319	0.280	0.358	0.350	0.355	0.315	12.02
102)	T	Parathion		0.054	0.076	0.080	0.077	0.074	0.098	0.109	0.122	*Q	0.9982
103)	T	3,3'-Dimethylbenzidine			0.593	0.660	0.700	0.676	0.865	0.857	0.806	*L	0.9971
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.601	1.212	1.376	1.301	1.272	1.244	1.317	1.203	1.034	1.284	11.88
106)	T	3,3'-Dichlorobenzidine	0.484	0.379	0.450	0.441	0.460	0.466	0.523	0.512	0.497	0.468	9.31
107)	T	Chrysene	1.675	1.240	1.402	1.329	1.232	1.205	1.249	1.091	0.910	1.259	16.66
108)	T	bis(2-Ethylhexyl)phthalate	0.620	0.525	0.597	0.603	0.661	0.610	0.702	0.753	0.677	0.639	10.51
109)	T	Di-n-octylphthalate	0.924	0.768	0.917	0.888	1.018	0.992	1.151	1.177	0.974	0.979	13.03
110)	T	Benzo(b)fluoranthene	1.582	1.244	1.467	1.388	1.283	1.299	1.315	1.163	1.116	1.317	11.01
111)	T	Benzo(k)fluoranthene	1.265	1.114	1.303	1.202	1.228	1.278	1.375	1.175	0.881	1.202	11.84
112)	T	Benzo(a)pyrene	1.261	1.054	1.246	1.174	1.126	1.174	1.245	1.108	0.956	1.149	8.76
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.192	0.988	1.118	1.057	1.007	1.143	1.162	1.212	1.186	1.118	7.36
115)	T	Dibenzo[a,h]anthracene	1.040	0.931	1.151	1.098	1.025	1.080	1.151	1.109	1.027	1.068	6.60
116)	T	Benzo(g,h,i)perylene	1.205	1.041	1.145	1.079	1.012	1.062	1.104	1.049	1.001	1.078	6.06

(#) = Out of Range

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune1.D
Acq On : 25 Jun 2024 07:55 pm
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 26 21:26:04 2024



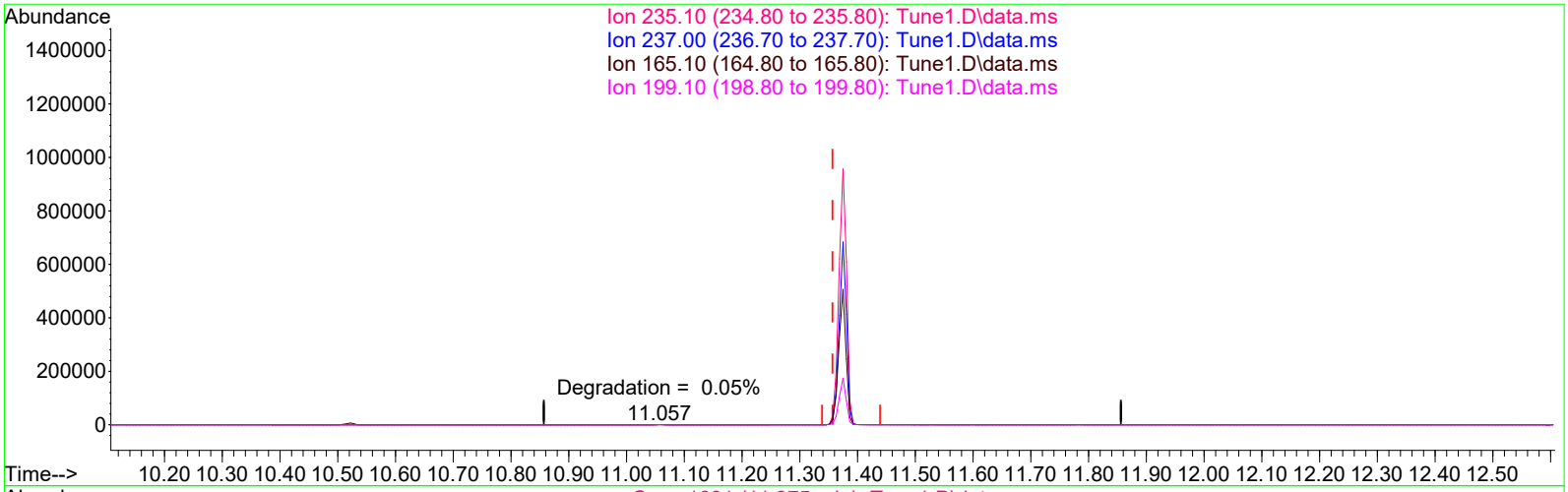
Spectrum Information: Average of 9.528 to 9.540 min.

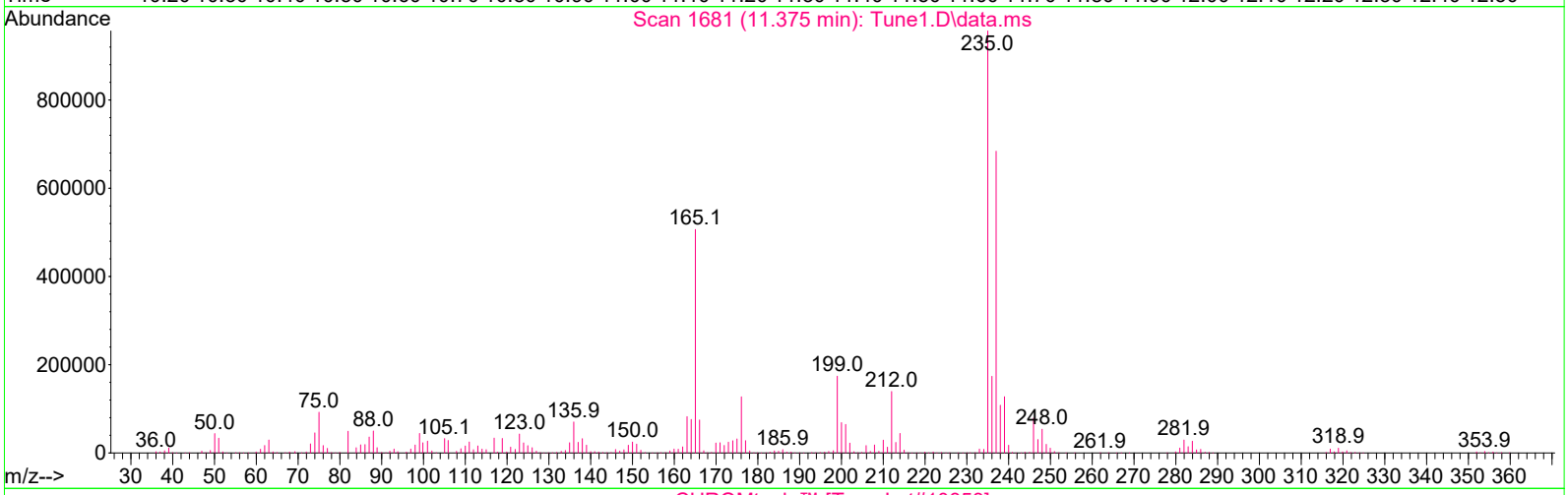
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.4	107589	PASS
68	69	0.00	2	1.7	1867	PASS
69	69	100	100	100.0	108645	PASS
70	69	0.00	2	0.5	539	PASS
127	198	10	80	44.6	139515	PASS
197	198	0.00	2	0.7	2272	PASS
198	198	100	100	100.0	313131	PASS
199	198	5	9	7.0	22069	PASS
275	198	10	60	28.2	88349	PASS
365	198	1	100	3.4	10597	PASS
441	442	0.01	24	17.5	40525	PASS
442	198	50	100	74.0	231659	PASS
443	442	15	24	20.0	46224	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune1.D
Acq On : 25 Jun 2024 07:55 pm
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:45:59 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(6) DDT (T)

11.375min (+ 0.018) 145.99

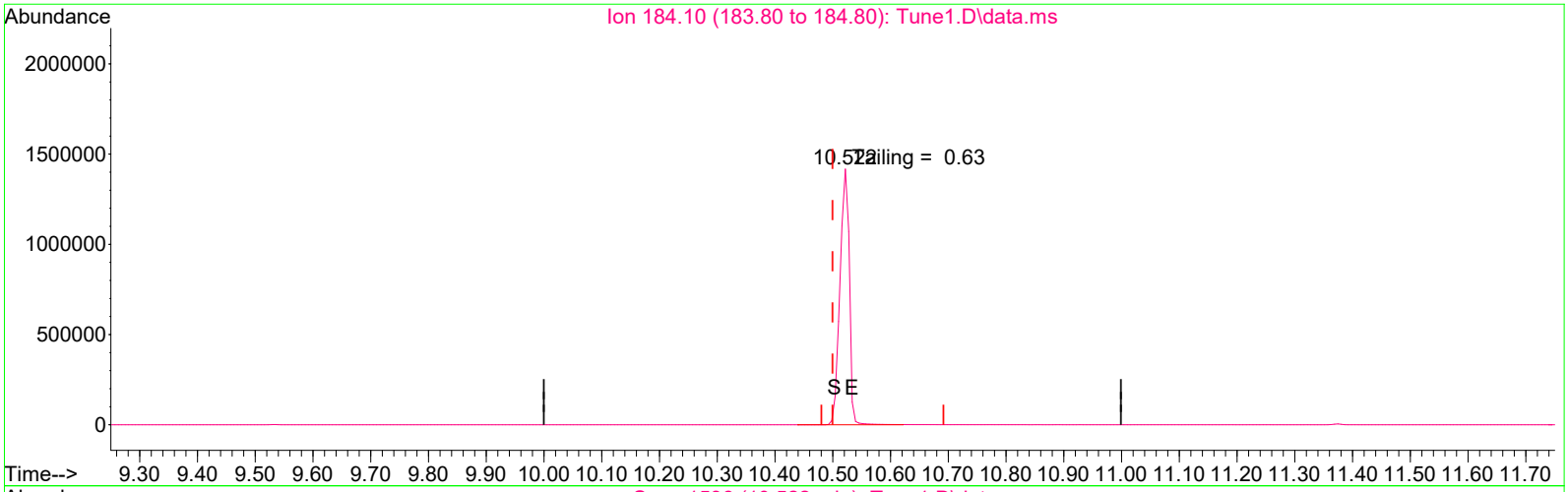
response 889919

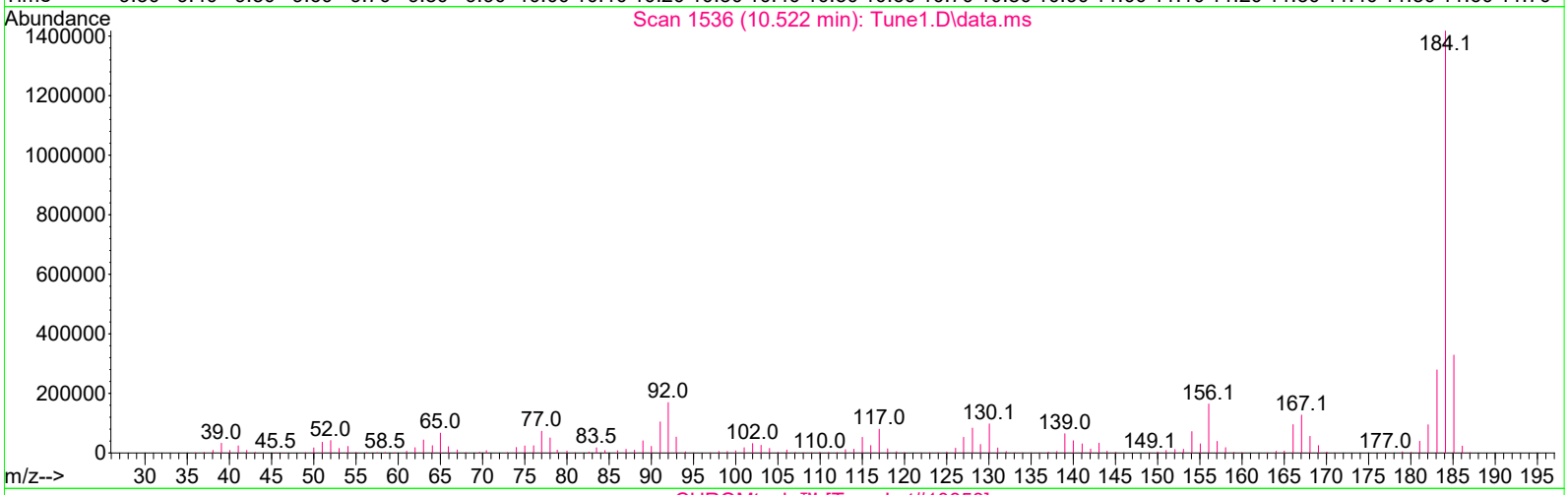
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	68.37
165.10	42.20	49.70
199.10	13.70	16.82

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune1.D
Acq On : 25 Jun 2024 07:55 pm
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:45:59 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(3) Benzidine (T)

10.522min (+ 0.022) 157.43

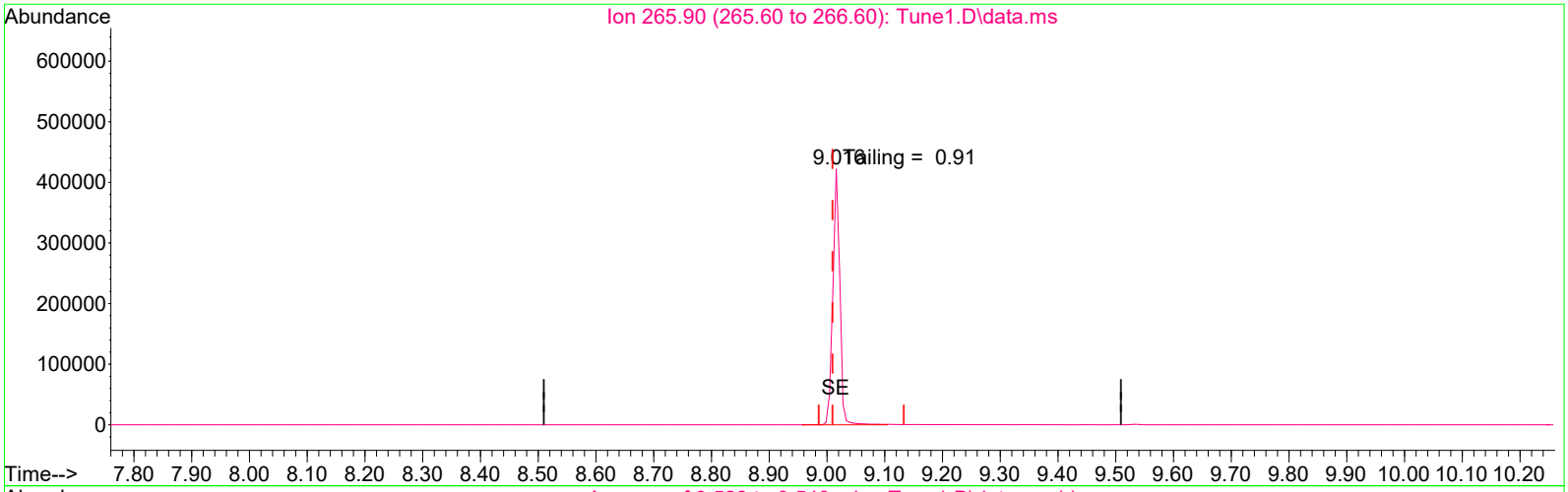
response 1602665

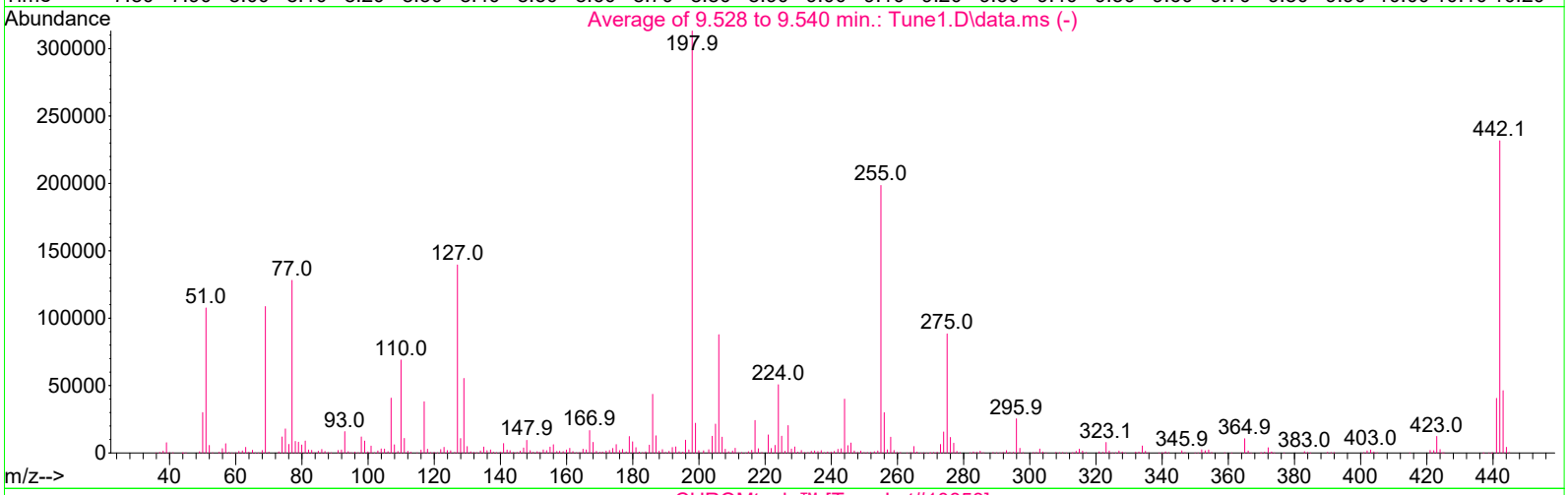
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune1.D
Acq On : 25 Jun 2024 07:55 pm
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:45:59 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(1) Pentachlorophenol (T)

9.016min (+ 0.006) 169.73

response 356498

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Duplicate Retention Times

(5) DDD 235.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL9.D
Acq On : 25 Jun 2024 08:18 pm
Operator : SV112:mrg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 14:02:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	23708	4.000 ug/ml	# 0.00
Standard Area 1 = 21265			Recovery = 111.49%		
35) IS1_Naphthalene-d8	6.046	136	94057	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 115.12%		
63) IS1_Acenaphthene-d10	7.752	164	61295	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 124.61%		
88) IS1_Phenanthrene-d10	9.181	188	128794	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 124.01%		
104) IS1_Chrysene-d12	11.834	240	145276	4.000 ug/ml	# 0.01
Standard Area 1 = 111228			Recovery = 130.61%		
113) IS1_Perylene-d12	13.304	264	150213	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 114.32%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	310628	49.898 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2494.90%#		
7) Phenol-d6	4.487	99	410892	51.106 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2555.30%#		
19) Nitrobenzene-d5	5.346	82	400136	52.175 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5217.50%#		
46) 2-Fluorobiphenyl	7.110	172	951461	44.737 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4473.70%#		
79) 2,4,6-Tribromophenol	8.516	330	220777	61.071 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3053.55%#		
96) 4-Terphenyl-d14	10.763	244	1399064	42.234 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4223.40%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.158	74	197238	50.642 ug/ml	97
3) Pyridine	2.187	79	316483	51.217 ug/ml	84
5) Aniline	4.487	93	531545	49.526 ug/ml#	48
6) 2-Chlorophenol	4.605	128	368119	49.662 ug/ml	96
8) Phenol	4.499	94	466545	49.917 ug/ml#	44
9) Bis(2-chloroethyl)ether	4.569	93	330552	47.780 ug/ml	96
10) 1,3-Dichlorobenzene	4.752	146	425498	47.593 ug/ml	97
11) 1,4-Dichlorobenzene	4.822	146	430635	46.143 ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	428672	49.023 ug/ml	96
13) Benzyl alcohol	4.958	79	308011	55.012 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.093	45	434355	49.697 ug/ml#	53

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL9.D
Acq On : 25 Jun 2024 08:18 pm
Operator : SV112:mrg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 14:02:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	331313	52.912	ug/ml	98
16) Hexachloroethane	5.299	117	173998	52.641	ug/ml#	67
17) n-Nitrosodi-n-propylamine	5.228	70	278423	54.294	ug/ml	100
18) 3-Methylphenol/4-Methy...	5.240	108	366732	53.785	ug/ml	98
20) Nitrobenzene	5.369	77	397558	52.020	ug/ml	98
21) Isophorone	5.610	82	714103	51.753	ug/ml	96
22) 2-Nitrophenol	5.681	139	197090	57.903	ug/ml	96
23) 2,4-Dimethylphenol	5.752	107	357001	54.697	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.840	93	470425	50.649	ug/ml	97
25) 2,4-Dichlorophenol	5.922	162	380910	55.749	ug/ml	94
26) 1,2,4-Trichlorobenzene	5.999	180	427420	49.395	ug/ml	97
36) Naphthalene	6.063	128	1044031	42.342	ug/ml#	92
37) Benzoic Acid	5.910	105	294521	52.720	ug/ml	97
38) 4-Chloroaniline	6.128	65	151590	54.707	ug/ml	97
39) Hexachlorobutadiene	6.210	225	289606	50.112	ug/ml	98
40) p-Chloro-m-cresol	6.622	107	355399	54.588	ug/ml	93
41) 2-Methylnaphthalene	6.740	142	787243	46.948	ug/ml	96
42) 1-Methylnaphthalene	6.834	115	285956	49.582	ug/ml	94
43) Hexachlorocyclopentadiene	6.910	237	327740	55.561	ug/ml	99
44) 2,4,6-Trichlorophenol	7.028	196	330658	54.830	ug/ml	99
45) 2,4,5-Trichlorophenol	7.057	196	354106	57.390	ug/ml	99
47) 2-Chloronaphthalene	7.210	162	821632	46.065	ug/ml	95
48) 2-Nitroaniline	7.322	138	276153	58.593	ug/ml	93
49) 1,4-Dinitrobenzene	7.452	168	146630	63.425	ug/ml	83
50) 1,3-Dinitrobenzene	7.528	168	172762	64.450	ug/ml	82
51) Dimethyl phthalate	7.528	163	974978	44.937	ug/ml#	95
52) Acenaphthylene	7.610	152	1188835	45.150	ug/ml#	89
53) 2,6-Dinitrotoluene	7.569	165	233918	57.642	ug/ml	92
54) 1,2-Dinitrobenzene	7.616	168	106780	68.592	ug/ml#	1
64) 3-Nitroaniline	7.722	138	258315	56.419	ug/ml	92
65) Acenaphthene	7.781	154	788708	46.174	ug/ml	97
66) 2,4-Dinitrophenol	7.822	184	149405	49.564	ug/ml#	84
67) Dibenzofuran	7.952	168	1181251	41.960	ug/ml	97
68) 2,4-Dinitrotoluene	7.957	165	358412	61.016	ug/ml	88
69) 4-Nitrophenol	7.322	65	238463	53.752	ug/ml#	11
70) 2,3,5,6-Tetrachlorophenol	8.040	232	332419	57.606	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.081	232	325008	57.329	ug/ml	99
72) Diethyl phthalate	8.216	149	1042470	45.763	ug/ml#	92
73) Fluorene	8.281	166	1008800	46.015	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.299	204	567955	47.539	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL9.D
Acq On : 25 Jun 2024 08:18 pm
Operator : SV112:mrg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 14:02:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.322	138	263319	54.666	ug/ml	98
76)	4,6-Dinitro-o-cresol	8.352	198	201559	51.288	ug/ml#	74
77)	NDPA/DPA	8.416	169	879551	46.640	ug/ml	89
78)	Azobenzene	8.452	77	934596	46.731	ug/ml#	91
80)	4-Bromophenyl phenyl e...	8.769	248	375483	49.055	ug/ml#	83
81)	Hexachlorobenzene	8.822	284	453546	47.160	ug/ml#	86
82)	Pentachlorophenol	9.016	266	299901	68.944	ug/ml	99
89)	Phenanthrene	9.204	178	1368984	40.184	ug/ml#	86
90)	Anthracene	9.257	178	1410608	42.318	ug/ml#	86
91)	Carbazole	9.422	167	1331588	43.628	ug/ml#	88
92)	Di-n-butylphthalate	9.804	149	1465236	44.009	ug/ml#	90
93)	Fluoranthene	10.363	202	1581098	39.994	ug/ml#	91
94)	Benzidine	10.516	184	1129713	51.974	ug/ml	96
95)	Pyrene	10.581	202	1648954	39.352	ug/ml#	82
97)	Butyl benzyl phthalate	11.287	149	842924	57.220	ug/ml#	97
105)	Benzo(a)anthracene	11.828	228	1878103	40.261	ug/ml#	82
106)	3,3'-Dichlorobenzidine	11.822	252	902789	53.129	ug/ml#	94
107)	Chrysene	11.869	228	1652363	36.131	ug/ml#	81
108)	Bis(2-ethylhexyl)phtha...	11.928	149	1229491	53.003	ug/ml#	89
109)	Di-n-octylphthalate	12.610	149	1768108	49.738	ug/ml#	95
110)	Benzo(b)fluoranthene	12.945	252	2026755	42.361	ug/ml#	91
111)	Benzo(k)fluoranthene	12.975	252	1600001M3	36.638	ug/ml	
112)	Benzo(a)pyrene	13.257	252	1735579	41.576	ug/ml#	91
114)	Indeno(1,2,3-cd)pyrene	14.322	276	2226872M6	53.020	ug/mL	
115)	Dibenzo(a,h)anthracene	14.345	278	1928257	48.074	ug/ml#	90
116)	Benzo(ghi)perylene	14.592	276	1880012	46.449	ug/ml#	92

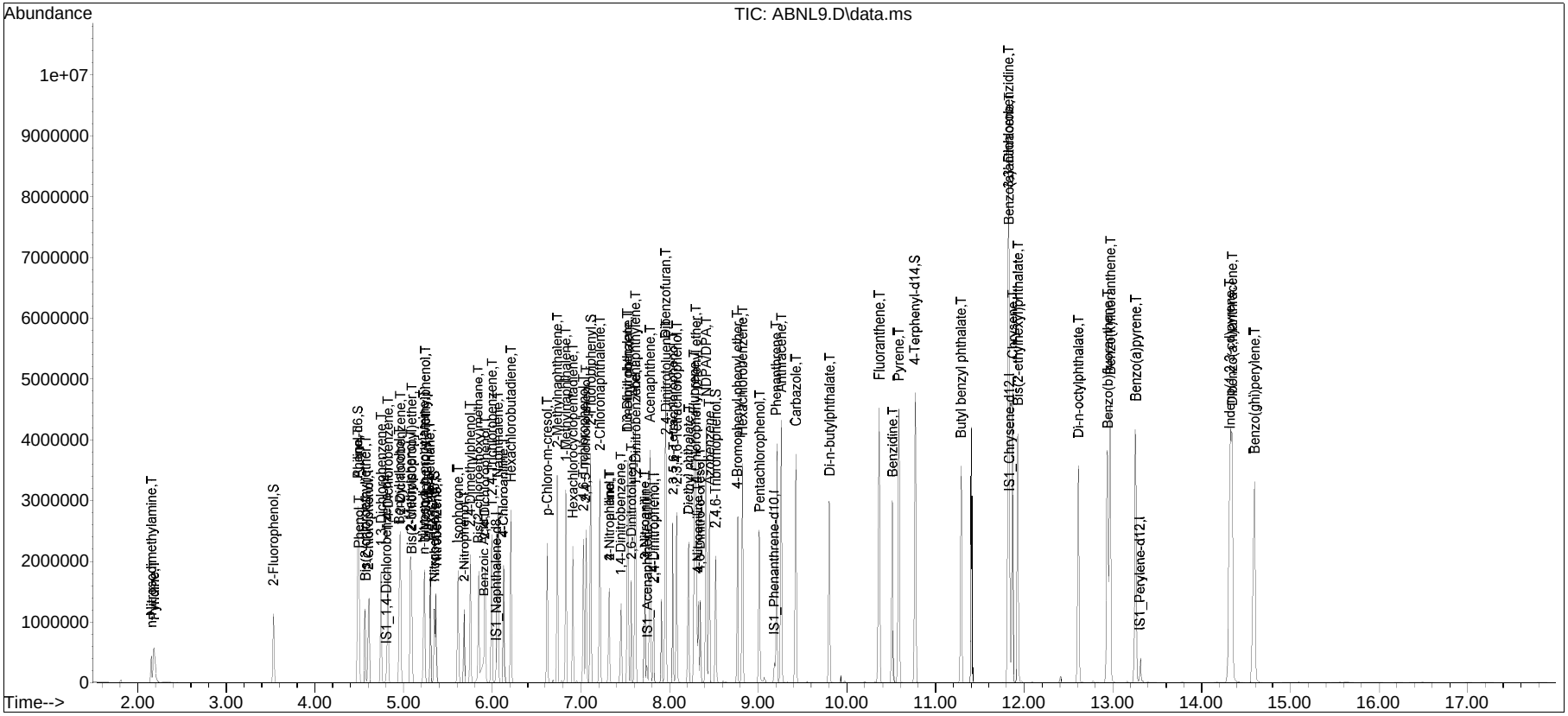
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL9.D
Acq On : 25 Jun 2024 08:18 pm
Operator : SV112:mrg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 14:02:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

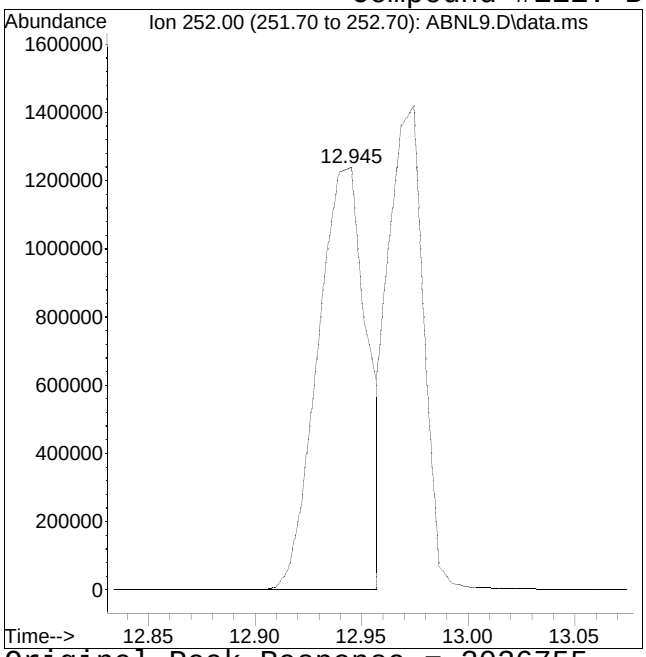
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

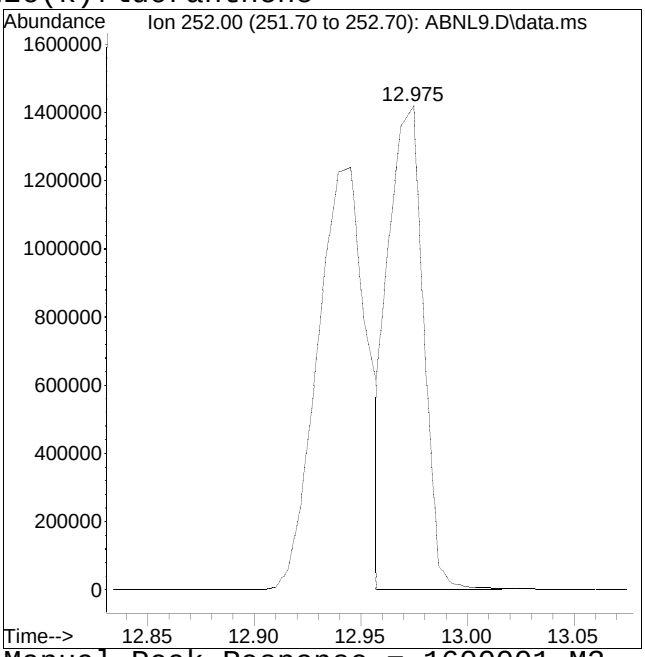


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL9.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:18 pm Instrument : SV112
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



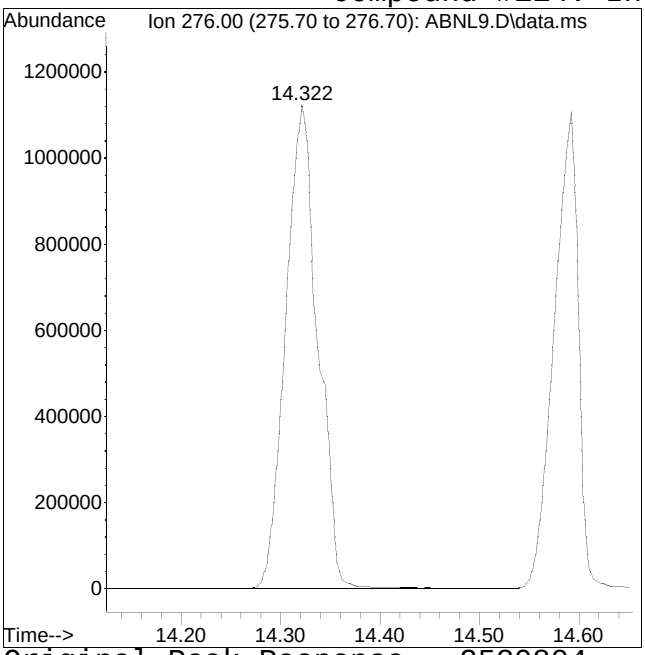


Original Peak Response = 2026755 Manual Peak Response = 1600001 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

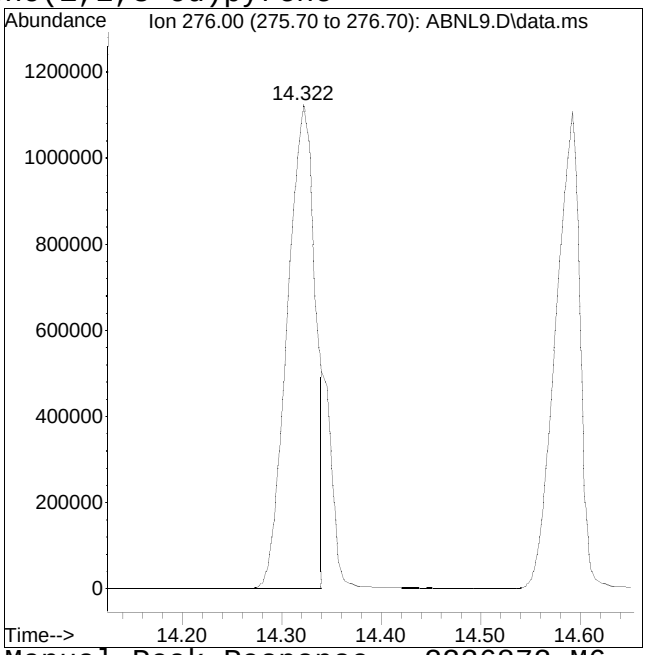
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL9.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:18 pm Instrument : SV112
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2530804



Manual Peak Response = 2226872 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL8.D
Acq On : 25 Jun 2024 08:41 pm
Operator : SV112:mrg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 14:02:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	23361	4.000 ug/ml	# 0.00
Standard Area 1 = 21265			Recovery = 109.86%		
35) IS1_Naphthalene-d8	6.040	136	89632	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 109.70%		
63) IS1_Acenaphthene-d10	7.746	164	57238	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 116.36%		
88) IS1_Phenanthrene-d10	9.181	188	127467	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 122.73%		
104) IS1_Chrysene-d12	11.828	240	141623	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 127.33%		
113) IS1_Perylene-d12	13.298	264	152512	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 116.07%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	154909	25.253 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1262.65%#		
7) Phenol-d6	4.481	99	198121	25.008 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1250.40%#		
19) Nitrobenzene-d5	5.346	82	192079	25.418 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2541.80%#		
46) 2-Fluorobiphenyl	7.110	172	473165	23.346 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2334.60%#		
79) 2,4,6-Tribromophenol	8.510	330	99010	29.329 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1466.45%#		
96) 4-Terphenyl-d14	10.763	244	779402	23.773 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2377.30%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.152	74	100835	26.275 ug/ml#	96
3) Pyridine	2.187	79	169913	27.906 ug/ml	84
5) Aniline	4.487	93	261313	24.709 ug/ml#	49
6) 2-Chlorophenol	4.599	128	178547	24.445 ug/ml	96
8) Phenol	4.493	94	227310	24.682 ug/ml#	45
9) Bis(2-chloroethyl)ether	4.563	93	162747	23.874 ug/ml	97
10) 1,3-Dichlorobenzene	4.746	146	207980	23.609 ug/ml	97
11) 1,4-Dichlorobenzene	4.822	146	209957	22.831 ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	204963	23.788 ug/ml	96
13) Benzyl alcohol	4.952	79	147370	26.712 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.093	45	213410	24.780 ug/ml#	58

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL8.D
Acq On : 25 Jun 2024 08:41 pm
Operator : SV112:mrg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 14:02:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	156869	25.425	ug/ml	97
16) Hexachloroethane	5.299	117	80365	24.675	ug/ml#	66
17) n-Nitrosodi-n-propylamine	5.222	70	130659	25.858	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.234	108	172439	25.666	ug/ml	97
20) Nitrobenzene	5.363	77	191658	25.451	ug/ml	100
21) Isophorone	5.605	82	350263	25.762	ug/ml	98
22) 2-Nitrophenol	5.675	139	93862	27.985	ug/ml	96
23) 2,4-Dimethylphenol	5.746	107	167321	26.017	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	223575	24.429	ug/ml	98
25) 2,4-Dichlorophenol	5.916	162	177771	26.405	ug/ml	94
26) 1,2,4-Trichlorobenzene	5.993	180	200491	23.514	ug/ml	96
36) Naphthalene	6.063	128	540920	23.021	ug/ml	97
37) Benzoic Acid	5.869	105	135966	25.649	ug/ml	98
38) 4-Chloroaniline	6.128	65	71436	27.053	ug/ml	96
39) Hexachlorobutadiene	6.210	225	132422	24.045	ug/ml	99
40) p-Chloro-m-cresol	6.616	107	167398	26.981	ug/ml	93
41) 2-Methylnaphthalene	6.740	142	382577	23.942	ug/ml	97
42) 1-Methylnaphthalene	6.834	115	131664	23.956	ug/ml	98
43) Hexachlorocyclopentadiene	6.910	237	146351	26.035	ug/ml	100
44) 2,4,6-Trichlorophenol	7.022	196	154290	26.847	ug/ml	99
45) 2,4,5-Trichlorophenol	7.052	196	160980M3	27.378	ug/ml	
47) 2-Chloronaphthalene	7.205	162	401390	23.615	ug/ml	94
48) 2-Nitroaniline	7.316	138	129369	28.804	ug/ml	93
49) 1,4-Dinitrobenzene	7.446	168	68409	31.051	ug/ml	84
50) 1,3-Dinitrobenzene	7.522	168	77473	30.329	ug/ml	87
51) Dimethyl phthalate	7.516	163	496005	23.990	ug/ml	98
52) Acenaphthylene	7.604	152	624802	24.900	ug/ml	95
53) 2,6-Dinitrotoluene	7.563	165	109328	28.271	ug/ml	91
54) 1,2-Dinitrobenzene	7.604	168	49511	33.374	ug/ml#	1
64) 3-Nitroaniline	7.716	138	120173	28.108	ug/ml	94
65) Acenaphthene	7.781	154	376895	23.629	ug/ml	97
66) 2,4-Dinitrophenol	7.816	184	68455	26.120	ug/ml#	83
67) Dibenzofuran	7.946	168	607351	23.103	ug/ml	96
68) 2,4-Dinitrotoluene	7.946	165	164108	29.918	ug/ml	88
69) 4-Nitrophenol	7.316	65	111882	27.007	ug/ml#	11
70) 2,3,5,6-Tetrachlorophenol	8.034	232	153668	28.517	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.075	232	150622	28.452	ug/ml	99
72) Diethyl phthalate	8.210	149	512861	24.110	ug/ml	95
73) Fluorene	8.281	166	495678	24.212	ug/ml	97
74) 4-Chlorophenyl phenyl ...	8.293	204	264737	23.729	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL8.D
Acq On : 25 Jun 2024 08:41 pm
Operator : SV112:mrg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 14:02:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.310	138	131636	29.265	ug/ml	96
76)	4,6-Dinitro-o-cresol	8.340	198	93202	25.514	ug/ml#	75
77)	NDPA/DPA	8.410	169	431193	24.486	ug/ml	92
78)	Azobenzene	8.446	77	463782	24.834	ug/ml#	93
80)	4-Bromophenyl phenyl e...	8.763	248	173402M3	24.260	ug/ml	
81)	Hexachlorobenzene	8.816	284	205275	22.857	ug/ml#	86
82)	Pentachlorophenol	9.010	266	137366	33.817	ug/ml	99
89)	Phenanthrene	9.204	178	754687	22.383	ug/ml	95
90)	Anthracene	9.251	178	773477	23.446	ug/ml	94
91)	Carbazole	9.416	167	720325	23.847	ug/ml	94
92)	Di-n-butylphthalate	9.799	149	849485	25.781	ug/ml	97
93)	Fluoranthene	10.357	202	913651	23.352	ug/ml	94
94)	Benzidine	10.510	184	605842	28.163	ug/ml	97
95)	Pyrene	10.575	202	963293	23.228	ug/ml	93
97)	Butyl benzyl phthalate	11.287	149	426248	29.236	ug/ml#	95
105)	Benzo(a)anthracene	11.822	228	1064604	23.410	ug/ml	92
106)	3,3'-Dichlorobenzidine	11.816	252	453219	27.360	ug/ml#	95
107)	Chrysene	11.857	228	965858	21.664	ug/ml	92
108)	Bis(2-ethylhexyl)phtha...	11.922	149	666575	29.477	ug/ml#	95
109)	Di-n-octylphthalate	12.604	149	1042242	30.075	ug/ml	99
110)	Benzo(b)fluoranthene	12.934	252	1029857	22.080	ug/ml	95
111)	Benzo(k)fluoranthene	12.963	252	1039846M3	24.425	ug/ml	
112)	Benzo(a)pyrene	13.251	252	980731	24.100	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	14.310	276	1154840M6	27.081	ug/mL	
115)	Dibenzo(a,h)anthracene	14.334	278	1057237	25.961	ug/ml#	92
116)	Benzo(ghi)perylene	14.581	276	999904	24.332	ug/ml	93

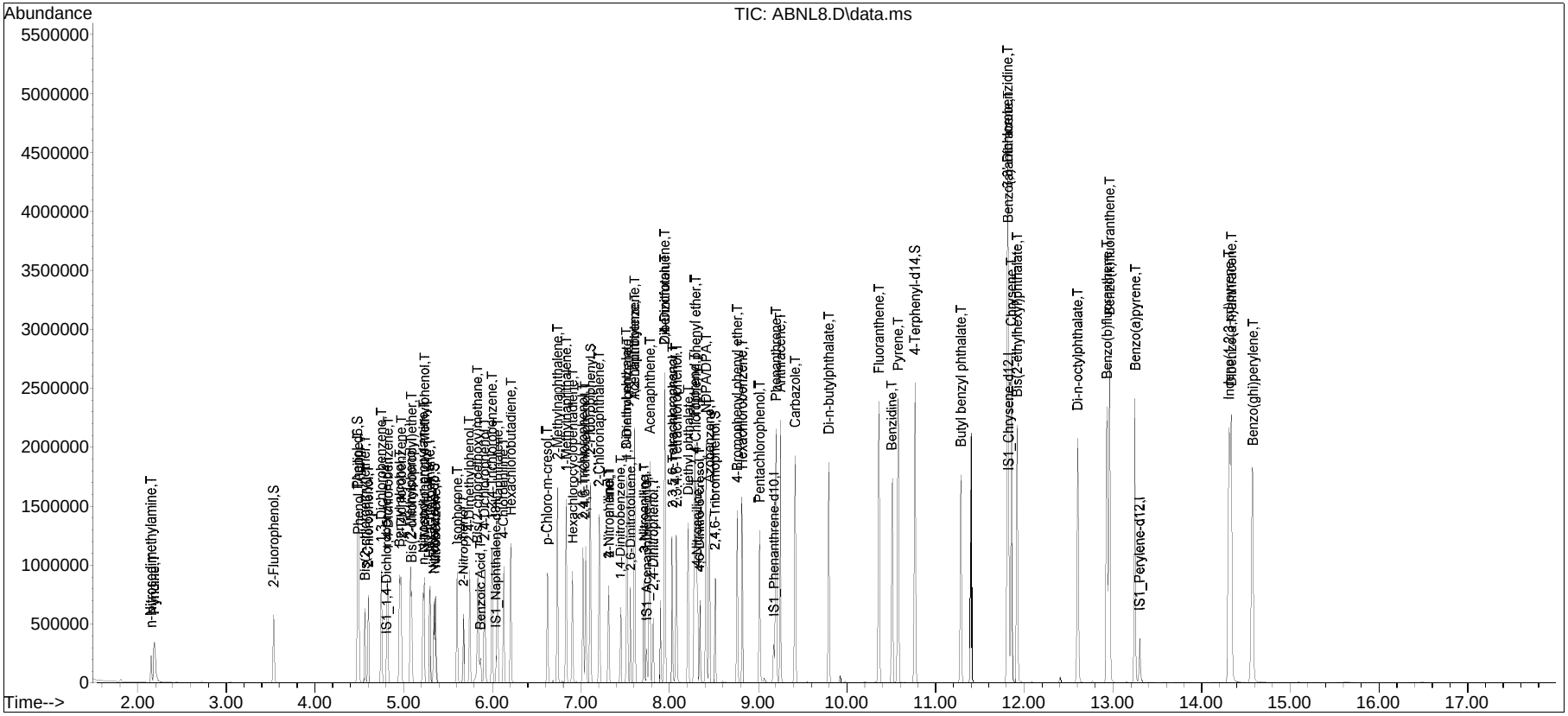
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL8.D
Acq On : 25 Jun 2024 08:41 pm
Operator : SV112:mrg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 14:02:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

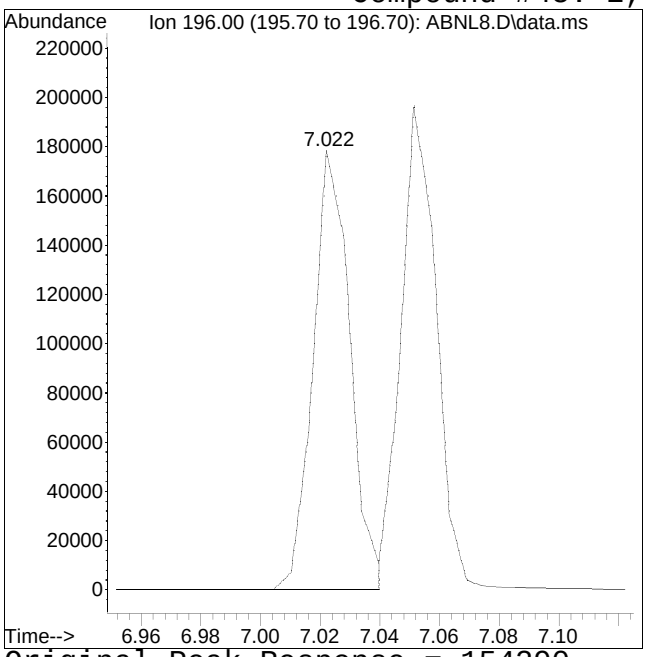
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

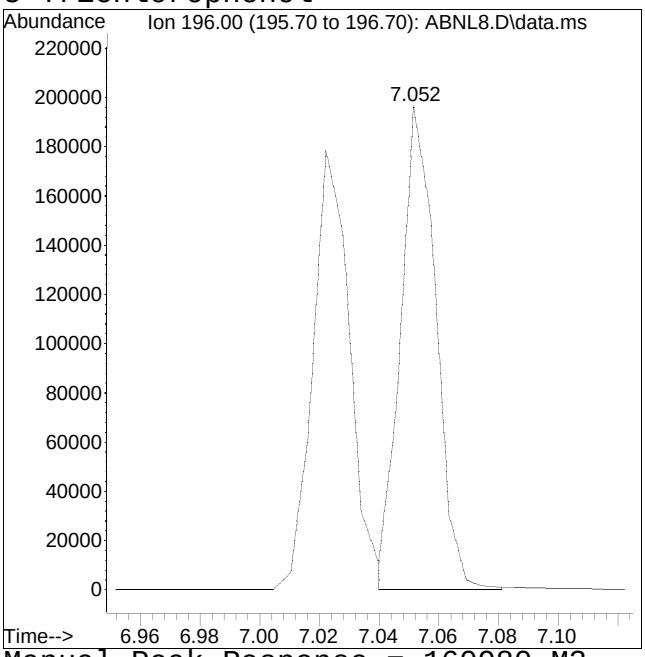


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL8.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:41 pm Instrument : SV112
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





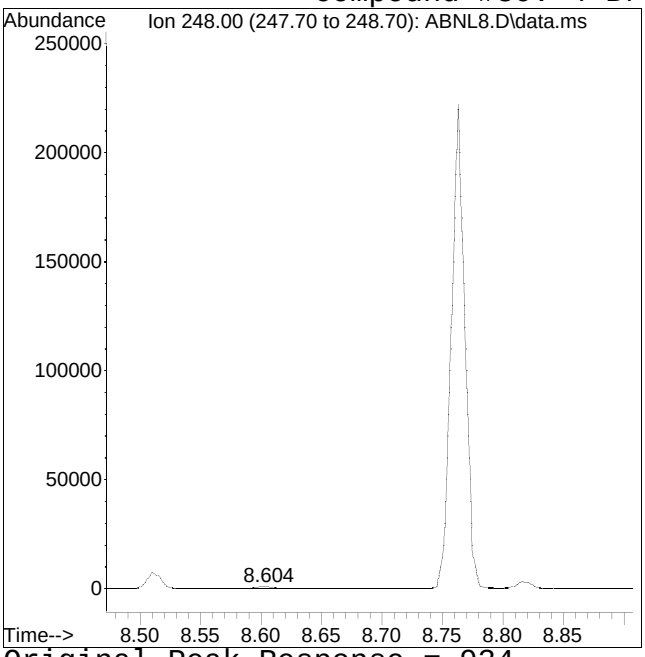
Original Peak Response = 154290 Manual Peak Response = 160980 M3

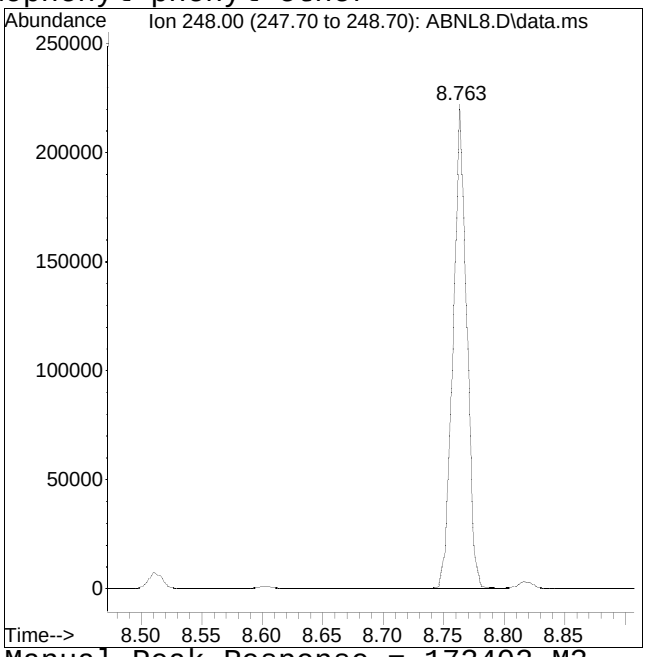
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL8.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:41 pm Instrument : SV112
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/30/2024 2:02 pm

Compound #80: 4-Bromophenyl phenyl ether





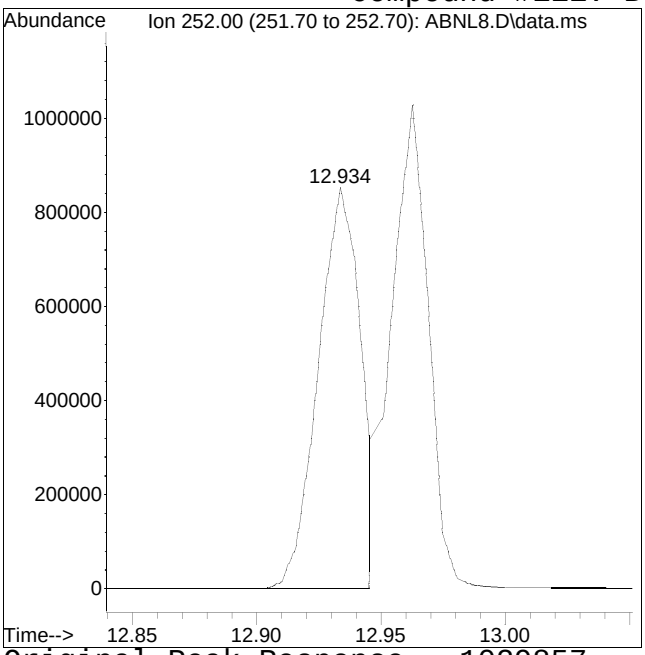
Original Peak Response = 934 Manual Peak Response = 173402 M3

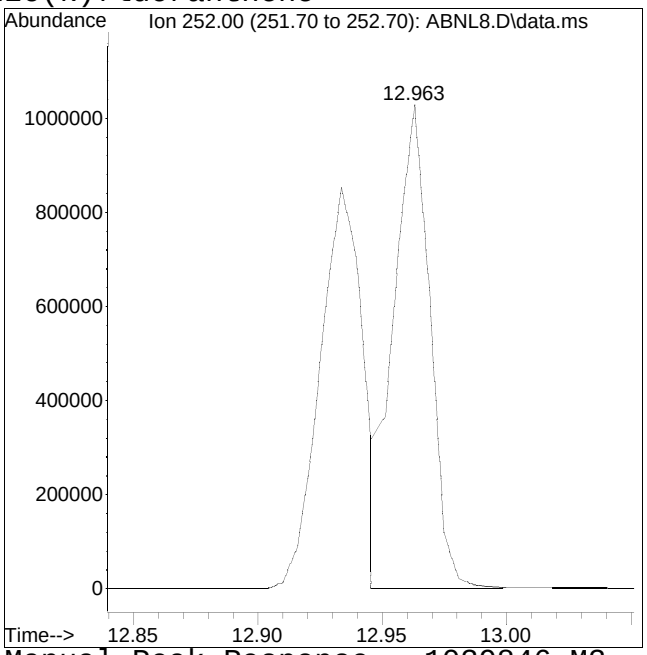
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL8.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:41 pm Instrument : SV112
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



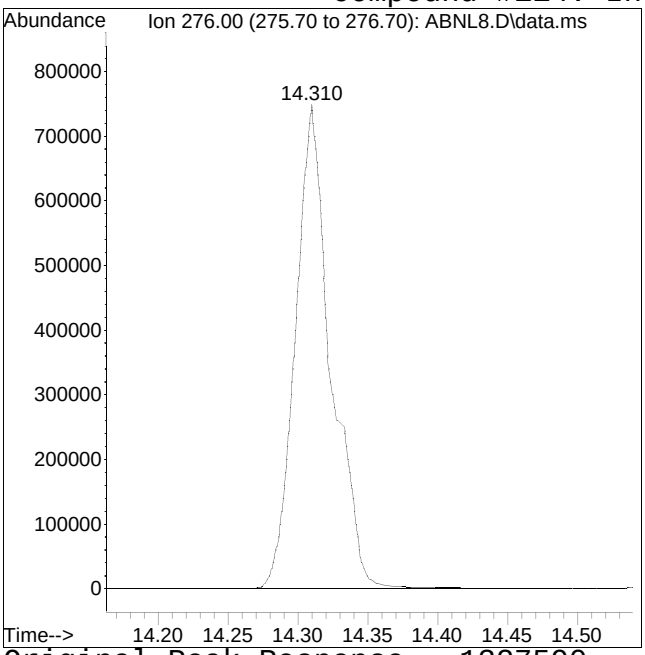


Original Peak Response = 1029857 Manual Peak Response = 1039846 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

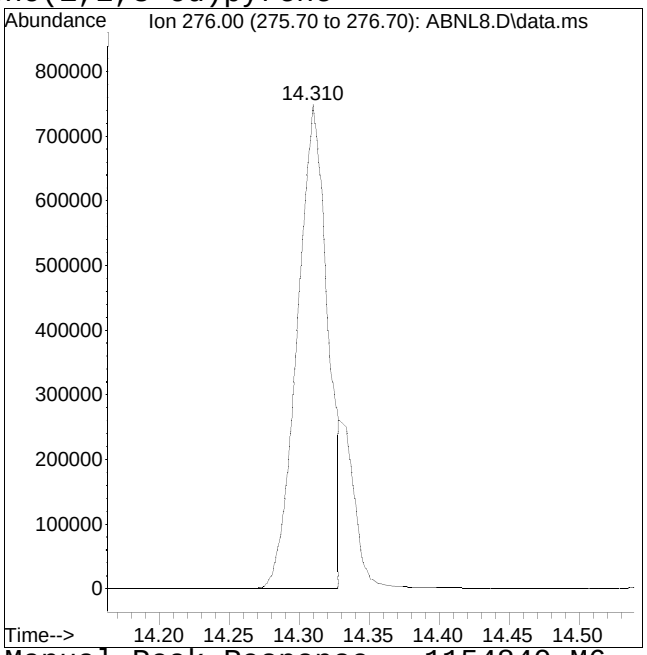
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL8.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:41 pm Instrument : SV112
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1327590



Manual Peak Response = 1154840 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL7.D
Acq On : 25 Jun 2024 09:04 pm
Operator : SV112:mrg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939943
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 14:01:51 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	21476	4.000 ug/ml	# 0.00
Standard Area 1 = 21265			Recovery = 100.99%		
35) IS1_Naphthalene-d8	6.040	136	80743	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 98.82%		
63) IS1_Acenaphthene-d10	7.746	164	50162	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 101.98%		
88) IS1_Phenanthrene-d10	9.175	188	105182	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 101.27%		
104) IS1_Chrysene-d12	11.828	240	116399	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 104.65%		
113) IS1_Perylene-d12	13.298	264	135461	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 103.09%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	59729	10.592 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 529.60%#		
7) Phenol-d6	4.481	99	75930	10.426 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 521.30%#		
19) Nitrobenzene-d5	5.346	82	72854	10.487 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1048.70%#		
46) 2-Fluorobiphenyl	7.110	172	175781	9.628 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 962.80%#		
79) 2,4,6-Tribromophenol	8.510	330	31976	10.808 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 540.40%#		
96) 4-Terphenyl-d14	10.757	244	269895	9.976 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 997.60%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.164	74	39574	11.217 ug/ml	97
3) Pyridine	2.205	79	65204	11.649 ug/ml	85
5) Aniline	4.487	93	99553	10.240 ug/ml#	50
6) 2-Chlorophenol	4.599	128	68421	10.190 ug/ml	96
8) Phenol	4.493	94	87347	10.317 ug/ml#	46
9) Bis(2-chloroethyl)ether	4.564	93	62434	9.963 ug/ml	97
10) 1,3-Dichlorobenzene	4.752	146	79579	9.826 ug/ml	98
11) 1,4-Dichlorobenzene	4.822	146	81378	9.626 ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	77634	9.801 ug/ml	96
13) Benzyl alcohol	4.952	79	54366	10.719 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.093	45	79023	9.981 ug/ml#	57

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL7.D
Acq On : 25 Jun 2024 09:04 pm
Operator : SV112:mrg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939943
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 14:01:51 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	59138	10.426	ug/ml	98
16) Hexachloroethane	5.299	117	29872	9.977	ug/ml#	65
17) n-Nitrosodi-n-propylamine	5.216	70	47976	10.328	ug/ml	98
18) 3-Methylphenol/4-Methy...	5.234	108	64683	10.472	ug/ml	96
20) Nitrobenzene	5.363	77	72400	10.458	ug/ml	99
21) Isophorone	5.599	82	129481	10.359	ug/ml	98
22) 2-Nitrophenol	5.675	139	32940	10.683	ug/ml	96
23) 2,4-Dimethylphenol	5.746	107	60962	10.311	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	83082	9.875	ug/ml	99
25) 2,4-Dichlorophenol	5.916	162	65466	10.577	ug/ml	95
26) 1,2,4-Trichlorobenzene	5.993	180	74135	9.458	ug/ml	95
36) Naphthalene	6.058	128	210448	9.942	ug/ml	99
37) Benzoic Acid	5.834	105	43865	9.322	ug/ml	99
38) 4-Chloroaniline	6.128	65	25347	10.656	ug/ml	91
39) Hexachlorobutadiene	6.210	225	48635	9.803	ug/ml	98
40) p-Chloro-m-cresol	6.616	107	59753	10.691	ug/ml	93
41) 2-Methylnaphthalene	6.740	142	141331	9.818	ug/ml	97
42) 1-Methylnaphthalene	6.834	115	47724	9.639	ug/ml	97
43) Hexachlorocyclopentadiene	6.910	237	51016	10.075	ug/ml	99
44) 2,4,6-Trichlorophenol	7.022	196	54964	10.617	ug/ml	99
45) 2,4,5-Trichlorophenol	7.052	196	56138M3	10.599	ug/ml	
47) 2-Chloronaphthalene	7.205	162	148455	9.696	ug/ml	94
48) 2-Nitroaniline	7.310	138	44168	10.917	ug/ml	94
49) 1,4-Dinitrobenzene	7.446	168	22377	11.275	ug/ml	88
50) 1,3-Dinitrobenzene	7.516	168	25446	11.058	ug/ml	89
51) Dimethyl phthalate	7.510	163	176799	9.492	ug/ml	99
52) Acenaphthylene	7.605	152	227136	10.049	ug/ml	98
53) 2,6-Dinitrotoluene	7.557	165	36452	10.464	ug/ml	94
54) 1,2-Dinitrobenzene	7.599	168	16118	12.061	ug/ml#	1
64) 3-Nitroaniline	7.710	138	42491	11.340	ug/ml	94
65) Acenaphthene	7.775	154	135917	9.723	ug/ml	97
66) 2,4-Dinitrophenol	7.810	184	21119	9.878	ug/ml#	85
67) Dibenzofuran	7.946	168	222891	9.675	ug/ml	93
68) 2,4-Dinitrotoluene	7.946	165	52394	10.899	ug/ml	91
69) 4-Nitrophenol	7.310	65	38608	10.634	ug/ml#	10
70) 2,3,5,6-Tetrachlorophenol	8.034	232	52121	11.037	ug/ml	100
71) 2,3,4,6-Tetrachlorophenol	8.075	232	50211	10.823	ug/ml	99
72) Diethyl phthalate	8.204	149	177146	9.502	ug/ml	97
73) Fluorene	8.275	166	174896	9.748	ug/ml	97
74) 4-Chlorophenyl phenyl ...	8.293	204	89679	9.172	ug/ml#	83

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL7.D
Acq On : 25 Jun 2024 09:04 pm
Operator : SV112:mrg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939943
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 14:01:51 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.299	138	45225	11.473	ug/ml	96
76)	4,6-Dinitro-o-cresol	8.334	198	29082	9.234	ug/ml#	78
77)	NDPA/DPA	8.404	169	152382	9.874	ug/ml	95
78)	Azobenzene	8.440	77	163681	10.001	ug/ml#	93
80)	4-Bromophenyl phenyl e...	8.763	248	57922	9.247	ug/ml#	82
81)	Hexachlorobenzene	8.816	284	69475	8.827	ug/ml#	86
82)	Pentachlorophenol	9.010	266	43211	12.138	ug/ml	99
89)	Phenanthrene	9.199	178	274753	9.875	ug/ml	98
90)	Anthracene	9.251	178	281146	10.328	ug/ml	98
91)	Carbazole	9.416	167	263327	10.564	ug/ml	97
92)	Di-n-butylphthalate	9.799	149	289191	10.636	ug/ml	99
93)	Fluoranthene	10.357	202	332906M3	10.311	ug/ml	
94)	Benzidine	10.504	184	209641	11.810	ug/ml#	97
95)	Pyrene	10.575	202	353575	10.332	ug/ml	98
97)	Butyl benzyl phthalate	11.281	149	129222	10.741	ug/ml	95
105)	Benzo(a)anthracene	11.816	228	383220	10.253	ug/ml	97
106)	3,3'-Dichlorobenzidine	11.810	252	152179	11.178	ug/ml#	97
107)	Chrysene	11.851	228	363469	9.919	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.922	149	204221	10.988	ug/ml#	99
109)	Di-n-octylphthalate	12.598	149	334815	11.755	ug/ml	97
110)	Benzo(b)fluoranthene	12.928	252	382689	9.983	ug/ml#	96
111)	Benzo(k)fluoranthene	12.957	252	400155M3	11.436	ug/ml	
112)	Benzo(a)pyrene	13.245	252	362257	10.831	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.304	276	393528M6	10.390	ug/mL	
115)	Dibenzo(a,h)anthracene	14.322	278	389820	10.777	ug/ml#	92
116)	Benzo(ghi)perylene	14.569	276	373879	10.243	ug/ml#	93

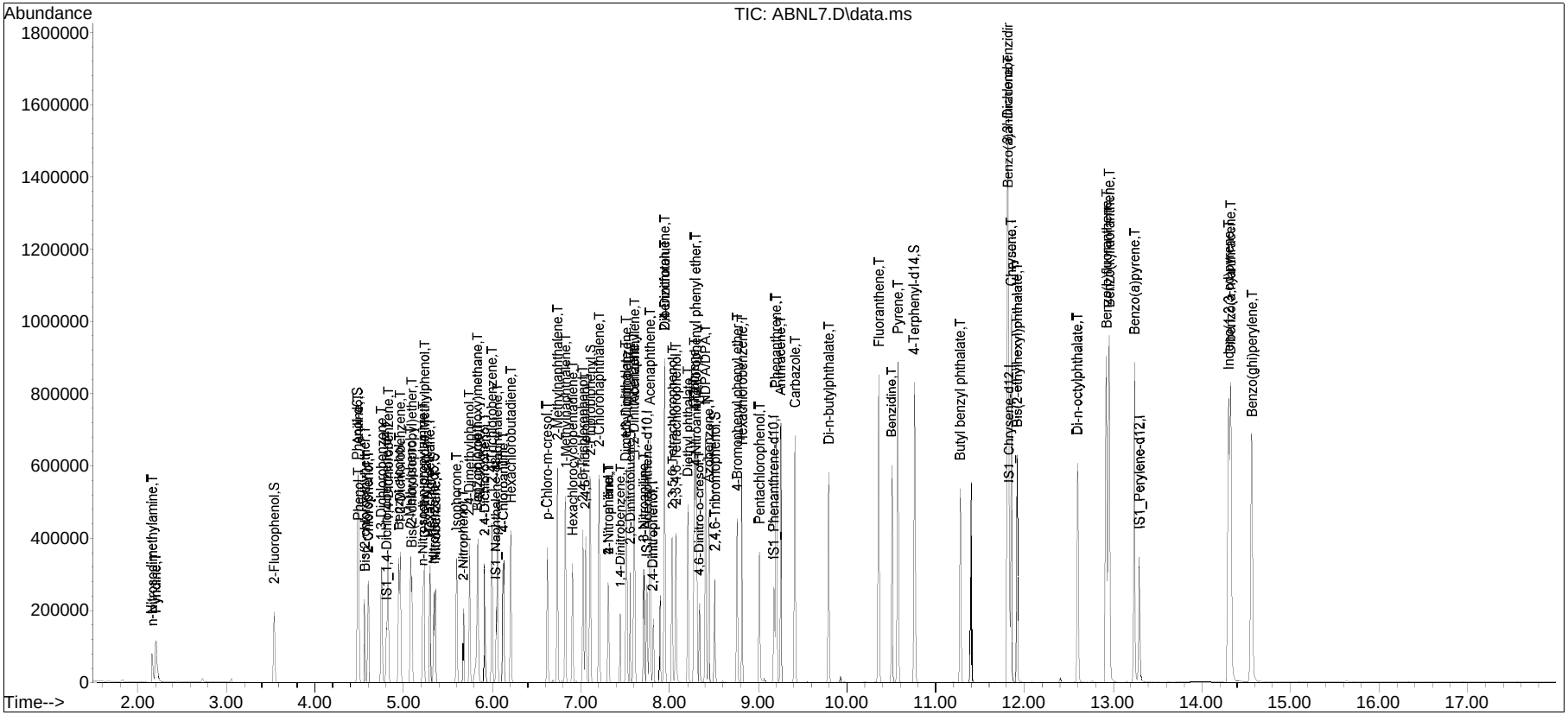
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL7.D
Acq On : 25 Jun 2024 09:04 pm
Operator : SV112:mrg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939943
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 14:01:51 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

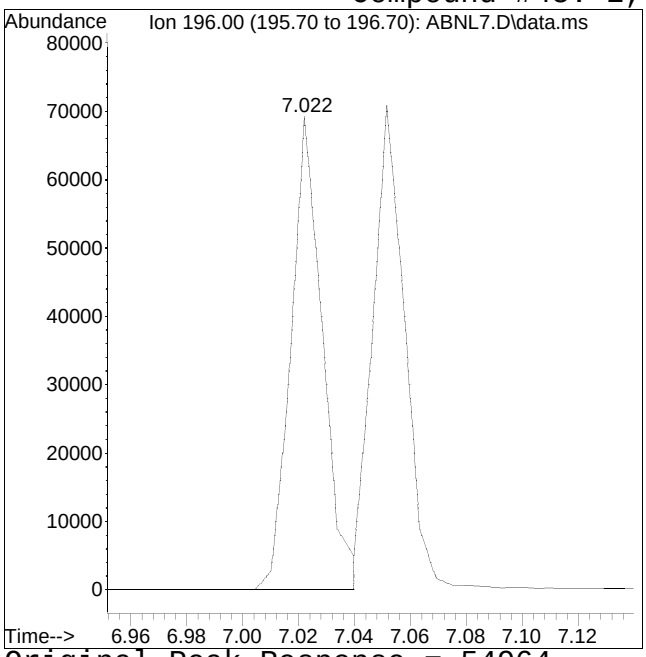
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

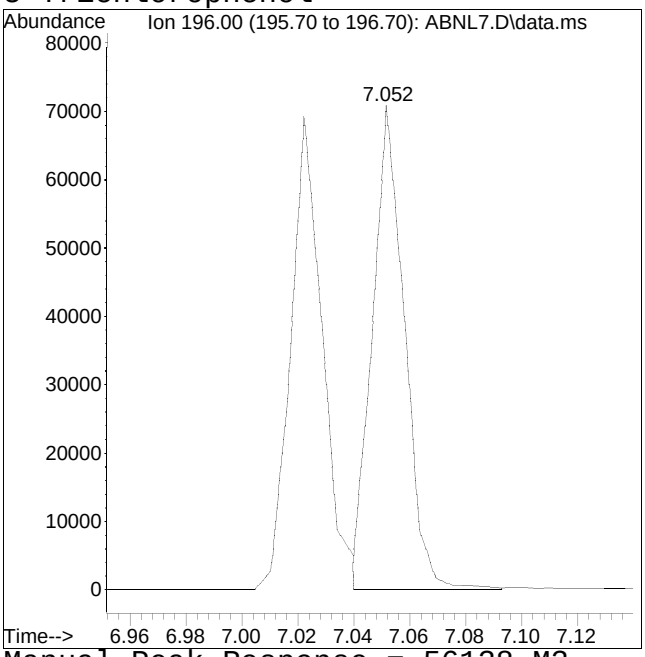


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL7.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:04 pm Instrument : SV112
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





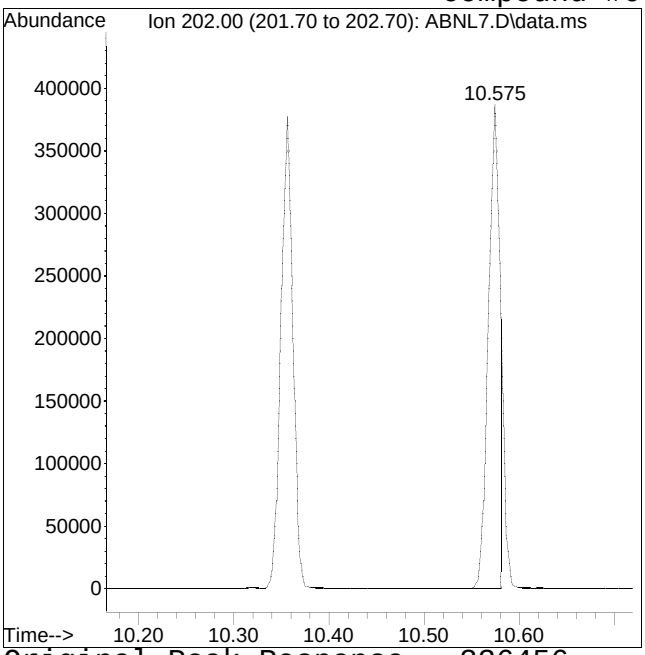
Original Peak Response = 54964 Manual Peak Response = 56138 M3

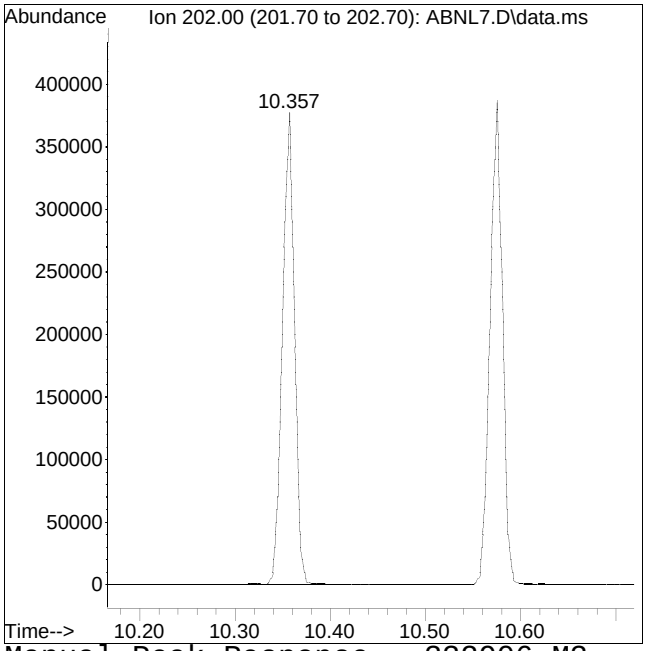
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL7.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:04 pm Instrument : SV112
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene





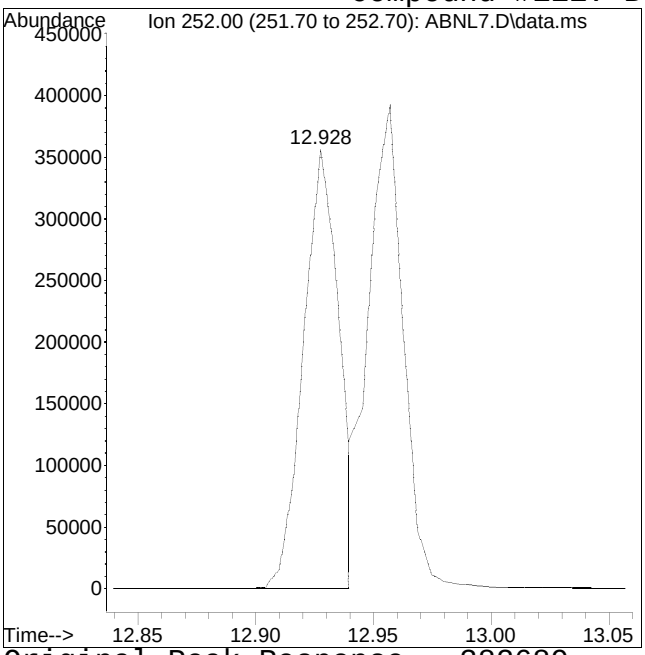
Original Peak Response = 336456 Manual Peak Response = 332906 M3

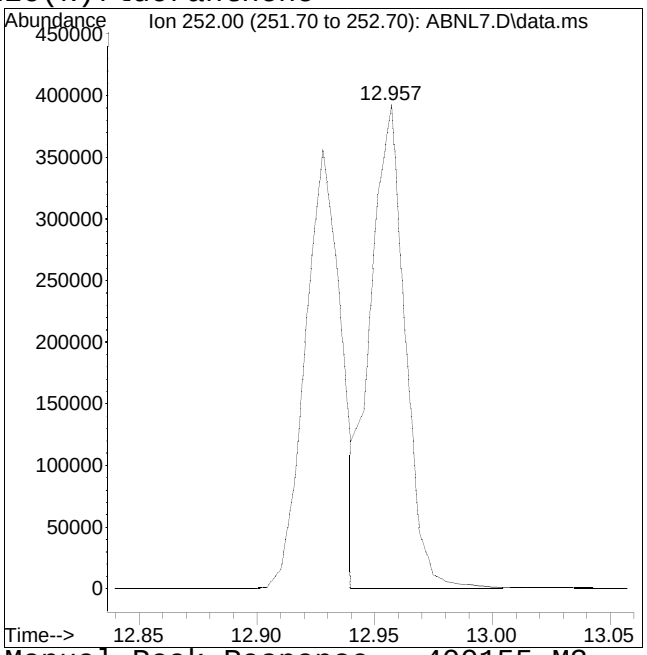
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL7.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:04 pm Instrument : SV112
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



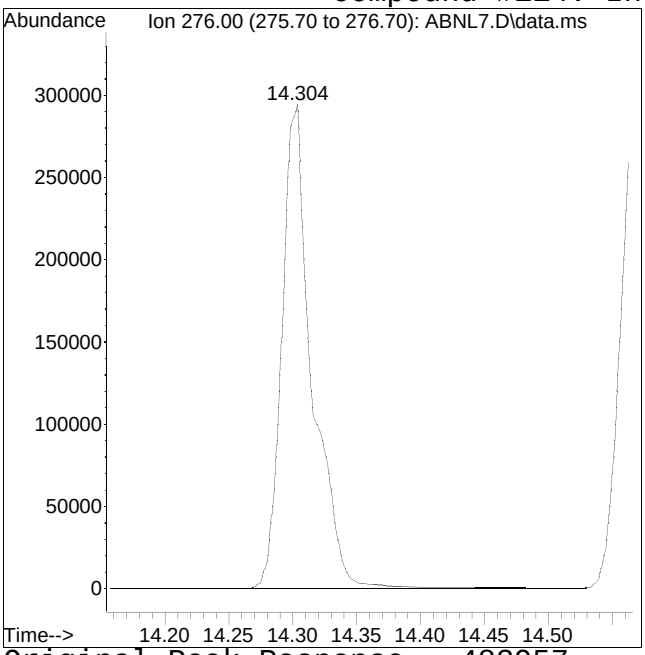


Original Peak Response = 382689 Manual Peak Response = 400155 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

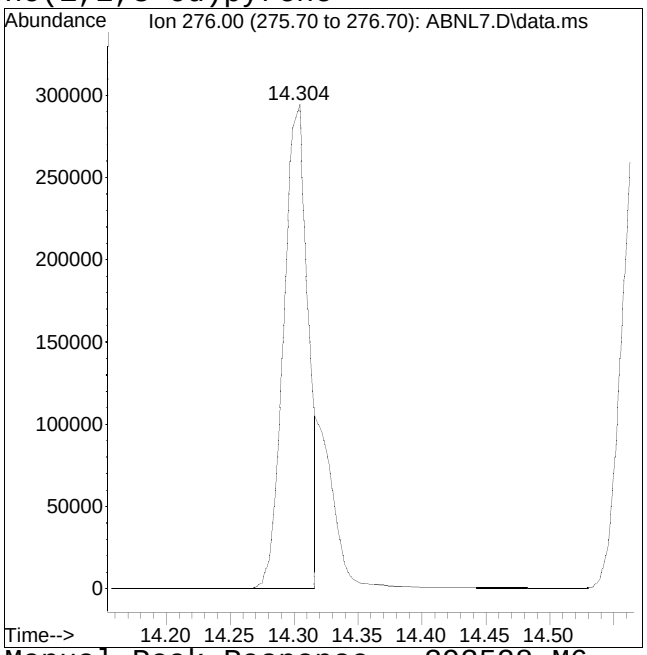
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL7.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:04 pm Instrument : SV112
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 483957



Manual Peak Response = 393528 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL6.D
Acq On : 25 Jun 2024 09:27 pm
Operator : SV112:mrg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939943
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 30 14:01:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	21265	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 100.00%		
35) IS1_Naphthalene-d8	6.040	136	81706	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 100.00%		
63) IS1_Acenaphthene-d10	7.746	164	49189	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 100.00%		
88) IS1_Phenanthrene-d10	9.175	188	103858	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 100.00%		
104) IS1_Chrysene-d12	11.822	240	111228	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 100.00%		
113) IS1_Perylene-d12	13.298	264	131396	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 100.00%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	28423	5.090 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 254.50%#		
7) Phenol-d6	4.481	99	36360	5.042 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 252.10%#		
19) Nitrobenzene-d5	5.346	82	34266	4.981 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 498.10%#		
46) 2-Fluorobiphenyl	7.104	172	83703	4.531 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 453.10%#		
79) 2,4,6-Tribromophenol	8.510	330	14492	4.995 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 249.75%#		
96) 4-Terphenyl-d14	10.757	244	124497	4.661 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 466.10%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.175	74	18995	5.437 ug/ml	95
3) Pyridine	2.211	79	31564	5.695 ug/ml	85
5) Aniline	4.487	93	46800	4.862 ug/ml#	49
6) 2-Chlorophenol	4.599	128	32542	4.894 ug/ml	96
8) Phenol	4.493	94	41620	4.965 ug/ml#	47
9) Bis(2-chloroethyl)ether	4.563	93	29770	4.798 ug/ml	96
10) 1,3-Dichlorobenzene	4.752	146	39529	4.929 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	39493	4.718 ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	37964	4.840 ug/ml	96
13) Benzyl alcohol	4.952	79	25194	5.017 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.093	45	37919	4.837 ug/ml#	59

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL6.D
Acq On : 25 Jun 2024 09:27 pm
Operator : SV112:mrg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939943
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 30 14:01:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	27940	4.975	ug/ml	98
16) Hexachloroethane	5.299	117	14415	4.862	ug/ml#	66
17) n-Nitrosodi-n-propylamine	5.216	70	22432	4.877	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.234	108	30998	5.068	ug/ml	98
20) Nitrobenzene	5.363	77	34247	4.996	ug/ml	97
21) Isophorone	5.599	82	60249	4.868	ug/ml	99
22) 2-Nitrophenol	5.675	139	15267	5.001	ug/ml	95
23) 2,4-Dimethylphenol	5.746	107	26689	4.559	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	38883	4.667	ug/ml	99
25) 2,4-Dichlorophenol	5.916	162	29856	4.872	ug/ml	94
26) 1,2,4-Trichlorobenzene	5.993	180	35413	4.563	ug/ml	96
36) Naphthalene	6.057	128	101806	4.753	ug/ml	99
37) Benzoic Acid	5.816	105	16602	3.620	ug/ml	92
38) 4-Chloroaniline	6.122	65	11970	4.973	ug/ml	91
39) Hexachlorobutadiene	6.210	225	23051	4.592	ug/ml	99
40) p-Chloro-m-cresol	6.616	107	27572	4.875	ug/ml	94
41) 2-Methylnaphthalene	6.740	142	66348	4.555	ug/ml	96
42) 1-Methylnaphthalene	6.828	115	22232	4.437	ug/ml	95
43) Hexachlorocyclopentadiene	6.910	237	23071	4.502	ug/ml	100
44) 2,4,6-Trichlorophenol	7.022	196	25423	4.853	ug/ml	99
45) 2,4,5-Trichlorophenol	7.051	196	26339	4.914	ug/ml	99
47) 2-Chloronaphthalene	7.204	162	71163	4.593	ug/ml	94
48) 2-Nitroaniline	7.310	138	19492	4.761	ug/ml	95
49) 1,4-Dinitrobenzene	7.440	168	9710	4.835	ug/ml	89
50) 1,3-Dinitrobenzene	7.516	168	11279	4.844	ug/ml	90
51) Dimethyl phthalate	7.510	163	84473	4.482	ug/ml	100
52) Acenaphthylene	7.604	152	108184	4.730	ug/ml	98
53) 2,6-Dinitrotoluene	7.557	165	16668	4.728	ug/ml	94
54) 1,2-Dinitrobenzene	7.599	168	7184	5.312	ug/ml#	1
64) 3-Nitroaniline	7.710	138	18953	5.158	ug/ml	94
65) Acenaphthene	7.775	154	63705	4.647	ug/ml	96
66) 2,4-Dinitrophenol	7.810	184	9041	4.592	ug/ml#	83
67) Dibenzofuran	7.946	168	106110	4.697	ug/ml	93
68) 2,4-Dinitrotoluene	7.940	165	23907	5.072	ug/ml	92
69) 4-Nitrophenol	7.310	65	17559	4.932	ug/ml#	10
70) 2,3,5,6-Tetrachlorophenol	8.034	232	23788	5.137	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	8.075	232	22430	4.930	ug/ml	98
72) Diethyl phthalate	8.198	149	82467	4.511	ug/ml	95
73) Fluorene	8.275	166	82653	4.698	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.293	204	42516	4.434	ug/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL6.D
Acq On : 25 Jun 2024 09:27 pm
Operator : SV112:mrg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939943
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 30 14:01:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.298	138	20520	5.308	ug/ml	96
76)	4,6-Dinitro-o-cresol	8.334	198	12548	4.193	ug/ml#	78
77)	NDPA/DPA	8.404	169	70812	4.679	ug/ml	95
78)	Azobenzene	8.440	77	77468	4.827	ug/ml	94
80)	4-Bromophenyl phenyl e...	8.763	248	27083	4.409	ug/ml#	81
81)	Hexachlorobenzene	8.816	284	32534	4.215	ug/ml#	86
82)	Pentachlorophenol	9.010	266	18544	5.312	ug/ml	99
89)	Phenanthrene	9.198	178	131334	4.781	ug/ml	99
90)	Anthracene	9.251	178	129313	4.811	ug/ml	98
91)	Carbazole	9.416	167	123110	5.002	ug/ml	98
92)	Di-n-butylphthalate	9.798	149	127369	4.744	ug/ml	99
93)	Fluoranthene	10.357	202	152966M3	4.798	ug/ml	
94)	Benzidine	10.504	184	90848	5.183	ug/ml#	97
95)	Pyrene	10.575	202	167321	4.952	ug/ml	99
97)	Butyl benzyl phthalate	11.281	149	54658	4.601	ug/ml	93
105)	Benzo(a)anthracene	11.816	228	172947	4.842	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.810	252	64802	4.981	ug/ml#	96
107)	Chrysene	11.851	228	167510	4.784	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.922	149	84757	4.772	ug/ml#	99
109)	Di-n-octylphthalate	12.598	149	137975	5.069	ug/ml	97
110)	Benzo(b)fluoranthene	12.928	252	180541	4.929	ug/ml#	96
111)	Benzo(k)fluoranthene	12.951	252	177737M3	5.316	ug/ml	
112)	Benzo(a)pyrene	13.239	252	163243	5.108	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.298	276	187791M6	5.111	ug/mL	
115)	Dibenzo(a,h)anthracene	14.322	278	177411	5.057	ug/ml#	92
116)	Benzo(ghi)perylene	14.563	276	174444	4.927	ug/ml#	93

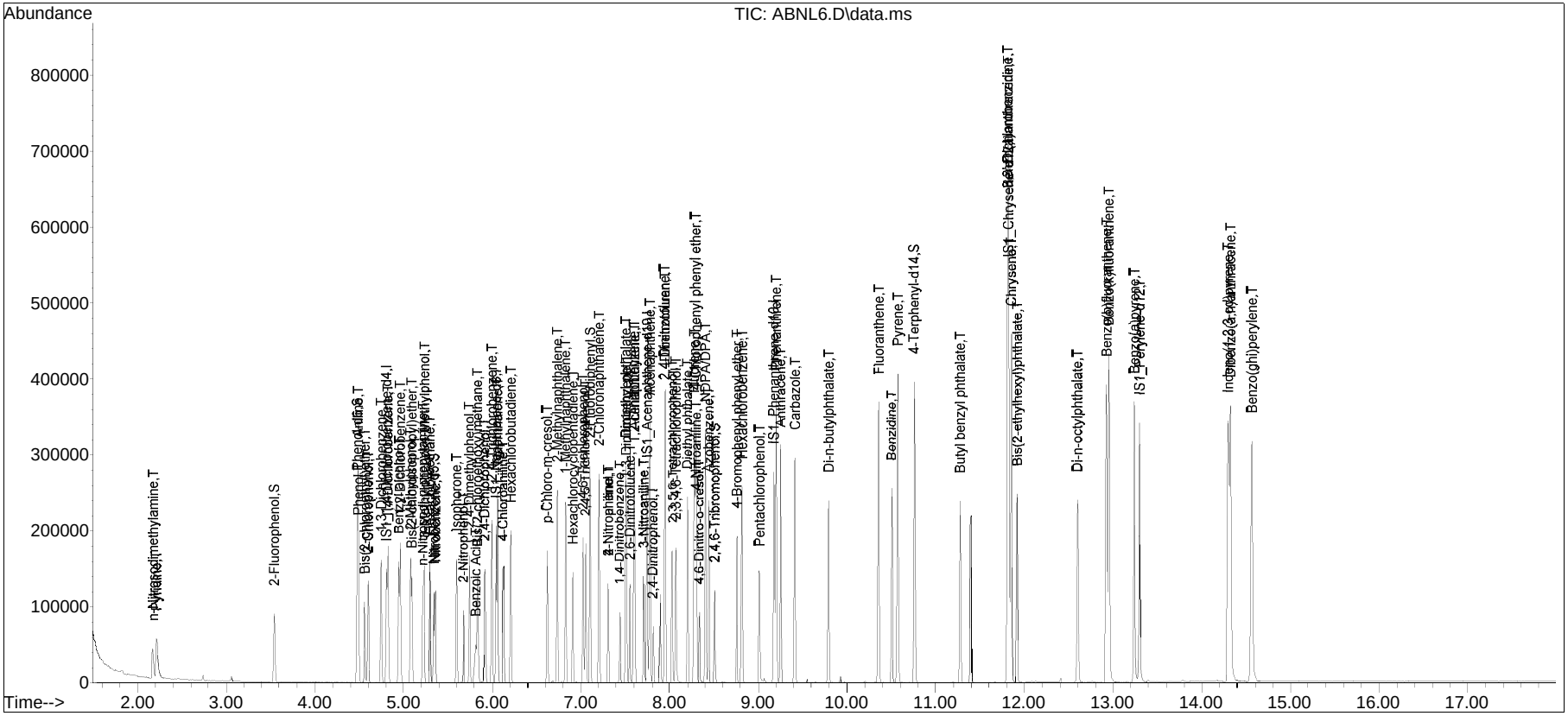
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL6.D
Acq On : 25 Jun 2024 09:27 pm
Operator : SV112:mrg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939943
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 30 14:01:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

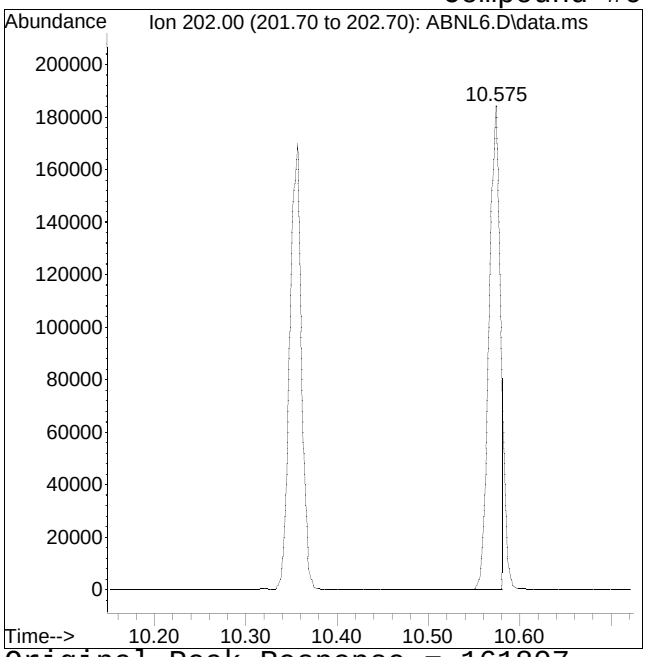
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

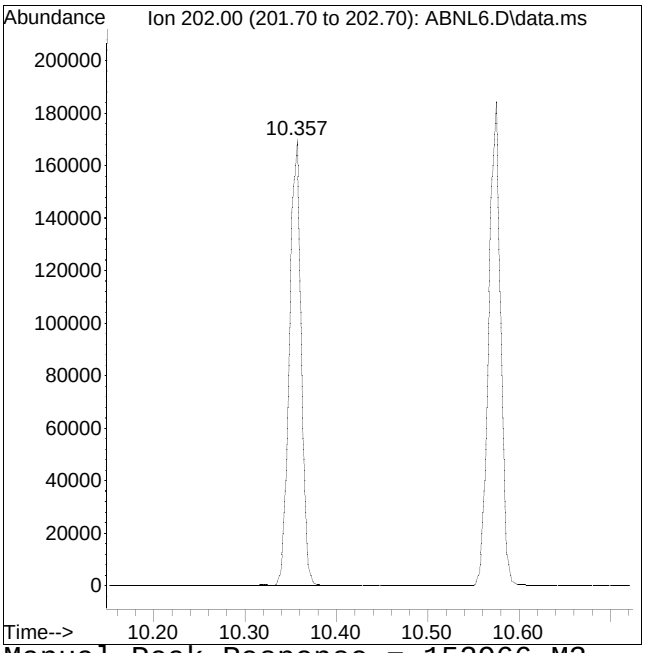


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL6.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:27 pm Instrument : SV112
Sample : IL5,32,,ABNL5 Lot# 10781 Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene



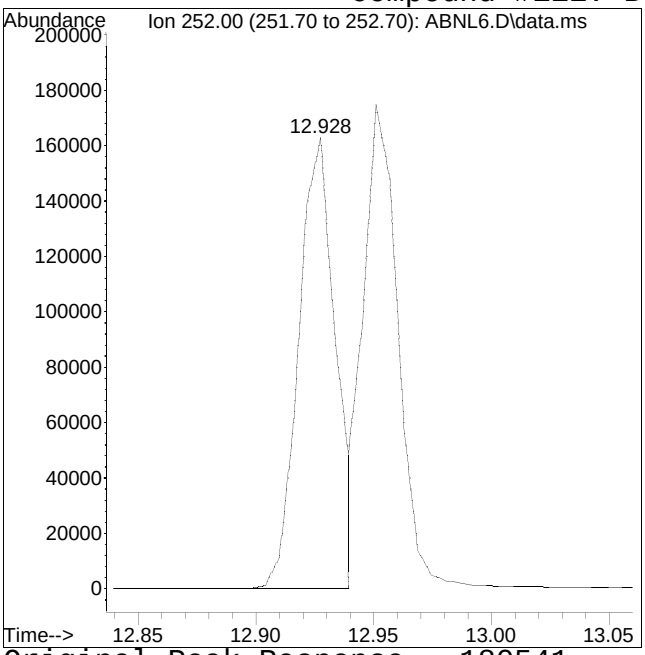


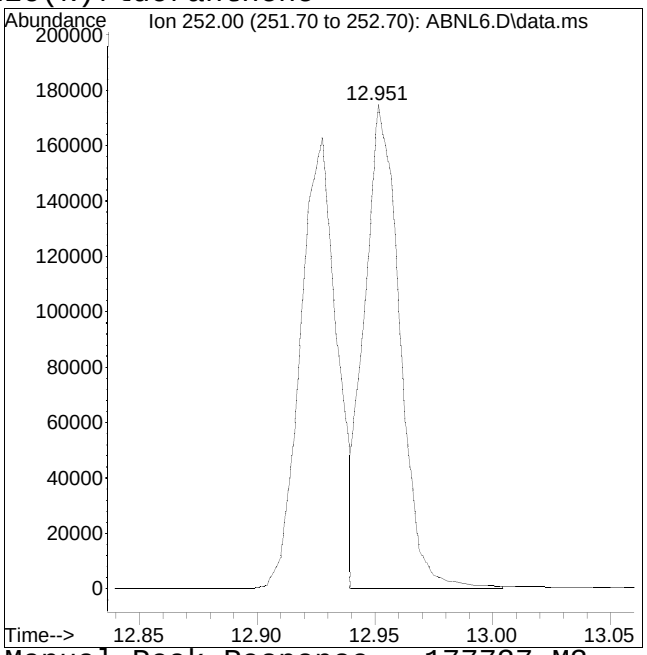
Original Peak Response = 161807 Manual Peak Response = 152966 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL6.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:27 pm Instrument : SV112
Sample : IL5,32,,ABNL5 Lot# 10781 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



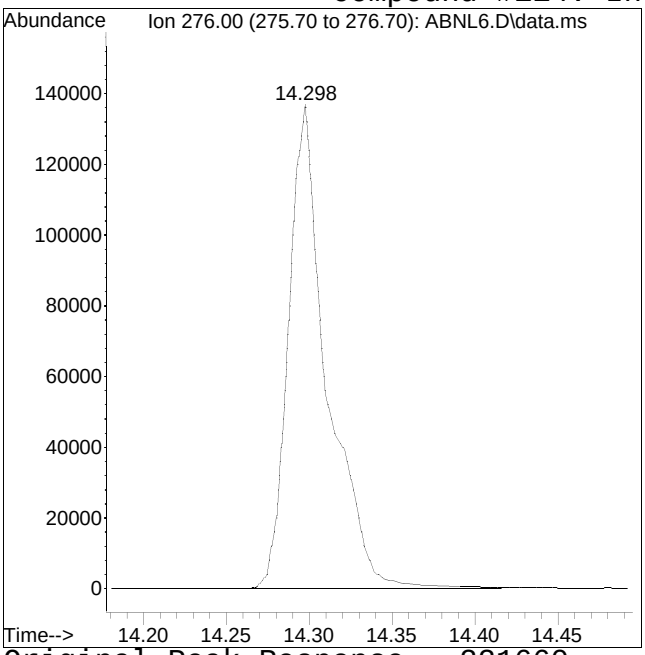


Original Peak Response = 180541 Manual Peak Response = 177737 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

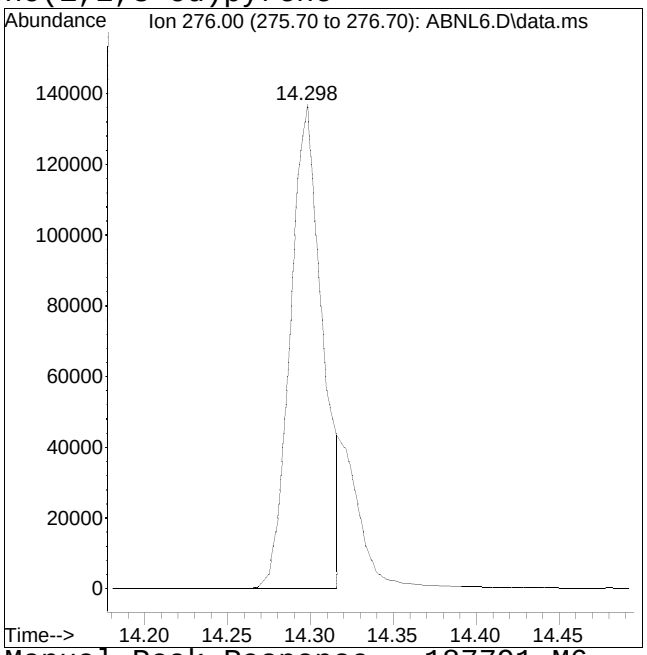
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL6.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:27 pm Instrument : SV112
Sample : IL5,32,,ABNL5 Lot# 10781 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 221660



Manual Peak Response = 187791 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL5.D
Acq On : 25 Jun 2024 09:50 pm
Operator : SV112:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939943
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 14:01:31 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	22768	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 107.07%		
35) IS1_Naphthalene-d8	6.040	136	89068	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 109.01%		
63) IS1_Acenaphthene-d10	7.746	164	57600	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 117.10%		
88) IS1_Phenanthrene-d10	9.175	188	128913	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 124.12%		
104) IS1_Chrysene-d12	11.822	240	140560	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 126.37%		
113) IS1_Perylene-d12	13.298	264	160405	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 122.08%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	14512	2.427 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 121.35%#		
7) Phenol-d6	4.475	99	18344	2.376 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 118.80%#		
19) Nitrobenzene-d5	5.346	82	17874	2.427 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 242.70%#		
46) 2-Fluorobiphenyl	7.104	172	49719	2.469 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 246.90%#		
79) 2,4,6-Tribromophenol	8.510	330	8972	2.641 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 132.05%#		
96) 4-Terphenyl-d14	10.757	244	84283	2.542 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 254.20%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.164	74	9366	2.504 ug/ml#	90
3) Pyridine	2.205	79	14518	2.446 ug/ml	83
5) Aniline	4.487	93	24945	2.420 ug/ml#	51
6) 2-Chlorophenol	4.599	128	16905	2.375 ug/ml	95
8) Phenol	4.487	94	21723	2.420 ug/ml#	46
9) Bis(2-chloroethyl)ether	4.563	93	16266	2.448 ug/ml	96
10) 1,3-Dichlorobenzene	4.746	146	20468	2.384 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	21148	2.360 ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	20265	2.413 ug/ml	97
13) Benzyl alcohol	4.952	79	13478	2.507 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.093	45	21443	2.555 ug/ml#	62

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL5.D
Acq On : 25 Jun 2024 09:50 pm
Operator : SV112:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939943
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 14:01:31 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.075	108	14305	2.379	ug/ml	96
16) Hexachloroethane	5.299	117	7327	2.308	ug/ml#	62
17) n-Nitrosodi-n-propylamine	5.216	70	12281	2.494	ug/ml	97
18) 3-Methylphenol/4-Methy...	5.234	108	15964	2.438	ug/ml	97
20) Nitrobenzene	5.363	77	18050	2.459	ug/ml	97
21) Isophorone	5.599	82	33596	2.535	ug/ml	98
22) 2-Nitrophenol	5.675	139	8162	2.497	ug/ml	93
23) 2,4-Dimethylphenol	5.746	107	15804	2.521	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	22151	2.483	ug/ml	99
25) 2,4-Dichlorophenol	5.916	162	16167	2.464	ug/ml#	93
26) 1,2,4-Trichlorobenzene	5.993	180	19613	2.360	ug/ml	95
36) Naphthalene	6.057	128	55949	2.396	ug/ml	99
37) Benzoic Acid	5.805	105	7164	1.561	ug/ml	98
38) 4-Chloroaniline	6.122	65	6841	2.607	ug/ml	98
39) Hexachlorobutadiene	6.210	225	12562	2.295	ug/ml	97
40) p-Chloro-m-cresol	6.616	107	15516	2.517	ug/ml	97
41) 2-Methylnaphthalene	6.740	142	37292	2.348	ug/ml	96
42) 1-Methylnaphthalene	6.828	115	12837	2.350	ug/ml	95
43) Hexachlorocyclopentadiene	6.910	237	13409	2.401	ug/ml	99
44) 2,4,6-Trichlorophenol	7.022	196	14191	2.485	ug/ml	99
45) 2,4,5-Trichlorophenol	7.051	196	14289M3	2.446	ug/ml	
47) 2-Chloronaphthalene	7.204	162	41100	2.433	ug/ml	94
48) 2-Nitroaniline	7.310	138	10733	2.405	ug/ml	94
49) 1,4-Dinitrobenzene	7.440	168	5423	2.477	ug/ml	89
50) 1,3-Dinitrobenzene	7.516	168	6188	2.438	ug/ml	95
51) Dimethyl phthalate	7.510	163	51429	2.503	ug/ml	99
52) Acenaphthylene	7.604	152	63219	2.535	ug/ml	99
53) 2,6-Dinitrotoluene	7.551	165	9849	2.563	ug/ml	95
54) 1,2-Dinitrobenzene	7.599	168	4033	2.736	ug/ml#	1
64) 3-Nitroaniline	7.710	138	10758	2.500	ug/ml	97
65) Acenaphthene	7.775	154	37917	2.362	ug/ml	96
66) 2,4-Dinitrophenol	7.810	184	4775	2.291	ug/ml#	83
67) Dibenzofuran	7.946	168	63041	2.383	ug/ml	94
68) 2,4-Dinitrotoluene	7.940	165	13917	2.521	ug/ml	93
69) 4-Nitrophenol	7.310	65	9511	2.281	ug/ml#	10
70) 2,3,5,6-Tetrachlorophenol	8.034	232	13736	2.533	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.075	232	14002	2.628	ug/ml	98
72) Diethyl phthalate	8.198	149	53794	2.513	ug/ml	97
73) Fluorene	8.275	166	49869	2.421	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.293	204	26566	2.366	ug/ml#	82

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL5.D
Acq On : 25 Jun 2024 09:50 pm
Operator : SV112:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939943
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 14:01:31 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.298	138	11886	2.626	ug/ml	98
76)	4,6-Dinitro-o-cresol	8.334	198	7380	2.221	ug/ml#	76
77)	NDPA/DPA	8.404	169	43143	2.435	ug/ml	94
78)	Azobenzene	8.440	77	46861	2.493	ug/ml#	94
80)	4-Bromophenyl phenyl e...	8.763	248	16949	2.356	ug/ml#	81
81)	Hexachlorobenzene	8.816	284	21027	2.327	ug/ml#	84
82)	Pentachlorophenol	9.010	266	10924	2.672	ug/ml	98
89)	Phenanthrene	9.198	178	81747	2.397	ug/ml	98
90)	Anthracene	9.245	178	80680	2.418	ug/ml	99
91)	Carbazole	9.410	167	75932	2.486	ug/ml	99
92)	Di-n-butylphthalate	9.798	149	86882	2.607	ug/ml	99
93)	Fluoranthene	10.357	202	97797M3	2.472	ug/ml	
94)	Benzidine	10.504	184	56239	2.585	ug/ml#	98
95)	Pyrene	10.575	202	105090	2.506	ug/ml	99
97)	Butyl benzyl phthalate	11.281	149	36400	2.469	ug/ml	94
105)	Benzo(a)anthracene	11.816	228	111753	2.476	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.810	252	40371	2.456	ug/ml#	96
107)	Chrysene	11.851	228	108259	2.447	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.922	149	58065	2.587	ug/ml#	99
109)	Di-n-octylphthalate	12.598	149	89425	2.600	ug/ml	97
110)	Benzo(b)fluoranthene	12.928	252	112721	2.435	ug/ml#	95
111)	Benzo(k)fluoranthene	12.951	252	107892M3	2.553	ug/ml	
112)	Benzo(a)pyrene	13.239	252	98942	2.450	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.298	276	100988M6	2.252	ug/mL	
115)	Dibenzo(a,h)anthracene	14.322	278	102782	2.400	ug/ml#	91
116)	Benzo(ghi)perylene	14.557	276	101454	2.347	ug/ml#	93

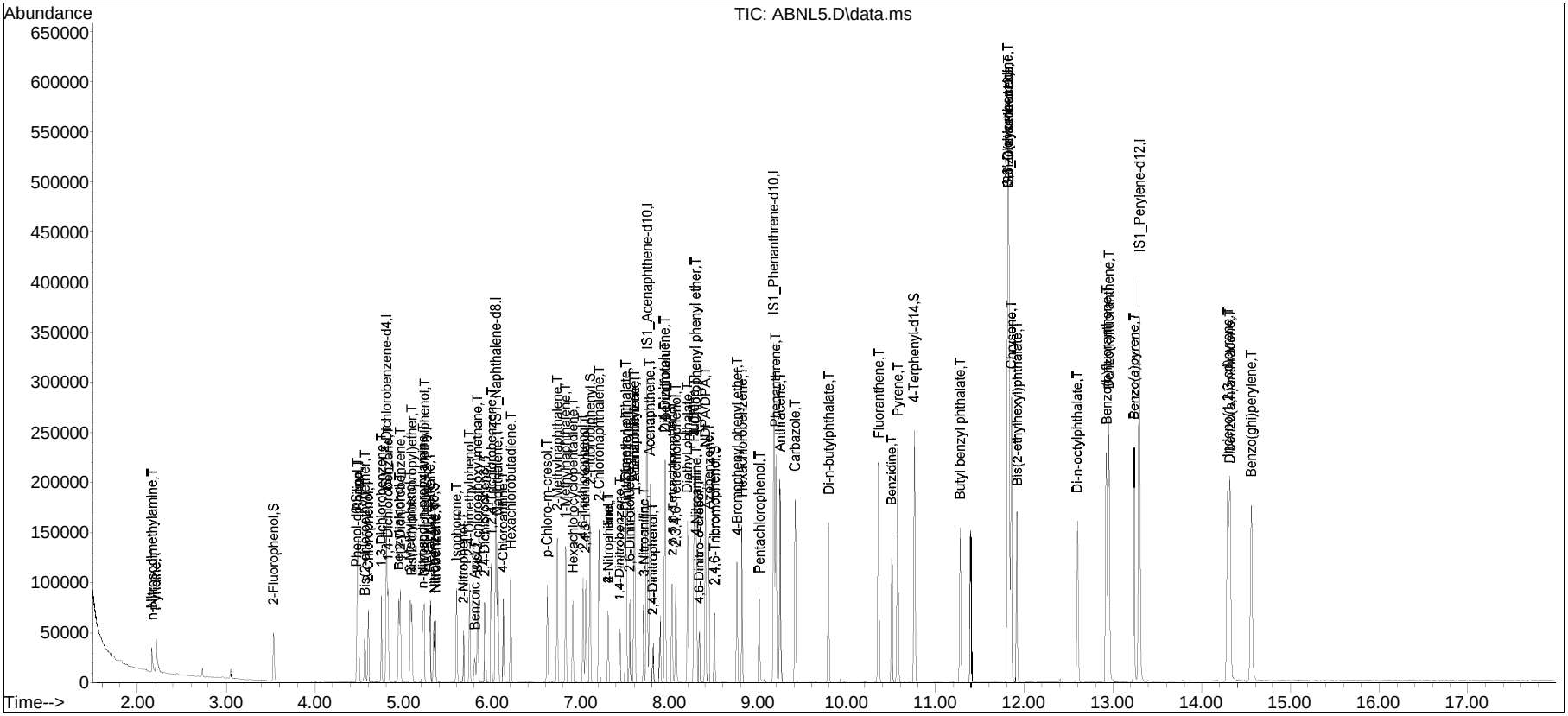
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL5.D
Acq On : 25 Jun 2024 09:50 pm
Operator : SV112:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939943
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 14:01:31 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

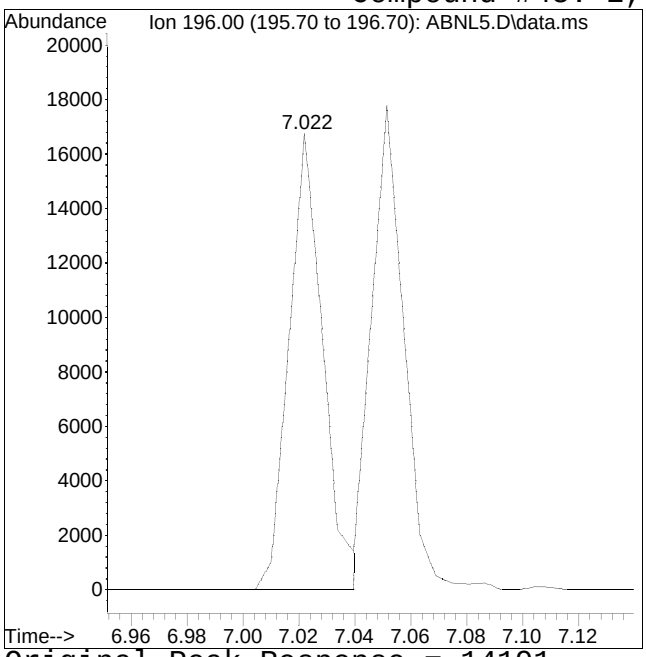
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

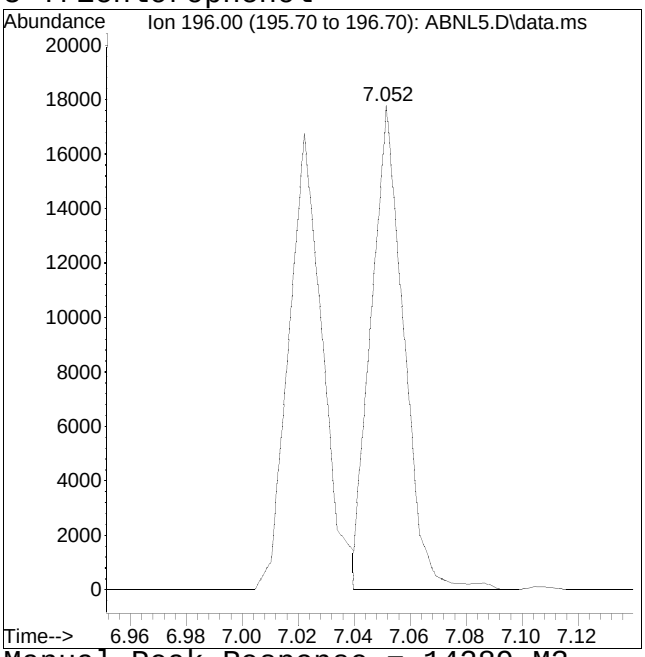


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL5.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:50 pm Instrument : SV112
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





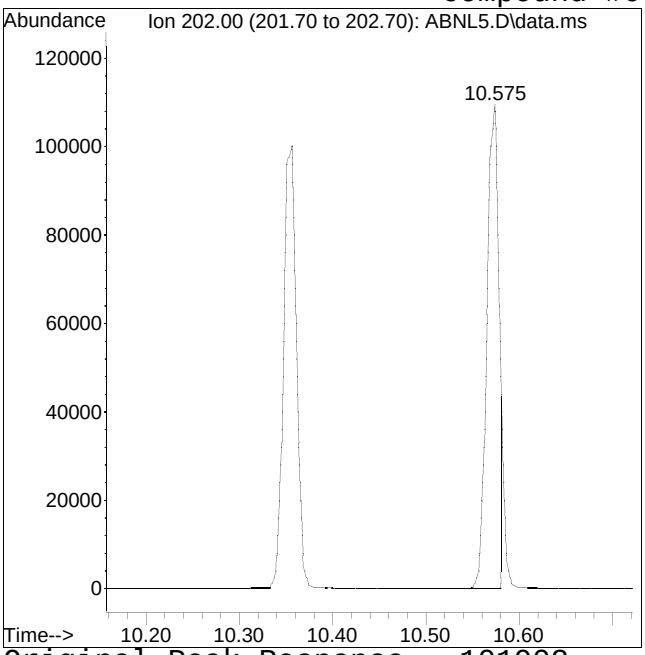
Original Peak Response = 14191 Manual Peak Response = 14289 M3

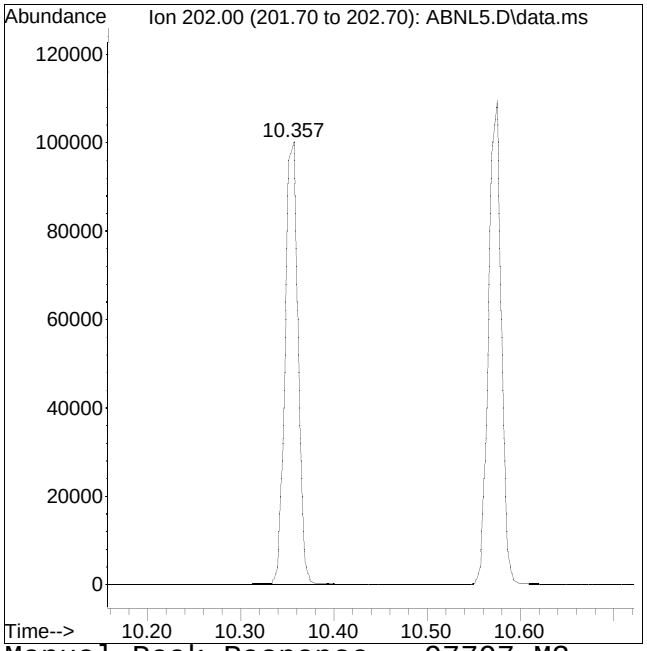
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL5.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:50 pm Instrument : SV112
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene



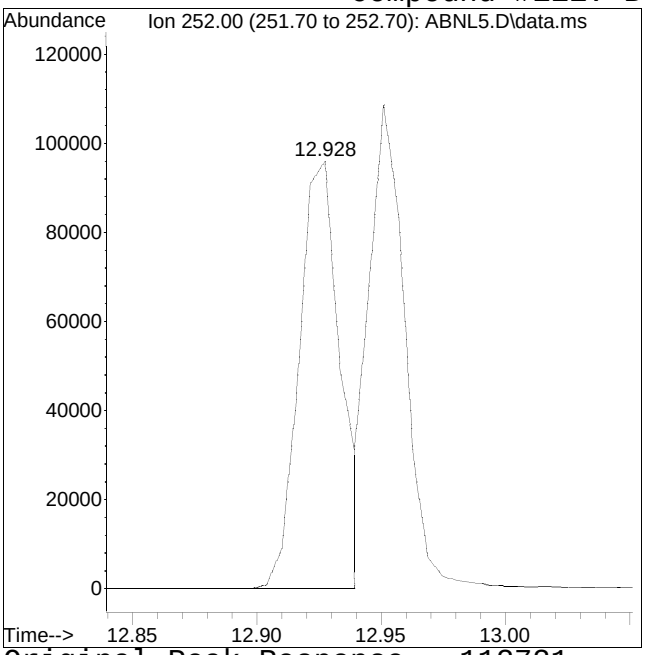


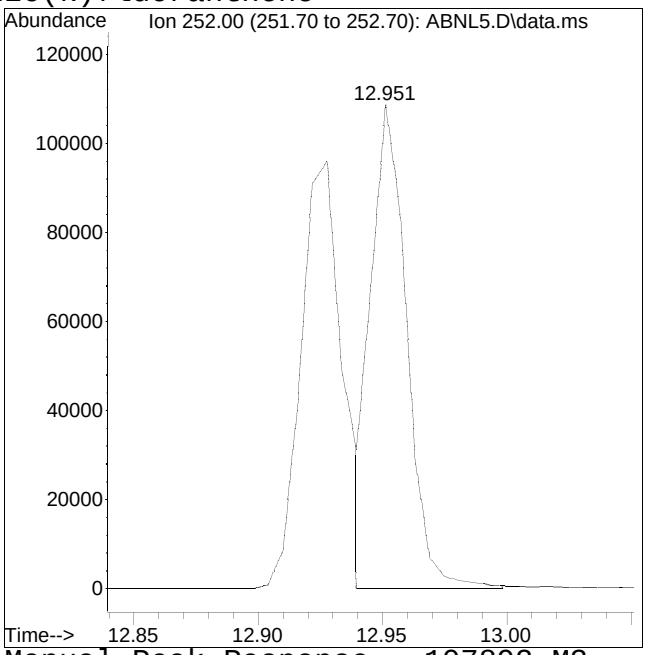
Original Peak Response = 101902 Manual Peak Response = 97797 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL5.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:50 pm Instrument : SV112
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene





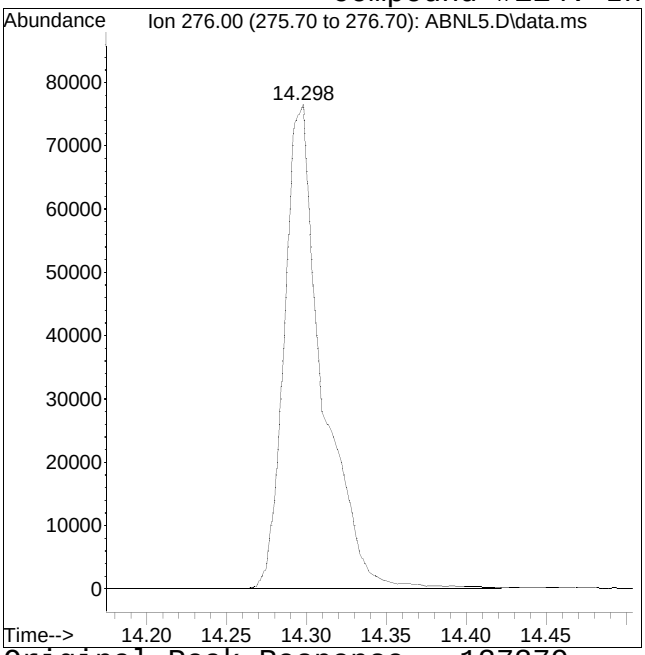
Original Peak Response = 112721 Manual Peak Response = 107892 M3

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

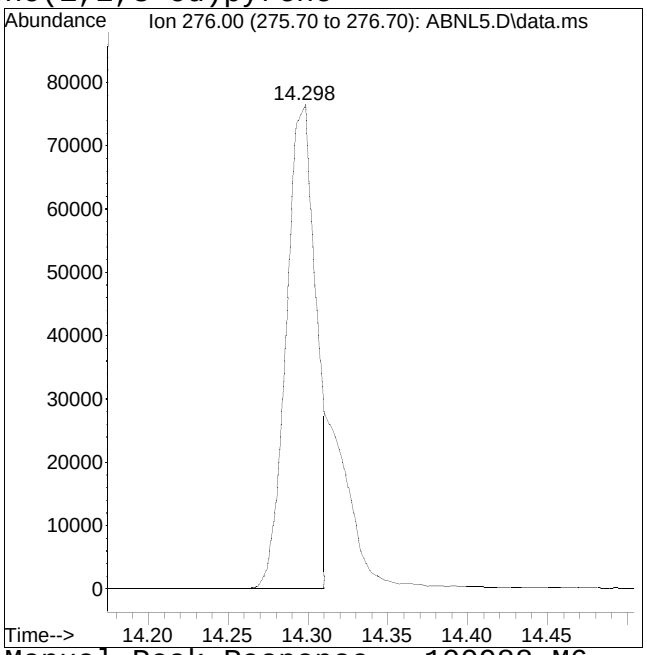
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL5.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:50 pm Instrument : SV112
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 127379



Manual Peak Response = 100988 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL4.D
Acq On : 25 Jun 2024 10:14 pm
Operator : SV112:mrg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939943
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 14:01:23 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.805	152	21971	4.000	ug/ml	0.00
Standard Area 1 = 21265			Recovery = 103.32%			
35) IS1_Naphthalene-d8	6.040	136	81871	4.000	ug/ml	0.00
Standard Area 1 = 81706			Recovery = 100.20%			
63) IS1_Acenaphthene-d10	7.746	164	51003	4.000	ug/ml	0.00
Standard Area 1 = 49189			Recovery = 103.69%			
88) IS1_Phenanthrene-d10	9.175	188	114527	4.000	ug/ml #	0.00
Standard Area 1 = 103858			Recovery = 110.27%			
104) IS1_Chrysene-d12	11.822	240	118727	4.000	ug/ml #	0.00
Standard Area 1 = 111228			Recovery = 106.74%			
113) IS1_Perylene-d12	13.298	264	135825	4.000	ug/ml	0.00
Standard Area 1 = 131396			Recovery = 103.37%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.540	112	5831	1.011	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.55%			
7) Phenol-d6	4.475	99	7170	0.962	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 48.10%			
19) Nitrobenzene-d5	5.346	82	6892	0.970	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 97.00%			
46) 2-Fluorobiphenyl	7.105	172	19055	1.029	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 102.90%			
79) 2,4,6-Tribromophenol	8.510	330	3052	1.015	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.75%			
96) 4-Terphenyl-d14	10.757	244	30038	1.020	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 102.00%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.170	74	3686	1.021	ug/ml#	93
3) Pyridine	2.223	79	5843	1.020	ug/ml	86
5) Aniline	4.487	93	10129	1.018	ug/ml#	57
6) 2-Chlorophenol	4.599	128	6816	0.992	ug/ml	91
8) Phenol	4.487	94	8446	0.975	ug/ml#	48
9) Bis(2-chloroethyl)ether	4.564	93	6320	0.986	ug/ml	96
10) 1,3-Dichlorobenzene	4.752	146	8338	1.006	ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	8437	0.975	ug/ml	95
12) 1,2-Dichlorobenzene	4.969	146	7964	0.983	ug/ml	96
13) Benzyl alcohol	4.952	79	5260	1.014	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.093	45	7818	0.965	ug/ml#	54

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL4.D
Acq On : 25 Jun 2024 10:14 pm
Operator : SV112:mrg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939943
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 14:01:23 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	5788	0.997	ug/ml	97
16) Hexachloroethane	5.299	117	3236	1.056	ug/ml#	68
17) n-Nitrosodi-n-propylamine	5.216	70	4669	0.982	ug/ml#	86
18) 3-Methylphenol/4-Methy...	5.234	108	6209	0.983	ug/ml	97
20) Nitrobenzene	5.364	77	6860	0.969	ug/ml	97
21) Isophorone	5.599	82	12488	0.977	ug/ml	98
22) 2-Nitrophenol	5.675	139	2906	0.921	ug/ml	96
23) 2,4-Dimethylphenol	5.746	107	6147	1.016	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.834	93	8312	0.966	ug/ml	98
25) 2,4-Dichlorophenol	5.916	162	6110	0.965	ug/ml#	94
26) 1,2,4-Trichlorobenzene	5.993	180	8116	1.012	ug/ml#	95
36) Naphthalene	6.058	128	22245	1.036	ug/ml	98
37) Benzoic Acid	5.799	105	1481	0.516	ug/ml#	76
38) 4-Chloroaniline	6.122	65	2368	0.982	ug/ml	83
39) Hexachlorobutadiene	6.211	225	5202	1.034	ug/ml	100
40) p-Chloro-m-cresol	6.616	107	5573	0.983	ug/ml	94
41) 2-Methylnaphthalene	6.740	142	15181	1.040	ug/ml	98
42) 1-Methylnaphthalene	6.828	115	4843	0.965	ug/ml	93
43) Hexachlorocyclopentadiene	6.910	237	5175	1.008	ug/ml	98
44) 2,4,6-Trichlorophenol	7.022	196	5165	0.984	ug/ml	98
45) 2,4,5-Trichlorophenol	7.052	196	5154M3	0.960	ug/ml	
47) 2-Chloronaphthalene	7.205	162	15791	1.017	ug/ml	93
48) 2-Nitroaniline	7.310	138	3812	0.929	ug/ml	96
49) 1,4-Dinitrobenzene	7.440	168	1908	0.948	ug/ml	93
50) 1,3-Dinitrobenzene	7.516	168	2180	0.934	ug/ml	97
51) Dimethyl phthalate	7.510	163	19090	1.011	ug/ml	100
52) Acenaphthylene	7.605	152	22822	0.996	ug/ml	98
53) 2,6-Dinitrotoluene	7.552	165	3378	0.956	ug/ml	93
54) 1,2-Dinitrobenzene	7.599	168	1385	1.022	ug/ml#	1
64) 3-Nitroaniline	7.710	138	3743	0.982	ug/ml#	91
65) Acenaphthene	7.775	154	14322	1.008	ug/ml	97
66) 2,4-Dinitrophenol	7.810	184	1211	0.928	ug/ml	90
67) Dibenzofuran	7.946	168	24795	1.058	ug/ml	90
68) 2,4-Dinitrotoluene	7.940	165	4660	0.953	ug/ml	96
69) 4-Nitrophenol	7.310	65	3499	0.948	ug/ml#	5
70) 2,3,5,6-Tetrachlorophenol	8.034	232	4594	0.957	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	8.075	232	4589	0.973	ug/ml	96
72) Diethyl phthalate	8.199	149	19050	1.005	ug/ml	95
73) Fluorene	8.275	166	18140	0.994	ug/ml	95
74) 4-Chlorophenyl phenyl ...	8.293	204	10082	1.014	ug/ml#	80

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL4.D
Acq On : 25 Jun 2024 10:14 pm
Operator : SV112:mrg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939943
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 14:01:23 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.299	138	4142	1.033	ug/ml	95
76)	4,6-Dinitro-o-cresol	8.334	198	2313	0.936	ug/ml#	72
77)	NDPA/DPA	8.405	169	16167	1.030	ug/ml	96
78)	Azobenzene	8.440	77	17038	1.024	ug/ml	92
80)	4-Bromophenyl phenyl e...	8.763	248	6271	0.985	ug/ml#	81
81)	Hexachlorobenzene	8.816	284	8157	1.019	ug/ml#	86
82)	Pentachlorophenol	9.005	266	3465	0.957	ug/ml	98
89)	Phenanthrene	9.199	178	31199	1.030	ug/ml	98
90)	Anthracene	9.246	178	29870	1.008	ug/ml	99
91)	Carbazole	9.410	167	27149	1.000	ug/ml	98
92)	Di-n-butylphthalate	9.793	149	30017	1.014	ug/ml	99
93)	Fluoranthene	10.351	202	35822M3	1.019	ug/ml	
94)	Benzidine	10.504	184	18506	0.957	ug/ml#	96
95)	Pyrene	10.569	202	37816	1.015	ug/ml	99
97)	Butyl benzyl phthalate	11.281	149	11835	0.903	ug/ml#	93
105)	Benzo(a)anthracene	11.810	228	38609	1.013	ug/ml	100
106)	3,3'-Dichlorobenzidine	11.810	252	13078	0.942	ug/ml#	96
107)	Chrysene	11.851	228	39448	1.055	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.916	149	17903	0.944	ug/ml#	97
109)	Di-n-octylphthalate	12.598	149	26346	0.907	ug/ml#	97
110)	Benzo(b)fluoranthene	12.922	252	41187	1.053	ug/ml#	92
111)	Benzo(k)fluoranthene	12.951	252	35681M3	1.000	ug/ml	
112)	Benzo(a)pyrene	13.240	252	34861	1.022	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.292	276	35897M6	0.945	ug/mL	
115)	Dibenzo(a,h)anthracene	14.316	278	37295	1.028	ug/ml#	92
116)	Benzo(ghi)perylene	14.557	276	36653	1.002	ug/ml#	92

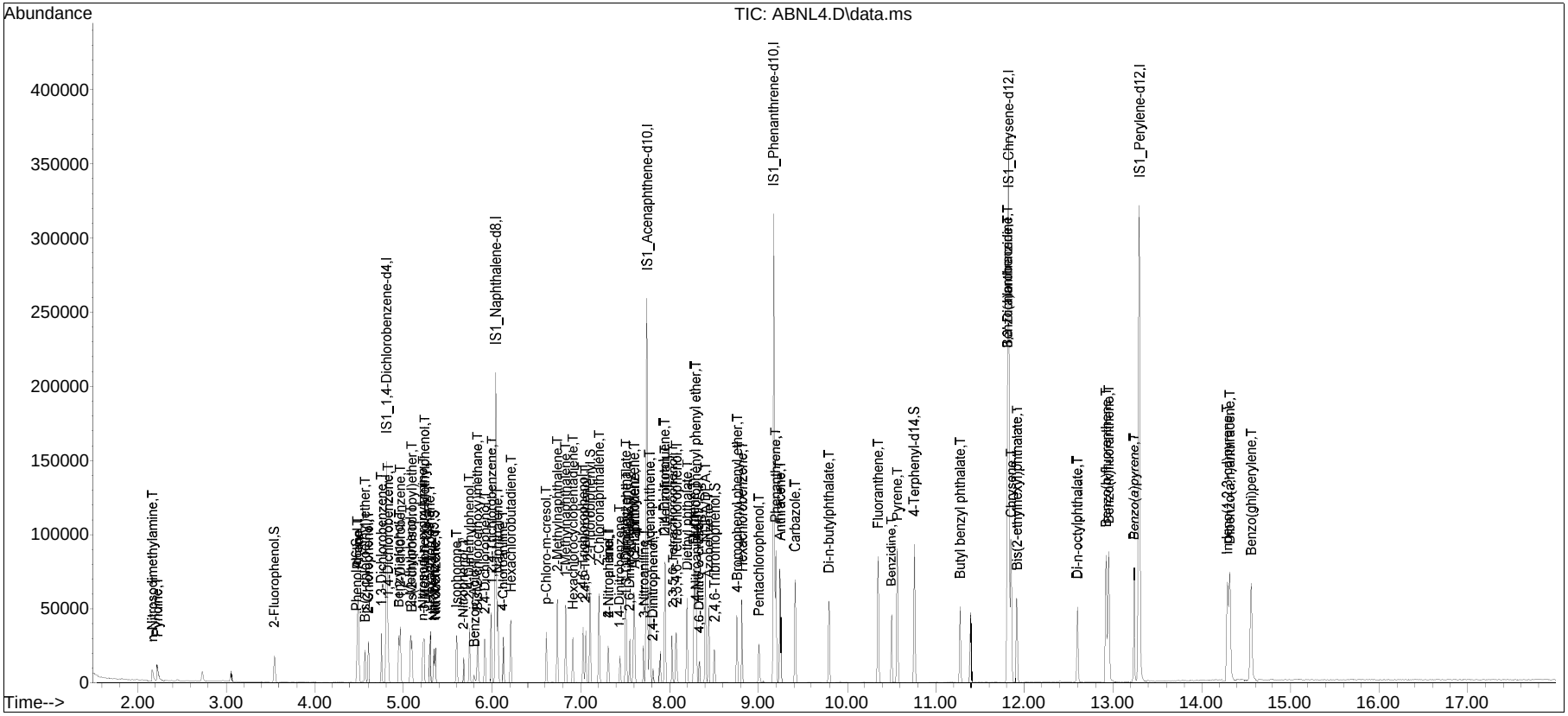
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL4.D
Acq On : 25 Jun 2024 10:14 pm
Operator : SV112:mrg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939943
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 14:01:23 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

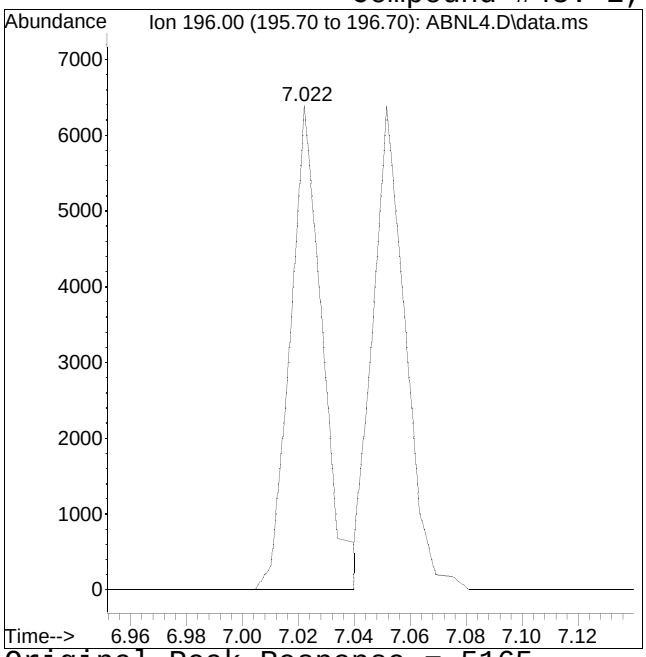
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

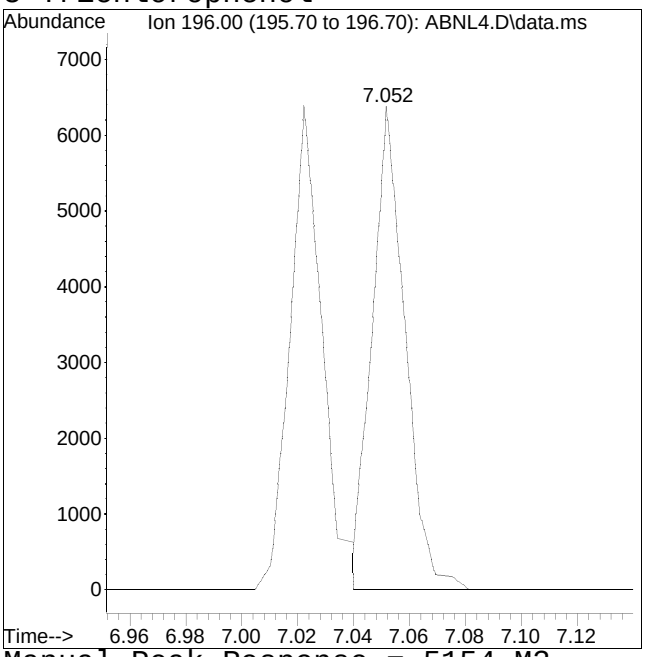


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL4.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:14 pm Instrument : SV112
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





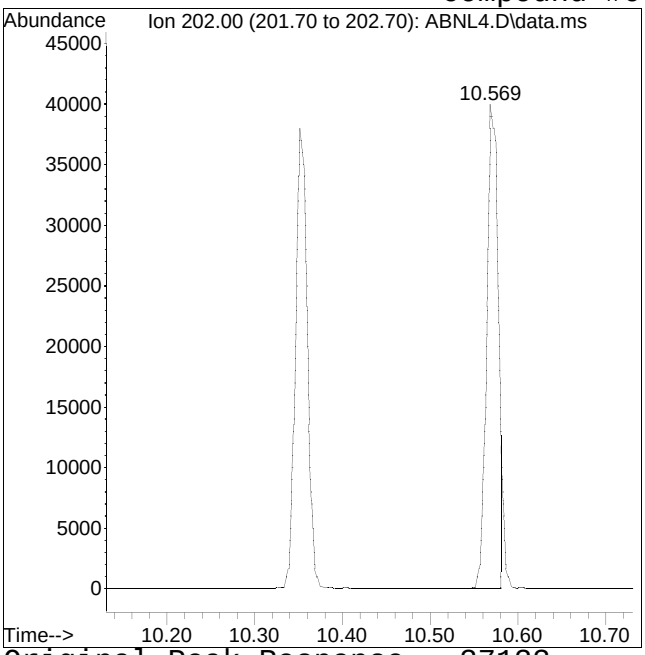
Original Peak Response = 5165 Manual Peak Response = 5154 M3

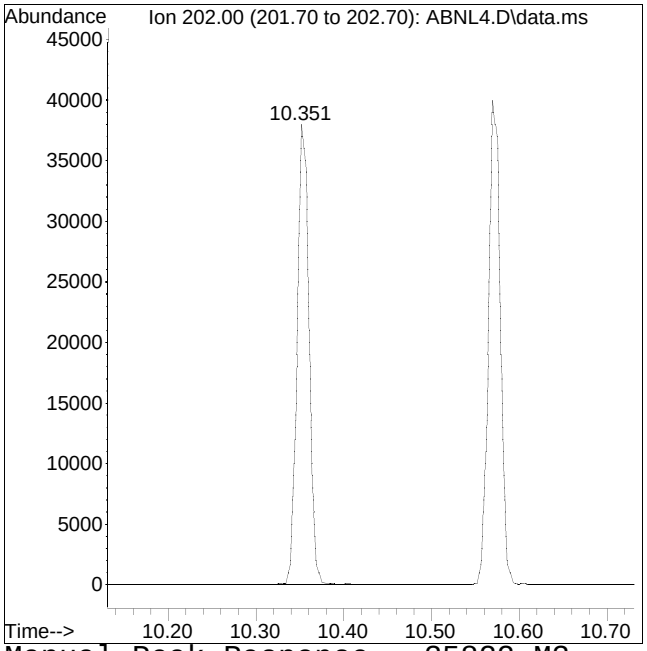
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL4.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:14 pm Instrument : SV112
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene



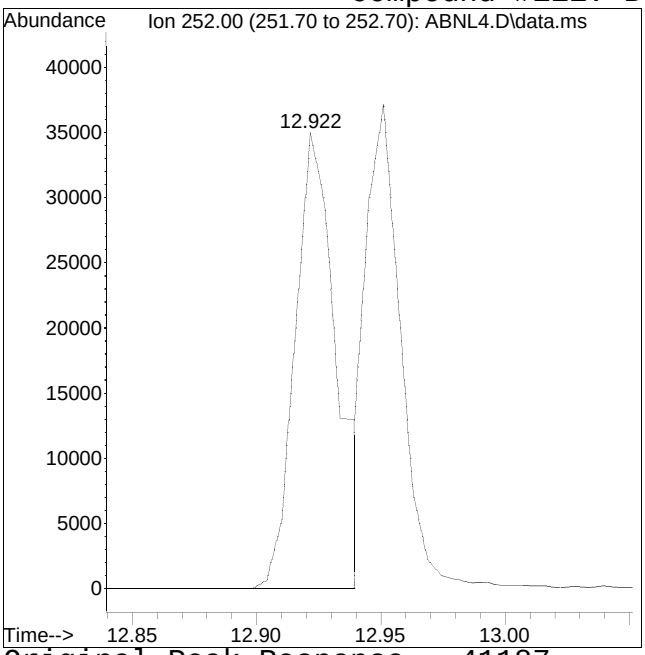


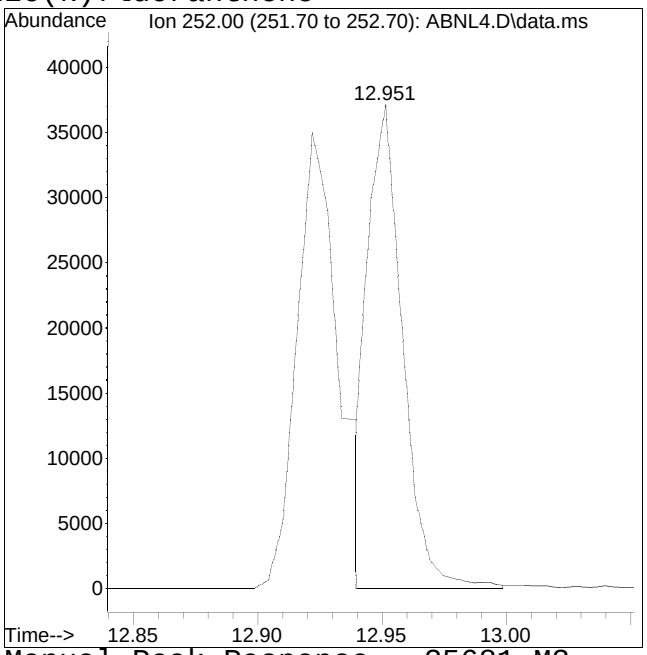
Original Peak Response = 37133 Manual Peak Response = 35822 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL4.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:14 pm Instrument : SV112
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



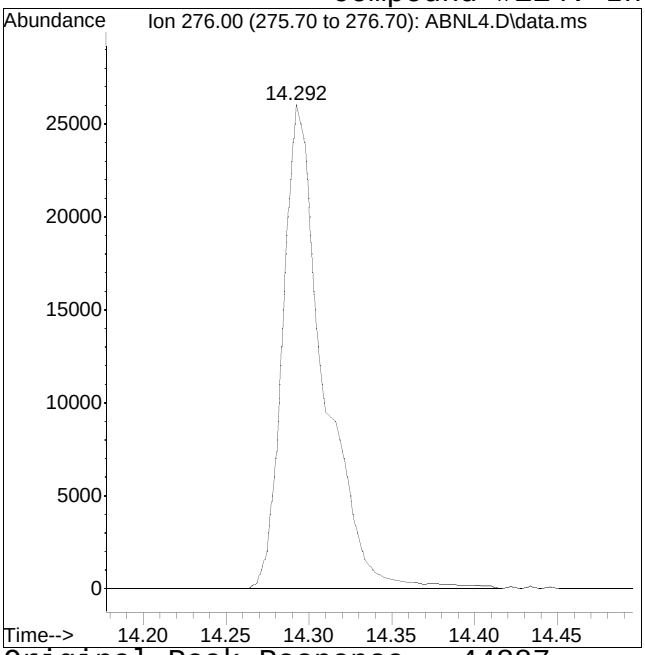


Original Peak Response = 41187 Manual Peak Response = 35681 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

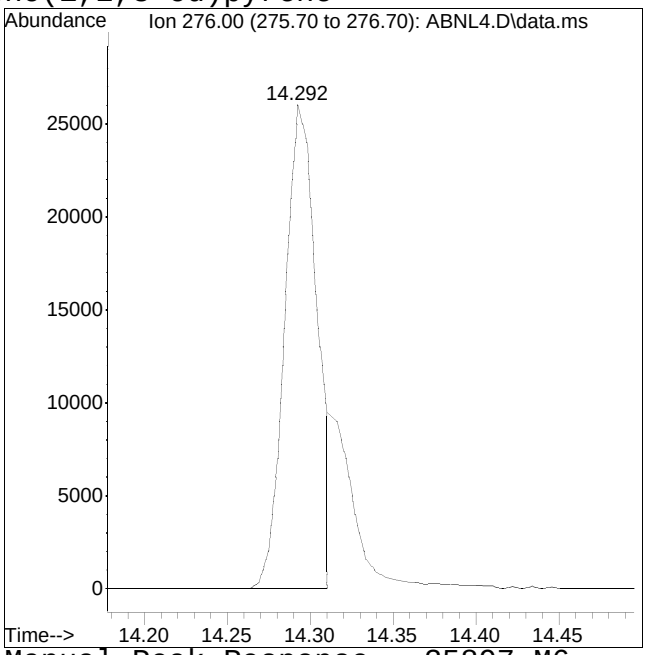
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL4.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:14 pm Instrument : SV112
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 44887



Manual Peak Response = 35897 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL3.D
Acq On : 25 Jun 2024 10:37 pm
Operator : SV112:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939943
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:01:14 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	21531	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 101.25%		
35) IS1_Naphthalene-d8	6.040	136	80456	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 98.47%		
63) IS1_Acenaphthene-d10	7.746	164	49615	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 100.87%		
88) IS1_Phenanthrene-d10	9.175	188	113431	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 109.22%		
104) IS1_Chrysene-d12	11.822	240	119417	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 107.36%		
113) IS1_Perylene-d12	13.298	264	139944	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 106.51%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	3059	0.541 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.05%		
7) Phenol-d6	4.475	99	3674	0.503 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.15%		
19) Nitrobenzene-d5	5.346	82	3456	0.496 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 49.60%		
46) 2-Fluorobiphenyl	7.104	172	9640	0.530 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 53.00%		
79) 2,4,6-Tribromophenol	8.510	330	1570	0.537 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 26.85%		
96) 4-Terphenyl-d14	10.757	244	15760	0.540 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.00%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.169	74	1798	0.508 ug/ml#	76
3) Pyridine	2.228	79	2950	0.526 ug/ml	87
5) Aniline	4.487	93	4787	0.491 ug/ml#	52
6) 2-Chlorophenol	4.599	128	3481	0.517 ug/ml	93
8) Phenol	4.487	94	4195	0.494 ug/ml#	48
9) Bis(2-chloroethyl)ether	4.563	93	3281	0.522 ug/ml	97
10) 1,3-Dichlorobenzene	4.752	146	4139	0.510 ug/ml	98
11) 1,4-Dichlorobenzene	4.822	146	4559	0.538 ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	4291M3	0.540 ug/ml	
13) Benzyl alcohol	4.952	79	2429	0.478 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.093	45	4116	0.519 ug/ml#	55

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL3.D
Acq On : 25 Jun 2024 10:37 pm
Operator : SV112:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939943
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:01:14 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	2845	0.500	ug/ml	99
16) Hexachloroethane	5.299	117	1452	0.484	ug/ml#	51
17) n-Nitrosodi-n-propylamine	5.222	70	2283	0.490	ug/ml#	62
18) 3-Methylphenol/4-Methy...	5.234	108	3088	0.499	ug/ml#	90
20) Nitrobenzene	5.363	77	3379	0.487	ug/ml#	88
21) Isophorone	5.605	82	6143	0.490	ug/ml#	91
22) 2-Nitrophenol	5.675	139	1462	0.473	ug/ml#	76
23) 2,4-Dimethylphenol	5.746	107	3160	0.533	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.834	93	4317	0.512	ug/ml#	91
25) 2,4-Dichlorophenol	5.916	162	2886	0.465	ug/ml	90
26) 1,2,4-Trichlorobenzene	5.993	180	3902	0.497	ug/ml	92
36) Naphthalene	6.057	128	11582	0.549	ug/ml	99
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	6.128	65	1170	0.494	ug/ml	78
39) Hexachlorobutadiene	6.210	225	2769	0.560	ug/ml	98
40) p-Chloro-m-cresol	6.616	107	2661	0.478	ug/ml	95
41) 2-Methylnaphthalene	6.740	142	7593	0.529	ug/ml	99
42) 1-Methylnaphthalene	6.828	115	2598	0.527	ug/ml	99
43) Hexachlorocyclopentadiene	6.910	237	2747	0.544	ug/ml#	88
44) 2,4,6-Trichlorophenol	7.022	196	2459	0.477	ug/ml	98
45) 2,4,5-Trichlorophenol	7.052	196	2732M3	0.518	ug/ml	
47) 2-Chloronaphthalene	7.204	162	7927	0.520	ug/ml	91
48) 2-Nitroaniline	7.310	138	2018	0.501	ug/ml	89
49) 1,4-Dinitrobenzene	7.440	168	901	0.456	ug/ml	89
50) 1,3-Dinitrobenzene	7.516	168	1057	0.461	ug/ml	96
51) Dimethyl phthalate	7.510	163	10143	0.547	ug/ml#	97
52) Acenaphthylene	7.604	152	12026	0.534	ug/ml	98
53) 2,6-Dinitrotoluene	7.551	165	1638	0.472	ug/ml	96
54) 1,2-Dinitrobenzene	7.599	168	626	0.470	ug/ml#	1
64) 3-Nitroaniline	7.710	138	1781	0.481	ug/ml#	87
65) Acenaphthene	7.775	154	7604	0.550	ug/ml	97
66) 2,4-Dinitrophenol	7.816	184	490M2	0.607	ug/ml	
67) Dibenzofuran	7.946	168	12935	0.568	ug/ml	92
68) 2,4-Dinitrotoluene	7.940	165	2185	0.460	ug/ml	100
69) 4-Nitrophenol	7.310	65	1759	0.490	ug/ml#	5
70) 2,3,5,6-Tetrachlorophenol	8.034	232	2226	0.477	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.075	232	2299	0.501	ug/ml	98
72) Diethyl phthalate	8.199	149	9919	0.538	ug/ml	96
73) Fluorene	8.275	166	9598	0.541	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.293	204	5075	0.525	ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL3.D
Acq On : 25 Jun 2024 10:37 pm
Operator : SV112:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939943
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:01:14 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.299	138	1828	0.469	ug/ml	98
76)	4,6-Dinitro-o-cresol	8.334	198	998	0.544	ug/ml#	1
77)	NDPA/DPA	8.404	169	8041	0.527	ug/ml	94
78)	Azobenzene	8.440	77	8517	0.526	ug/ml	94
80)	4-Bromophenyl phenyl e...	8.763	248	3206	0.517	ug/ml#	80
81)	Hexachlorobenzene	8.816	284	4220	0.542	ug/ml#	82
82)	Pentachlorophenol	9.010	266	1607	0.456	ug/ml	98
89)	Phenanthrene	9.198	178	16630	0.554	ug/ml	99
90)	Anthracene	9.246	178	15416	0.525	ug/ml	99
91)	Carbazole	9.410	167	14347	0.534	ug/ml	99
92)	Di-n-butylphthalate	9.798	149	15004	0.512	ug/ml	100
93)	Fluoranthene	10.357	202	18807M3	0.540	ug/ml	
94)	Benzidine	10.504	184	9089	0.475	ug/ml#	97
95)	Pyrene	10.575	202	19930	0.540	ug/ml	98
97)	Butyl benzyl phthalate	11.281	149	6152	0.474	ug/ml#	93
105)	Benzo(a)anthracene	11.810	228	20536	0.536	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.810	252	6714	0.481	ug/ml	97
107)	Chrysene	11.851	228	20927	0.557	ug/ml	97
108)	Bis(2-ethylhexyl)phtha...	11.922	149	8915	0.468	ug/ml#	97
109)	Di-n-octylphthalate	12.598	149	13695	0.469	ug/ml#	97
110)	Benzo(b)fluoranthene	12.922	252	21894	0.557	ug/ml#	92
111)	Benzo(k)fluoranthene	12.951	252	19443M3	0.542	ug/ml	
112)	Benzo(a)pyrene	13.239	252	18592	0.542	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	14.292	276	19562M6	0.500	ug/mL	
115)	Dibenzo(a,h)anthracene	14.316	278	20134	0.539	ug/ml#	90
116)	Benzo(ghi)perylene	14.557	276	20038	0.531	ug/ml#	93

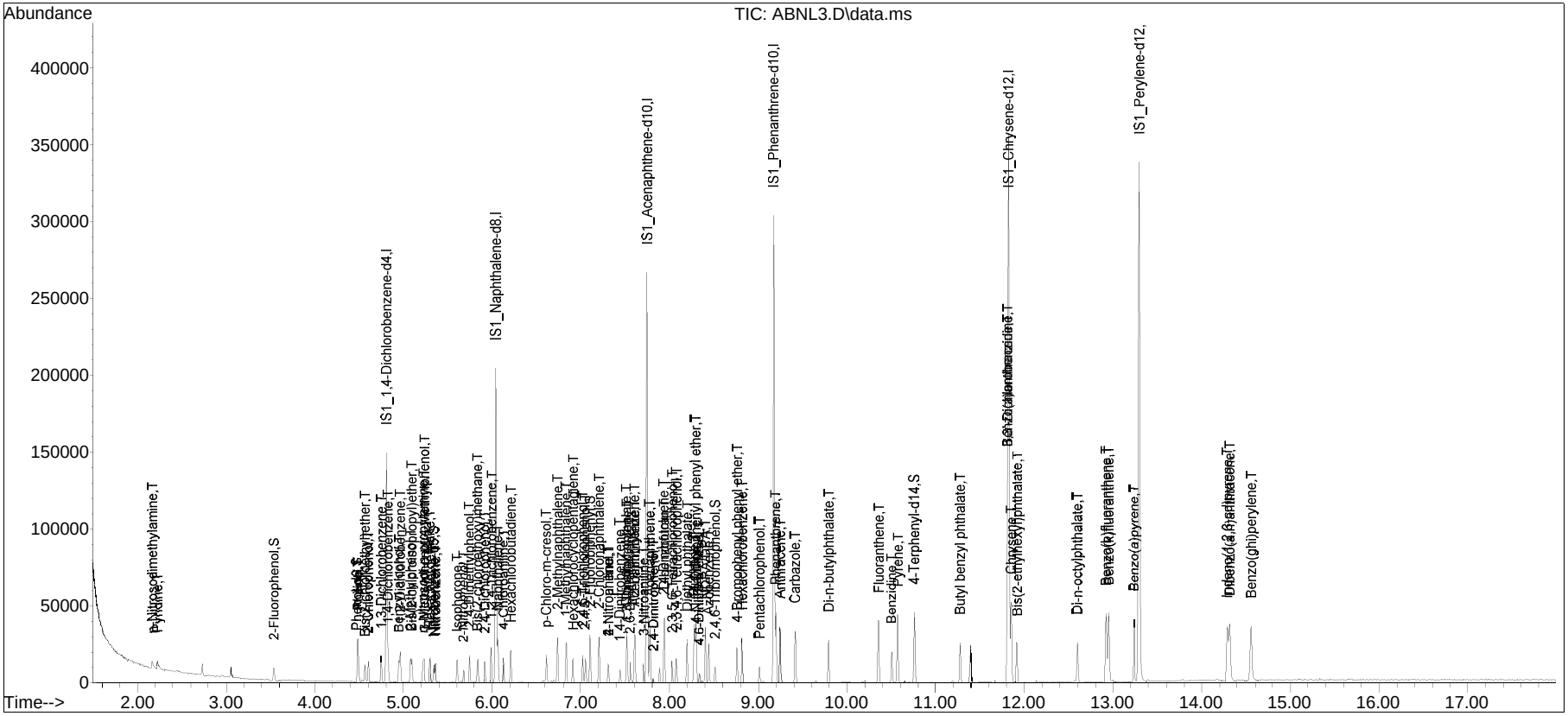
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL3.D
Acq On : 25 Jun 2024 10:37 pm
Operator : SV112:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939943
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:01:14 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

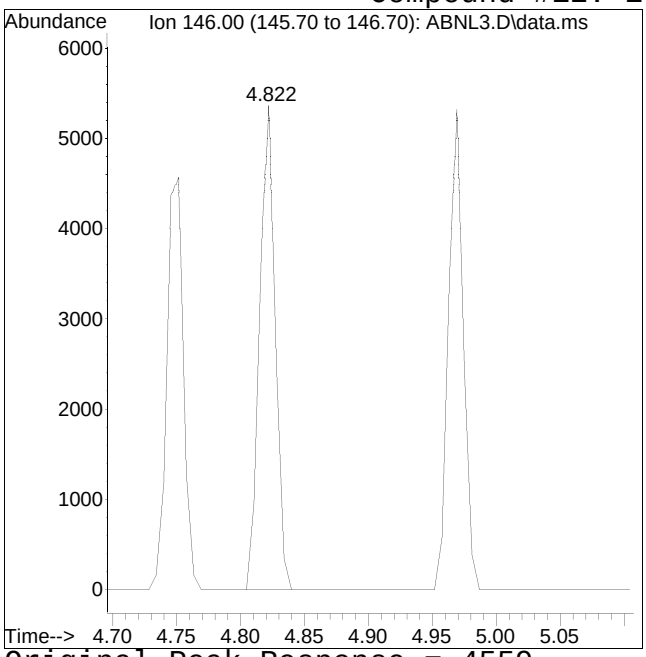
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

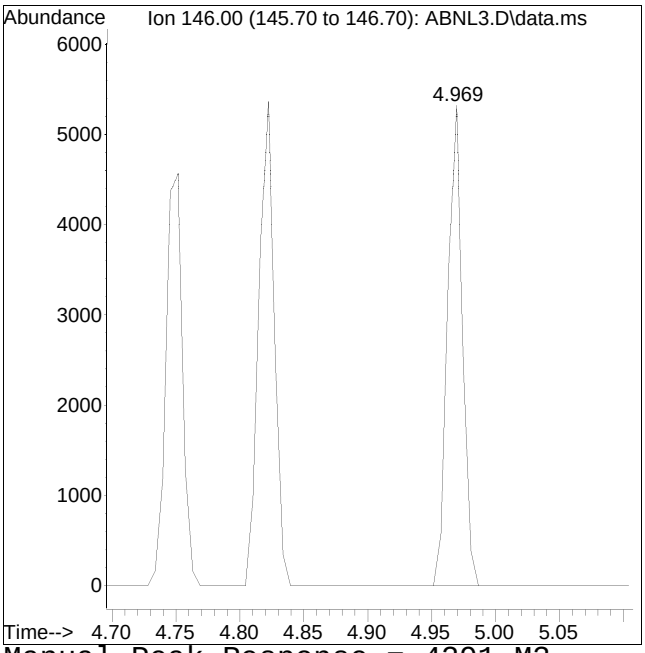


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #12: 1,2-Dichlorobenzene





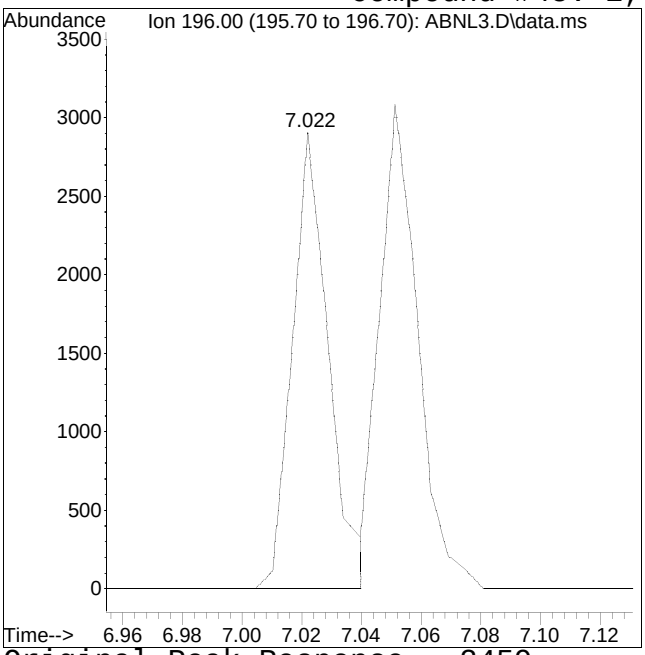
Original Peak Response = 4559 Manual Peak Response = 4291 M3

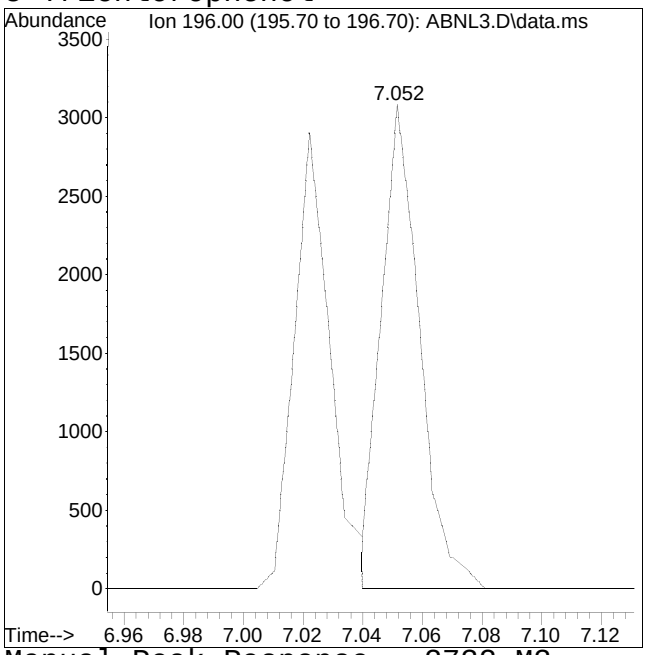
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





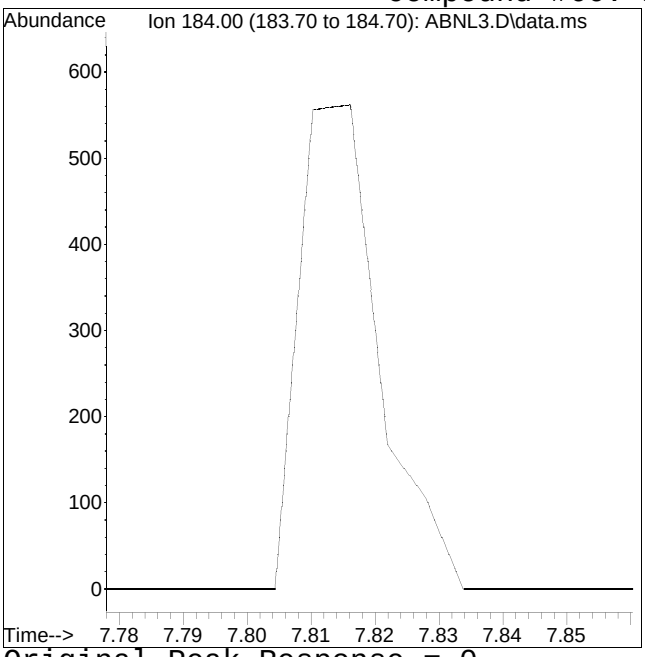
Original Peak Response = 2459 Manual Peak Response = 2732 M3

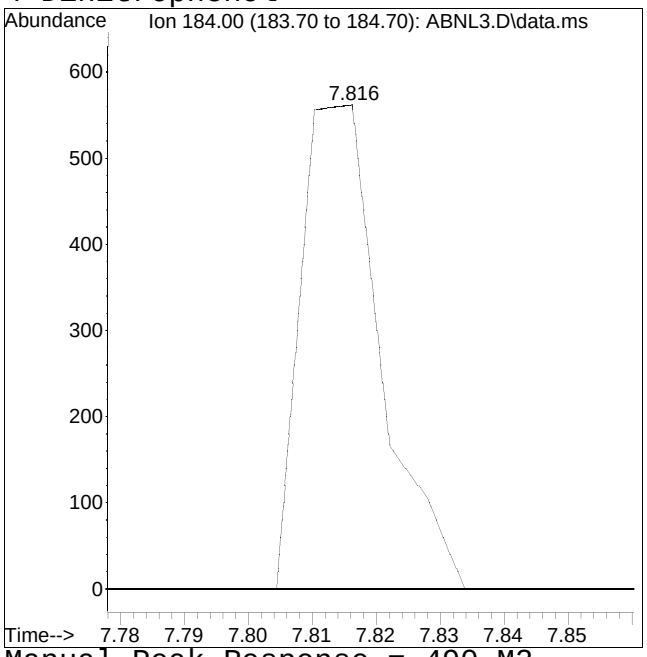
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #66: 2,4-Dinitrophenol



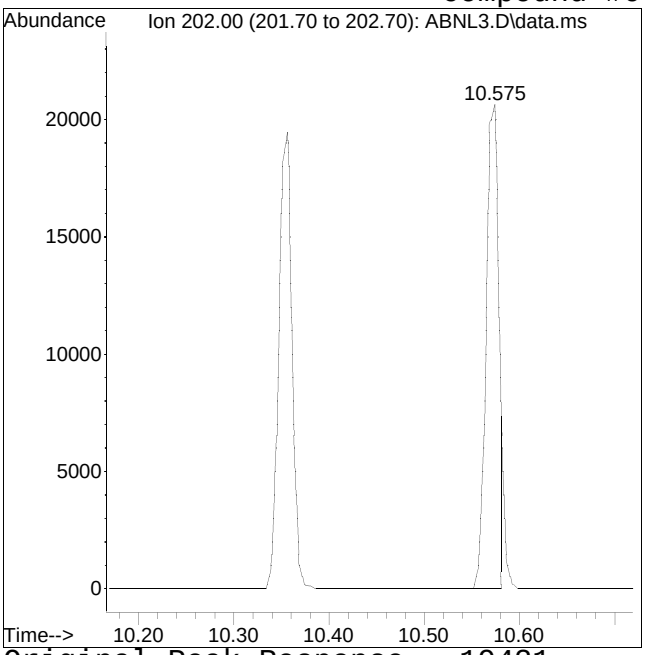


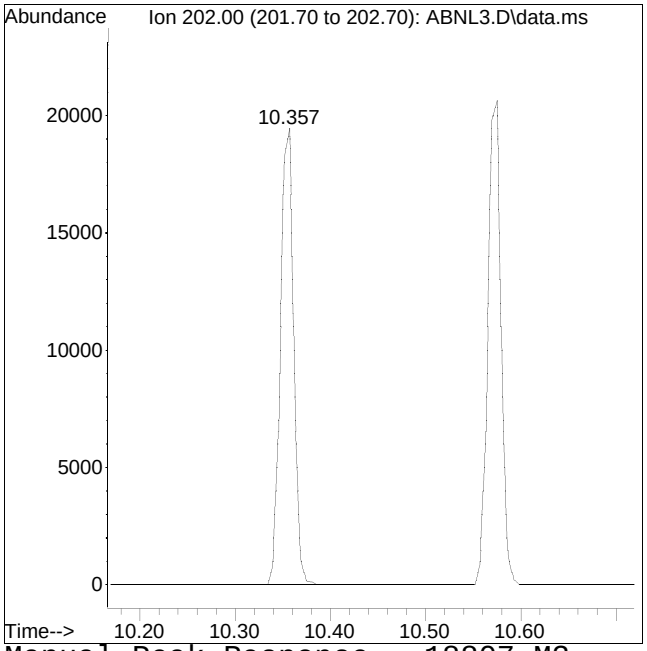
Original Peak Response = 0 Manual Peak Response = 490 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene



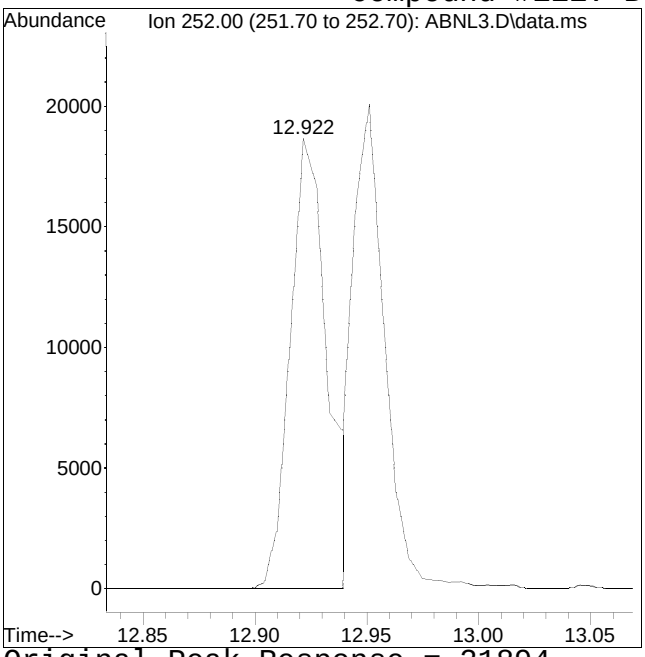


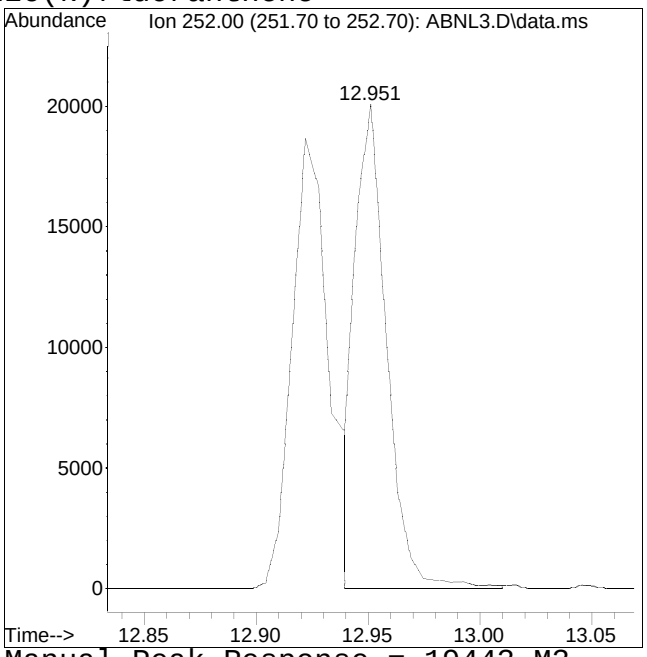
Original Peak Response = 19421 Manual Peak Response = 18807 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



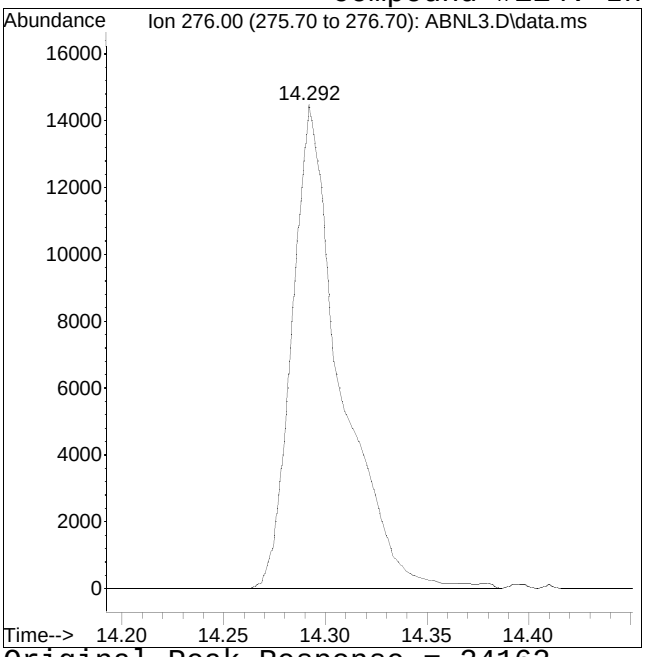


Original Peak Response = 21894 Manual Peak Response = 19443 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

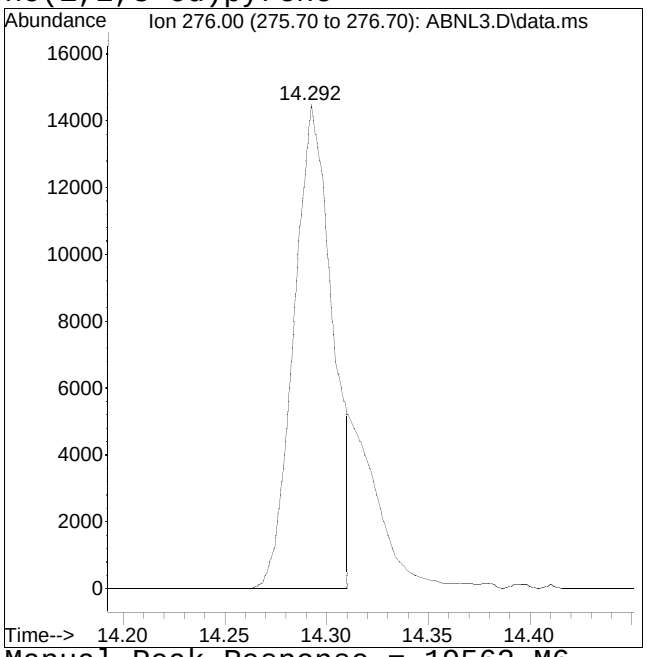
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 24162



Manual Peak Response = 19562 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL2.D
Acq On : 25 Jun 2024 11:00 pm
Operator : SV112:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939943
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 14:01:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.804	152	19198	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 90.28%		
35) IS1_Naphthalene-d8	6.040	136	71874	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 87.97%		
63) IS1_Acenaphthene-d10	7.745	164	44637	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 90.75%		
88) IS1_Phenanthrene-d10	9.175	188	102635	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 98.82%		
104) IS1_Chrysene-d12	11.822	240	108008	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 97.11%		
113) IS1_Perylene-d12	13.298	264	123684	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 94.13%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	1082	0.215 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.75%#		
7) Phenol-d6	4.475	99	1434	0.220 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.00%#		
19) Nitrobenzene-d5	5.346	82	1409	0.227 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 22.70%#		
46) 2-Fluorobiphenyl	7.104	172	4068	0.250 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 25.00%#		
79) 2,4,6-Tribromophenol	8.504	330	239M2	0.091 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.55%#		
96) 4-Terphenyl-d14	10.757	244	6360	0.241 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 24.10%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.175	74	656	0.208 ug/ml#	64
3) Pyridine	2.240	79	965	0.193 ug/ml	89
5) Aniline	4.487	93	2027	0.233 ug/ml#	56
6) 2-Chlorophenol	4.599	128	1348	0.225 ug/ml#	72
8) Phenol	4.487	94	1714	0.226 ug/ml#	48
9) Bis(2-chloroethyl)ether	4.563	93	1270	0.227 ug/ml#	82
10) 1,3-Dichlorobenzene	4.752	146	1712	0.236 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	1968	0.260 ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	1608	0.227 ug/ml	88
13) Benzyl alcohol	4.952	79	999	0.220 ug/ml	98

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL2.D
Acq On : 25 Jun 2024 11:00 pm
Operator : SV112:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939943
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 14:01:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	5.093	45	1733	0.245	ug/ml#	45
15) 2-Methylphenol	5.081	108	1175	0.232	ug/ml#	86
16) Hexachloroethane	5.299	117	641	0.239	ug/ml#	16
17) n-Nitrosodi-n-propylamine	5.222	70	956	0.230	ug/ml#	62
18) 3-Methylphenol/4-Methy...	5.234	108	1267	0.229	ug/ml#	89
20) Nitrobenzene	5.363	77	1400	0.226	ug/ml#	38
21) Isophorone	5.604	82	2427	0.217	ug/ml#	67
22) 2-Nitrophenol	5.675	139	546	0.198	ug/ml#	33
23) 2,4-Dimethylphenol	5.746	107	1160	0.219	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	1855	0.247	ug/ml#	88
25) 2,4-Dichlorophenol	5.916	162	1210	0.219	ug/ml#	72
26) 1,2,4-Trichlorobenzene	5.993	180	1781	0.254	ug/ml#	81
36) Naphthalene	6.057	128	4649	0.247	ug/ml	99
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	6.128	65	568	0.268	ug/ml	97
39) Hexachlorobutadiene	6.210	225	1009	0.228	ug/ml	92
40) p-Chloro-m-cresol	6.616	107	1112	0.224	ug/ml#	87
41) 2-Methylnaphthalene	6.740	142	3159	0.247	ug/ml	96
42) 1-Methylnaphthalene	6.834	115	1048	0.238	ug/ml	99
43) Hexachlorocyclopentadiene	6.910	237	1022	0.227	ug/ml#	93
44) 2,4,6-Trichlorophenol	7.022	196	998	0.217	ug/ml#	85
45) 2,4,5-Trichlorophenol	7.051	196	965M3	0.205	ug/ml	
47) 2-Chloronaphthalene	7.204	162	3300	0.242	ug/ml	93
48) 2-Nitroaniline	7.310	138	717	0.199	ug/ml#	65
49) 1,4-Dinitrobenzene	7.440	168	311M2	0.176	ug/ml	
50) 1,3-Dinitrobenzene	7.516	168	394M2	0.192	ug/ml	
51) Dimethyl phthalate	7.510	163	3960	0.239	ug/ml#	77
52) Acenaphthylene	7.604	152	4685	0.233	ug/ml	98
53) 2,6-Dinitrotoluene	7.551	165	619	0.200	ug/ml#	35
54) 1,2-Dinitrobenzene	7.593	168	157M3	0.132	ug/ml	
64) 3-Nitroaniline	7.710	138	661	0.198	ug/ml#	73
65) Acenaphthene	7.775	154	3104	0.250	ug/ml	97
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.945	168	5020	0.245	ug/ml	93
68) 2,4-Dinitrotoluene	7.940	165	820	0.192	ug/ml#	88
69) 4-Nitrophenol	7.310	65	695	0.215	ug/ml#	5
70) 2,3,5,6-Tetrachlorophenol	8.034	232	763	0.182	ug/ml#	73
71) 2,3,4,6-Tetrachlorophenol	8.075	232	760	0.184	ug/ml#	68
72) Diethyl phthalate	8.198	149	4032	0.243	ug/ml#	83
73) Fluorene	8.275	166	3788	0.237	ug/ml#	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL2.D
Acq On : 25 Jun 2024 11:00 pm
Operator : SV112:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939943
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 14:01:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	8.293	204	2303	0.265	ug/ml#	73
75) 4-Nitroaniline	8.293	138	643	0.183	ug/ml	91
76) 4,6-Dinitro-o-cresol	8.334	198	251M2	0.319	ug/ml	
77) NDPA/DPA	8.404	169	3203	0.233	ug/ml	98
78) Azobenzene	8.440	77	3151	0.216	ug/ml#	92
80) 4-Bromophenyl phenyl e...	8.763	248	1395	0.250	ug/ml#	78
81) Hexachlorobenzene	8.816	284	1719	0.245	ug/ml#	87
82) Pentachlorophenol	9.010	266	511	0.161	ug/ml#	18
89) Phenanthrene	9.198	178	6872	0.253	ug/ml	97
90) Anthracene	9.245	178	6523	0.246	ug/ml	97
91) Carbazole	9.416	167	5745	0.236	ug/ml	98
92) Di-n-butylphthalate	9.798	149	6125	0.231	ug/ml#	94
93) Fluoranthene	10.351	202	7611M3	0.242	ug/ml	
94) Benzidine	10.504	184	3166	0.183	ug/ml#	68
95) Pyrene	10.575	202	7787	0.233	ug/ml	99
97) Butyl benzyl phthalate	11.281	149	2316	0.197	ug/ml#	91
105) Benzo(a)anthracene	11.810	228	8184	0.236	ug/ml	97
106) 3,3'-Dichlorobenzidine	11.810	252	2557	0.202	ug/ml#	90
107) Chrysene	11.851	228	8370M3	0.246	ug/ml	
108) Bis(2-ethylhexyl)phtha...	11.916	149	3547	0.206	ug/ml#	97
109) Di-n-octylphthalate	12.598	149	5186	0.196	ug/ml#	75
110) Benzo(b)fluoranthene	12.922	252	8396	0.236	ug/ml#	94
111) Benzo(k)fluoranthene	12.951	252	7521M3	0.232	ug/ml	
112) Benzo(a)pyrene	13.239	252	7115	0.229	ug/ml#	91
114) Indeno(1,2,3-cd)pyrene	14.292	276	7638M6	0.221	ug/mL	
115) Dibenzo(a,h)anthracene	14.316	278	7194	0.218	ug/ml#	91
116) Benzo(ghi)perylene	14.557	276	8051	0.242	ug/ml#	90

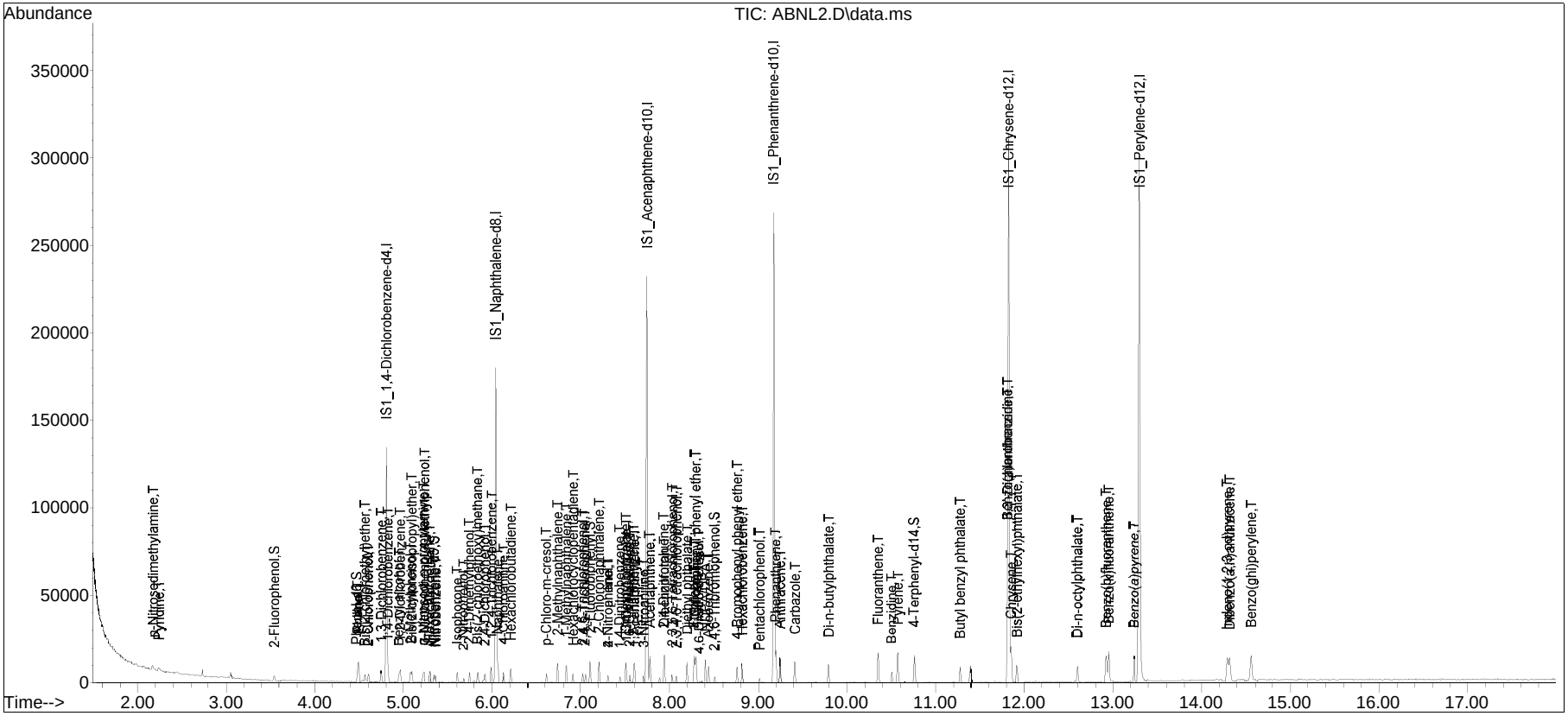
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL2.D
Acq On : 25 Jun 2024 11:00 pm
Operator : SV112:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939943
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 14:01:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

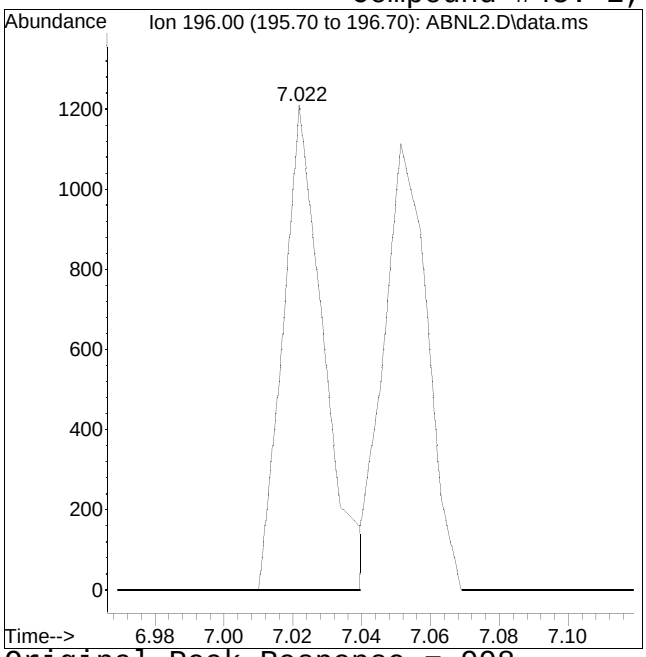
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

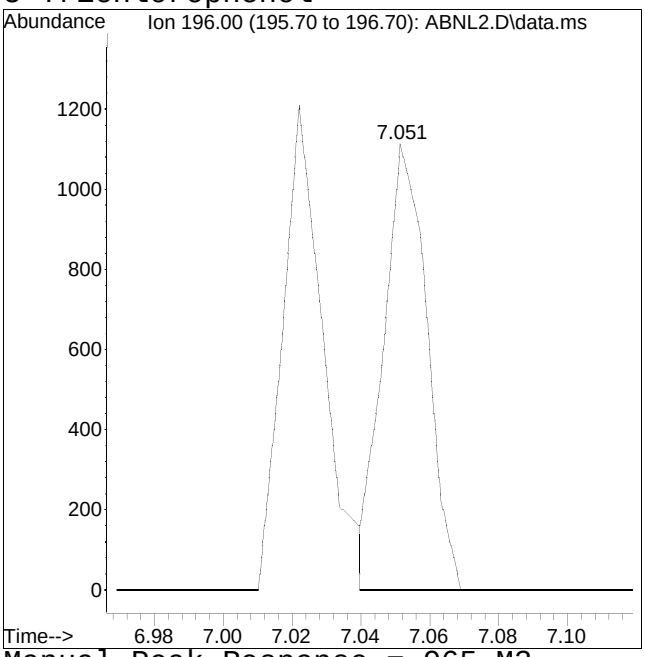


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #45: 2,4,5-Trichlorophenol





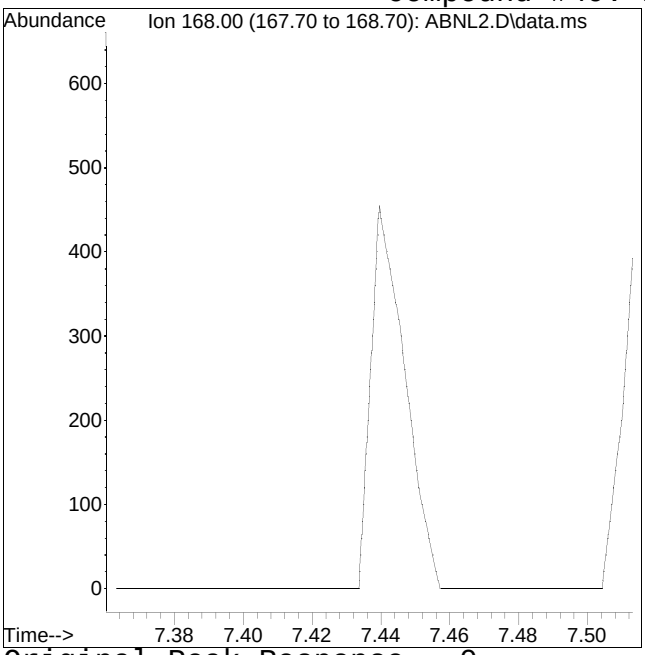
Original Peak Response = 998 Manual Peak Response = 965 M3

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

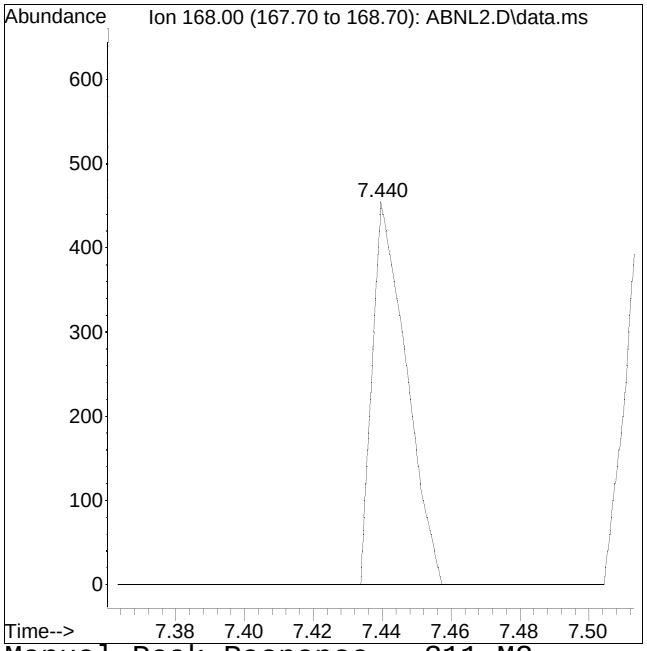
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 0



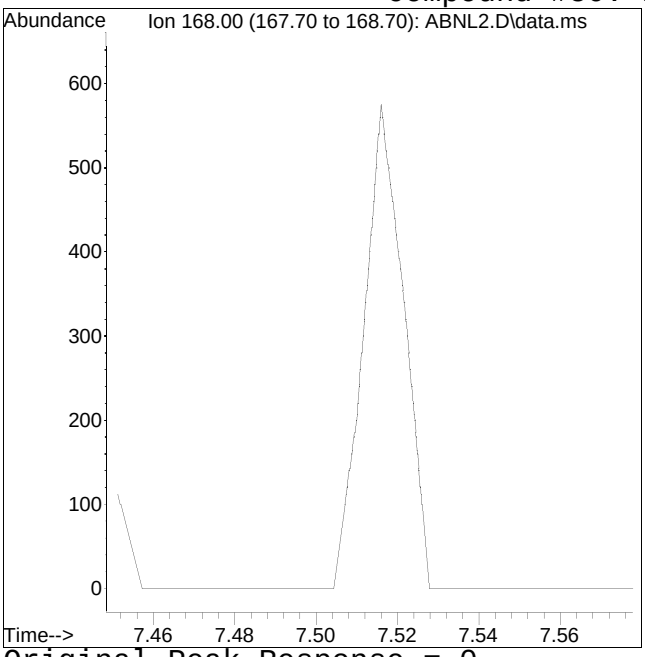
Manual Peak Response = 311 M2

M2 = Peak not found by automatic integration algorithm.

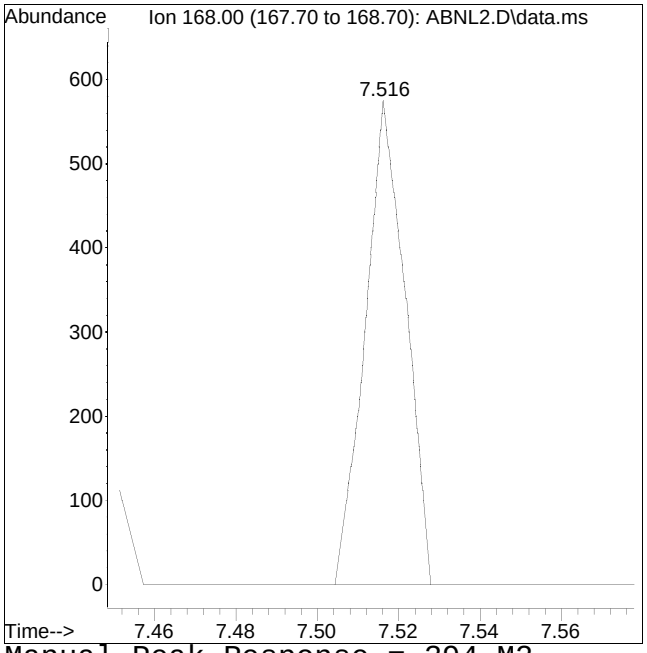
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 0



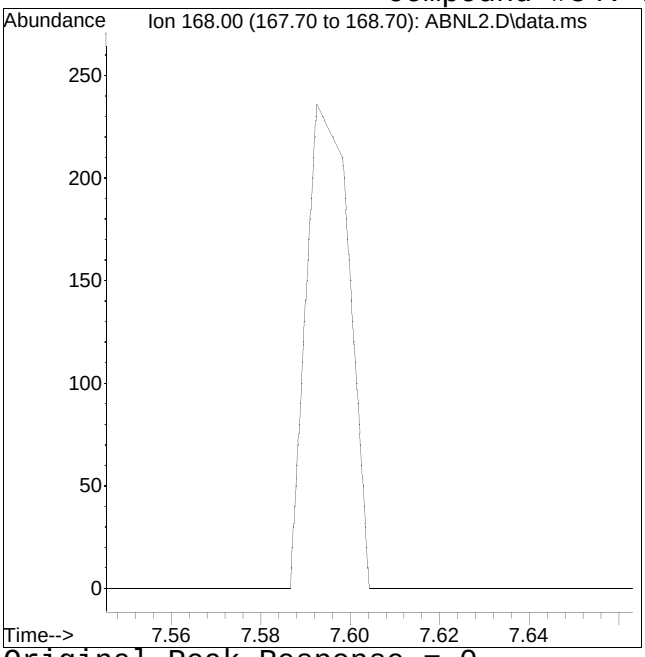
Manual Peak Response = 394 M2

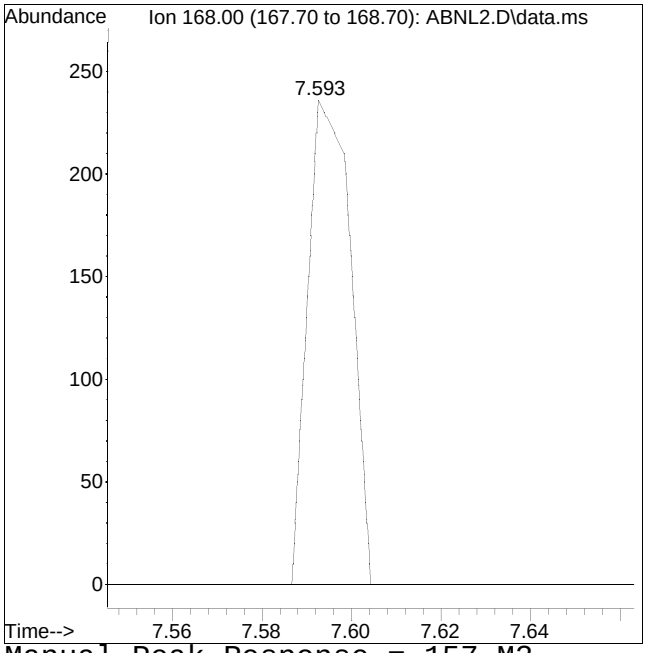
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #54: 1,2-Dinitrobenzene





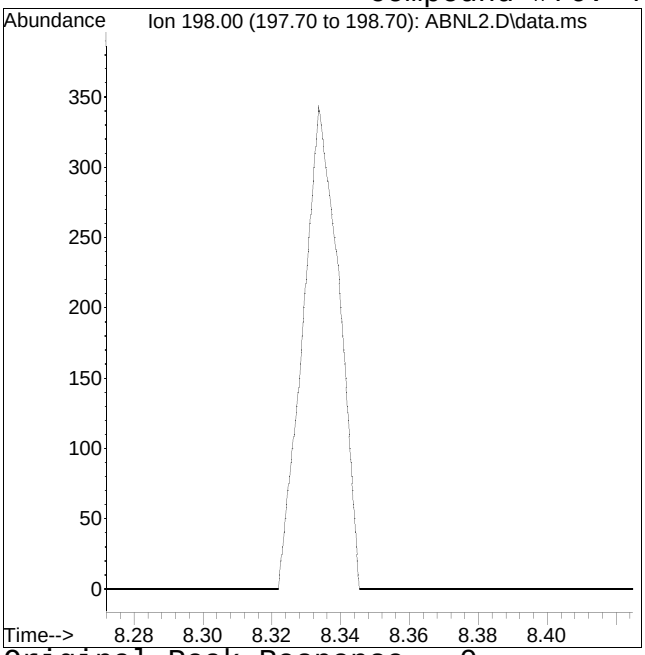
Original Peak Response = 0 Manual Peak Response = 157 M3

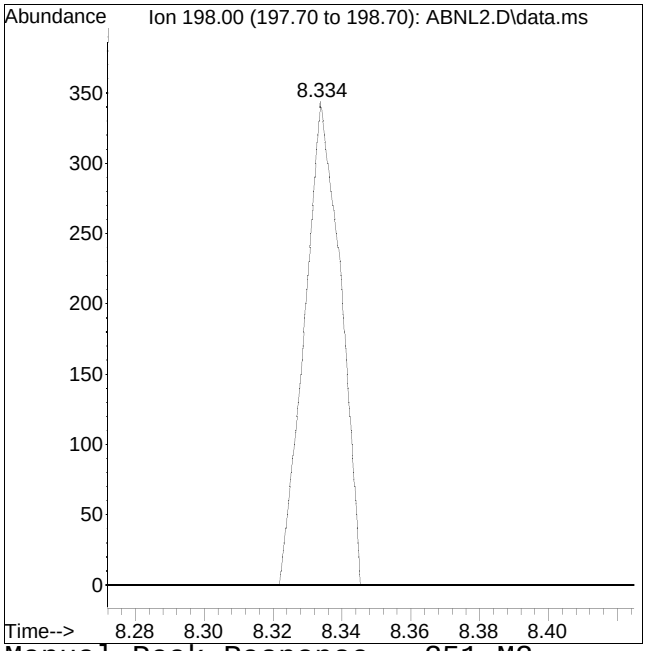
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #76: 4,6-Dinitro-o-cresol



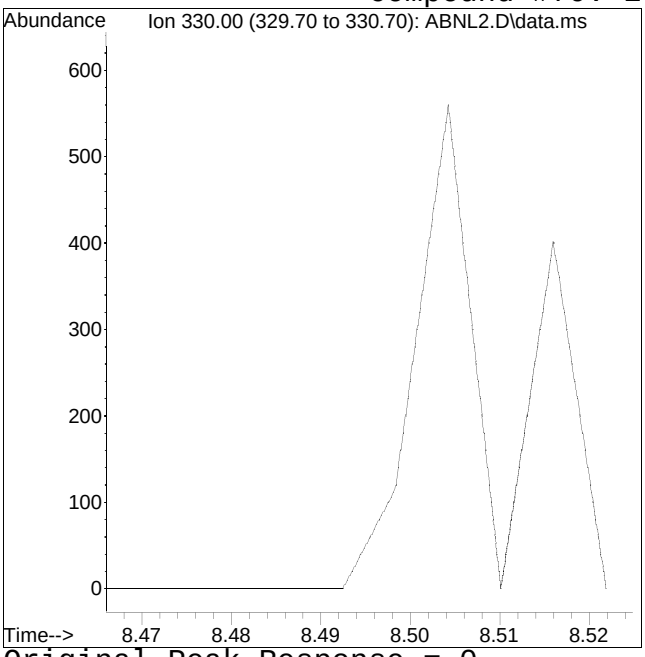


Original Peak Response = 0 Manual Peak Response = 251 M2
M2 = Peak not found by automatic integration algorithm.

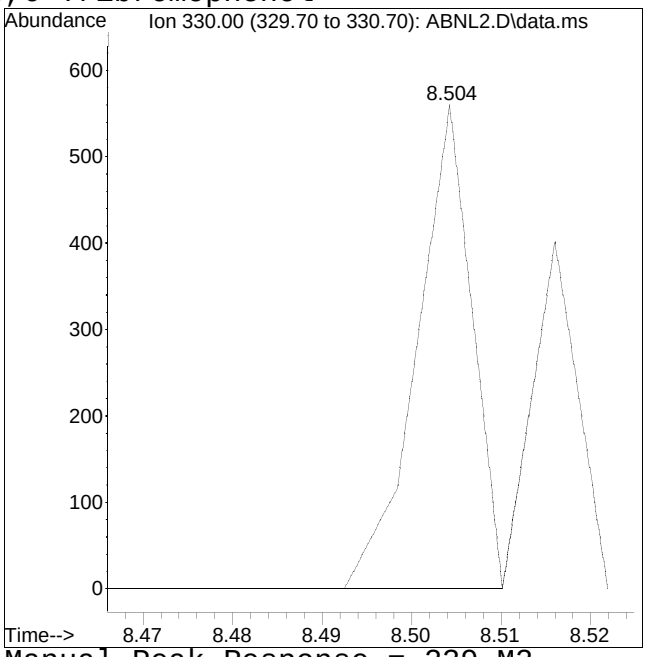
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #79: 2,4,6-Tribromophenol



Original Peak Response = 0



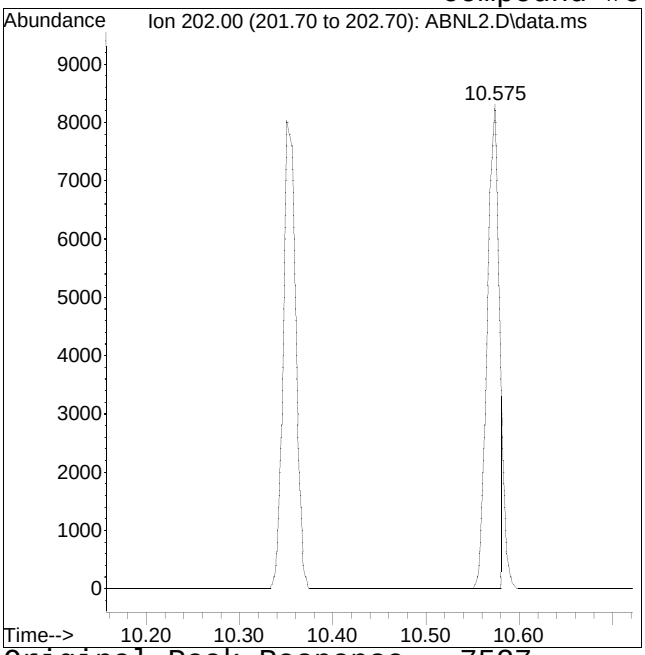
Manual Peak Response = 239 M2

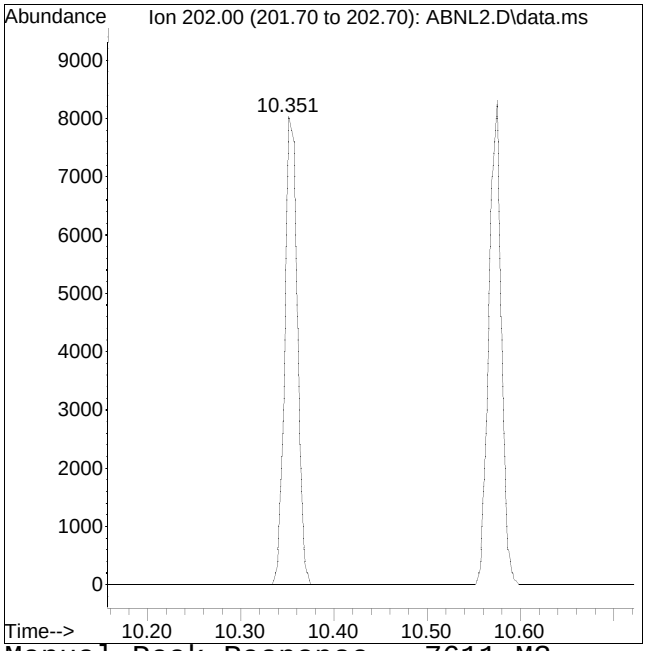
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #93: Fluoranthene



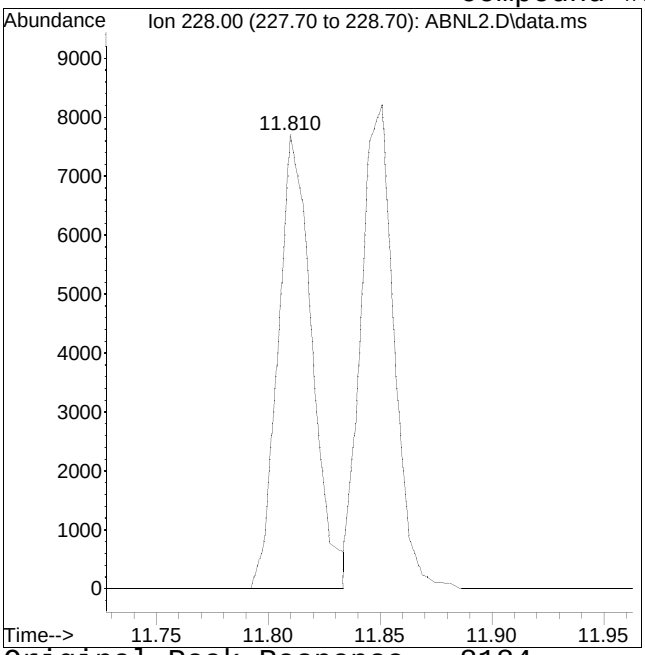


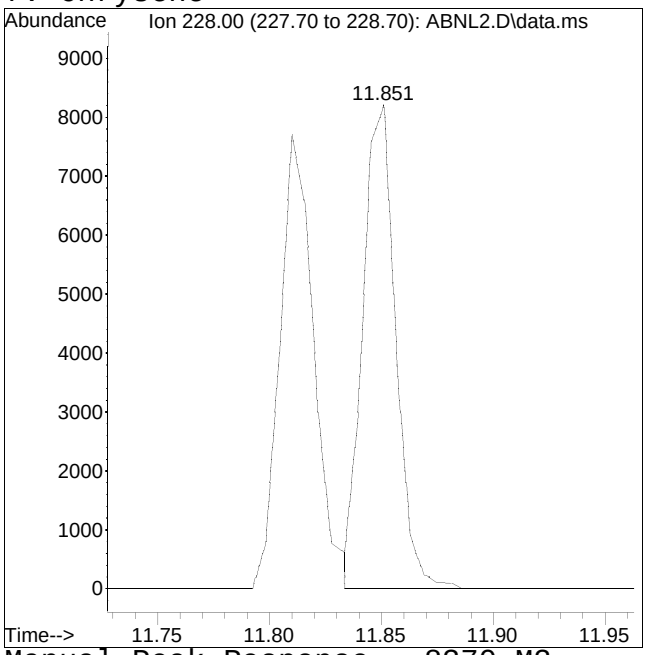
Original Peak Response = 7527 Manual Peak Response = 7611 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #107: Chrysene





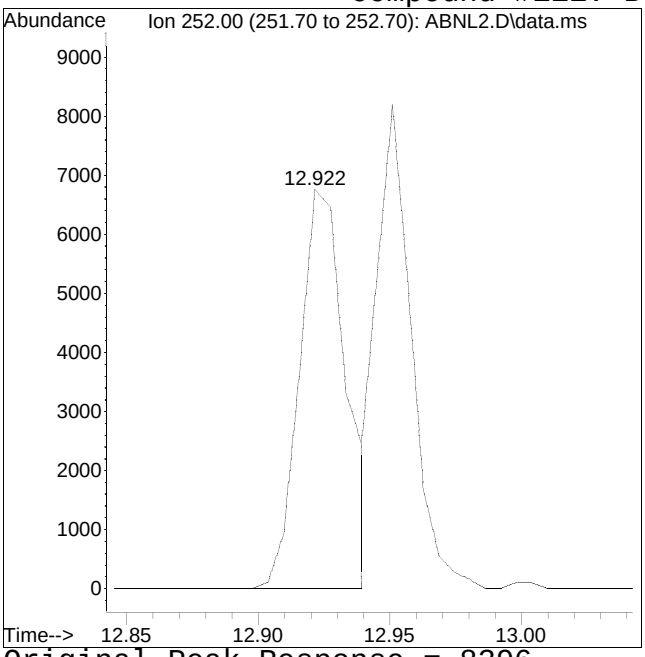
Original Peak Response = 8184 Manual Peak Response = 8370 M3

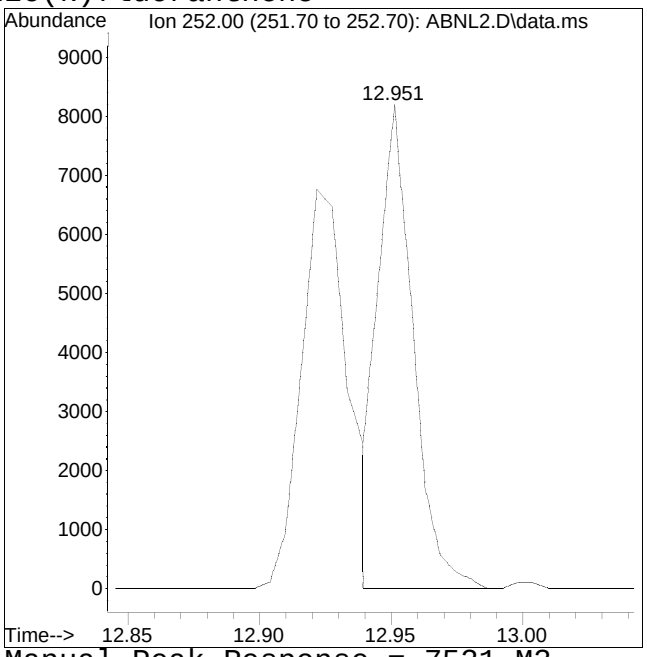
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #111: Benzo(k)fluoranthene



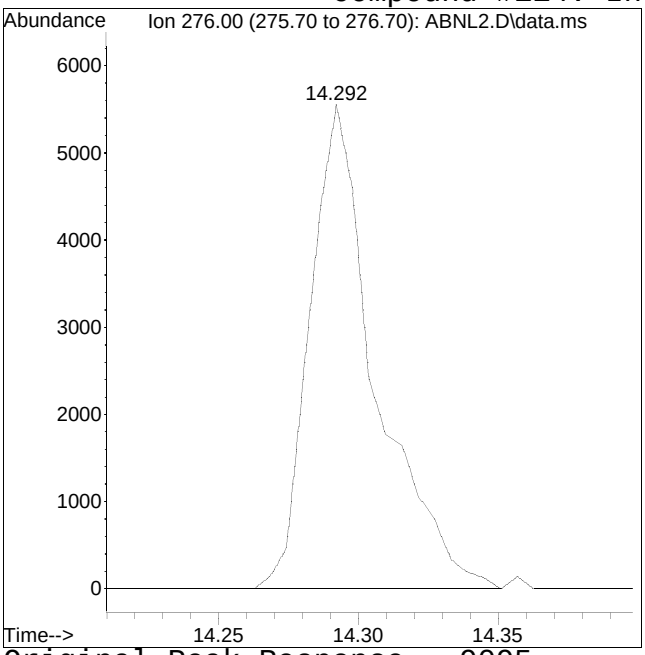


Original Peak Response = 8396 Manual Peak Response = 7521 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

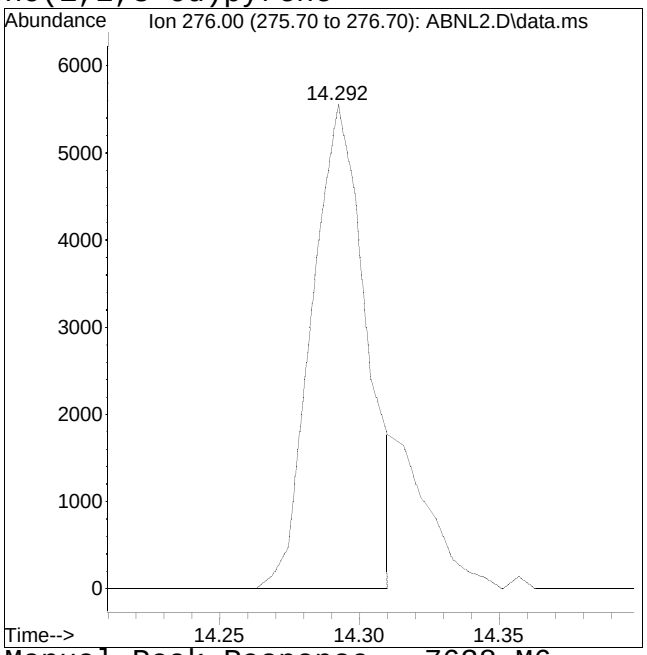
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 9095



Manual Peak Response = 7638 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL1.D
Acq On : 25 Jun 2024 11:23 pm
Operator : SV112:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939943
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 14:00:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	20493	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 96.37%		
35) IS1_Naphthalene-d8	6.040	136	75511	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 92.42%		
63) IS1_Acenaphthene-d10	7.746	164	45957	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 93.43%		
88) IS1_Phenanthrene-d10	9.175	188	105241	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 101.33%		
104) IS1_Chrysene-d12	11.822	240	110283	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 99.15%		
113) IS1_Perylene-d12	13.298	264	126398	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 96.20%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	534	0.099 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.95%#		
7) Phenol-d6	4.481	99	783	0.113 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.65%#		
19) Nitrobenzene-d5	5.346	82	699	0.105 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.50%#		
46) 2-Fluorobiphenyl	7.104	172	2091	0.122 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 12.20%#		
79) 2,4,6-Tribromophenol	8.510	330	276M2	0.102 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.10%#		
96) 4-Terphenyl-d14	10.757	244	3232	0.119 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.90%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.181	74	288M2	0.086 ug/ml	
3) Pyridine	2.252	79	392M2	0.073 ug/ml	
5) Aniline	4.487	93	1042	0.112 ug/ml#	61
6) 2-Chlorophenol	4.605	128	741	0.116 ug/ml#	34
8) Phenol	4.493	94	931	0.115 ug/ml#	50
9) Bis(2-chloroethyl)ether	4.563	93	728	0.122 ug/ml#	17
10) 1,3-Dichlorobenzene	4.752	146	935	0.121 ug/ml#	71
11) 1,4-Dichlorobenzene	4.822	146	985	0.122 ug/ml#	83
12) 1,2-Dichlorobenzene	4.969	146	894	0.118 ug/ml#	68
13) Benzyl alcohol	4.957	79	437M4	0.090 ug/ml	

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL1.D
Acq On : 25 Jun 2024 11:23 pm
Operator : SV112:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939943
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 14:00:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	5.093	45	790	0.105	ug/ml#	62
15) 2-Methylphenol	5.081	108	547	0.101	ug/ml#	15
16) Hexachloroethane	5.299	117	310M2	0.109	ug/ml	
17) n-Nitrosodi-n-propylamine	5.222	70	439M2	0.099	ug/ml	
18) 3-Methylphenol/4-Methy...	5.234	108	568	0.096	ug/ml#	93
20) Nitrobenzene	5.363	77	704	0.107	ug/ml#	38
21) Isophorone	5.604	82	1294	0.108	ug/ml#	67
22) 2-Nitrophenol	5.675	139	293M2	0.100	ug/ml	
23) 2,4-Dimethylphenol	5.746	107	538	0.095	ug/ml#	63
24) Bis(2-chloroethoxy)met...	5.834	93	899	0.112	ug/ml#	50
25) 2,4-Dichlorophenol	5.916	162	615	0.104	ug/ml#	25
26) 1,2,4-Trichlorobenzene	5.993	180	933	0.125	ug/ml#	80
36) Naphthalene	6.057	128	2390	0.121	ug/ml#	50
37) Benzoic Acid	5.722		0	N.D.		
38) 4-Chloroaniline	6.128	65	151M2	0.068	ug/ml	
39) Hexachlorobutadiene	6.210	225	534	0.115	ug/ml#	19
40) p-Chloro-m-cresol	6.616	107	494M2	0.095	ug/ml	
41) 2-Methylnaphthalene	6.740	142	1597	0.119	ug/ml	96
42) 1-Methylnaphthalene	6.834	115	597	0.129	ug/ml	85
43) Hexachlorocyclopentadiene	6.910	237	462M2	0.098	ug/ml	
44) 2,4,6-Trichlorophenol	7.022	196	484M2	0.100	ug/ml	
45) 2,4,5-Trichlorophenol	7.051	196	457M2	0.092	ug/ml	
47) 2-Chloronaphthalene	7.204	162	1787	0.125	ug/ml#	87
48) 2-Nitroaniline	7.310	138	357M2	0.094	ug/ml	
49) 1,4-Dinitrobenzene	7.440	168	156M2	0.084	ug/ml	
50) 1,3-Dinitrobenzene	7.516	168	177M2	0.082	ug/ml	
51) Dimethyl phthalate	7.510	163	2152	0.124	ug/ml#	77
52) Acenaphthylene	7.604	152	2412	0.114	ug/ml#	61
53) 2,6-Dinitrotoluene	7.551	165	326M3	0.100	ug/ml	
54) 1,2-Dinitrobenzene	7.599	168	55M3	0.044	ug/ml	
64) 3-Nitroaniline	7.710	138	290M2	0.084	ug/ml	
65) Acenaphthene	7.775	154	1510	0.118	ug/ml	98
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.946	168	2540	0.120	ug/ml	93
68) 2,4-Dinitrotoluene	7.940	165	366M3	0.083	ug/ml	
69) 4-Nitrophenol	7.310	65	364M2	0.109	ug/ml	
70) 2,3,5,6-Tetrachlorophenol	8.034	232	401M2	0.093	ug/ml	
71) 2,3,4,6-Tetrachlorophenol	8.075	232	376M2	0.088	ug/ml	
72) Diethyl phthalate	8.198	149	2066	0.121	ug/ml#	62
73) Fluorene	8.275	166	1978	0.120	ug/ml#	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL1.D
Acq On : 25 Jun 2024 11:23 pm
Operator : SV112:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939943
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 14:00:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	8.293	204	1099	0.123	ug/ml#	63
75) 4-Nitroaniline	8.293	138	279M2	0.077	ug/ml	
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
77) NDPA/DPA	8.404	169	1660	0.117	ug/ml	95
78) Azobenzene	8.440	77	1751	0.117	ug/ml#	55
80) 4-Bromophenyl phenyl e...	8.763	248	734	0.128	ug/ml#	52
81) Hexachlorobenzene	8.816	284	1010	0.140	ug/ml#	35
82) Pentachlorophenol	9.010	266	133M2	0.041	ug/ml	
89) Phenanthrene	9.198	178	3473	0.125	ug/ml	98
90) Anthracene	9.245	178	3305M3	0.121	ug/ml	
91) Carbazole	9.416	167	2768	0.111	ug/ml#	87
92) Di-n-butylphthalate	9.798	149	2918	0.107	ug/ml#	78
93) Fluoranthene	10.357	202	3944	0.122	ug/ml#	84
94) Benzidine	10.504	184	1677	0.094	ug/ml#	68
95) Pyrene	10.575	202	4212	0.123	ug/ml	97
97) Butyl benzyl phthalate	11.281	149	1280	0.106	ug/ml#	87
105) Benzo(a)anthracene	11.810	228	4414	0.125	ug/ml	95
106) 3,3'-Dichlorobenzidine	11.810	252	1334	0.103	ug/ml#	82
107) Chrysene	11.845	228	4617	0.133	ug/ml	95
108) Bis(2-ethylhexyl)phtha...	11.916	149	1709	0.097	ug/ml#	56
109) Di-n-octylphthalate	12.598	149	2547	0.094	ug/ml#	75
110) Benzo(b)fluoranthene	12.922	252	4361	0.120	ug/ml#	82
111) Benzo(k)fluoranthene	12.951	252	3489M3	0.105	ug/ml	
112) Benzo(a)pyrene	13.239	252	3478M3	0.110	ug/ml	
114) Indeno(1,2,3-cd)pyrene	14.292	276	3767M6	0.107	ug/mL	
115) Dibenzo(a,h)anthracene	14.316	278	3287	0.097	ug/ml#	77
116) Benzo(ghi)perylene	14.557	276	3809	0.112	ug/ml	93

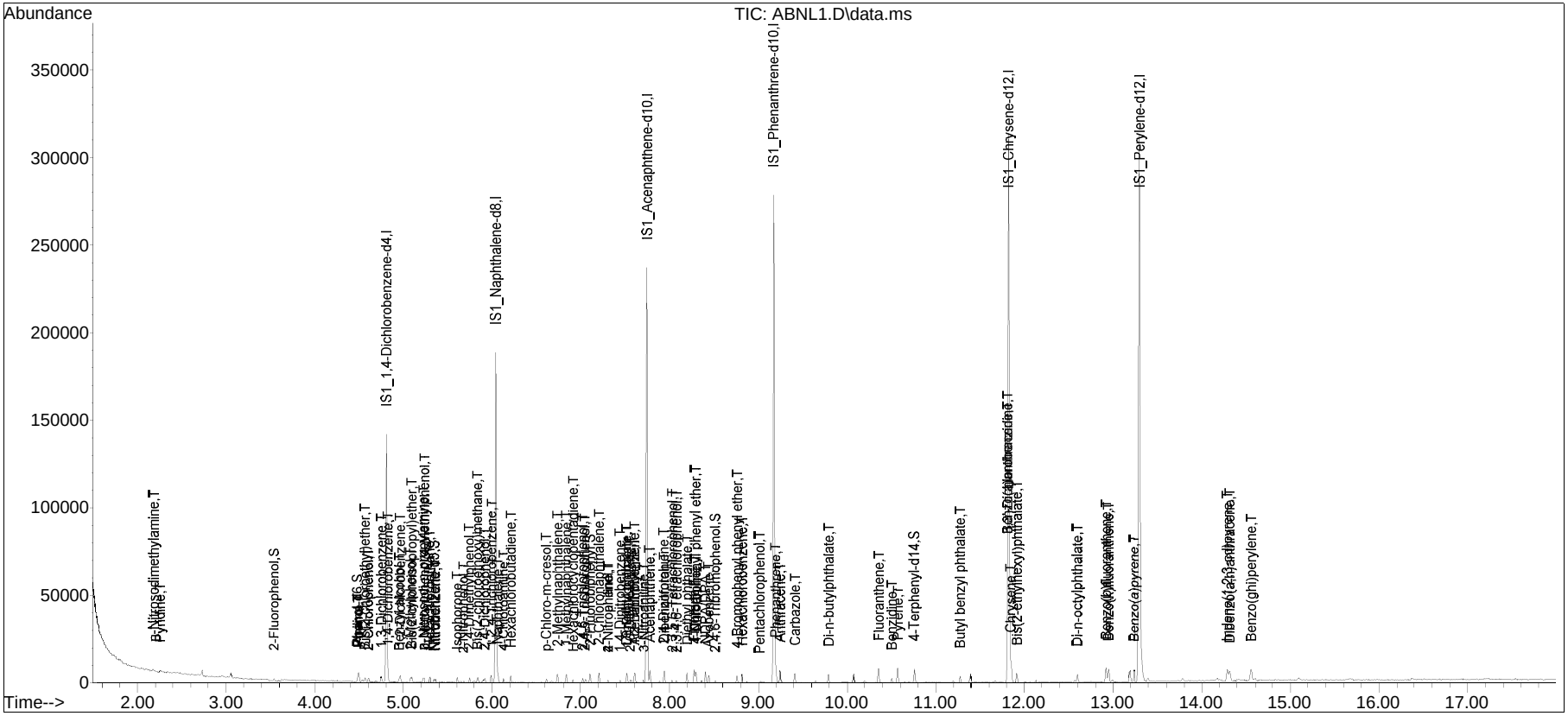
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL1.D
Acq On : 25 Jun 2024 11:23 pm
Operator : SV112:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939943
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 14:00:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

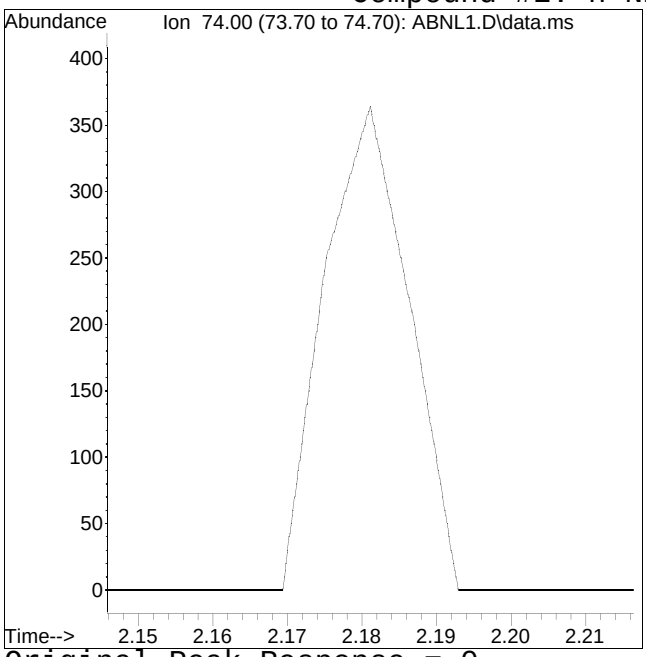
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



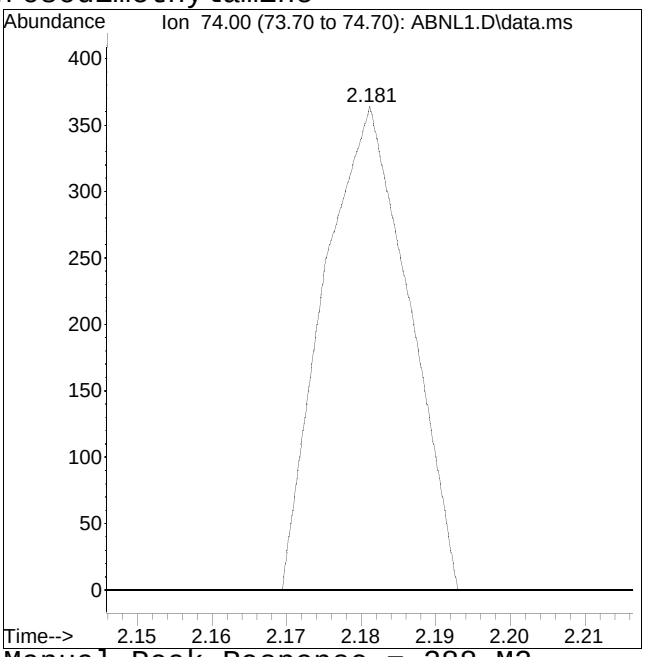
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #2: n-Nitrosodimethylamine



Original Peak Response = 0



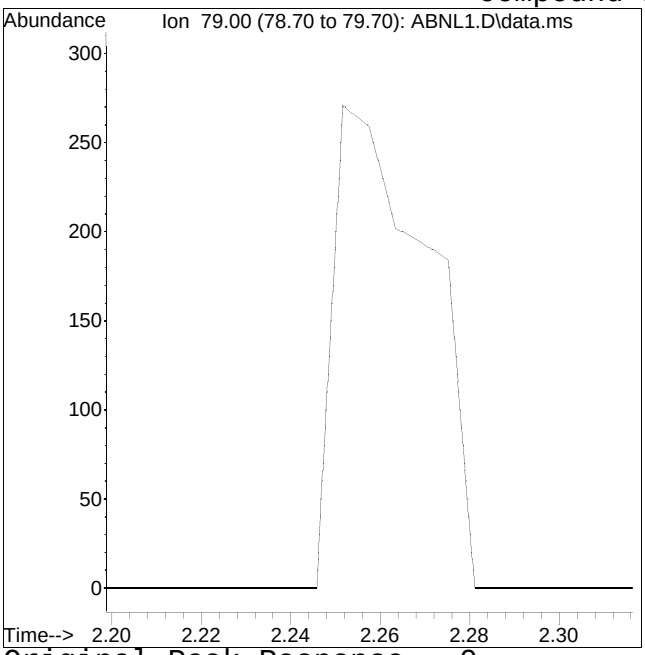
Manual Peak Response = 288 M2

M2 = Peak not found by automatic integration algorithm.

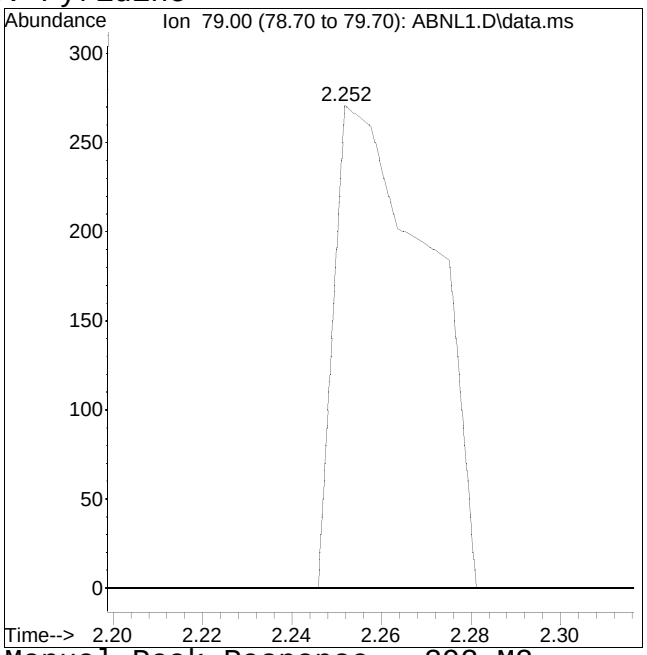
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #3: Pyridine



Original Peak Response = 0



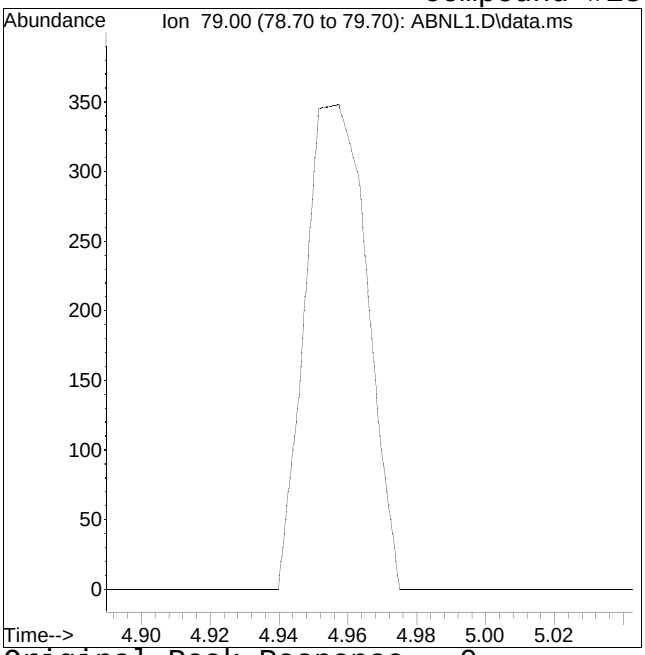
Manual Peak Response = 392 M2

M2 = Peak not found by automatic integration algorithm.

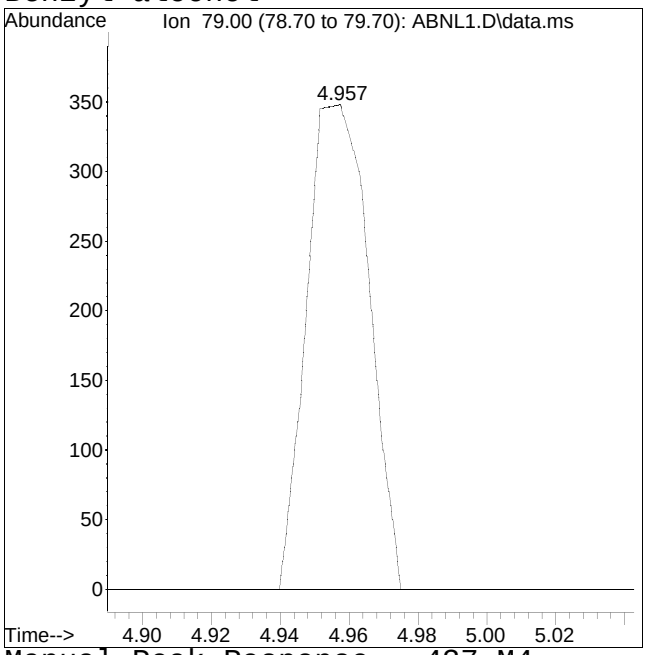
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #13: Benzyl alcohol



Original Peak Response = 0



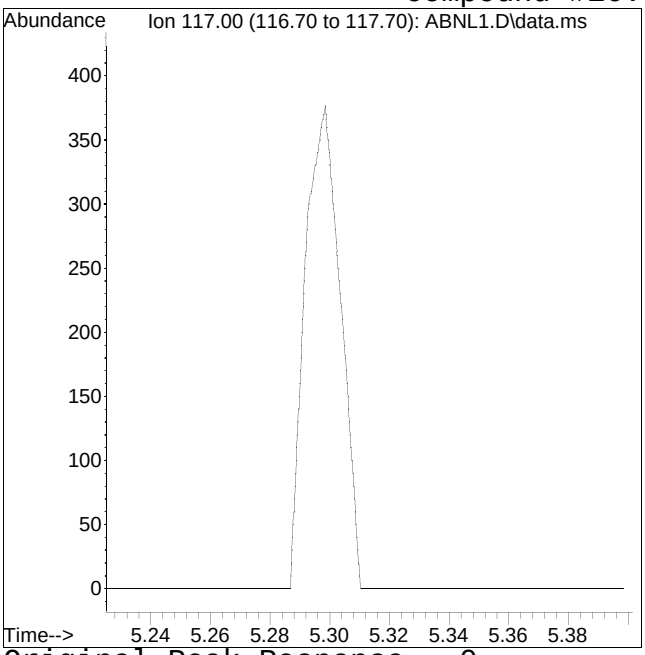
Manual Peak Response = 437 M4

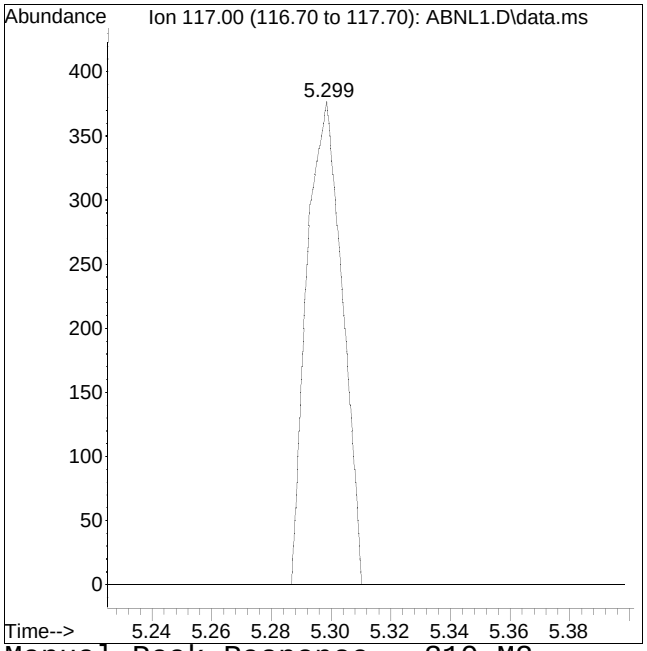
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #16: Hexachloroethane



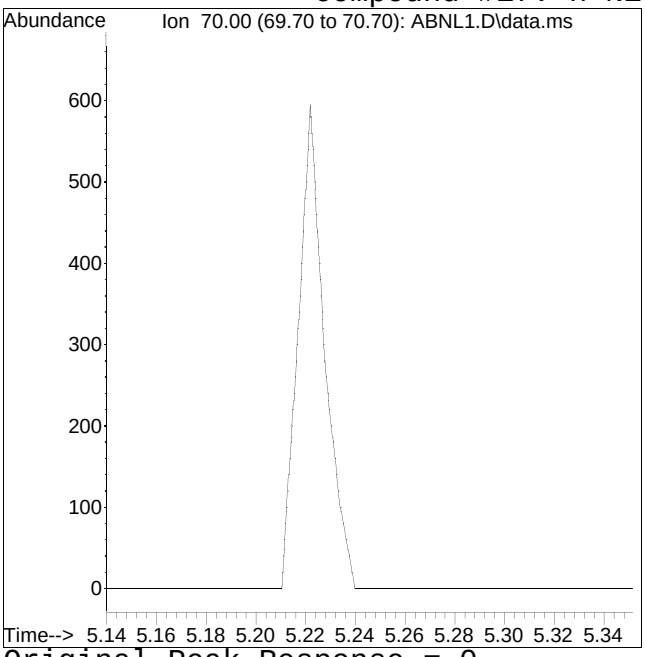


Original Peak Response = 0 Manual Peak Response = 310 M2
M2 = Peak not found by automatic integration algorithm.

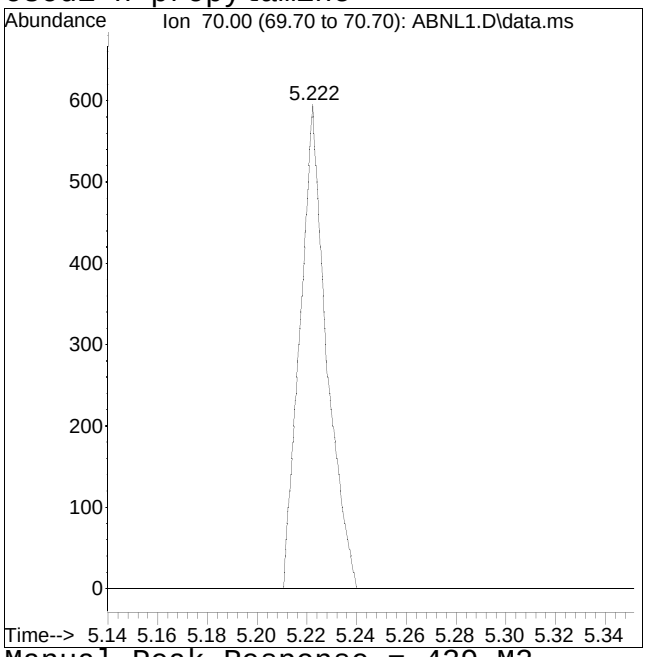
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #17: n-Nitrosodi-n-propylamine



Original Peak Response = 0



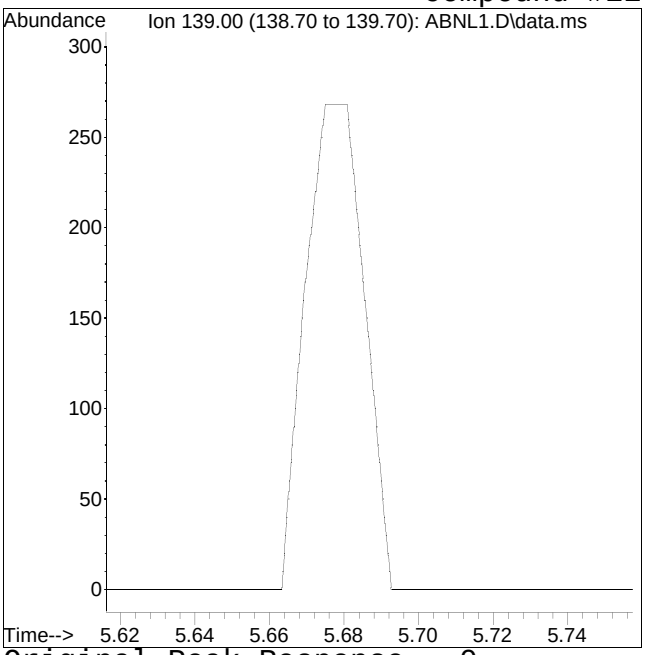
Manual Peak Response = 439 M2

M2 = Peak not found by automatic integration algorithm.

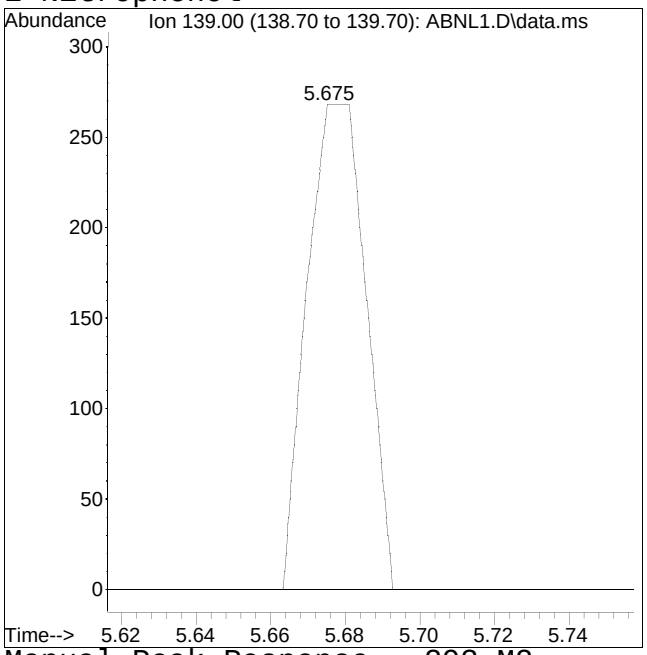
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #22: 2-Nitrophenol



Original Peak Response = 0



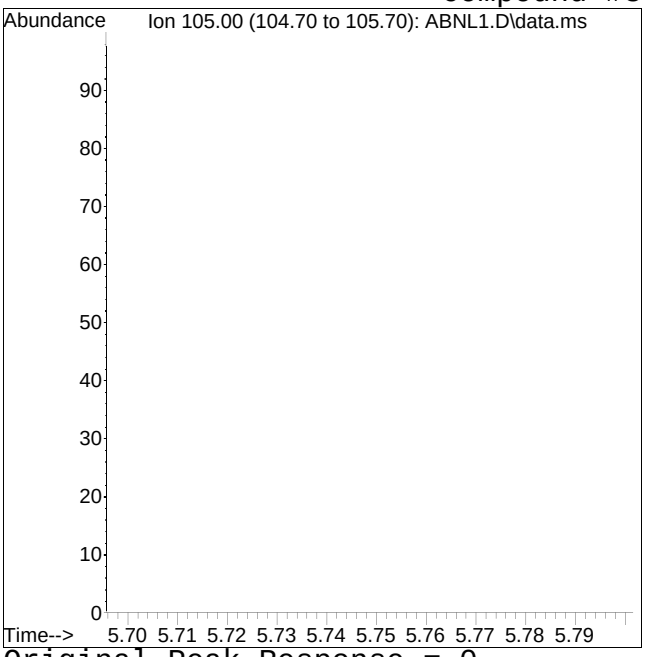
Manual Peak Response = 293 M2

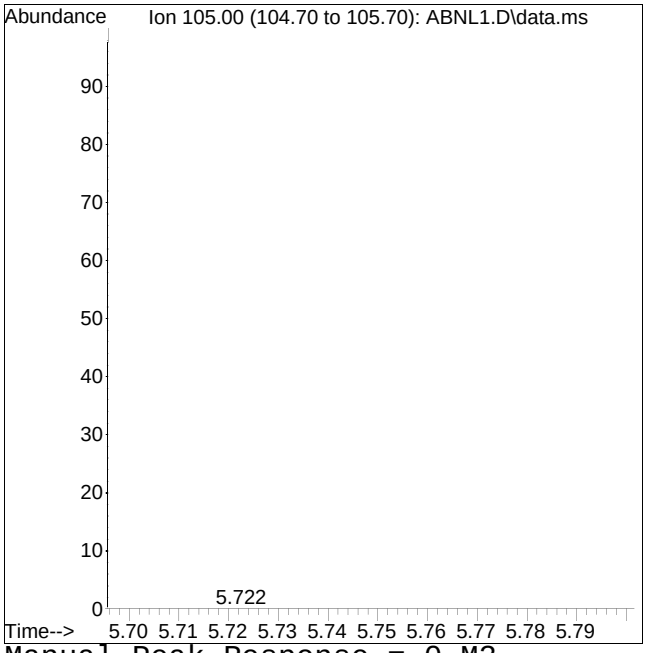
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #37: Benzoic Acid





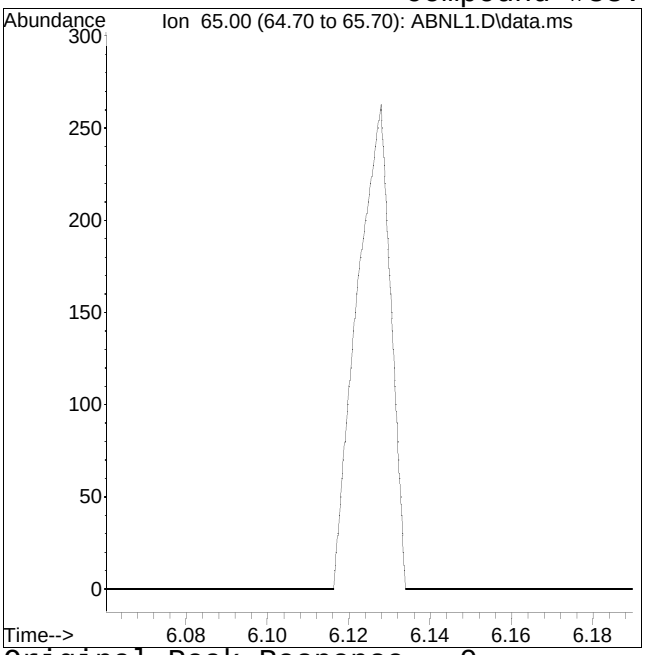
Original Peak Response = 0 Manual Peak Response = 0 M3

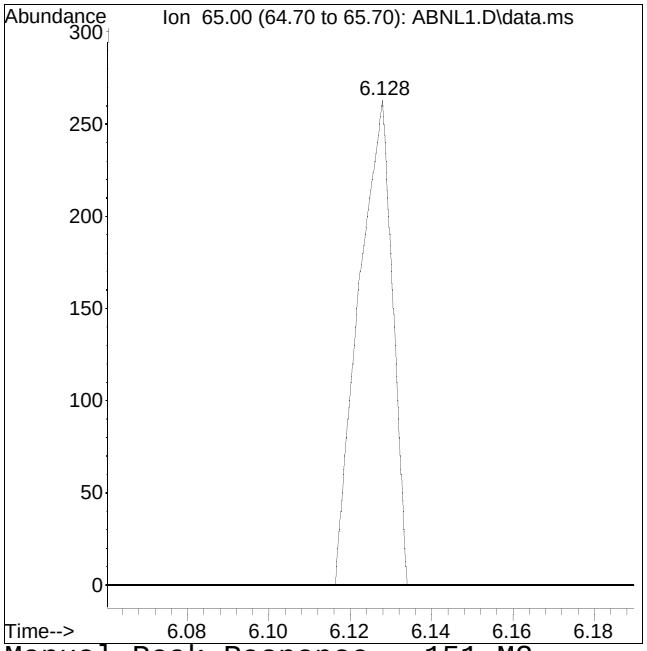
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #38: 4-Chloroaniline



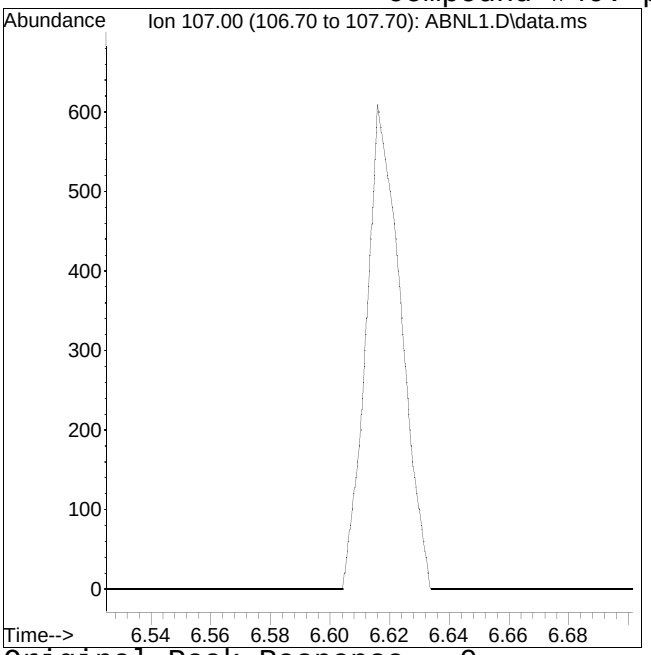


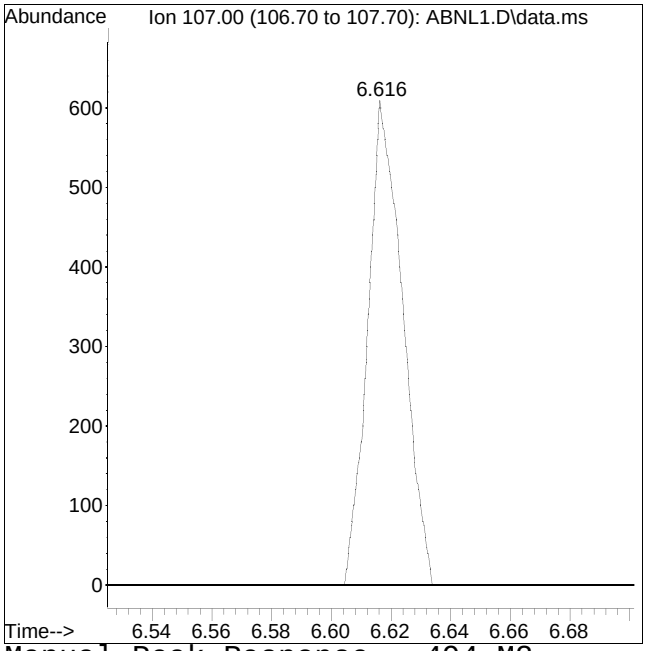
Original Peak Response = 0 Manual Peak Response = 151 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #40: p-Chloro-m-cresol



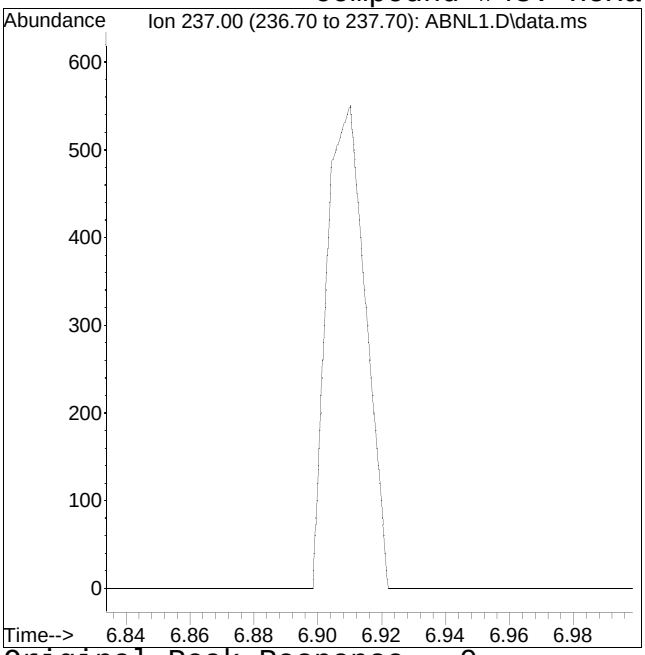


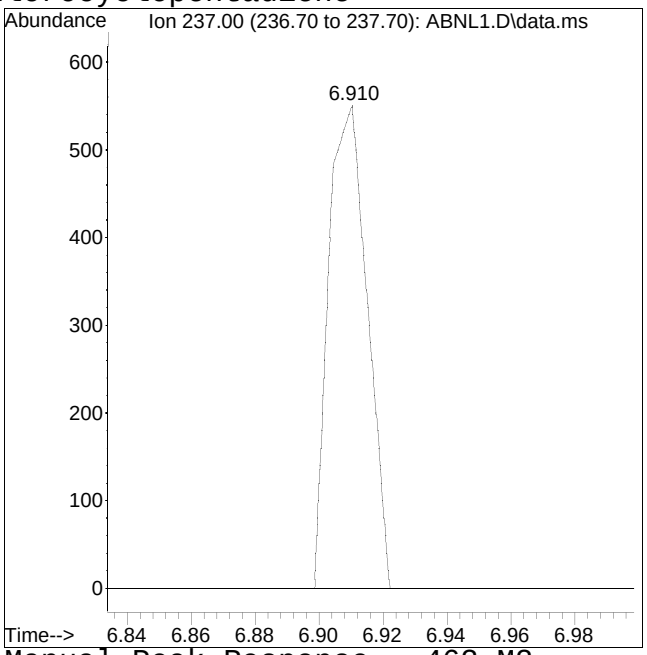
Original Peak Response = 0 Manual Peak Response = 494 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #43: Hexachlorocyclopentadiene



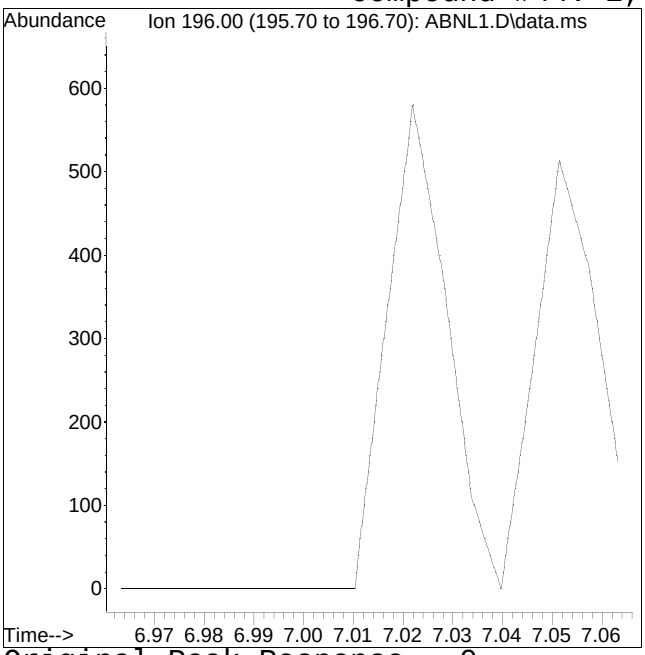


Original Peak Response = 0 Manual Peak Response = 462 M2
M2 = Peak not found by automatic integration algorithm.

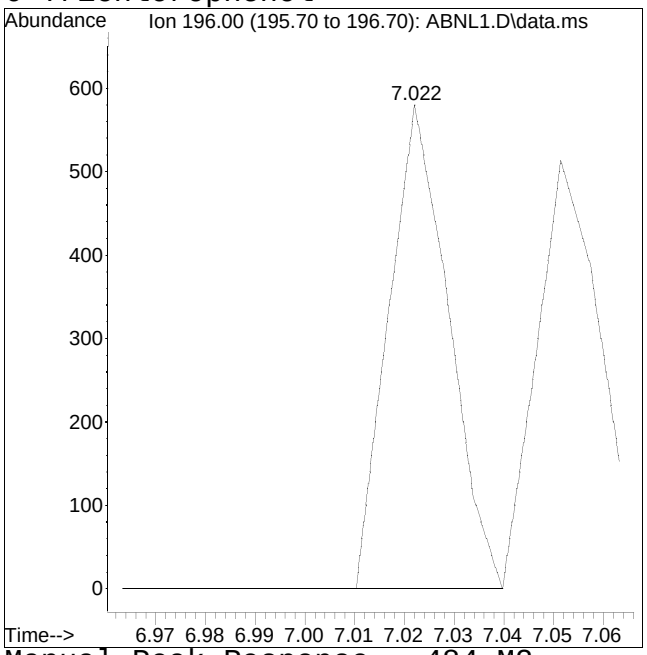
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #44: 2,4,6-Trichlorophenol



Original Peak Response = 0



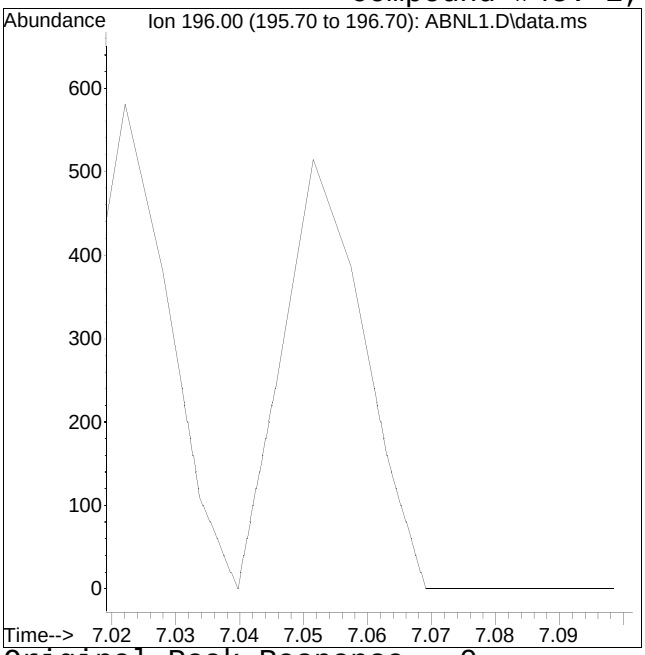
Manual Peak Response = 484 M2

M2 = Peak not found by automatic integration algorithm.

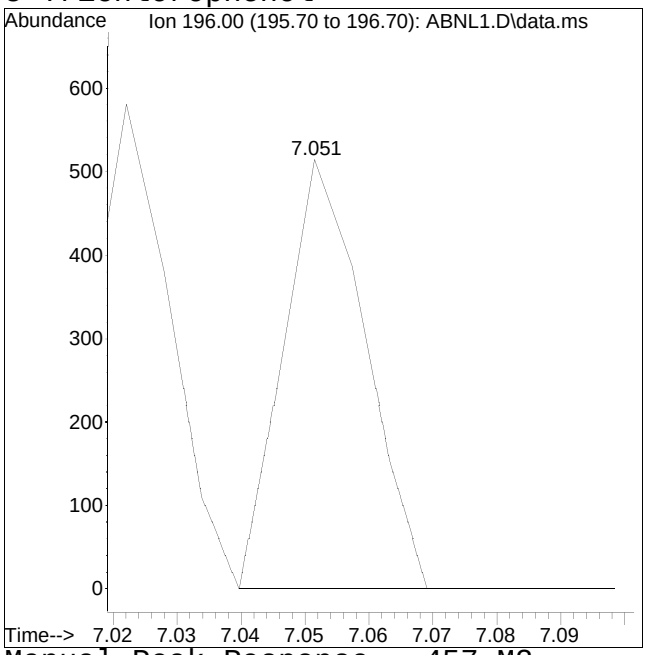
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #45: 2,4,5-Trichlorophenol



Original Peak Response = 0



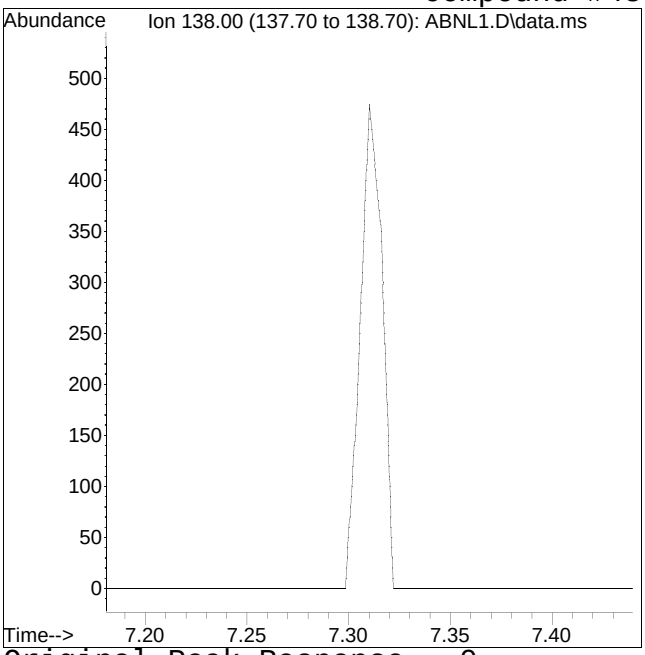
Manual Peak Response = 457 M2

M2 = Peak not found by automatic integration algorithm.

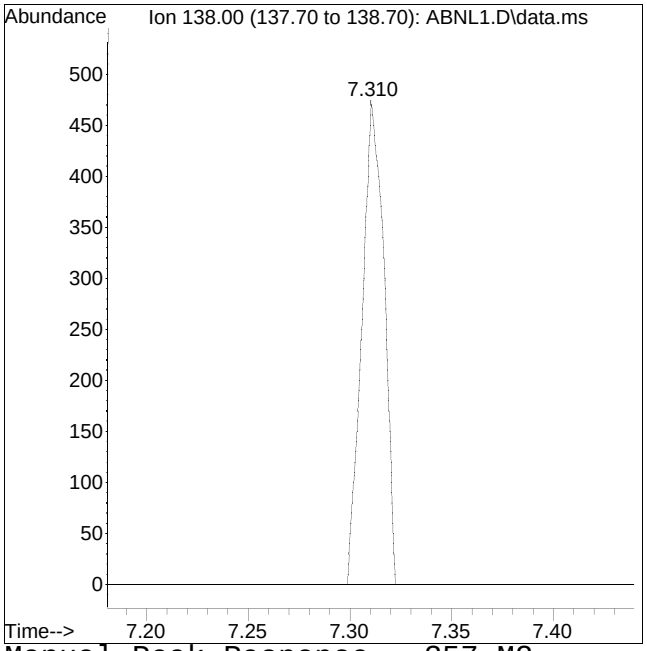
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #48: 2-Nitroaniline



Original Peak Response = 0



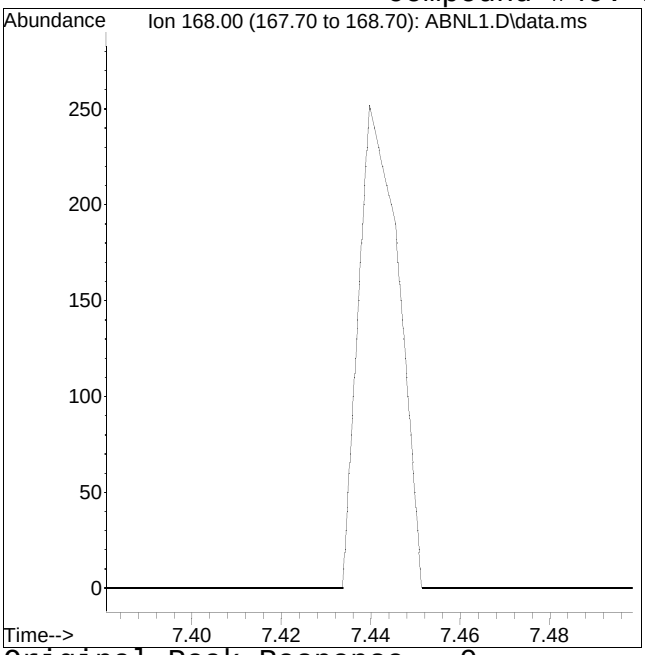
Manual Peak Response = 357 M2

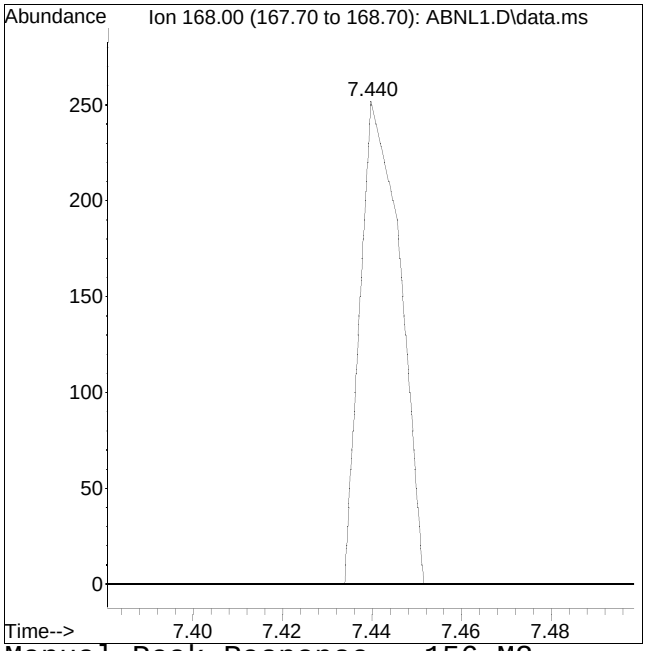
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #49: 1,4-Dinitrobenzene



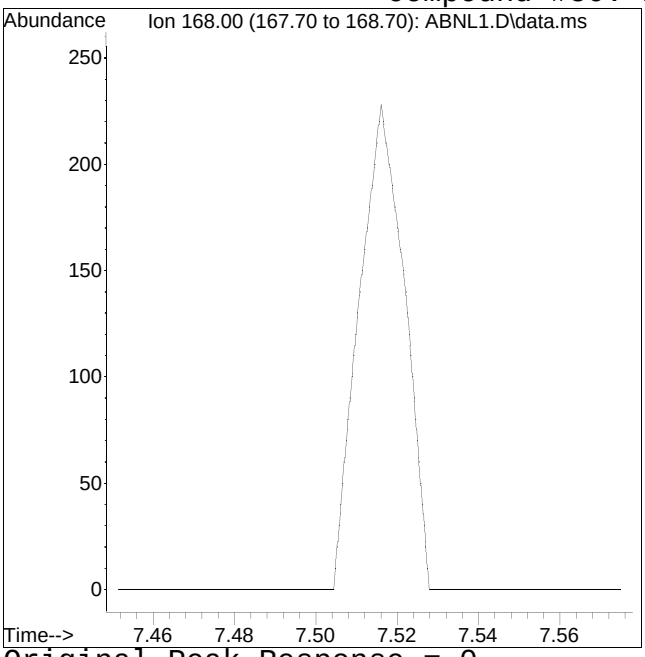


Original Peak Response = 0 Manual Peak Response = 156 M2
M2 = Peak not found by automatic integration algorithm.

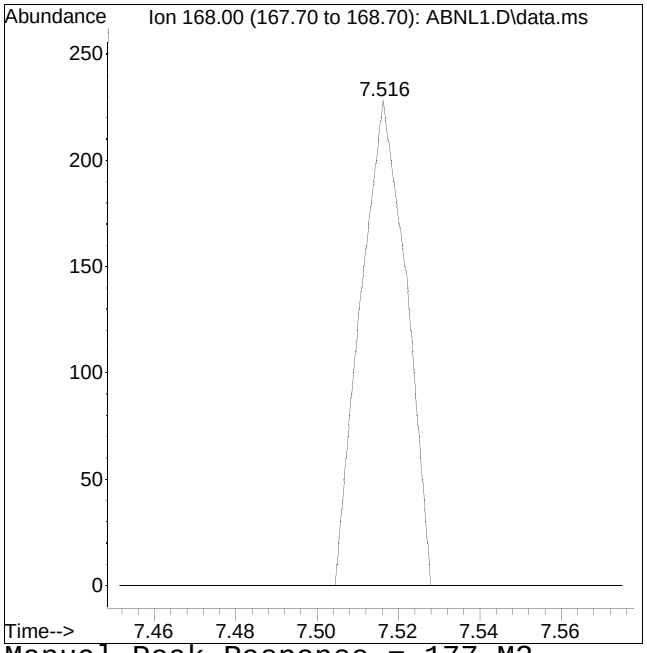
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 0



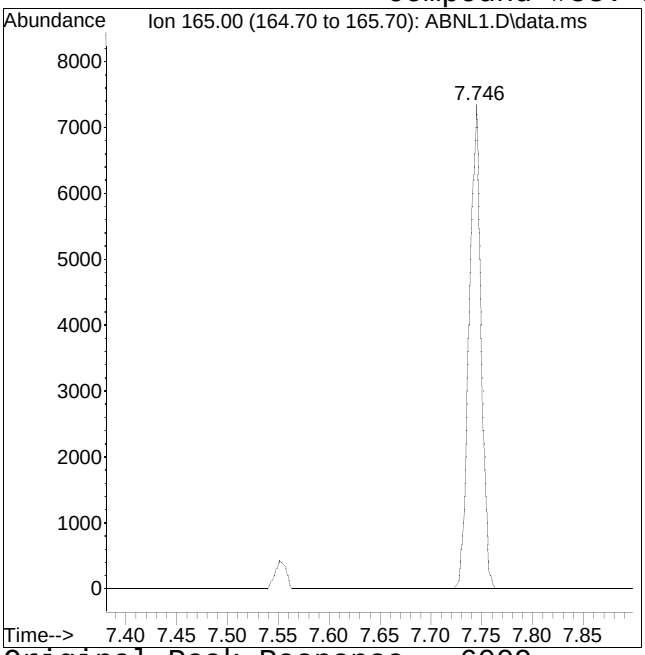
Manual Peak Response = 177 M2

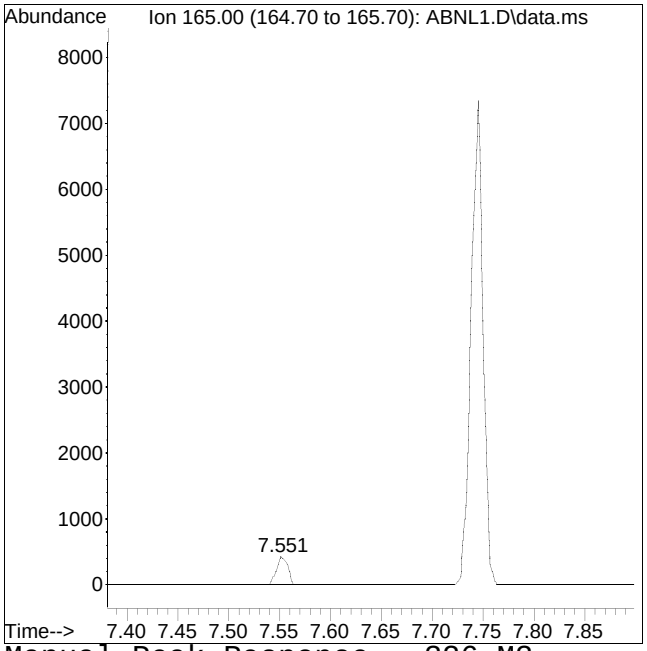
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #53: 2,6-Dinitrotoluene





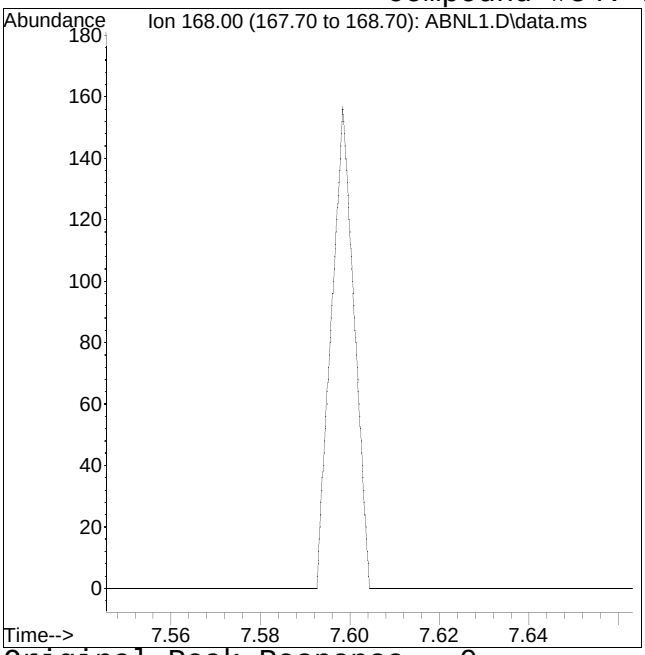
Original Peak Response = 6009 Manual Peak Response = 326 M3

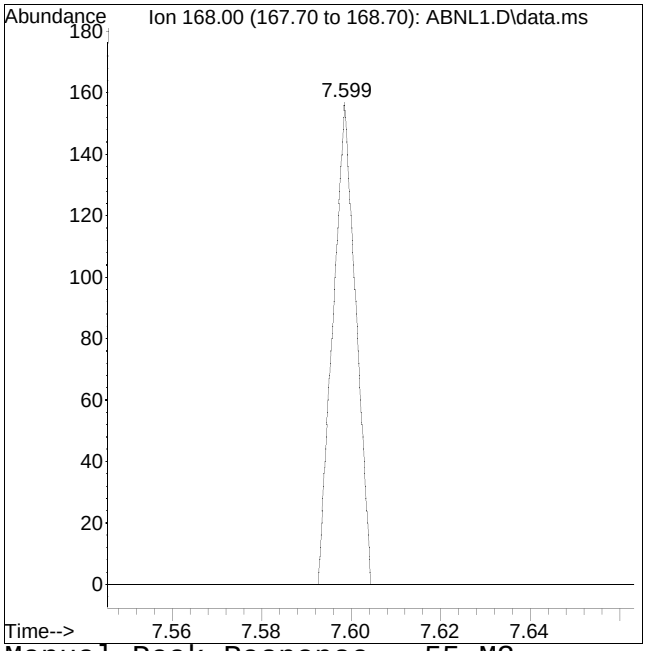
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #54: 1,2-Dinitrobenzene



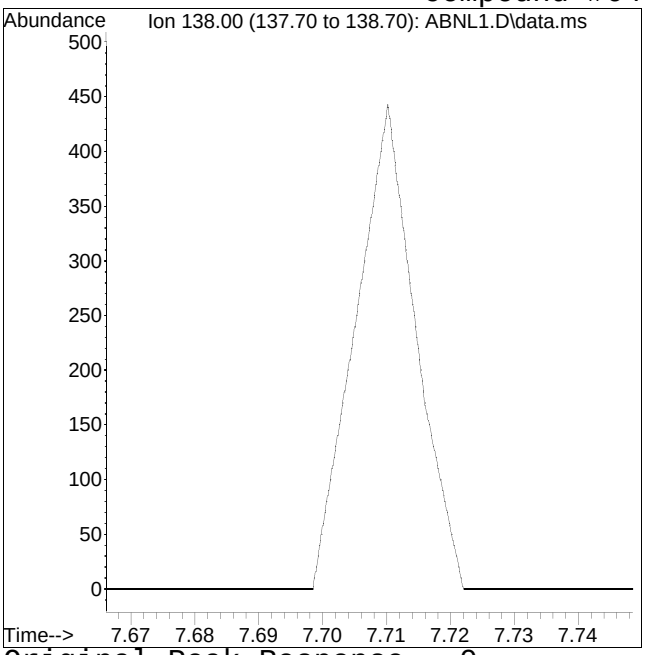


Original Peak Response = 0 Manual Peak Response = 55 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

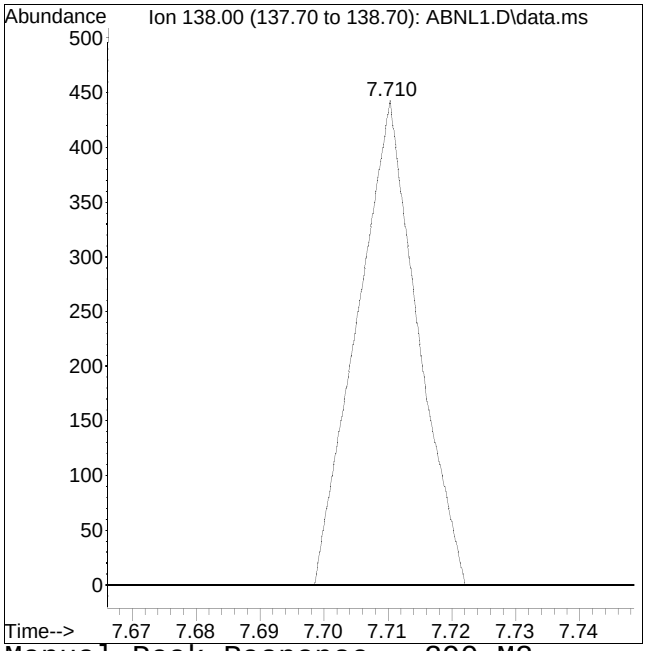
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #64: 3-Nitroaniline



Original Peak Response = 0



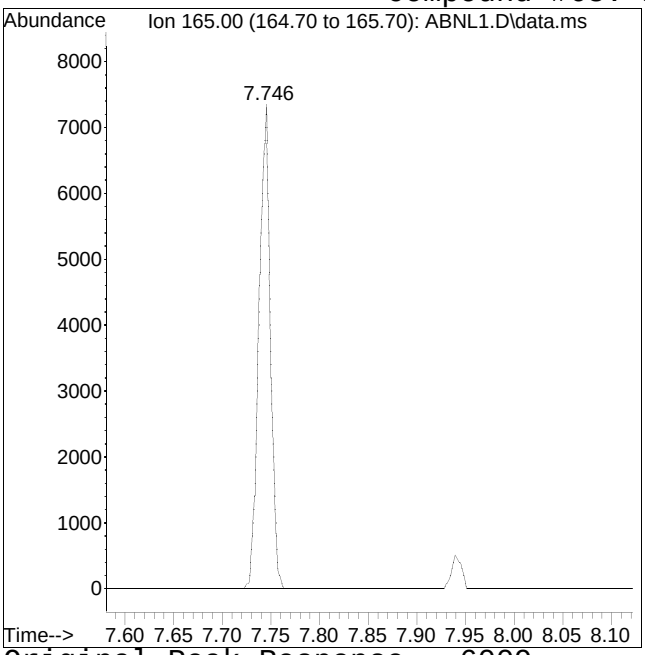
Manual Peak Response = 290 M2

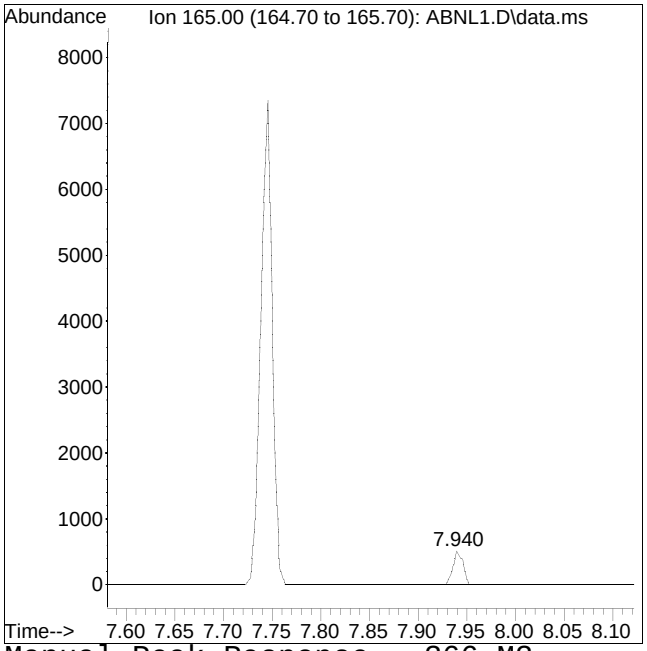
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #68: 2,4-Dinitrotoluene



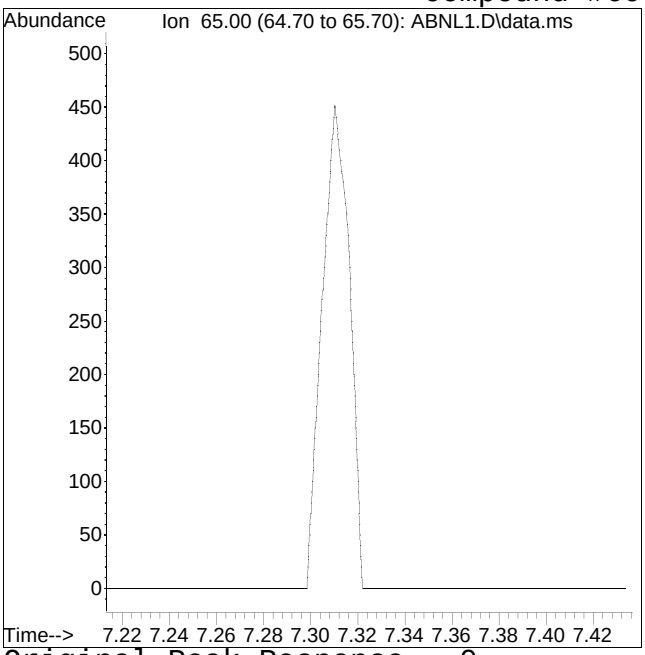


Original Peak Response = 6009 Manual Peak Response = 366 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

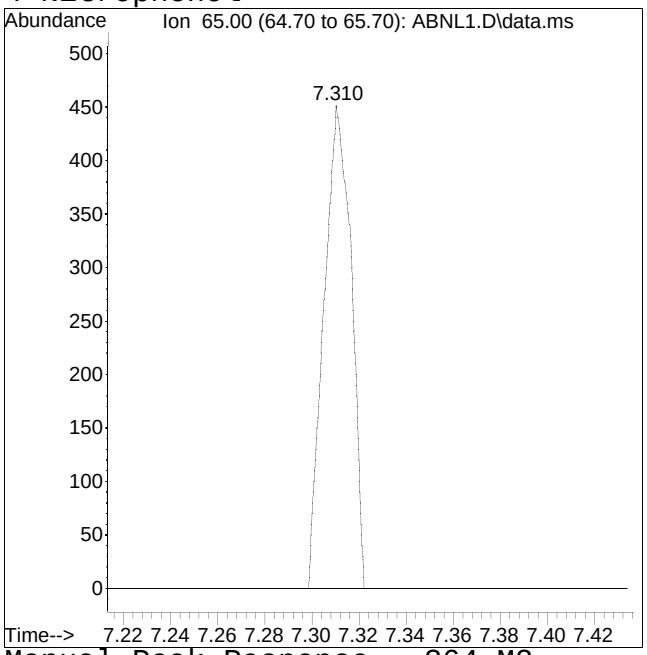
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #69: 4-Nitrophenol



Original Peak Response = 0



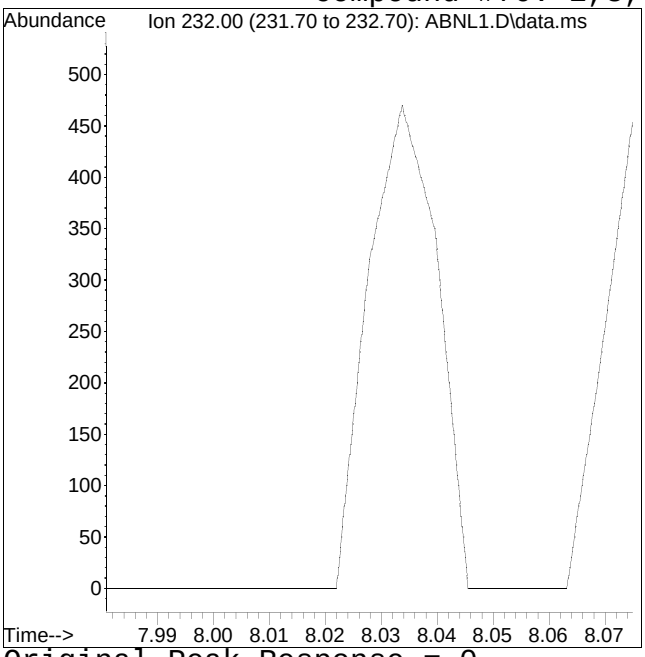
Manual Peak Response = 364 M2

M2 = Peak not found by automatic integration algorithm.

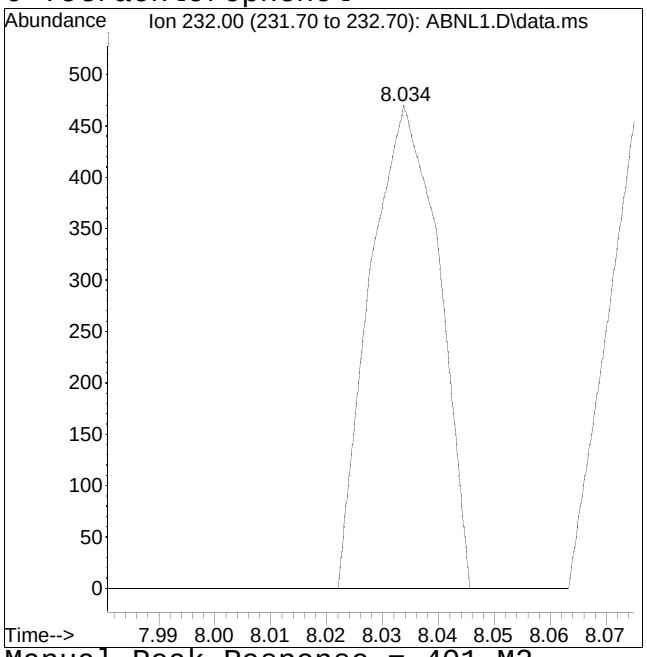
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #70: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 0



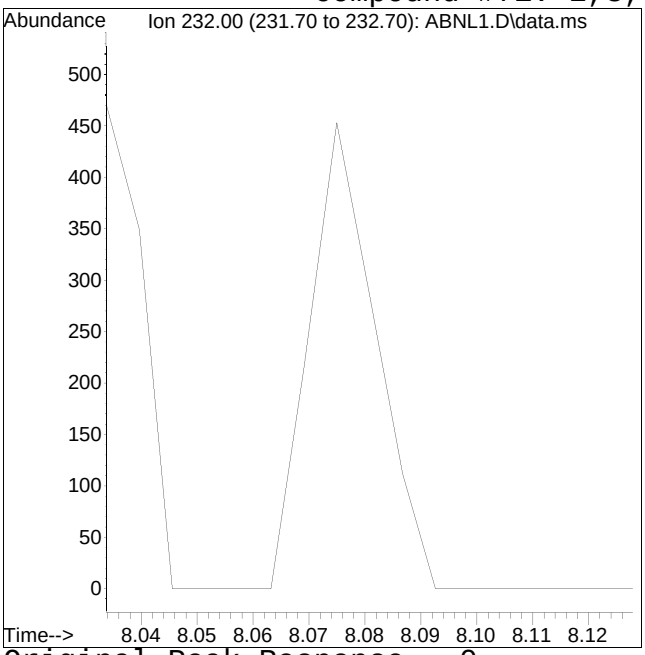
Manual Peak Response = 401 M2

M2 = Peak not found by automatic integration algorithm.

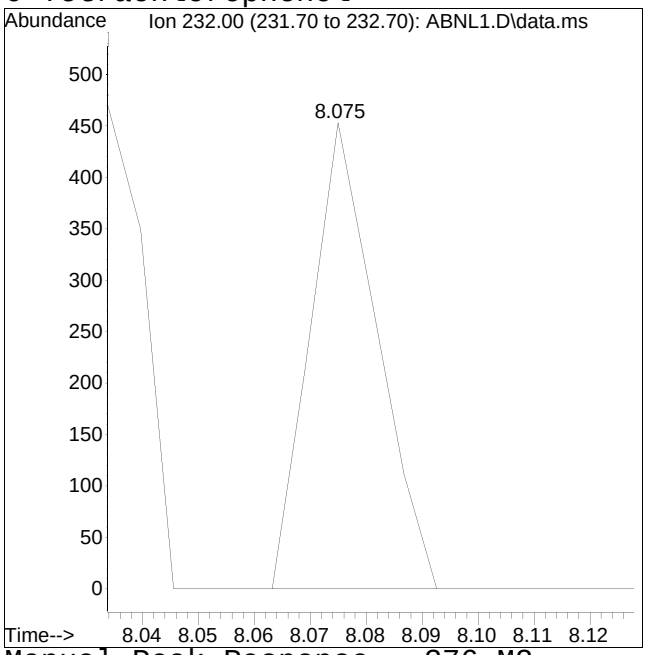
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #71: 2,3,4,6-Tetrachlorophenol



Original Peak Response = 0



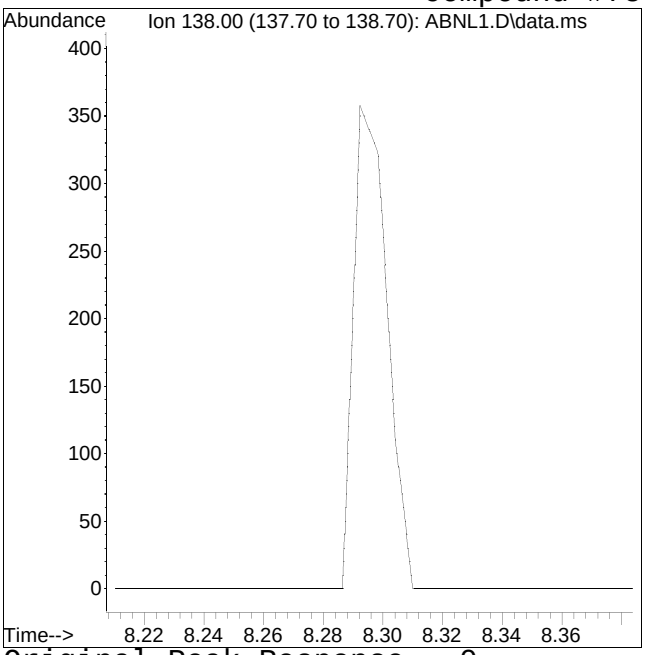
Manual Peak Response = 376 M2

M2 = Peak not found by automatic integration algorithm.

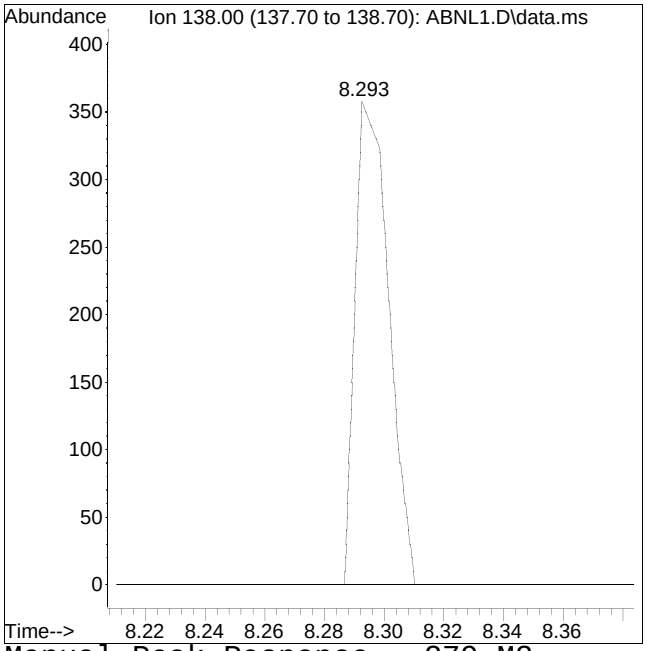
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 0



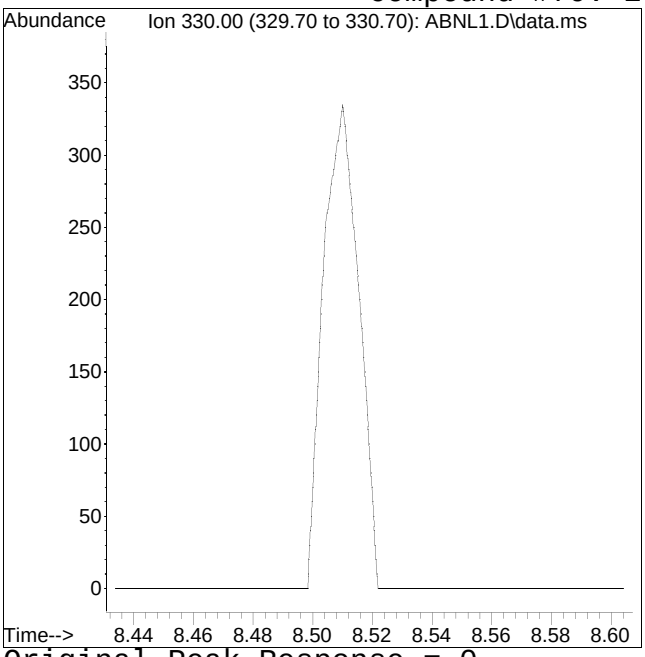
Manual Peak Response = 279 M2

M2 = Peak not found by automatic integration algorithm.

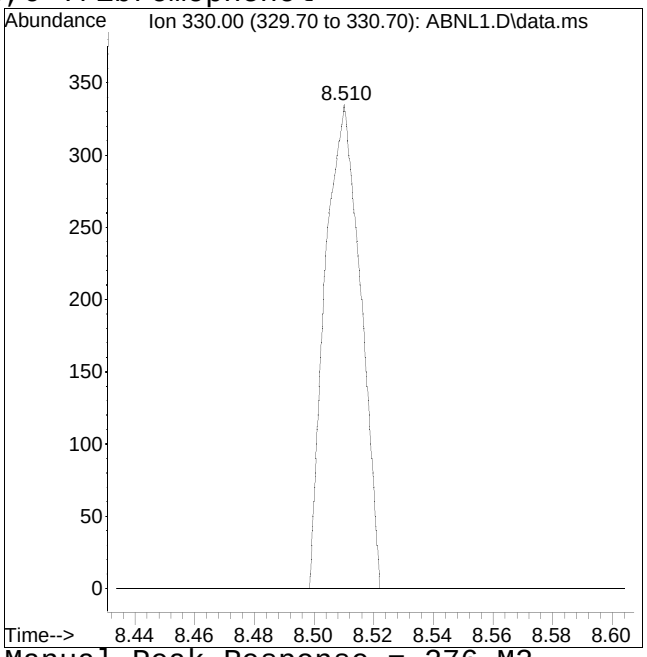
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #79: 2,4,6-Tribromophenol



Original Peak Response = 0



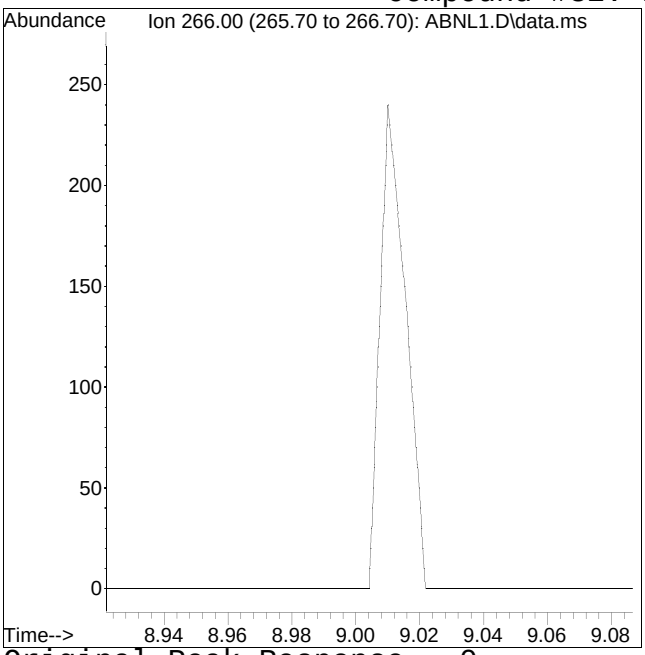
Manual Peak Response = 276 M2

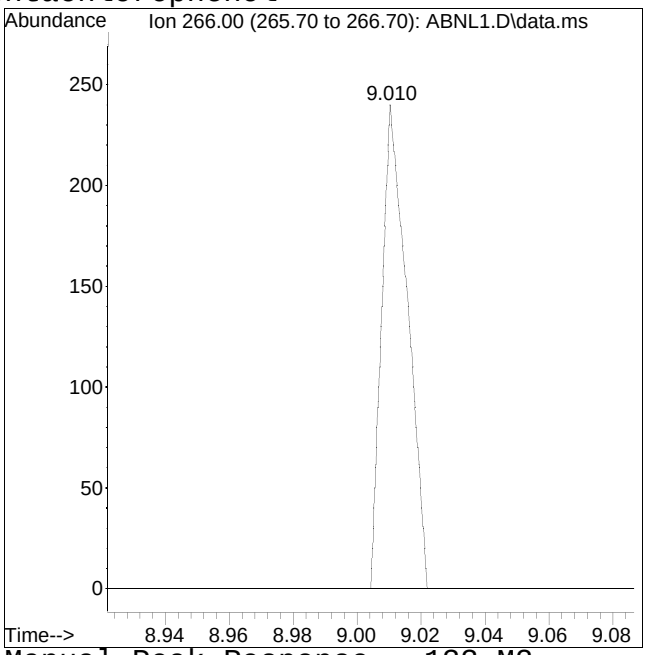
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #82: Pentachlorophenol



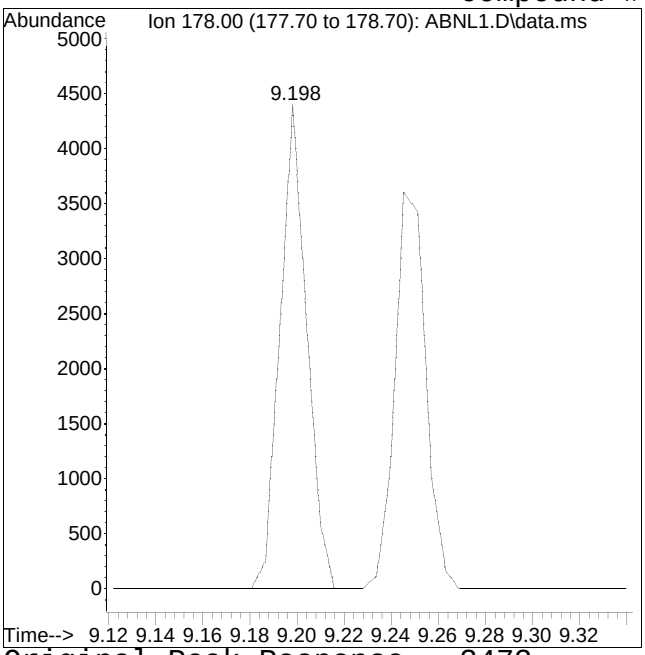


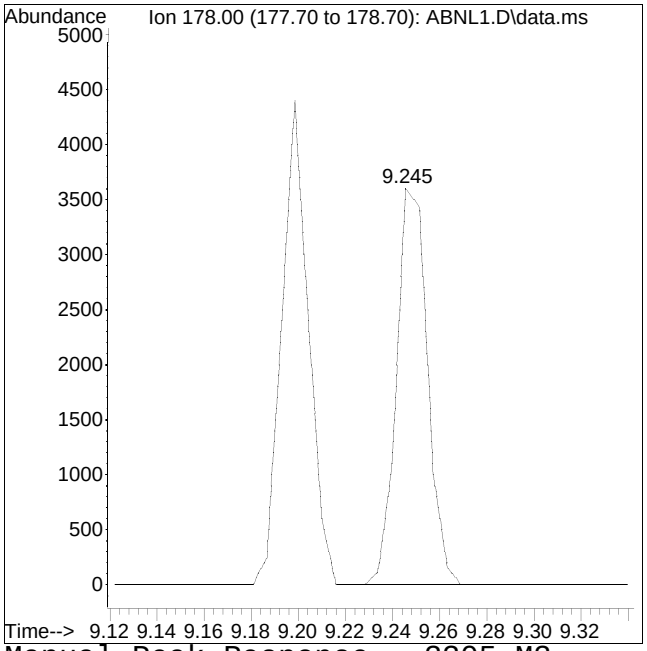
Original Peak Response = 0 Manual Peak Response = 133 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #90: Anthracene





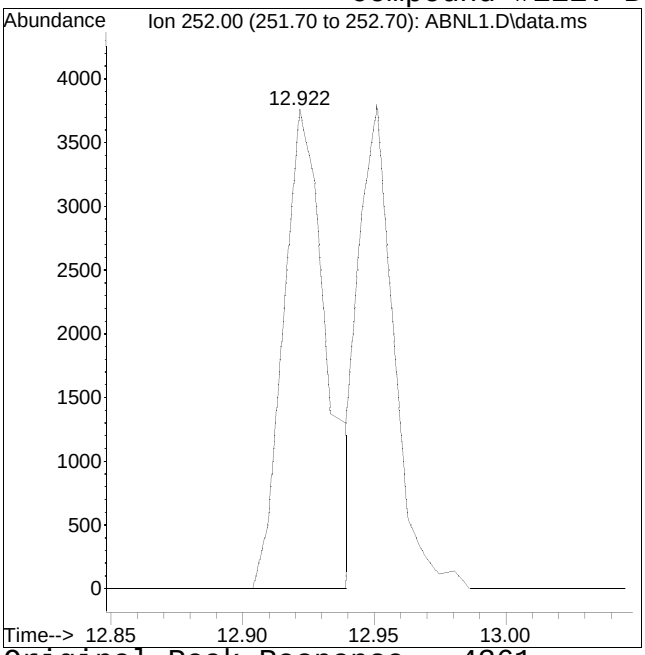
Original Peak Response = 3473 Manual Peak Response = 3305 M3

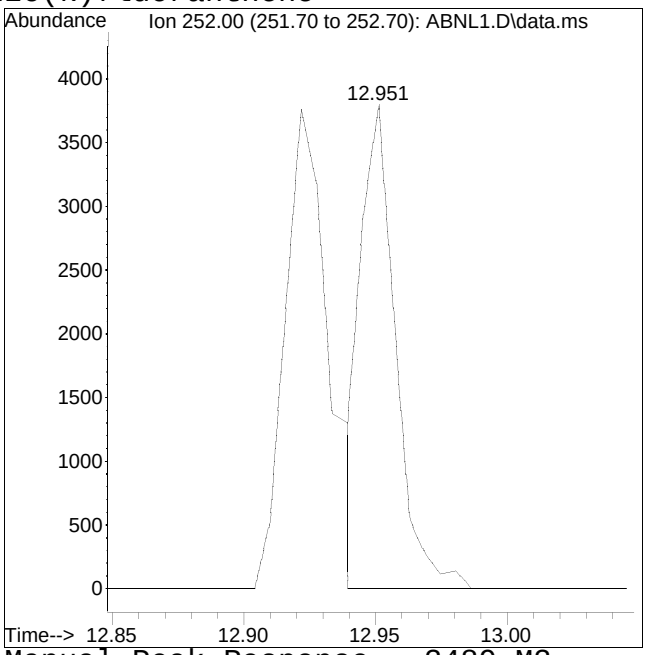
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #111: Benzo(k)fluoranthene



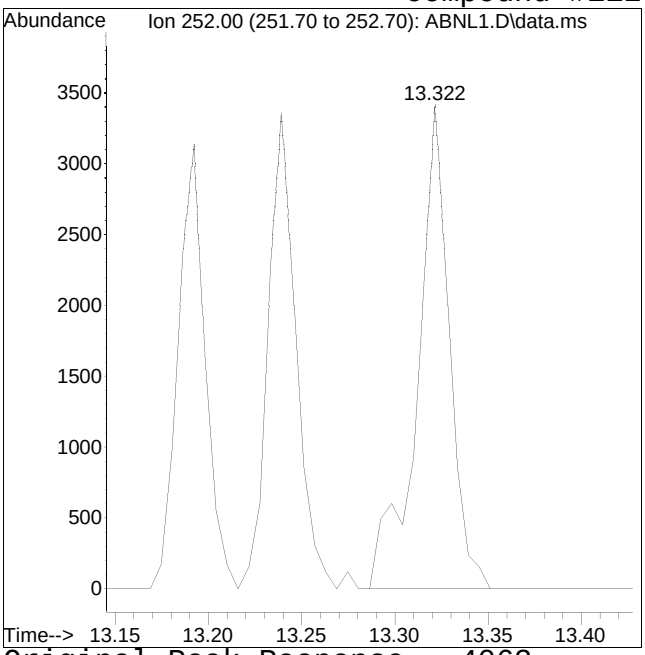


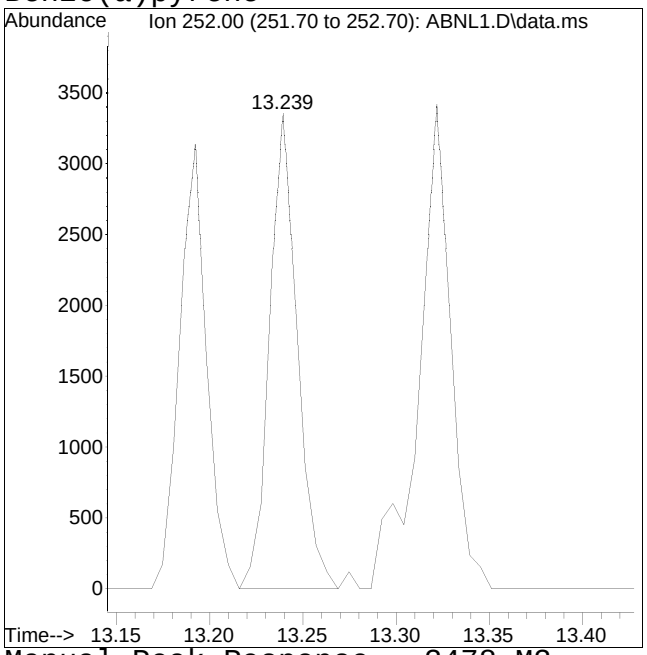
Original Peak Response = 4361 Manual Peak Response = 3489 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #112: Benzo(a)pyrene



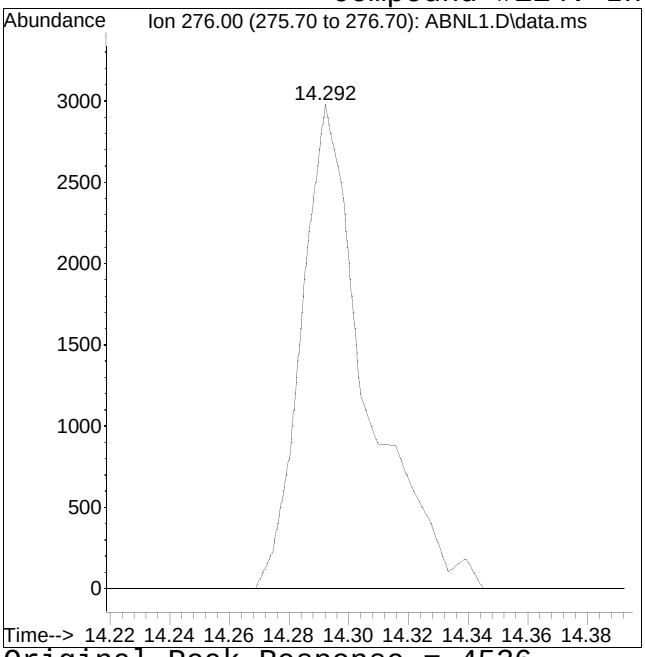


Original Peak Response = 4063 Manual Peak Response = 3478 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

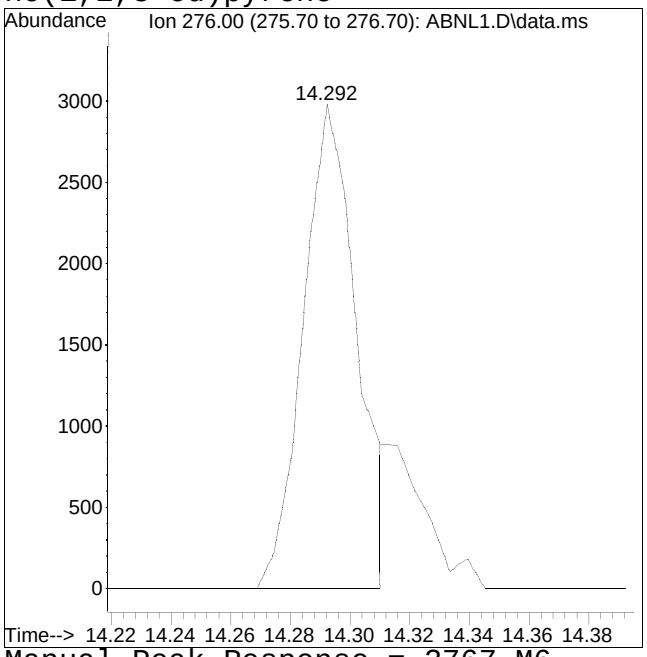
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 4536



Manual Peak Response = 3767 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L9.D
Acq On : 25 Jun 2024 11:47 pm
Operator : SV112:mrg
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1939943
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 06:24:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	22492	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery =	105.96%		
55) IS2_Naphthalene-d8	6.040	136	90198	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery =	110.06%		
83) IS2_Acenaphthene-d10	7.746	164	57949	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery =	111.88%		
98) IS2_Phenanthrene-d10	9.181	188	134679	4.000	ug/ml	# 0.00
Standard Area 1 = 118160			Recovery =	113.98%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.369	105	323089	52.545	ug/ml	100
29) Acetophenone	5.205	105	569164	53.186	ug/ml	98
30) m-Toluidine	5.287	106	575073	55.939	ug/ml	98
31) 2-Chloroaniline	5.646	127	523726	53.474	ug/ml	98
56) a-Terpineol	6.099	59	349417	55.891	ug/ml	90
57) 3-Chloroaniline	6.110	65	189402	55.923	ug/ml	99
58) 2,6-Dichlorophenol	6.140	162	417756	56.797	ug/ml#	90
59) 1-chloro-2-nitrobenzene	6.393	111	189585	58.701	ug/ml	94
60) Caprolactam	6.452	55	206621	50.610	ug/ml	88
61) 1,2,4,5-Tetrachloroben...	6.910	216	538717	49.859	ug/ml	99
62) Biphenyl	7.199	154	1054299	45.553	ug/ml#	88
84) Dichloran	8.881	206	195131	51.538	ug/ml#	69
85) Pentachloronitrobenzene	9.028	237	204094	60.012	ug/ml#	81
99) Diphenamid	10.087	167	939537	54.186	ug/ml	82

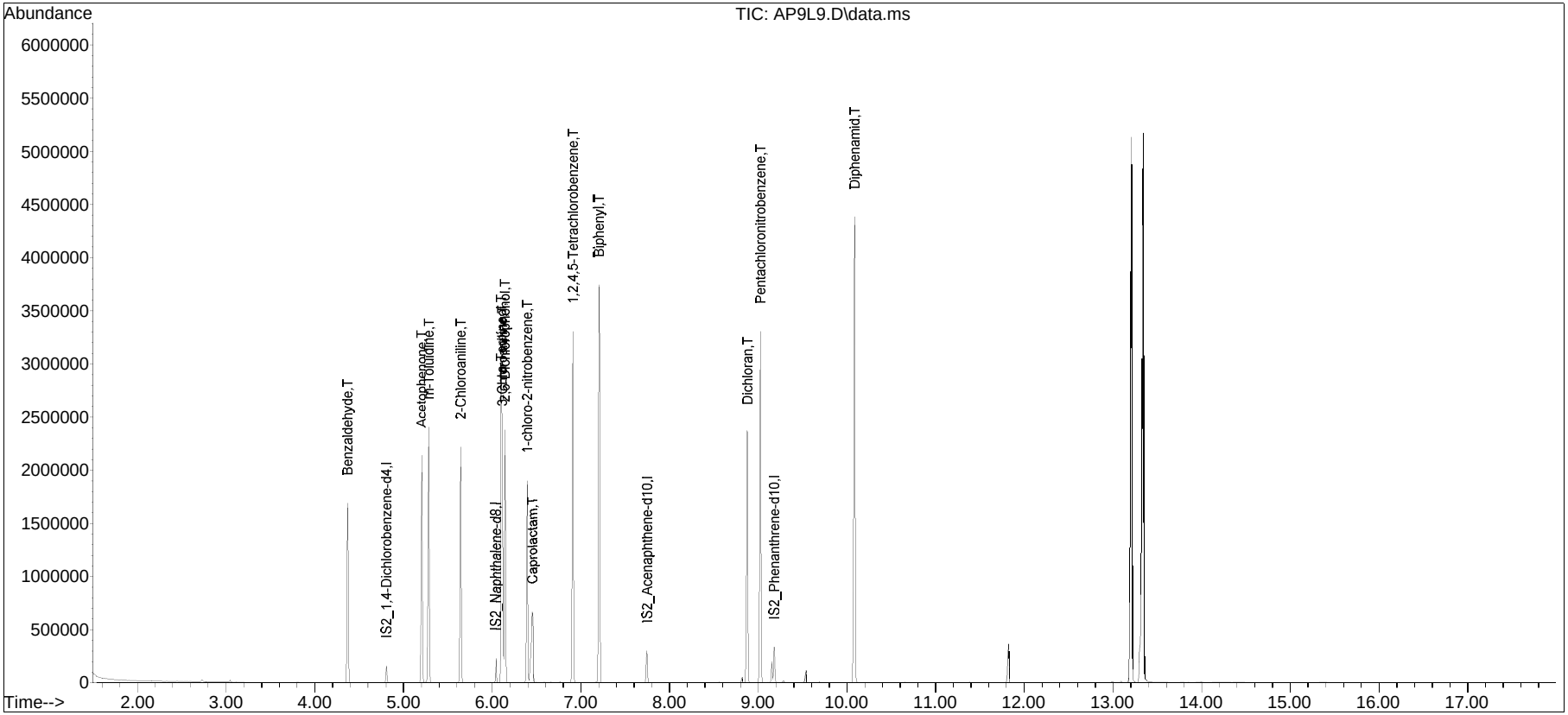
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L9.D
Acq On : 25 Jun 2024 11:47 pm
Operator : SV112:mrg
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1939943
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 06:24:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L9.D	Operator	: SV112:mrg
Date Inj'd	: 6/25/2024 11:47 pm	Instrument	: SV112
Sample	: IL2,32,,AP9L50 Lot# 10787	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L8.D
Acq On : 26 Jun 2024 12:10 am
Operator : SV112:mrg
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1939943
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 01 06:23:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	22044	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery =	103.85%		
55) IS2_Naphthalene-d8	6.040	136	85892	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery =	104.81%		
83) IS2_Acenaphthene-d10	7.746	164	54696	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery =	105.60%		
98) IS2_Phenanthrene-d10	9.175	188	127626	4.000	ug/ml	# 0.00
Standard Area 1 = 118160			Recovery =	108.01%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.369	105	160147	26.574	ug/ml	100
29) Acetophenone	5.199	105	284383	27.114	ug/ml	98
30) m-Toluidine	5.281	106	281783	27.967	ug/ml	97
31) 2-Chloroaniline	5.646	127	257558	26.832	ug/ml	98
56) a-Terpineol	6.093	59	166526	27.972	ug/ml	91
57) 3-Chloroaniline	6.110	65	87285	27.064	ug/ml	96
58) 2,6-Dichlorophenol	6.140	162	196135	28.003	ug/ml#	90
59) 1-chloro-2-nitrobenzene	6.387	111	89474	29.092	ug/ml	95
60) Caprolactam	6.440	55	95511	24.807	ug/ml#	87
61) 1,2,4,5-Tetrachloroben...	6.910	216	261772	25.442	ug/ml	98
62) Biphenyl	7.199	154	553574	25.117	ug/ml	94
84) Dichloran	8.875	206	87560	24.834	ug/ml#	70
85) Pentachloronitrobenzene	9.028	237	92965	28.961	ug/ml#	82
99) Diphenamid	10.081	167	476415	28.995	ug/ml	84

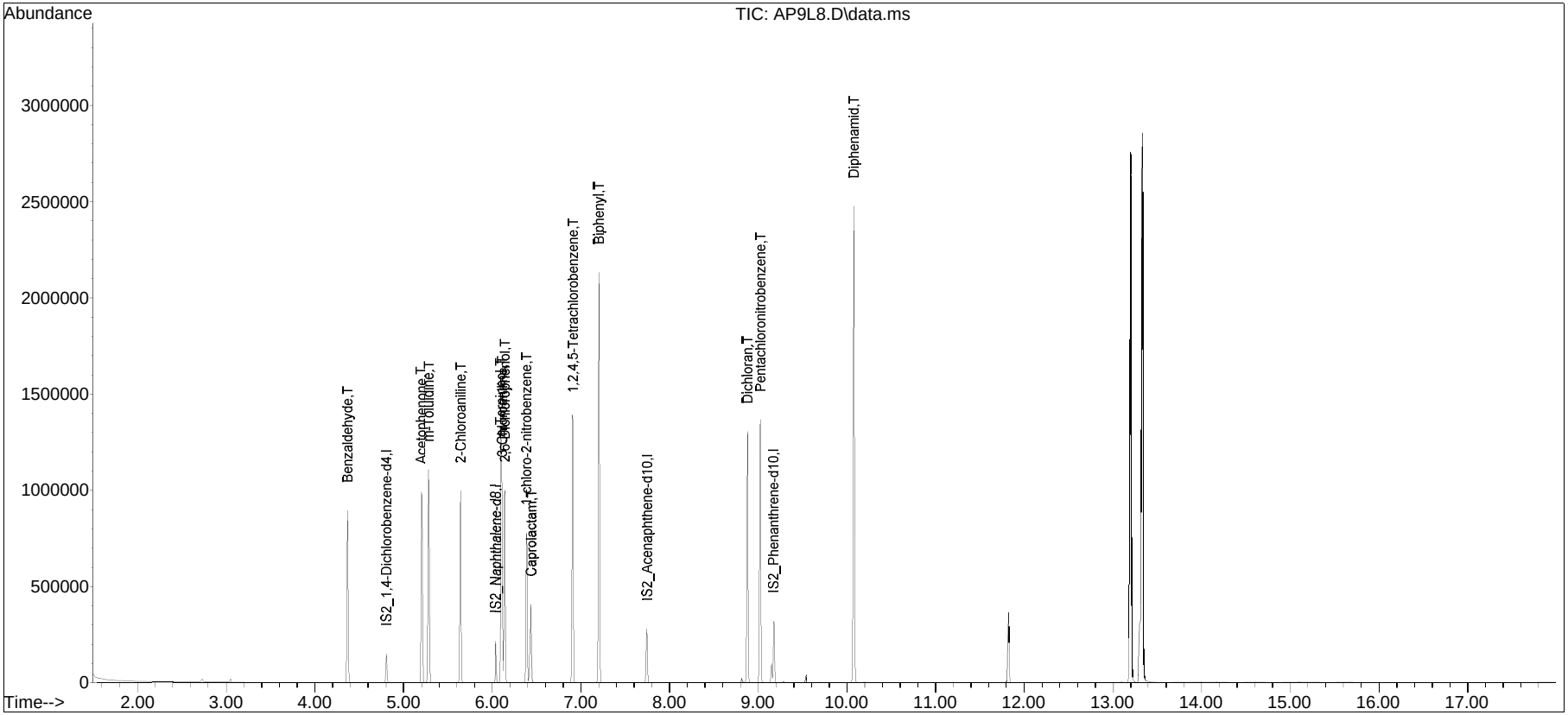
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L8.D
Acq On : 26 Jun 2024 12:10 am
Operator : SV112:mrg
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1939943
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 01 06:23:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L8.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 12:10 am	Instrument	: SV112
Sample	: IL3,32,,AP9L25 Lot# 10788	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L7.D
Acq On : 26 Jun 2024 12:33 am
Operator : SV112:mrg
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1939943
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 06:23:44 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	20726	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery = 97.64%				
55) IS2_Naphthalene-d8	6.040	136	79494	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery = 97.00%				
83) IS2_Acenaphthene-d10	7.746	164	50641	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery = 97.77%				
98) IS2_Phenanthrene-d10	9.175	188	115182	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery = 97.48%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.369	105	60217	10.628	ug/ml		99
29) Acetophenone	5.199	105	106664	10.817	ug/ml		98
30) m-Toluidine	5.281	106	105202	11.105	ug/ml		97
31) 2-Chloroaniline	5.646	127	97569	10.811	ug/ml		99
56) a-Terpineol	6.093	59	59466	10.793	ug/ml		92
57) 3-Chloroaniline	6.105	65	31462	10.540	ug/ml		92
58) 2,6-Dichlorophenol	6.134	162	72744	11.222	ug/ml	#	90
59) 1-chloro-2-nitrobenzene	6.387	111	32101	11.278	ug/ml		94
60) Caprolactam	6.422	55	34523	9.973	ug/ml		89
61) 1,2,4,5-Tetrachloroben...	6.904	216	97989	10.290	ug/ml		97
62) Biphenyl	7.199	154	211768	10.382	ug/ml		97
84) Dichloran	8.869	206	28506	9.143	ug/ml	#	71
85) Pentachloronitrobenzene	9.022	237	31153	10.482	ug/ml	#	83
99) Diphenamid	10.081	167	166343	11.217	ug/ml		85

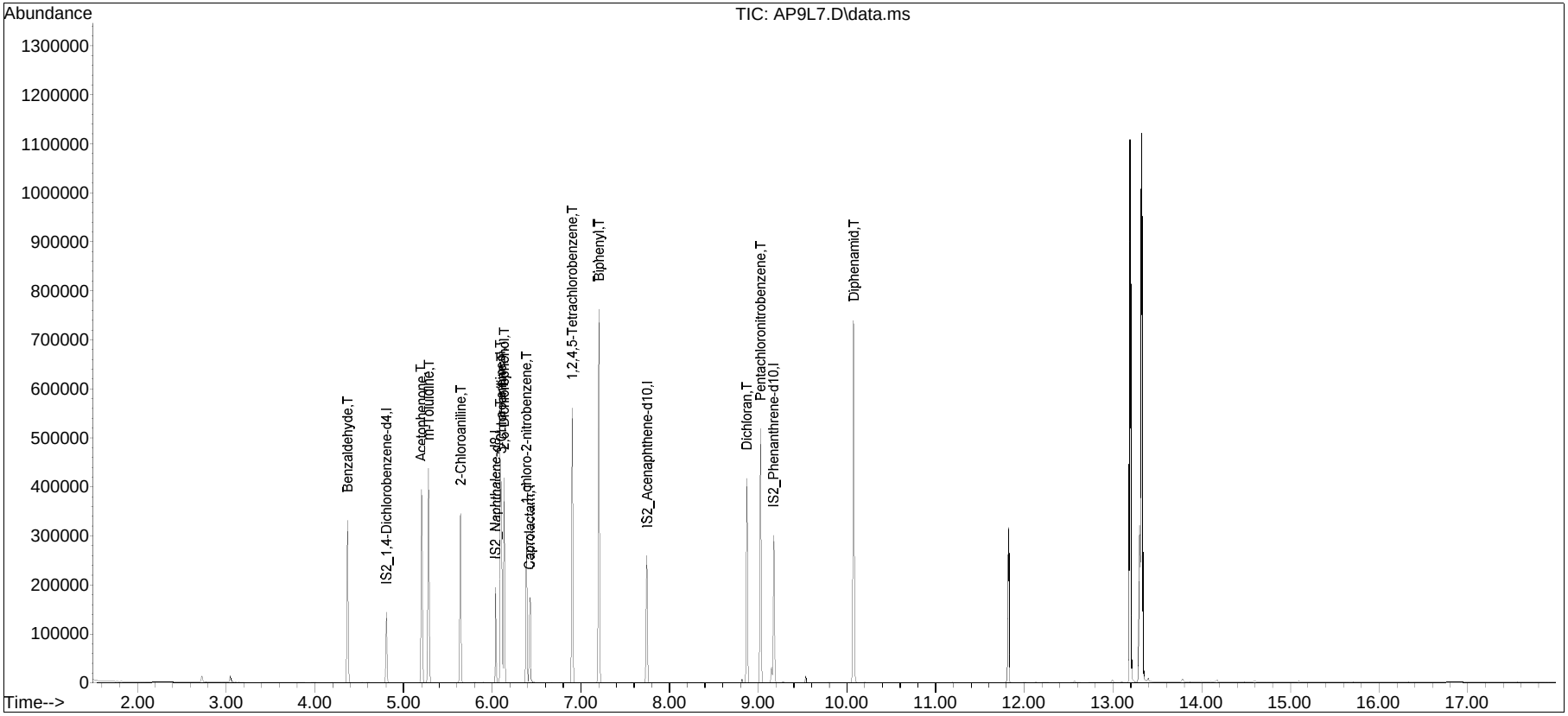
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L7.D
Acq On : 26 Jun 2024 12:33 am
Operator : SV112:mrg
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1939943
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 06:23:44 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L7.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 12:33 am	Instrument	: SV112
Sample	: IL4,32,,AP9L10 Lot# 10789	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L6.D
Acq On : 26 Jun 2024 12:56 am
Operator : SV112:mrg
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1939943
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 06:23:33 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

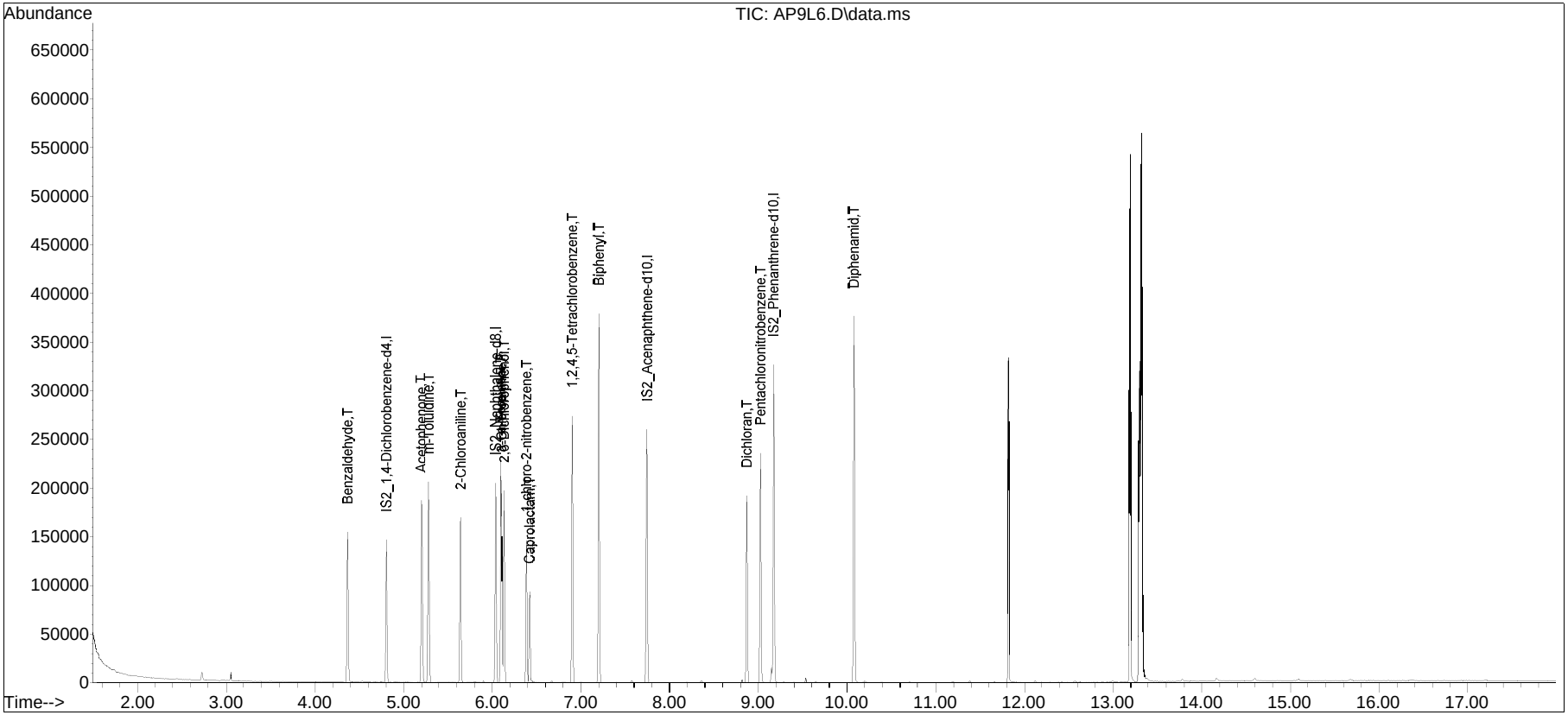
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	21226	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery = 100.00%				
55) IS2_Naphthalene-d8	6.040	136	81952	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery = 100.00%				
83) IS2_Acenaphthene-d10	7.746	164	51795	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery = 100.00%				
98) IS2_Phenanthrene-d10	9.175	188	118160	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.369	105	28710	4.948	ug/ml		98
29) Acetophenone	5.199	105	53018	5.250	ug/ml		97
30) m-Toluidine	5.281	106	50941	5.251	ug/ml		96
31) 2-Chloroaniline	5.646	127	47349	5.123	ug/ml		99
56) a-Terpineol	6.093	59	28592	5.034	ug/ml		92
57) 3-Chloroaniline	6.104	65	15255	4.957	ug/ml		89
58) 2,6-Dichlorophenol	6.134	162	34304	5.133	ug/ml	#	90
59) 1-chloro-2-nitrobenzene	6.387	111	14944	5.093	ug/ml		96
60) Caprolactam	6.422	55	15831	4.695	ug/ml		90
61) 1,2,4,5-Tetrachloroben...	6.904	216	48563	4.947	ug/ml		97
62) Biphenyl	7.199	154	104269	4.958	ug/ml		97
84) Dichloran	8.869	206	12834	4.379	ug/ml	#	72
85) Pentachloronitrobenzene	9.022	237	14603	4.804	ug/ml	#	81
99) Diphenamid	10.075	167	78562	5.164	ug/ml		85

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L6.D
Acq On : 26 Jun 2024 12:56 am
Operator : SV112:mrg
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1939943
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 06:23:33 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L6.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 12:56 am	Instrument	: SV112
Sample	: IL5,32,,AP9L5 Lot# 10790	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L5.D
Acq On : 26 Jun 2024 01:19 am
Operator : SV112:mrg
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1939943
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 06:23:21 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	20752	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery = 97.77%				
55) IS2_Naphthalene-d8	6.040	136	79357	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery = 96.83%				
83) IS2_Acenaphthene-d10	7.746	164	48252	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery = 93.16%				
98) IS2_Phenanthrene-d10	9.175	188	111263	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery = 94.16%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.369	105	14171	2.498	ug/ml		100
29) Acetophenone	5.199	105	24703	2.502	ug/ml		97
30) m-Toluidine	5.281	106	23505	2.478	ug/ml		98
31) 2-Chloroaniline	5.646	127	22742	2.517	ug/ml		98
56) a-Terpineol	6.093	59	13091	2.380	ug/ml		90
57) 3-Chloroaniline	6.105	65	7093	2.380	ug/ml		90
58) 2,6-Dichlorophenol	6.134	162	15715	2.428	ug/ml	#	89
59) 1-chloro-2-nitrobenzene	6.387	111	6601	2.323	ug/ml	#	93
60) Caprolactam	6.416	55	6499	2.259	ug/ml	#	88
61) 1,2,4,5-Tetrachloroben...	6.905	216	22878	2.407	ug/ml		95
62) Biphenyl	7.199	154	50391	2.475	ug/ml		98
84) Dichloran	8.869	206	5538	2.368	ug/ml	#	70
85) Pentachloronitrobenzene	9.022	237	6418	2.266	ug/ml	#	81
99) Diphenamid	10.075	167	34924	2.438	ug/ml		84

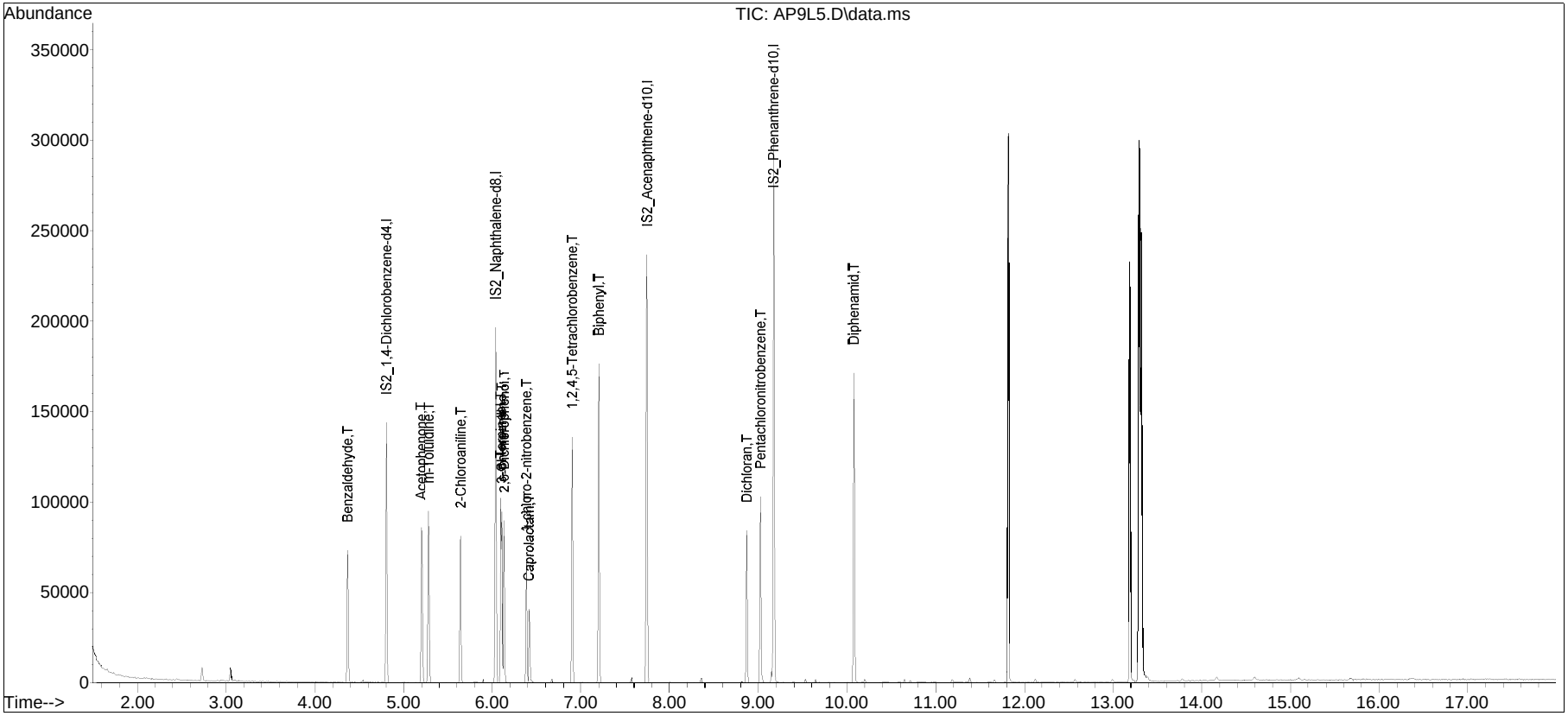
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L5.D
Acq On : 26 Jun 2024 01:19 am
Operator : SV112:mrg
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1939943
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 06:23:21 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L5.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 1:19 am	Instrument	: SV112
Sample	: IL6,32,,AP9L2.5 Lot# 10791	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L4.D
Acq On : 26 Jun 2024 01:43 am
Operator : SV112:mrg
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1939943
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 01 06:23:10 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	20723	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery = 97.63%			
55) IS2_Naphthalene-d8	6.040	136	76626	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery = 93.50%			
83) IS2_Acenaphthene-d10	7.746	164	47603	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery = 91.91%			
98) IS2_Phenanthrene-d10	9.175	188	108646	4.000	ug/ml	# 0.00
Standard Area 1 = 118160			Recovery = 91.95%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.369	105	5554	0.980	ug/ml	98
29) Acetophenone	5.205	105	9859	1.000	ug/ml	96
30) m-Toluidine	5.281	106	9225	0.974	ug/ml	98
31) 2-Chloroaniline	5.646	127	8758	0.971	ug/ml	99
56) a-Terpineol	6.093	59	5131	0.966	ug/ml	88
57) 3-Chloroaniline	6.105	65	2857	0.993	ug/ml	96
58) 2,6-Dichlorophenol	6.134	162	5787	0.926	ug/ml	90
59) 1-chloro-2-nitrobenzene	6.387	111	2799	1.020	ug/ml	94
60) Caprolactam	6.416	55	2412	1.156	ug/ml	91
61) 1,2,4,5-Tetrachloroben...	6.905	216	9645	1.051	ug/ml#	96
62) Biphenyl	7.199	154	20307	1.033	ug/ml	98
84) Dichloran	8.869	206	1907	1.239	ug/ml#	81
85) Pentachloronitrobenzene	9.022	237	2444	0.875	ug/ml#	82
99) Diphenamid	10.075	167	13800	0.987	ug/ml	85

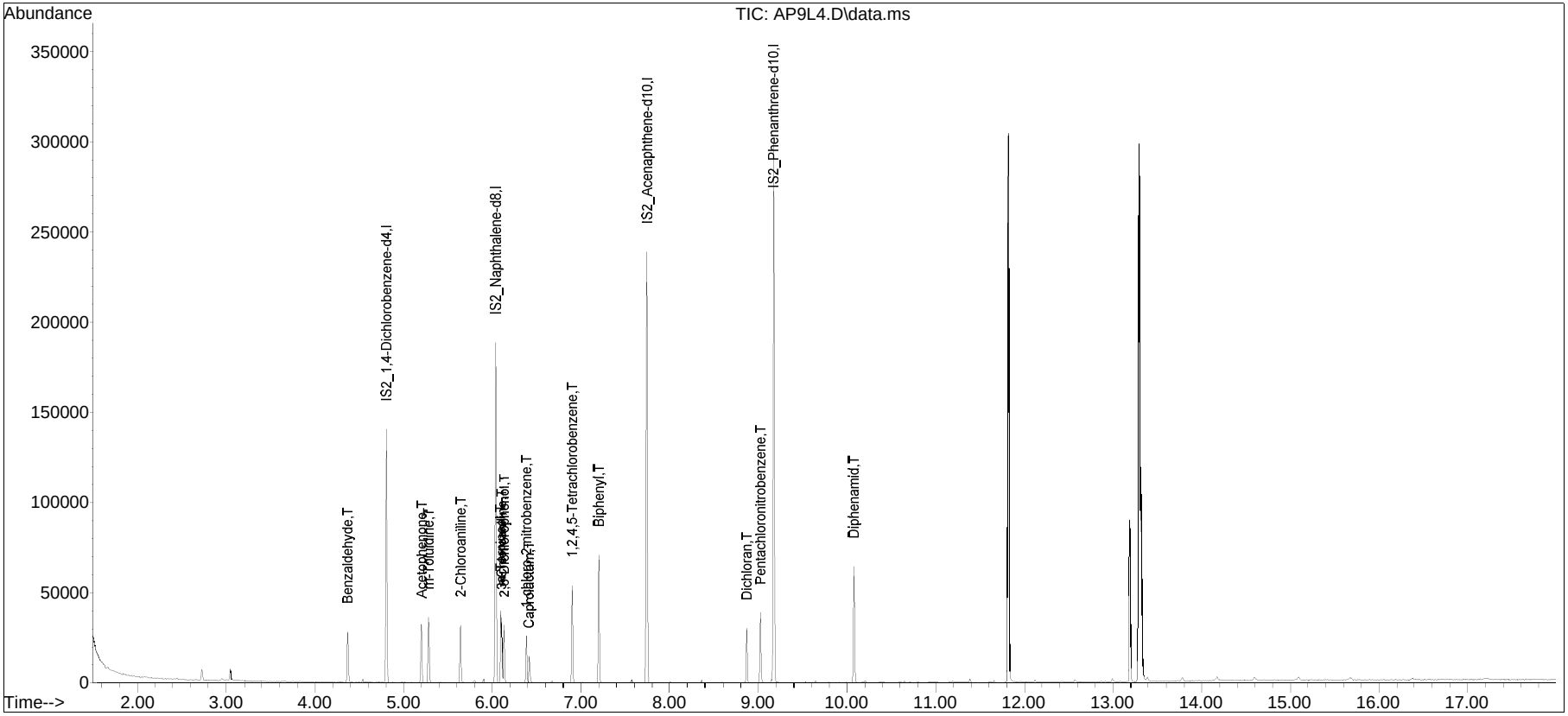
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L4.D
Acq On : 26 Jun 2024 01:43 am
Operator : SV112:mrg
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1939943
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 01 06:23:10 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L4.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 1:43 am	Instrument	: SV112
Sample	: IL7,32,,AP9L1 Lot# 10792	Quant Date	: 7/1/2024 6:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L3.D
Acq On : 26 Jun 2024 02:06 am
Operator : SV112:mrg
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1939943
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 06:22:59 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

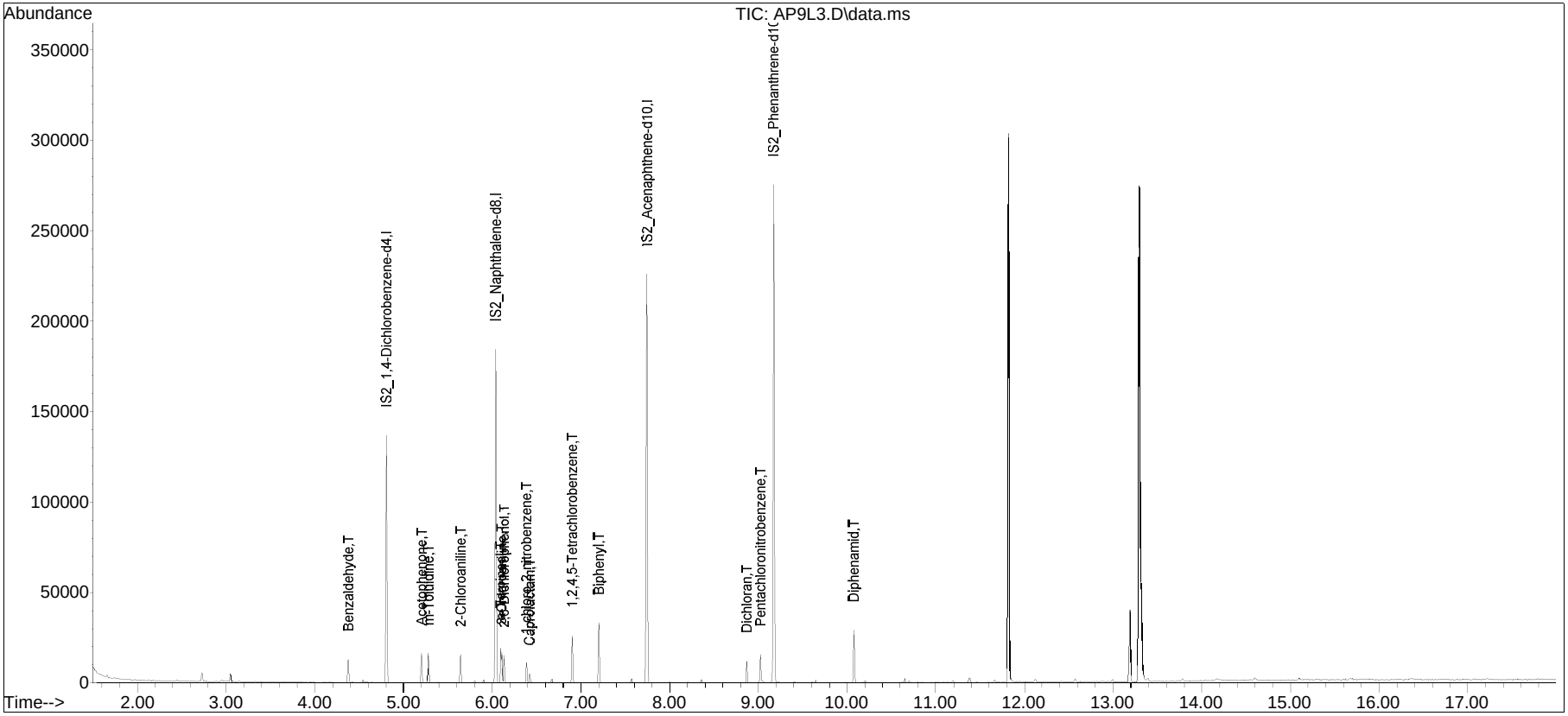
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	20138	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery = 94.87%				
55) IS2_Naphthalene-d8	6.040	136	74008	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery = 90.31%				
83) IS2_Acenaphthene-d10	7.746	164	44694	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery = 86.29%				
98) IS2_Phenanthrene-d10	9.175	188	102142	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery = 86.44%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.375	105	2792	0.507	ug/ml		99
29) Acetophenone	5.205	105	4826	0.504	ug/ml		99
30) m-Toluidine	5.281	106	4468	0.485	ug/ml	#	92
31) 2-Chloroaniline	5.646	127	4442	0.507	ug/ml		94
56) a-Terpineol	6.093	59	2535	0.494	ug/ml		94
57) 3-Chloroaniline	6.105	65	1554	0.559	ug/ml		91
58) 2,6-Dichlorophenol	6.134	162	2827	0.468	ug/ml		93
59) 1-chloro-2-nitrobenzene	6.387	111	1322	0.499	ug/ml		95
60) Caprolactam	6.422	55	1062	0.781	ug/ml	#	62
61) 1,2,4,5-Tetrachloroben...	6.904	216	4650	0.525	ug/ml		98
62) Biphenyl	7.199	154	10080	0.531	ug/ml		98
84) Dichloran	8.869	206	871	0.928	ug/ml		81
85) Pentachloronitrobenzene	9.022	237	1116	0.425	ug/ml	#	76
99) Diphenamid	10.075	167	5974	0.454	ug/ml		86

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L3.D
Acq On : 26 Jun 2024 02:06 am
Operator : SV112:mrg
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1939943
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 06:22:59 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L3.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 2:06 am	Instrument	: SV112
Sample	: IL8,32,,AP9L0.5 Lot# 10793	Quant Date	: 7/1/2024 6:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L2.D
Acq On : 26 Jun 2024 02:29 am
Operator : SV112:mrg
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1939943
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 06:22:48 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

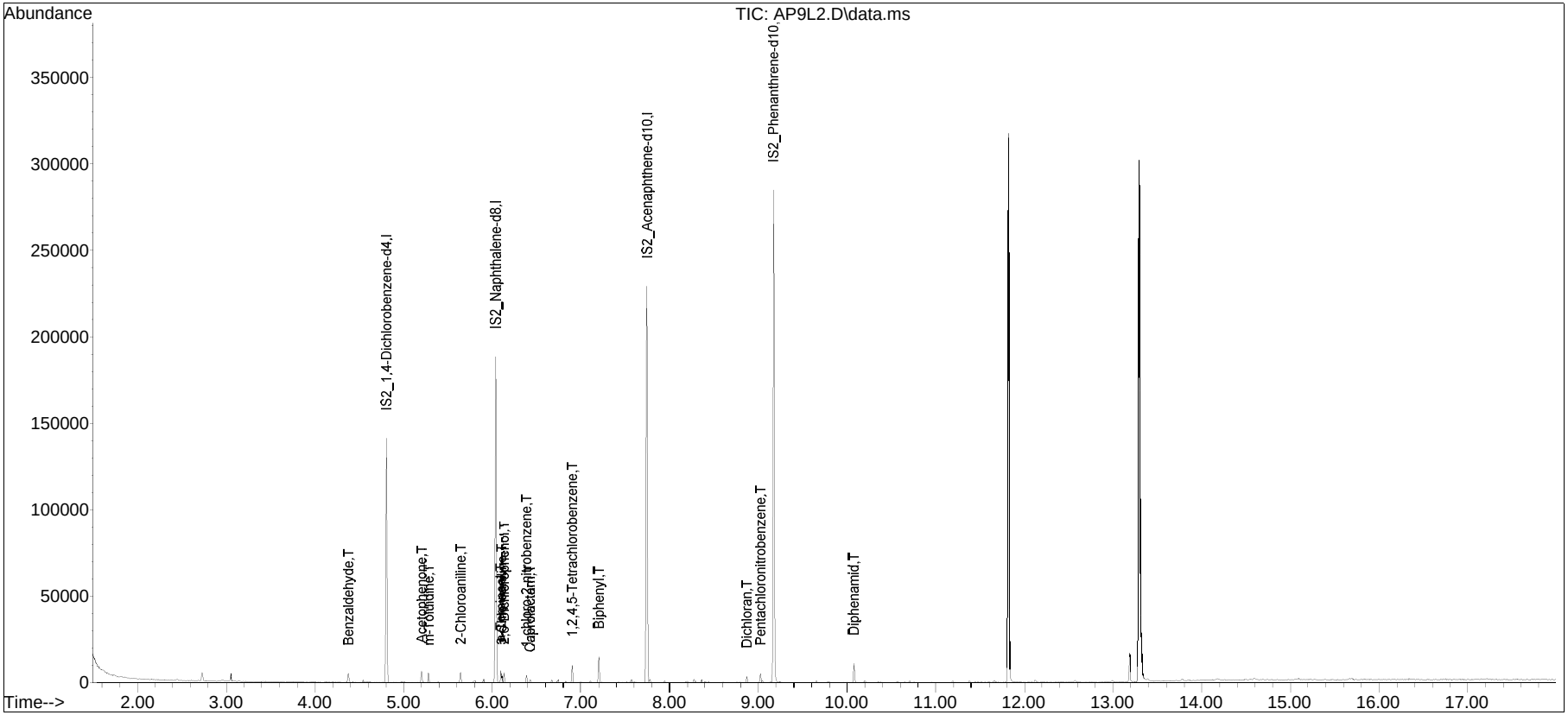
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	20613	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery = 97.11%			
55) IS2_Naphthalene-d8	6.040	136	75816	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery = 92.51%			
83) IS2_Acenaphthene-d10	7.746	164	46427	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery = 89.64%			
98) IS2_Phenanthrene-d10	9.175	188	106296	4.000	ug/ml #	0.00
Standard Area 1 = 118160			Recovery = 89.96%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.375	105	1252	0.222	ug/ml	91
29) Acetophenone	5.205	105	2044	0.208	ug/ml#	82
30) m-Toluidine	5.287	106	1832	0.194	ug/ml#	95
31) 2-Chloroaniline	5.646	127	1770	0.197	ug/ml#	75
56) a-Terpineol	6.093	59	1050	0.200	ug/ml	96
57) 3-Chloroaniline	6.105	65	491M2	0.172	ug/ml	
58) 2,6-Dichlorophenol	6.134	162	1237	0.200	ug/ml	91
59) 1-chloro-2-nitrobenzene	6.387	111	528	0.194	ug/ml#	63
60) Caprolactam	6.428	55	298M2	0.553	ug/ml	
61) 1,2,4,5-Tetrachloroben...	6.904	216	2043	0.225	ug/ml#	89
62) Biphenyl	7.199	154	4391	0.226	ug/ml	99
84) Dichloran	8.869	206	316M2	0.736	ug/ml	
85) Pentachloronitrobenzene	9.022	237	492M2	0.181	ug/ml	
99) Diphenamid	10.075	167	2543	0.186	ug/ml	86

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L2.D
Acq On : 26 Jun 2024 02:29 am
Operator : SV112:mrg
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1939943
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 06:22:48 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

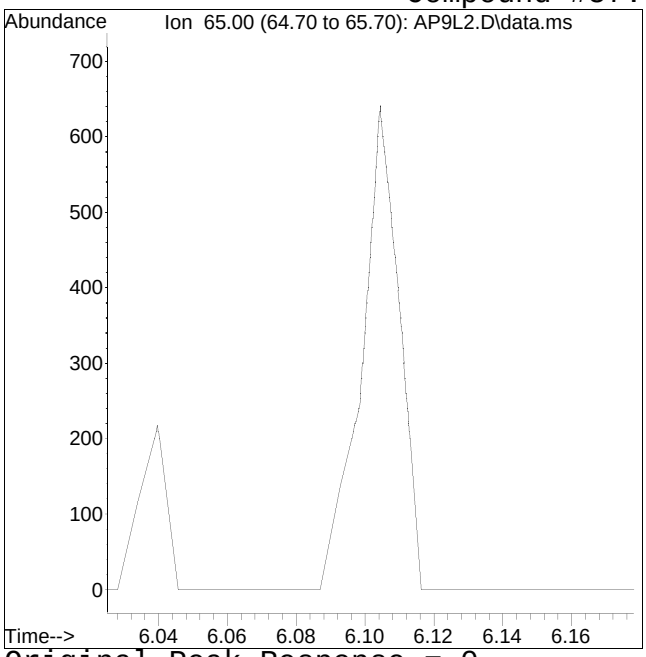
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



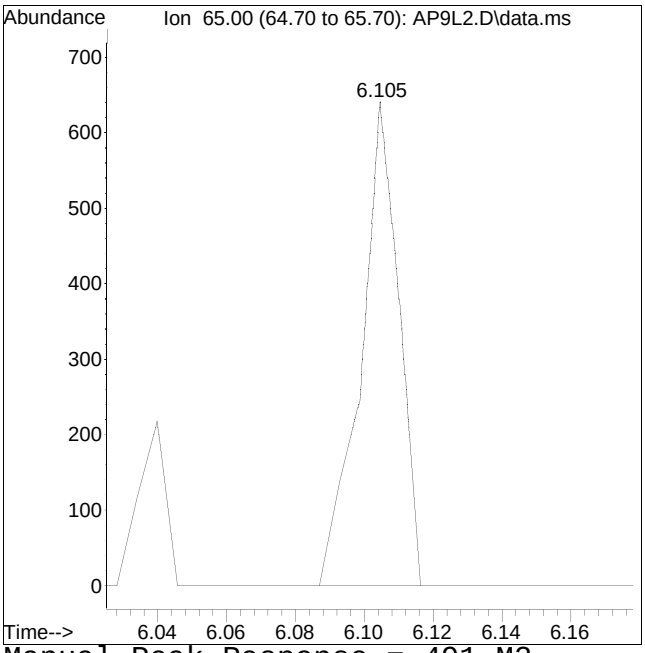
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:29 am Instrument : SV112
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 7/1/2024 6:23 am

Compound #57: 3-Chloroaniline



Original Peak Response = 0



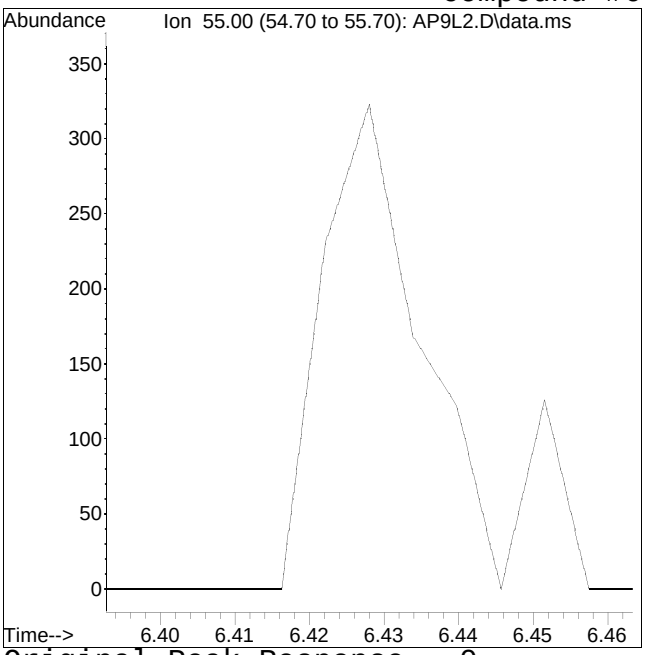
Manual Peak Response = 491 M2

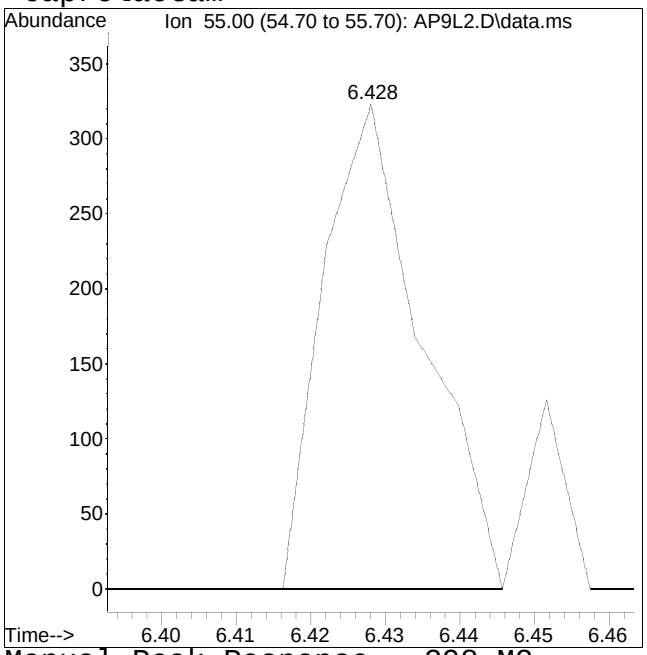
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:29 am Instrument : SV112
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 7/1/2024 6:23 am

Compound #60: Caprolactam



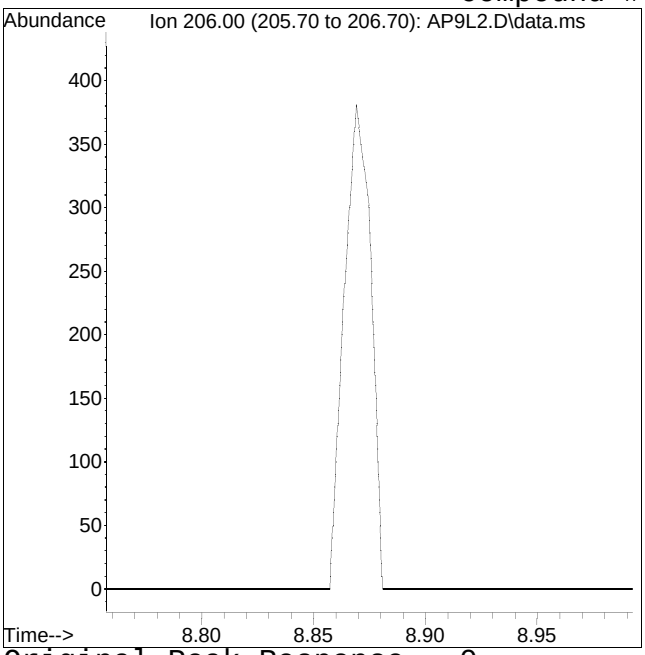


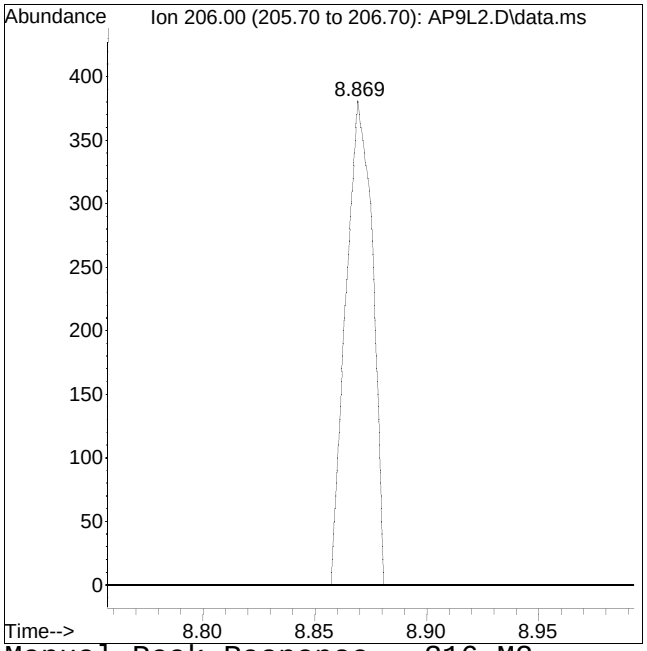
Original Peak Response = 0 Manual Peak Response = 298 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:29 am Instrument : SV112
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 7/1/2024 6:23 am

Compound #84: Dichloran



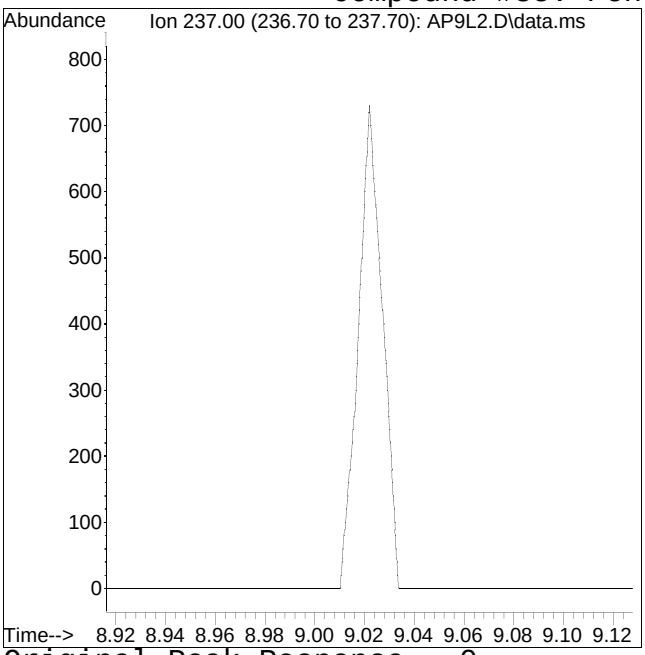


Original Peak Response = 0 Manual Peak Response = 316 M2
M2 = Peak not found by automatic integration algorithm.

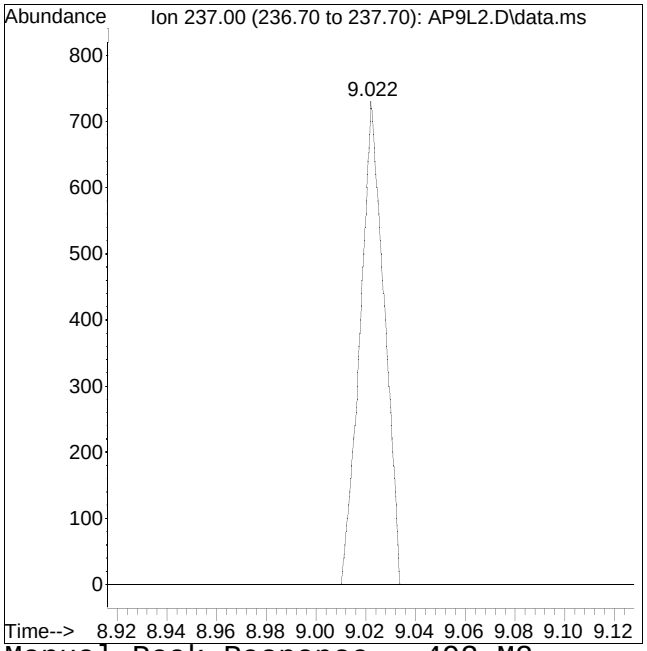
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:29 am Instrument : SV112
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 7/1/2024 6:23 am

Compound #85: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 492 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L1.D
Acq On : 26 Jun 2024 02:52 am
Operator : SV112:mrg
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1939943
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 01 06:22:37 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	19956	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery = 94.02%				
55) IS2_Naphthalene-d8	6.040	136	73801	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery = 90.05%				
83) IS2_Acenaphthene-d10	7.746	164	45325	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery = 87.51%				
98) IS2_Phenanthrene-d10	9.175	188	102570	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery = 86.81%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.375	105	519	0.095	ug/ml	#	2
29) Acetophenone	5.205	105	834	0.088	ug/ml	#	51
30) m-Toluidine	5.281	106	810	0.089	ug/ml	#	92
31) 2-Chloroaniline	5.646	127	845	0.097	ug/ml	#	46
56) a-Terpineol	6.093	59	497M3	0.097	ug/ml		
57) 3-Chloroaniline	6.104	65	198M2	0.071	ug/ml		
58) 2,6-Dichlorophenol	6.134	162	578	0.096	ug/ml	#	17
59) 1-chloro-2-nitrobenzene	6.387	111	209M2	0.079	ug/ml		
60) Caprolactam	6.428	55	106M2	0.498	ug/ml		
61) 1,2,4,5-Tetrachloroben...	6.904	216	888	0.100	ug/ml	#	87
62) Biphenyl	7.199	154	2021	0.107	ug/ml		93
84) Dichloran	8.869	206	167M2	0.689	ug/ml		
85) Pentachloronitrobenzene	9.022	237	200M2	0.075	ug/ml		
99) Diphenamid	10.075	167	1305	0.099	ug/ml		88

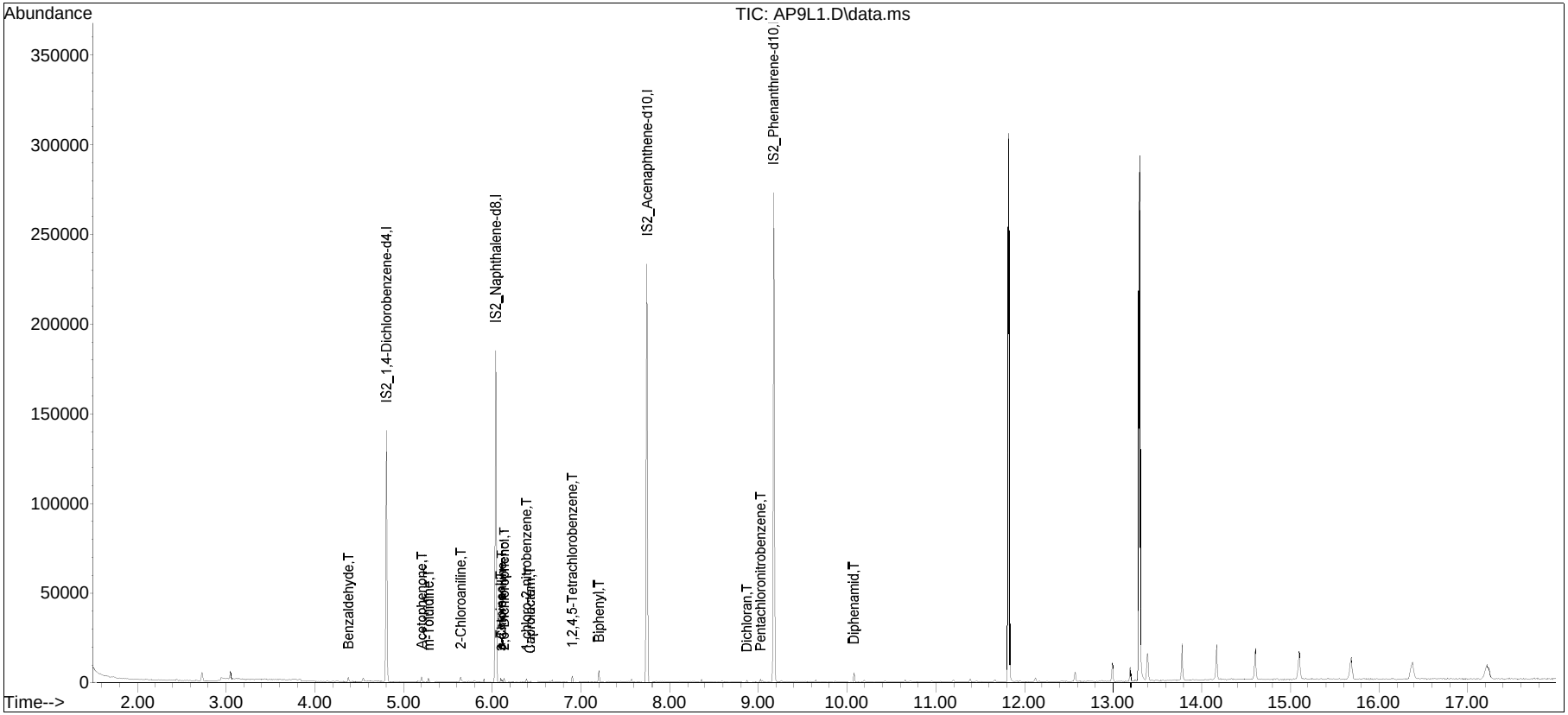
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L1.D
Acq On : 26 Jun 2024 02:52 am
Operator : SV112:mrg
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1939943
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 01 06:22:37 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

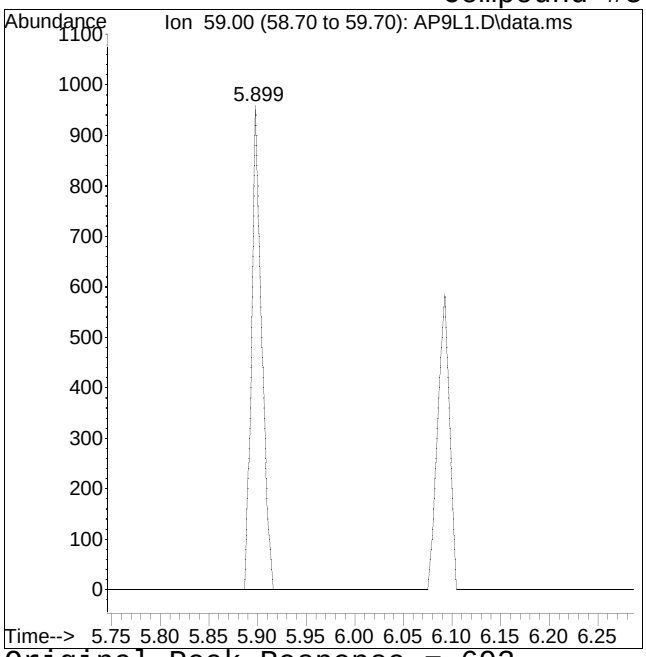


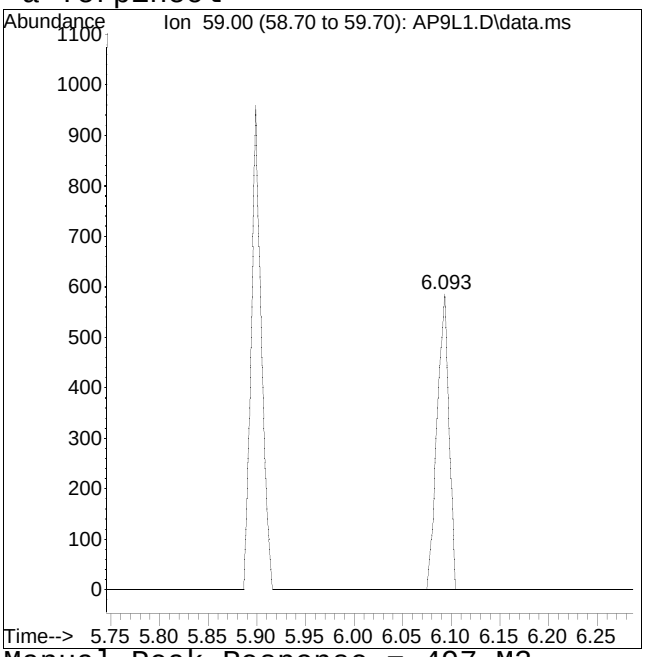
FS240625SV112RVT.m Mon Jul 01 06:28:00 2024 Page: 2

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #56: a-Terpineol





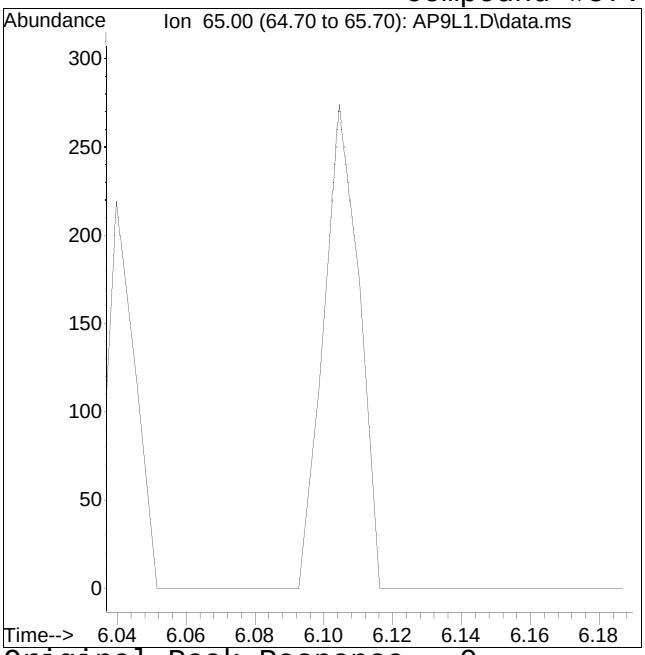
Original Peak Response = 693 Manual Peak Response = 497 M3

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

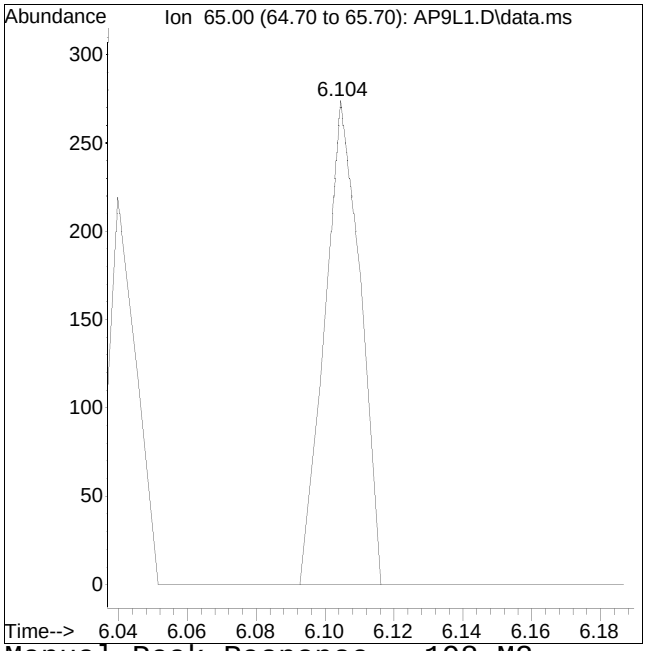
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #57: 3-Chloroaniline



Original Peak Response = 0



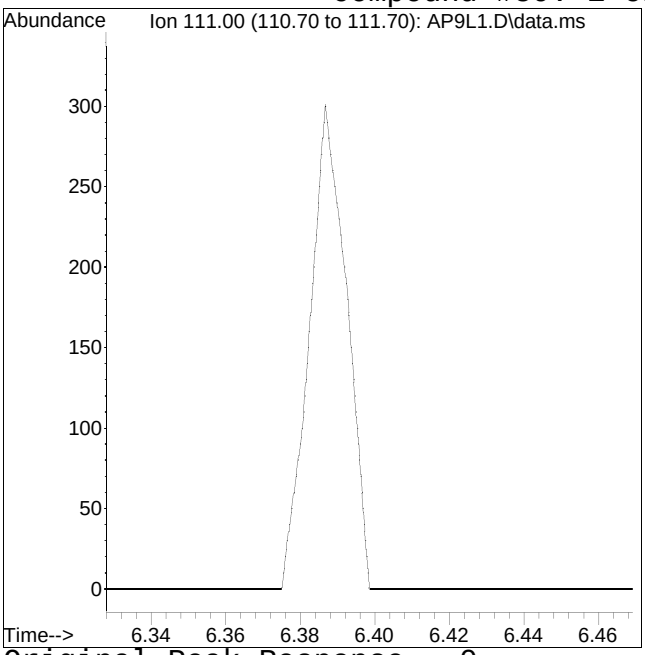
Manual Peak Response = 198 M2

M2 = Peak not found by automatic integration algorithm.

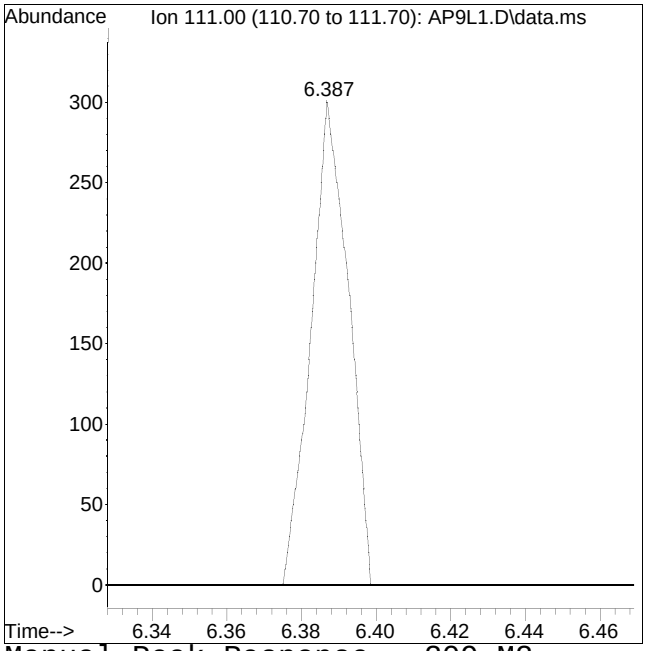
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #59: 1-chloro-2-nitrobenzene



Original Peak Response = 0



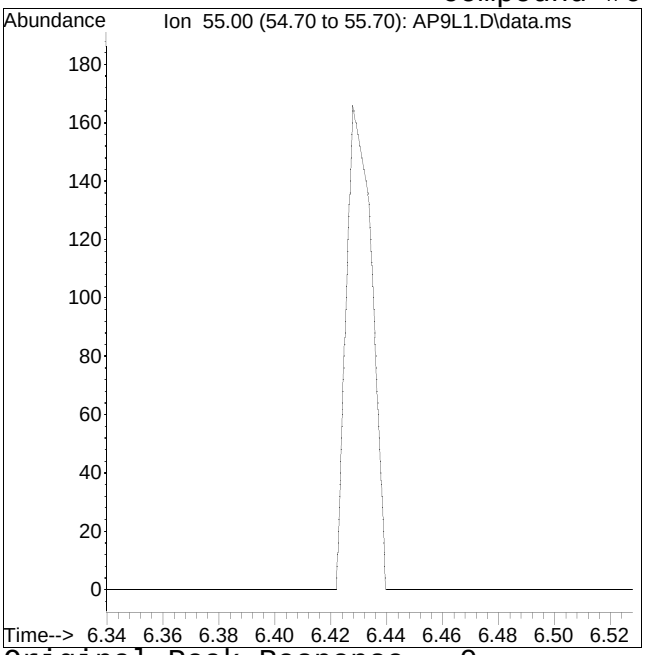
Manual Peak Response = 209 M2

M2 = Peak not found by automatic integration algorithm.

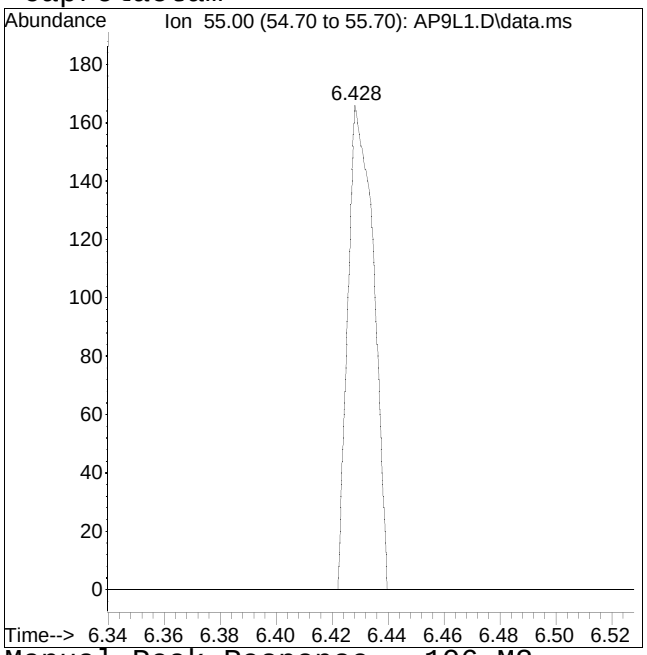
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #60: Caprolactam



Original Peak Response = 0



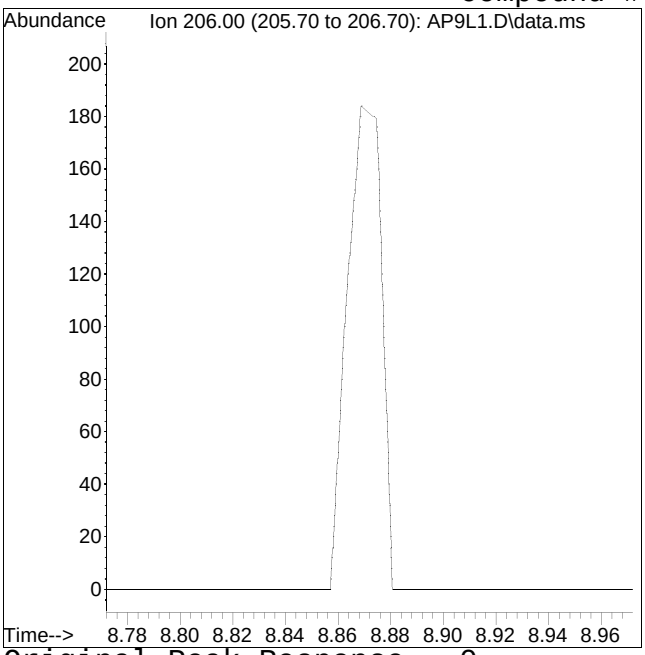
Manual Peak Response = 106 M2

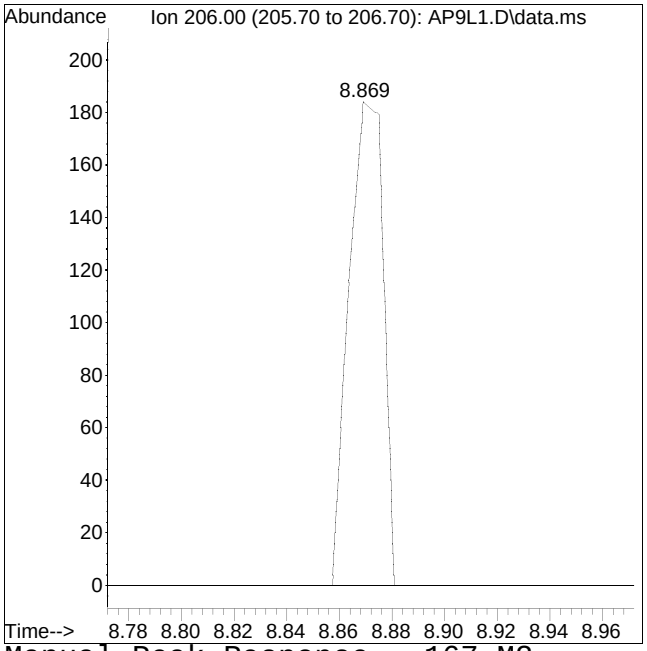
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #84: Dichloran



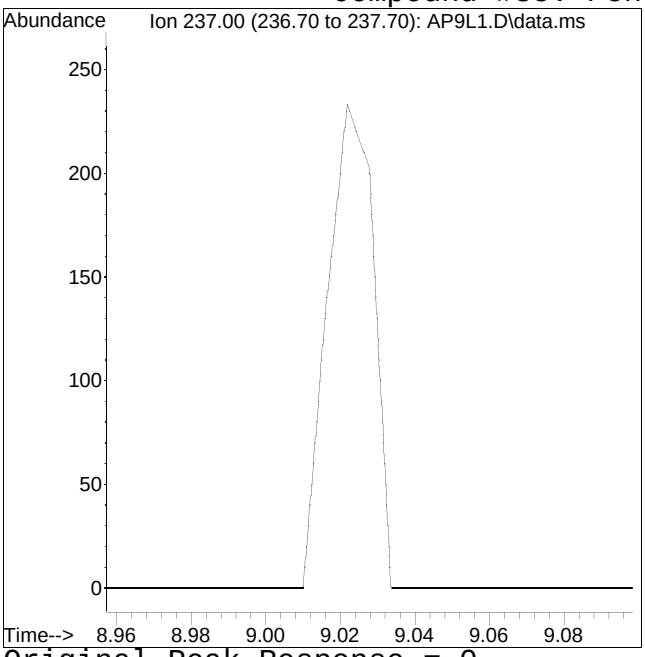


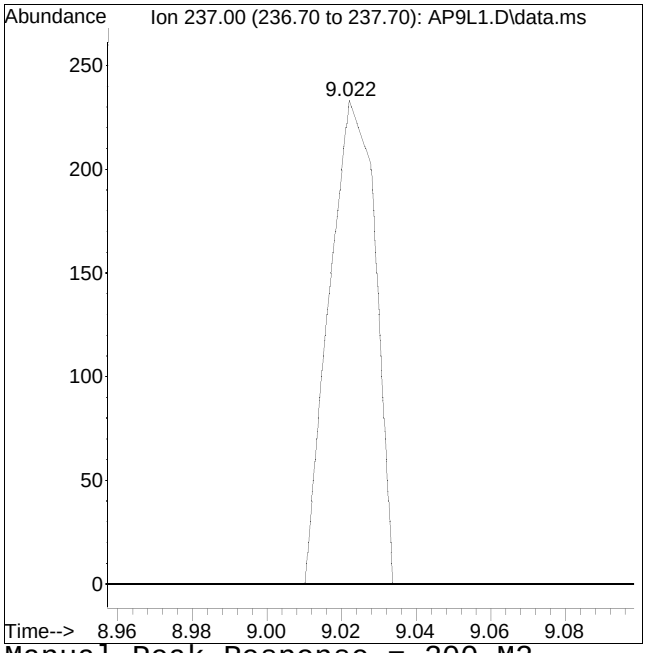
Original Peak Response = 0 Manual Peak Response = 167 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #85: Pentachloronitrobenzene





Original Peak Response = 0 Manual Peak Response = 200 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	97	0.00
2	T	n-Nitrosodimethylamine		0.657	0.661	-0.6	90	-0.01
3	T	Pyridine		1.043	1.077	-3.3	88	-0.01
4	S	2-Fluorophenol		1.050	1.026	2.3	93	0.00
5	T	Aniline		1.811	1.708	5.7	94	0.00
6	T	2-Chlorophenol		1.251	1.194	4.6	94	0.00
7	S	Phenol-d6		1.357	1.302	4.1	92	0.00
8	T	Phenol		1.577	1.534	2.7	95	0.00
9	T	Bis(2-chloroethyl)ether		1.167	1.142	2.1	99	0.00
10	T	1,3-Dichlorobenzene		1.508	1.482	1.7	97	0.00
11	T	1,4-Dichlorobenzene		1.575	1.487	5.6	97	0.00
12	T	1,2-Dichlorobenzene		1.475	1.465	0.7	99	0.00
13	T	Benzyl alcohol		0.945	0.944	0.1	96	0.00
14	T	Bis(2-chloroisopropyl)ether		1.475	1.397	5.3	95	0.00
15	T	2-Methylphenol		1.056	1.030	2.5	95	0.00
16	T	Hexachloroethane		0.558	0.569	-2.0	102	0.00
17	T	n-Nitrosodi-n-propylamine		0.865	0.810	6.4	93	0.00
18	T	3-Methylphenol/4-Methylphen		1.150	1.135	1.3	94	0.00
19	S	Nitrobenzene-d5		1.294	1.185	8.4	89	0.00
20	T	Nitrobenzene		1.289	1.210	6.1	91	0.00
21	T	Isophorone		2.328	2.330	-0.1	100	0.00
22	T	2-Nitrophenol		0.574	0.531	7.5	90	0.00
23	T	2,4-Dimethylphenol		1.101	1.041	5.4	100	0.00
24	T	Bis(2-chloroethoxy)methane		1.567	1.545	1.4	102	0.00
25	T	2,4-Dichlorophenol		1.153	1.150	0.3	99	0.00
26	T	1,2,4-Trichlorobenzene		1.460	1.370	6.2	100	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	98	0.00
36	T	Naphthalene		1.049	0.990	5.6	98	0.00
37	T	Benzoic Acid	*	5.000	4.283	14.3	88	0.00
38	T	4-Chloroaniline		0.118	0.117	0.8	98	0.00
39	T	Hexachlorobutadiene		0.246	0.232	5.7	101	0.00
40	T	p-Chloro-m-cresol		0.277	0.271	2.2	99	0.00
41	T	2-Methylnaphthalene		0.713	0.696	2.4	105	0.00
42	T	1-Methylnaphthalene		0.245	0.238	2.9	107	0.00
43	T	Hexachlorocyclopentadiene		0.251	0.241	4.0	105	0.00
44	T	2,4,6-Trichlorophenol		0.256	0.251	2.0	99	0.00
45	T	2,4,5-Trichlorophenol		0.262	0.259	1.1	99	0.00
46	S	2-Fluorobiphenyl		0.904	0.878	2.9	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.759	0.715	5.8	101	0.00
48	T	2-Nitroaniline		0.200	0.192	4.0	99	0.00
49	T	1,4-Dinitrobenzene		0.098	0.097	1.0	101	0.00
50	T	1,3-Dinitrobenzene		0.114	0.111	2.6	99	0.00
51	T	Dimethyl phthalate		0.923	0.914	1.0	109	0.00
52	T	Acenaphthylene		1.120	1.152	-2.9	107	0.00
53	T	2,6-Dinitrotoluene		0.173	0.173	0.0	104	0.00
54	T	1,2-Dinitrobenzene		0.076	0.074	2.6	103	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	107	0.00
64	T	3-Nitroaniline		0.299	0.294	1.7	102	0.00
65	T	Acenaphthene		1.115	1.047	6.1	108	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.100	18.0	95	0.00
67	T	Dibenzofuran		1.837	1.720	6.4	107	0.00
68	T	2,4-Dinitrotoluene		0.383	0.366	4.4	101	0.00
69	T	4-Nitrophenol		0.290	0.243	16.2	91	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.377	0.381	-1.1	106	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.370	0.392	-5.9	115	0.00
72	T	Diethyl phthalate		1.487	1.433	3.6	115	0.00
73	T	Fluorene		1.431	1.369	4.3	109	0.00
74	T	4-Chlorophenyl phenyl ether		0.780	0.710	9.0	110	0.00
75	T	4-Nitroaniline		0.314	0.320	-1.9	103	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.083	18.3	104	0.00
77	T	NDPA/DPA		1.231	1.176	4.5	110	0.00
78	T	Azobenzene		1.305	1.272	2.5	108	0.00
79	S	2,4,6-Tribromophenol		0.257	0.240	6.6	109	0.00
80	T	4-Bromophenyl phenyl ether		0.500	0.476	4.8	116	0.00
81	T	Hexachlorobenzene		0.628	0.576	8.3	117	0.00
82	T	Pentachlorophenol		0.322	0.304	5.6	108	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	113	0.00
89	T	Phenanthrene		1.058	1.001	5.4	111	0.00
90	T	Anthracene		1.035	1.011	2.3	114	0.00
91	T	Carbazole		0.948	0.936	1.3	111	0.00
92	T	Di-n-butylphthalate		1.034	1.067	-3.2	122	0.00
93	T	Fluoranthene		1.228	1.220	0.7	117	0.00
94	T	Benzidine		0.675	0.684	-1.3	110	0.00
95	T	Pyrene		1.301	1.332	-2.4	116	0.00
96	S	4-Terphenyl-d14		1.029	1.027	0.2	121	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.458	0.448	2.2	120	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	115	0.00
105	T	Benzo(a)anthracene	1.284	1.249	2.7	115	0.00
106	T	3,3'-Dichlorobenzidine	0.468	0.466	0.4	115	0.00
107	T	Chrysene	1.259	1.203	4.4	115	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.639	0.672	-5.2	127	0.00
109	T	Di-n-octylphthalate	0.979	1.043	-6.5	121	0.00
110	T	Benzo(b)fluoranthene	1.317	1.290	2.1	114	0.00
111	T	Benzo(k)fluoranthene	1.202	1.189	1.1	107	0.00
112	T	Benzo(a)pyrene	1.149	1.154	-0.4	113	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	109	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.118	1.029	8.0	98	0.00
115	T	Dibenzo(a,h)anthracene	1.068	1.071	-0.3	108	0.00
116	T	Benzo(ghi)perylene	1.078	0.996	7.6	103	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	20598	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 96.86%		
35) IS1_Naphthalene-d8	6.040	136	80389	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 98.39%		
63) IS1_Acenaphthene-d10	7.746	164	52787	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 107.31%		
88) IS1_Phenanthrene-d10	9.175	188	116871	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 112.53%		
104) IS1_Chrysene-d12	11.822	240	127855	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 114.95%		
113) IS1_Perylene-d12	13.298	264	143710	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 109.37%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	26417	4.884 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 244.20%#		
7) Phenol-d6	4.475	99	33525	4.799 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 239.95%#		
19) Nitrobenzene-d5	5.340	82	30499	4.577 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 457.70%#		
46) 2-Fluorobiphenyl	7.105	172	88237	4.854 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 485.40%#		
79) 2,4,6-Tribromophenol	8.510	330	15837	4.674 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 233.70%#		
96) 4-Terphenyl-d14	10.757	244	150090	4.993 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 499.30%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.164	74	17024	5.031 ug/ml	96
3) Pyridine	2.199	79	27737	5.166 ug/ml	84
5) Aniline	4.481	93	43964	4.715 ug/ml#	50
6) 2-Chlorophenol	4.599	128	30731	4.772 ug/ml	93
8) Phenol	4.487	94	39494	4.864 ug/ml#	48
9) Bis(2-chloroethyl)ether	4.564	93	29416	4.894 ug/ml	95
10) 1,3-Dichlorobenzene	4.746	146	38166	4.914 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	38281	4.721 ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	37717	4.965 ug/ml	96
13) Benzyl alcohol	4.952	79	24307	4.997 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.093	45	35963	4.736 ug/ml#	55

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.075	108	26511	4.873	ug/ml	97
16) Hexachloroethane	5.299	117	14641	5.098	ug/ml#	69
17) n-Nitrosodi-n-propylamine	5.216	70	20852	4.680	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.234	108	29223	4.933	ug/ml	97
20) Nitrobenzene	5.358	77	31148	4.691	ug/ml	99
21) Isophorone	5.599	82	59999	5.005	ug/ml	99
22) 2-Nitrophenol	5.675	139	13664	4.620	ug/ml	97
23) 2,4-Dimethylphenol	5.746	107	26791	4.724	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	39785	4.930	ug/ml	99
25) 2,4-Dichlorophenol	5.916	162	29599	4.986	ug/ml#	94
26) 1,2,4-Trichlorobenzene	5.993	180	35281	4.693	ug/ml	96
36) Naphthalene	6.058	128	99432	4.718	ug/ml	99
37) Benzoic Acid	5.816	105	14641	4.283	ug/ml	95
38) 4-Chloroaniline	6.122	65	11724	4.950	ug/ml	91
39) Hexachlorobutadiene	6.210	225	23300	4.717	ug/ml	97
40) p-Chloro-m-cresol	6.616	107	27216	4.891	ug/ml	93
41) 2-Methylnaphthalene	6.740	142	69923	4.879	ug/ml	98
42) 1-Methylnaphthalene	6.828	115	23877	4.844	ug/ml	98
43) Hexachlorocyclopentadiene	6.910	237	24201	4.800	ug/ml	98
44) 2,4,6-Trichlorophenol	7.022	196	25194	4.888	ug/ml	99
45) 2,4,5-Trichlorophenol	7.052	196	25978	4.926	ug/ml	99
47) 2-Chloronaphthalene	7.205	162	71799	4.710	ug/ml	94
48) 2-Nitroaniline	7.310	138	19285	4.788	ug/ml	89
49) 1,4-Dinitrobenzene	7.440	168	9774	4.947	ug/ml	83
50) 1,3-Dinitrobenzene	7.516	168	11190	4.884	ug/ml	89
51) Dimethyl phthalate	7.510	163	91883	4.955	ug/ml	100
52) Acenaphthylene	7.605	152	115716	5.142	ug/ml	98
53) 2,6-Dinitrotoluene	7.557	165	17365	5.007	ug/ml	92
54) 1,2-Dinitrobenzene	7.599	168	7435	4.870	ug/ml#	1
64) 3-Nitroaniline	7.710	138	19395	4.919	ug/ml	93
65) Acenaphthene	7.775	154	69117	4.699	ug/ml	97
66) 2,4-Dinitrophenol	7.810	184	8557	4.100	ug/ml#	83
67) Dibenzofuran	7.946	168	113504	4.682	ug/ml	93
68) 2,4-Dinitrotoluene	7.940	165	24166	4.777	ug/ml	93
69) 4-Nitrophenol	7.310	65	16049	4.201	ug/ml#	10
70) 2,3,5,6-Tetrachlorophenol	8.034	232	25150	5.061	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.075	232	25875	5.300	ug/ml	98
72) Diethyl phthalate	8.199	149	94549	4.820	ug/ml	96
73) Fluorene	8.275	166	90363	4.786	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.293	204	46843	4.553	ug/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.299	138	21133	5.094	ug/ml	95
76)	4,6-Dinitro-o-cresol	8.334	198	13091	4.083	ug/ml#	74
77)	NDPA/DPA	8.404	169	77598	4.778	ug/ml	95
78)	Azobenzene	8.440	77	83945	4.874	ug/ml#	93
80)	4-Bromophenyl phenyl e...	8.763	248	31429	4.768	ug/ml#	82
81)	Hexachlorobenzene	8.816	284	37993	4.587	ug/ml#	84
82)	Pentachlorophenol	9.010	266	20072	4.720	ug/ml	99
89)	Phenanthrene	9.199	178	146237	4.730	ug/ml	99
90)	Anthracene	9.252	178	147689	4.883	ug/ml	99
91)	Carbazole	9.416	167	136779	4.939	ug/ml	98
92)	Di-n-butylphthalate	9.799	149	155812	5.157	ug/ml	100
93)	Fluoranthene	10.357	202	178241M3	4.969	ug/ml	
94)	Benzidine	10.504	184	99975	5.069	ug/ml#	96
95)	Pyrene	10.575	202	194546	5.116	ug/ml	99
97)	Butyl benzyl phthalate	11.281	149	65418	4.894	ug/ml	93
105)	Benzo(a)anthracene	11.816	228	199667	4.863	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.810	252	74502	4.982	ug/ml#	97
107)	Chrysene	11.851	228	192294	4.778	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.916	149	107331	5.257	ug/ml#	98
109)	Di-n-octylphthalate	12.598	149	166682	5.328	ug/ml	97
110)	Benzo(b)fluoranthene	12.922	252	206155	4.896	ug/ml#	95
111)	Benzo(k)fluoranthene	12.951	252	190009M3	4.944	ug/ml	
112)	Benzo(a)pyrene	13.240	252	184465	5.021	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.292	276	184779M6	4.599	ug/mL	
115)	Dibenzo(a,h)anthracene	14.316	278	192344	5.012	ug/ml#	91
116)	Benzo(ghi)perylene	14.557	276	178871	4.619	ug/ml#	92

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
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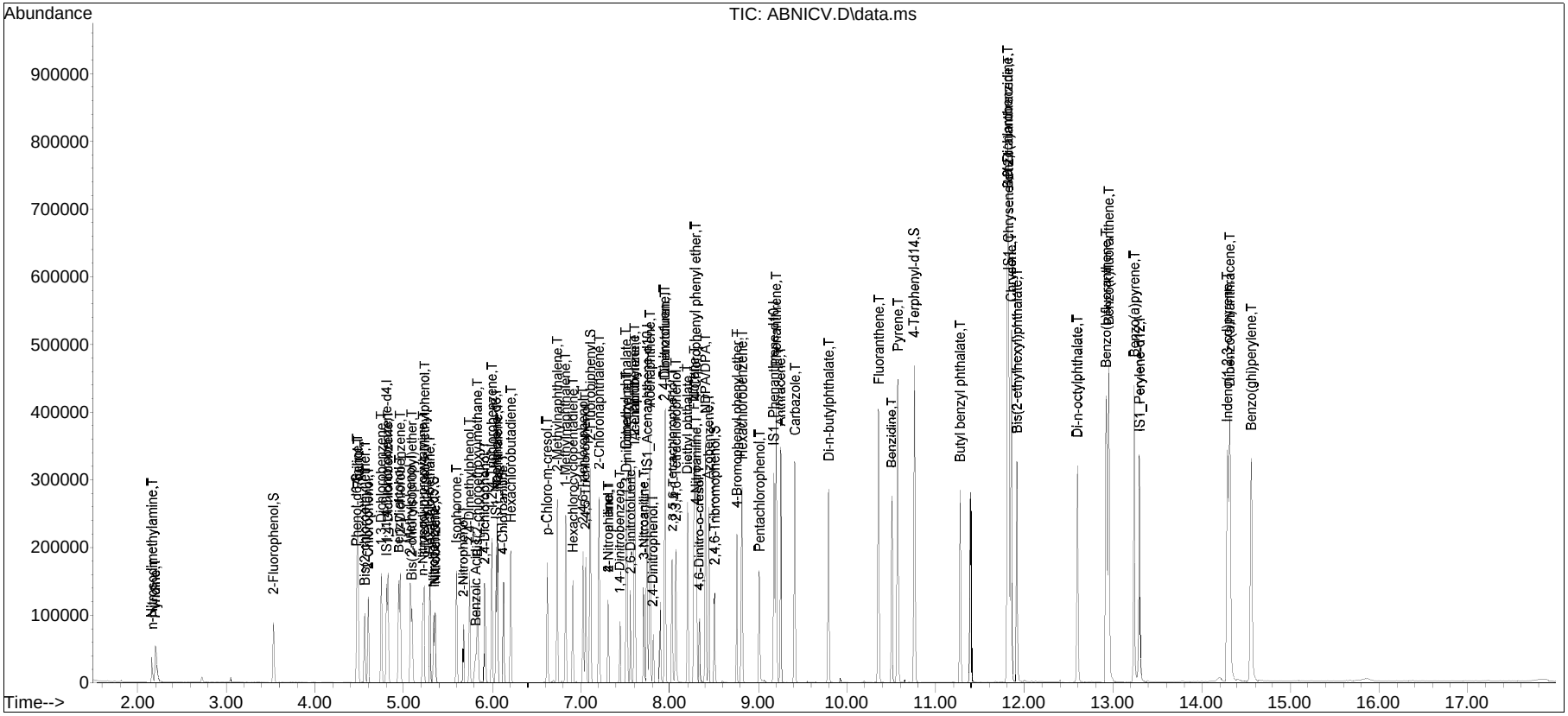
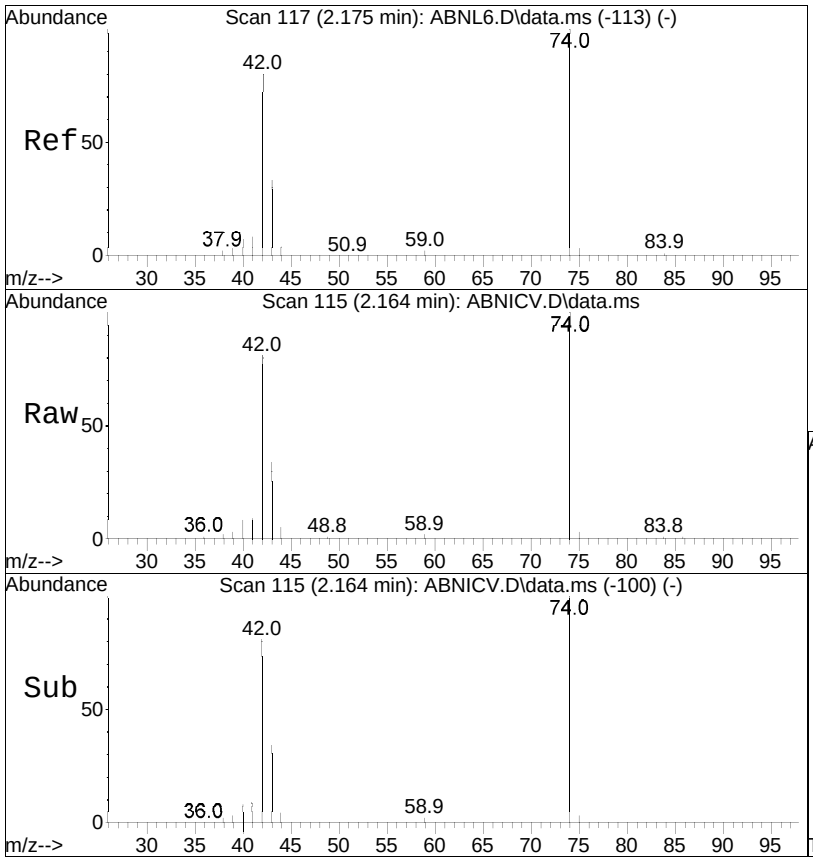
Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

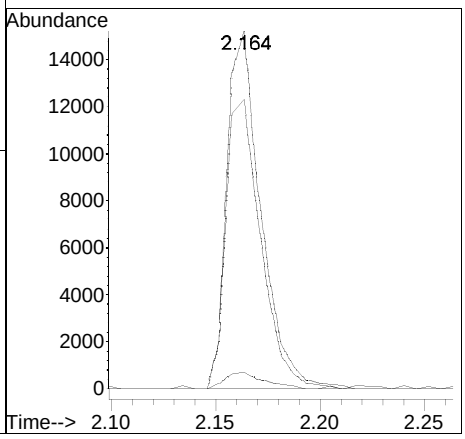


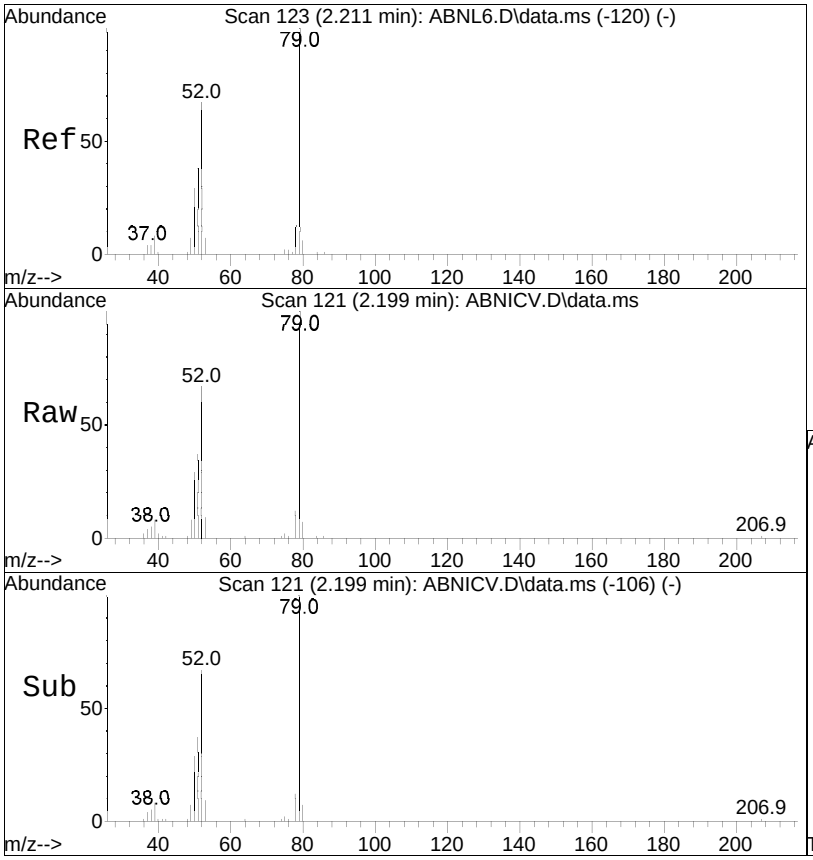


#2
n-Nitrosodimethylamine
Concen: 5.03 ug/ml
RT: 2.164 min Scan# 115
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 74 Resp: 17024

Ion	Ratio	Lower	Upper
74	100		
42	83.3	63.8	95.8
44	5.5	4.3	6.5

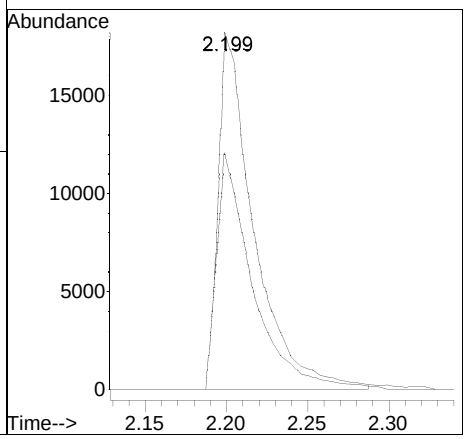


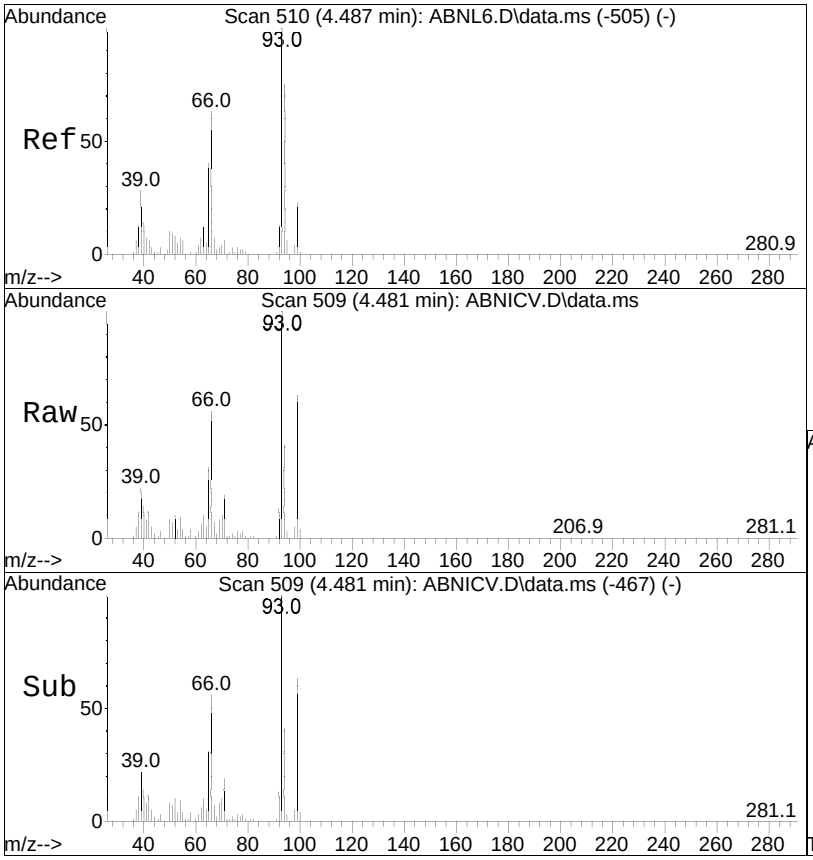


#3
Pyridine
Concen: 5.17 ug/ml
RT: 2.199 min Scan# 121
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 79 Resp: 27737

Ion	Ratio	Lower	Upper
79	100		
52	66.5	64.6	96.8

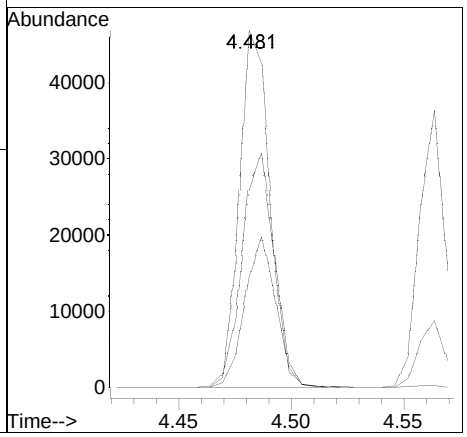


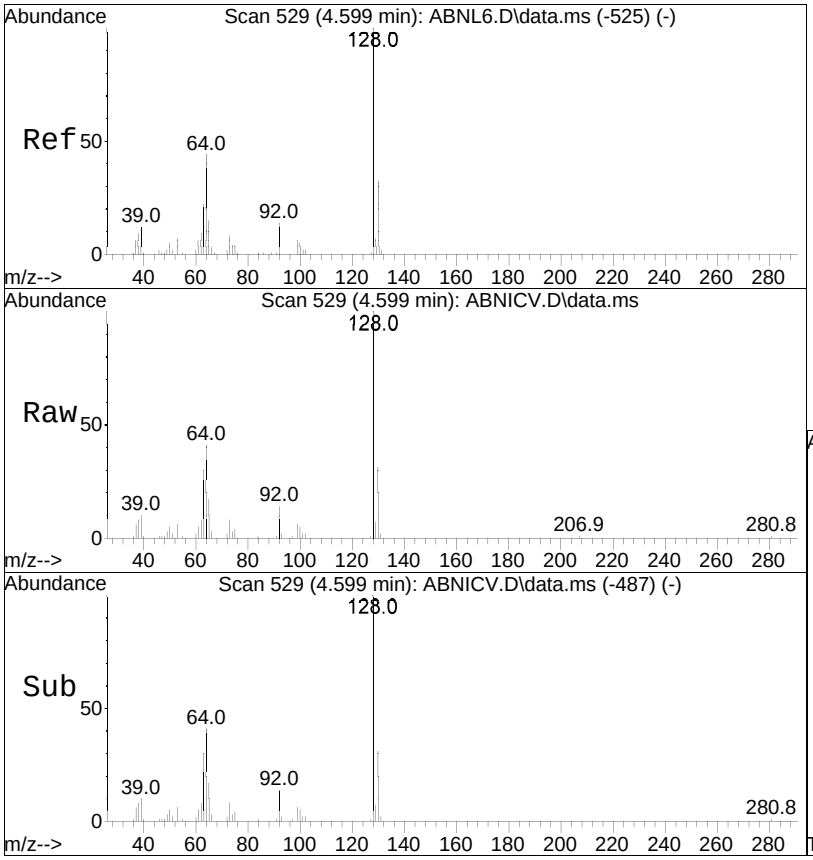


#5
Aniline
Concen: 4.71 ug/ml
RT: 4.481 min Scan# 509
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 93 Resp: 43964

Ion	Ratio	Lower	Upper
93	100		
66	70.6	31.3	46.9#
65	43.3	16.6	25.0#

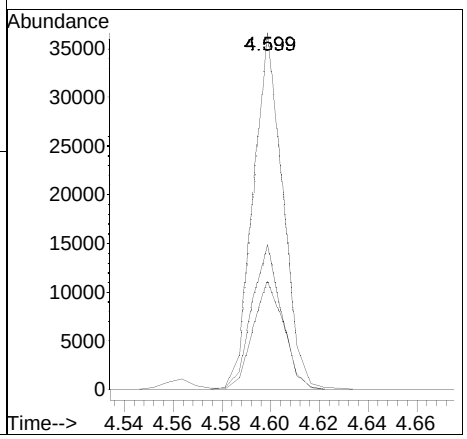


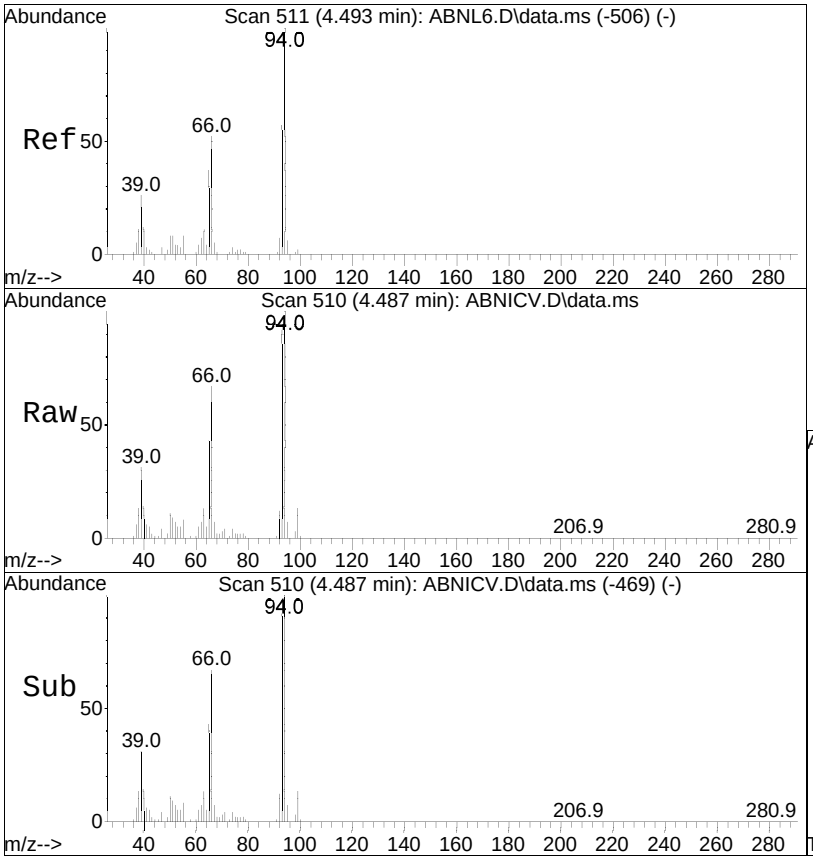


#6
2-Chlorophenol
Concen: 4.77 ug/ml
RT: 4.599 min Scan# 529
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:128 Resp: 30731

Ion	Ratio	Lower	Upper
128	100		
64	40.6	38.2	57.4
130	31.9	26.2	39.2

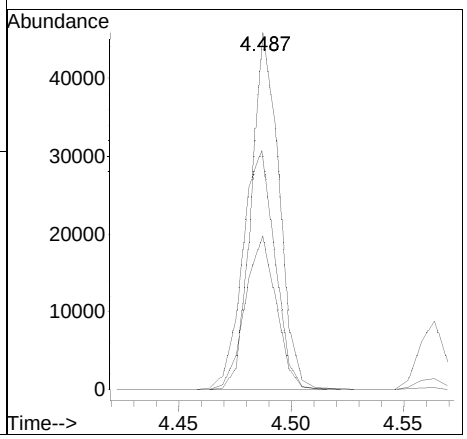


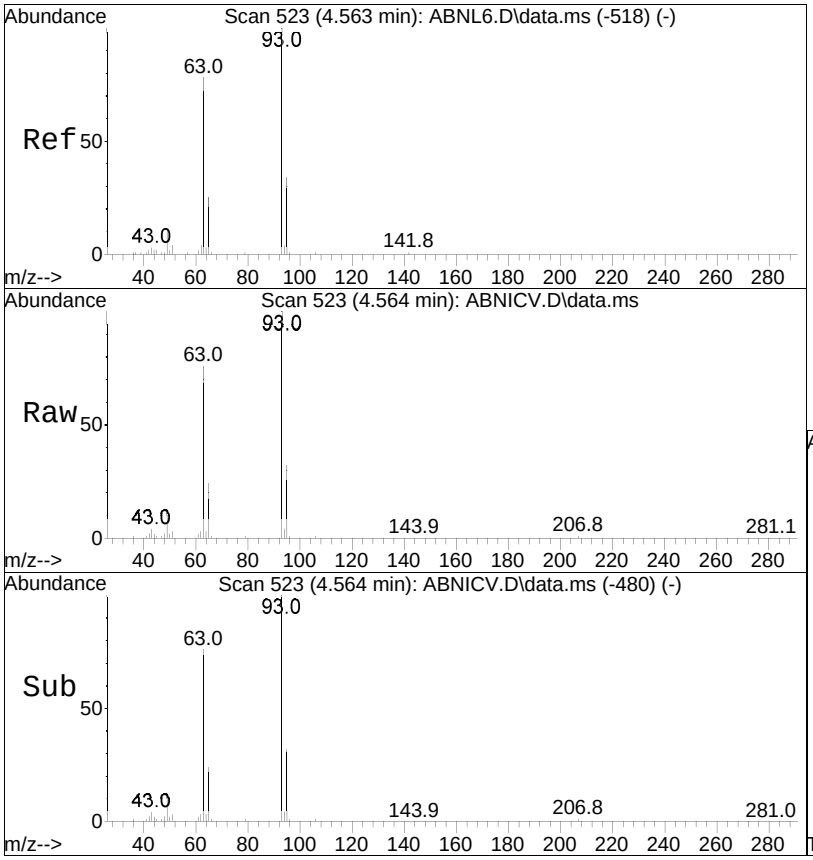


#8
Phenol
Concen: 4.86 ug/ml
RT: 4.487 min Scan# 510
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 94 Resp: 39494

Ion	Ratio	Lower	Upper
94	100		
65	48.2	23.0	34.6#
66	78.6	32.1	48.1#

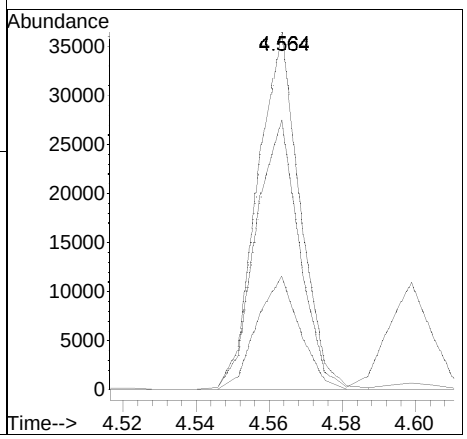


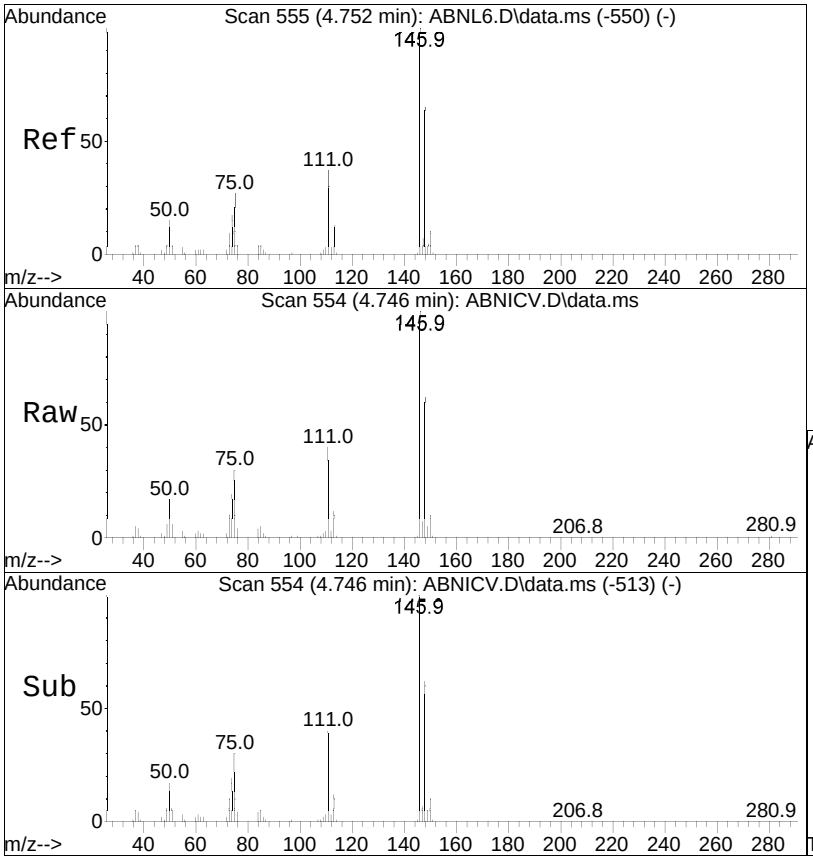


#9
Bis(2-chloroethyl)ether
Concen: 4.89 ug/ml
RT: 4.564 min Scan# 523
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 93 Resp: 29416

Ion	Ratio	Lower	Upper
93	100		
63	77.3	67.0	100.4
95	32.2	26.1	39.1

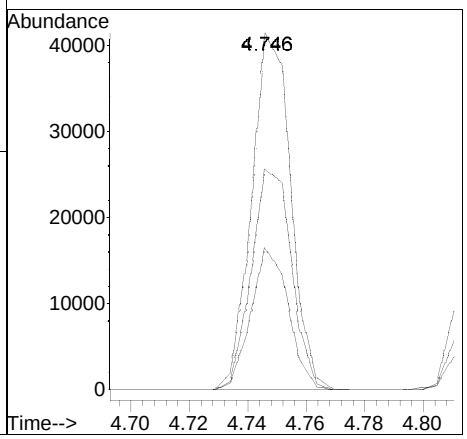


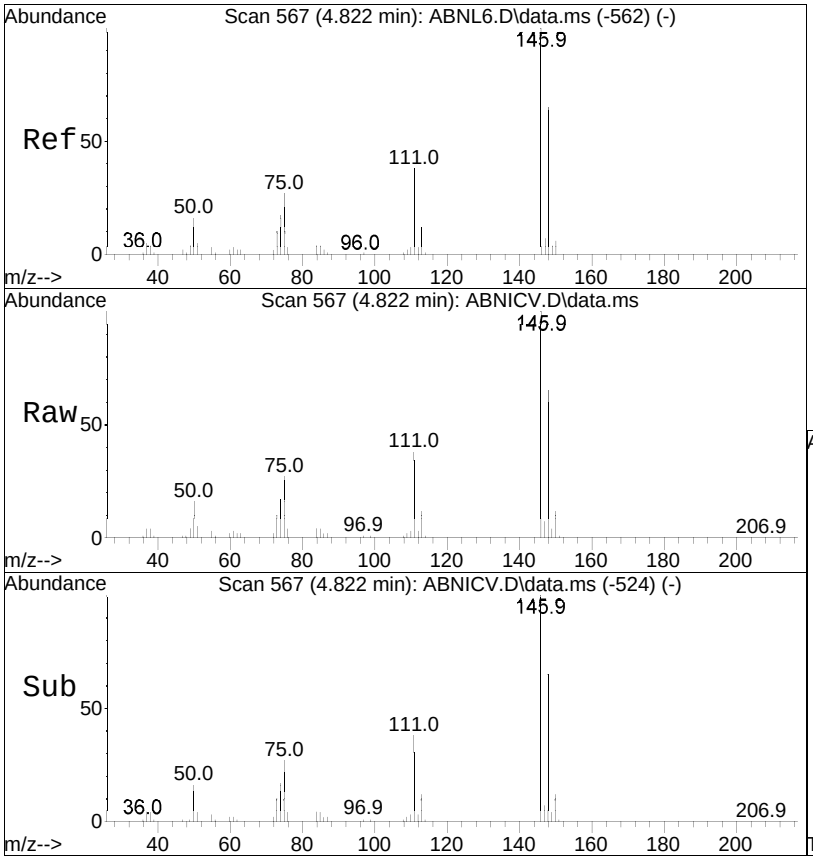


#10
1,3-Dichlorobenzene
Concen: 4.91 ug/ml
RT: 4.746 min Scan# 554
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:146 Resp: 38166

Ion	Ratio	Lower	Upper
146	100		
111	38.5	35.0	52.4
148	63.7	51.3	76.9

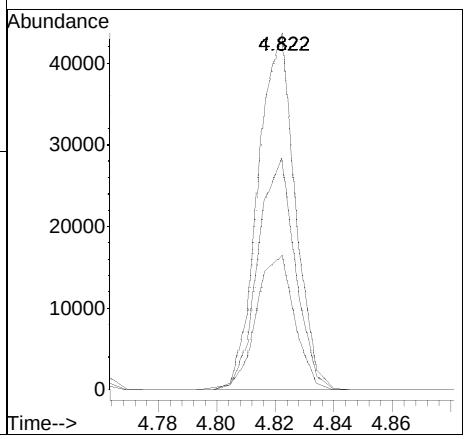


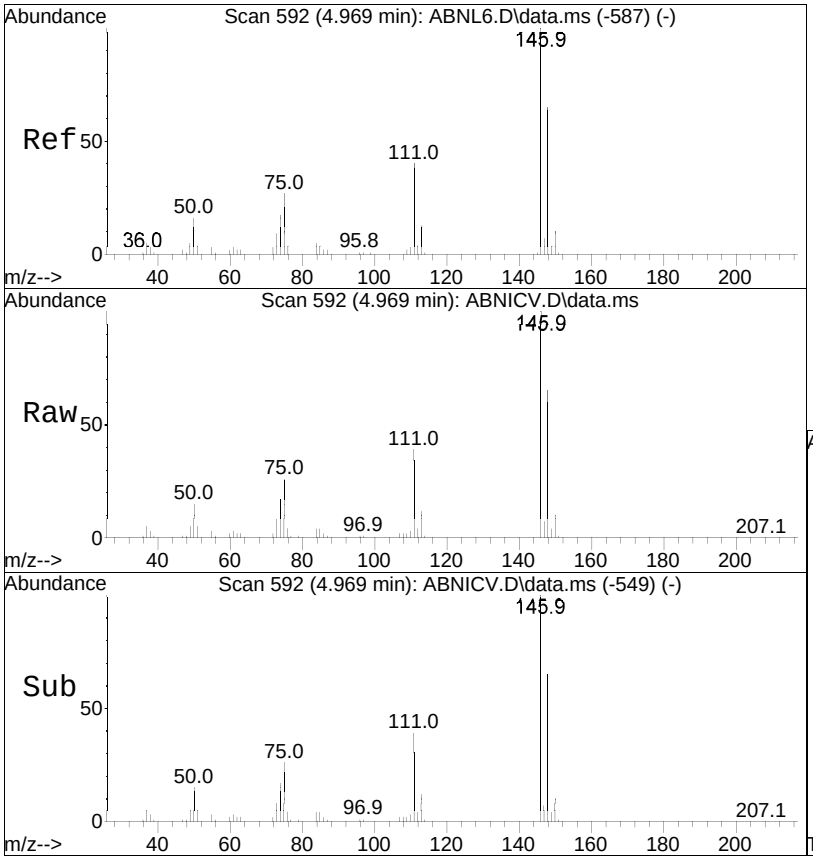


#11
1,4-Dichlorobenzene
Concen: 4.72 ug/ml
RT: 4.822 min Scan# 567
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:146 Resp: 38281

Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.1	76.7
111	39.3	34.4	51.6

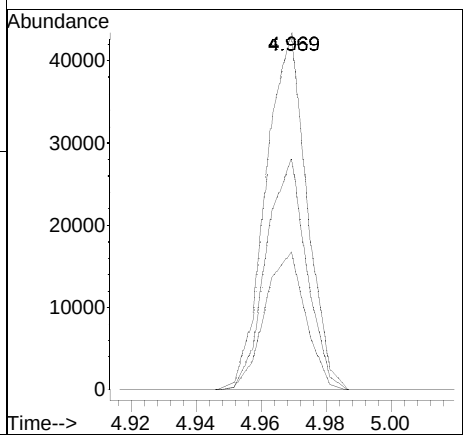


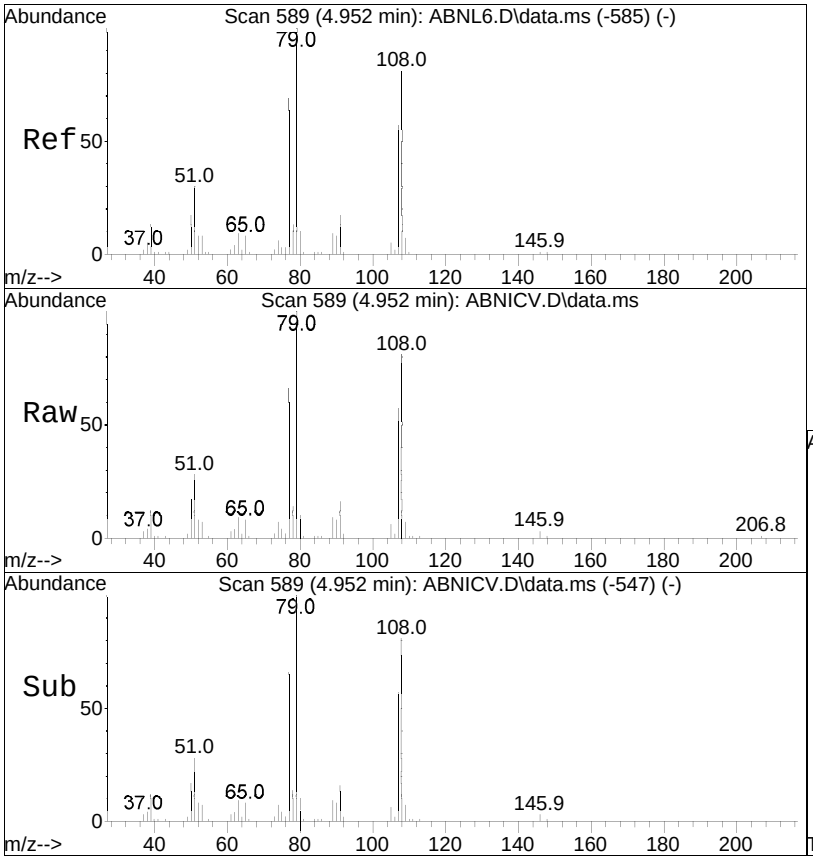


#12
1,2-Dichlorobenzene
Concen: 4.96 ug/ml
RT: 4.969 min Scan# 592
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:146 Resp: 37717

Ion	Ratio	Lower	Upper
146	100		
111	38.6	35.5	53.3
148	63.9	50.6	76.0

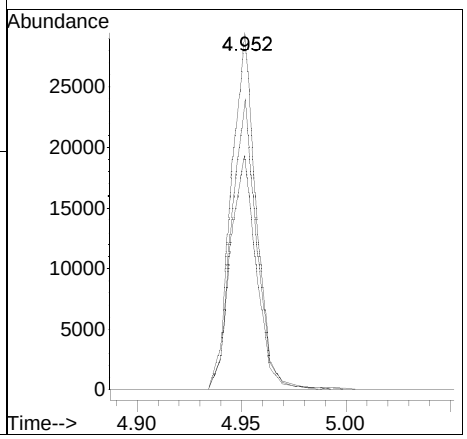


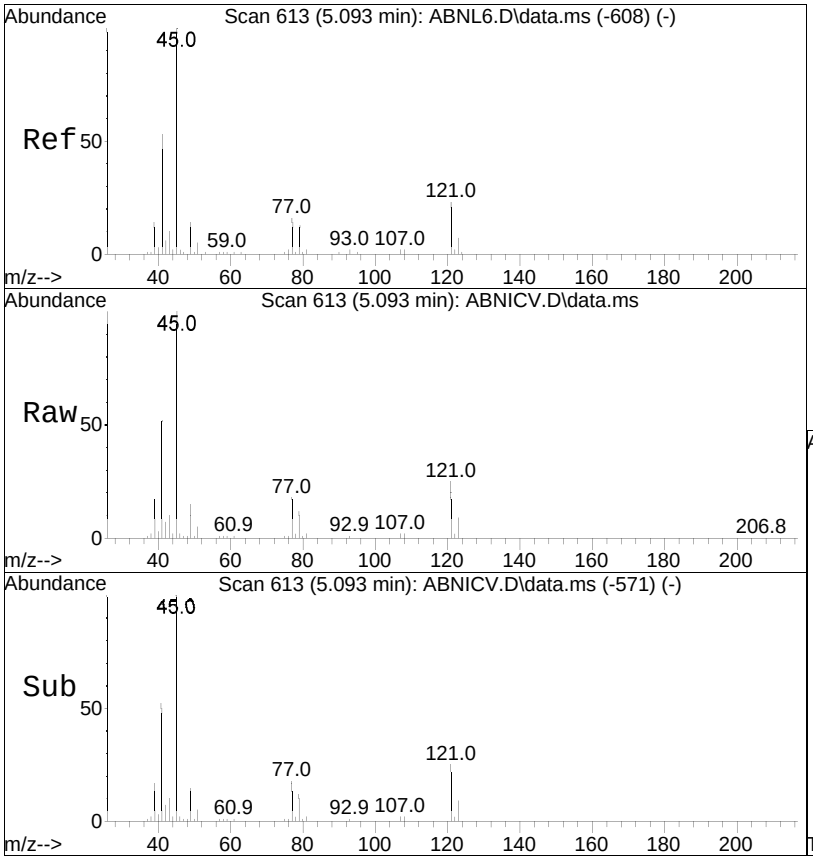


#13
Benzyl alcohol
Concen: 5.00 ug/ml
RT: 4.952 min Scan# 589
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 79 Resp: 24307

Ion	Ratio	Lower	Upper
79	100		
77	68.9	51.8	77.6
108	82.2	63.9	95.9

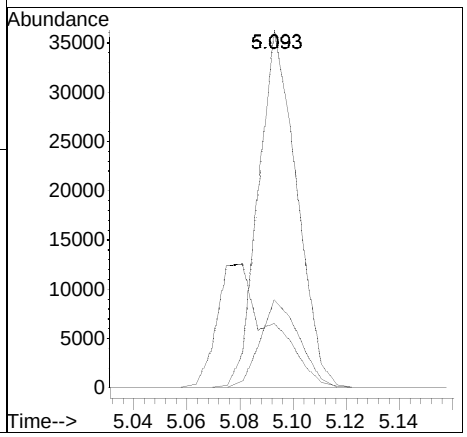


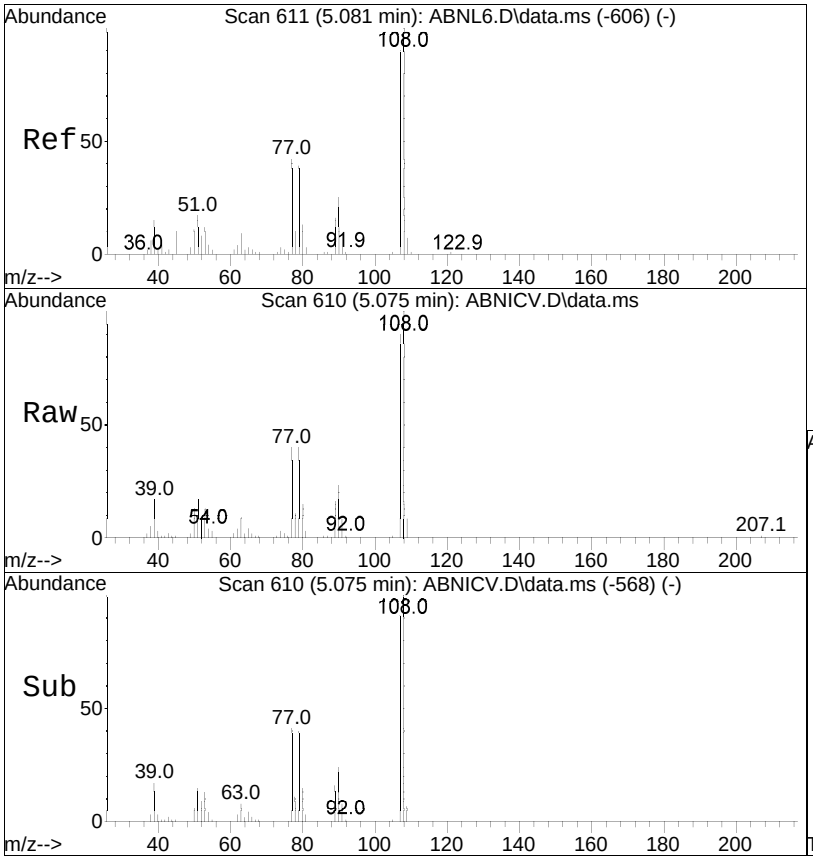


#14
Bis(2-chloroisopropyl)ether
Concen: 4.74 ug/ml
RT: 5.093 min Scan# 613
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 45 Resp: 35963

Ion	Ratio	Lower	Upper
45	100		
121	25.1	14.8	22.2#
77	48.1	10.5	15.7#

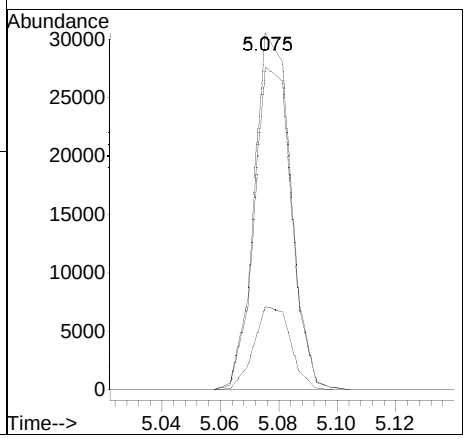


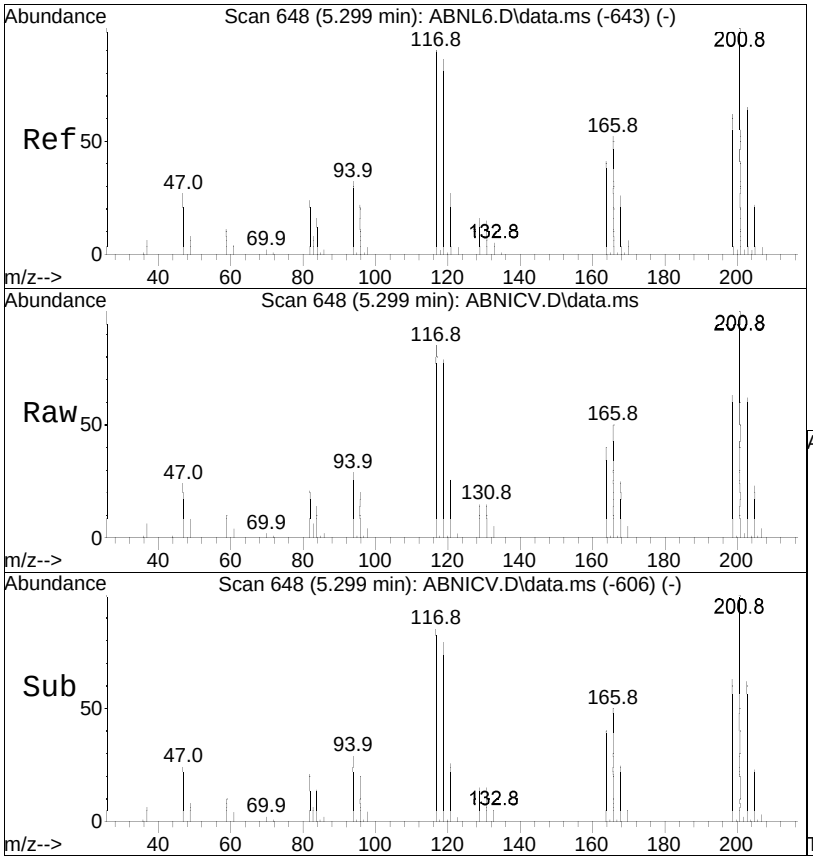


#15
2-Methylphenol
Concen: 4.87 ug/ml
RT: 5.075 min Scan# 610
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:108 Resp: 26511

Ion	Ratio	Lower	Upper
108	100		
107	92.3	71.0	106.4
90	23.5	19.7	29.5

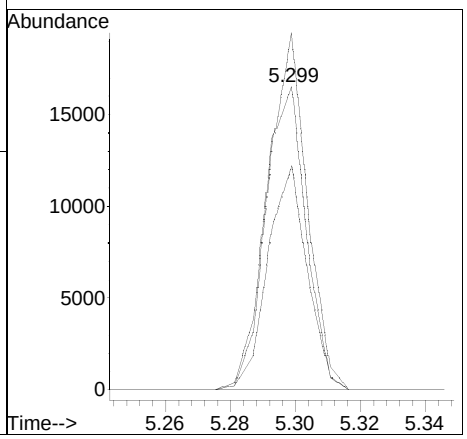


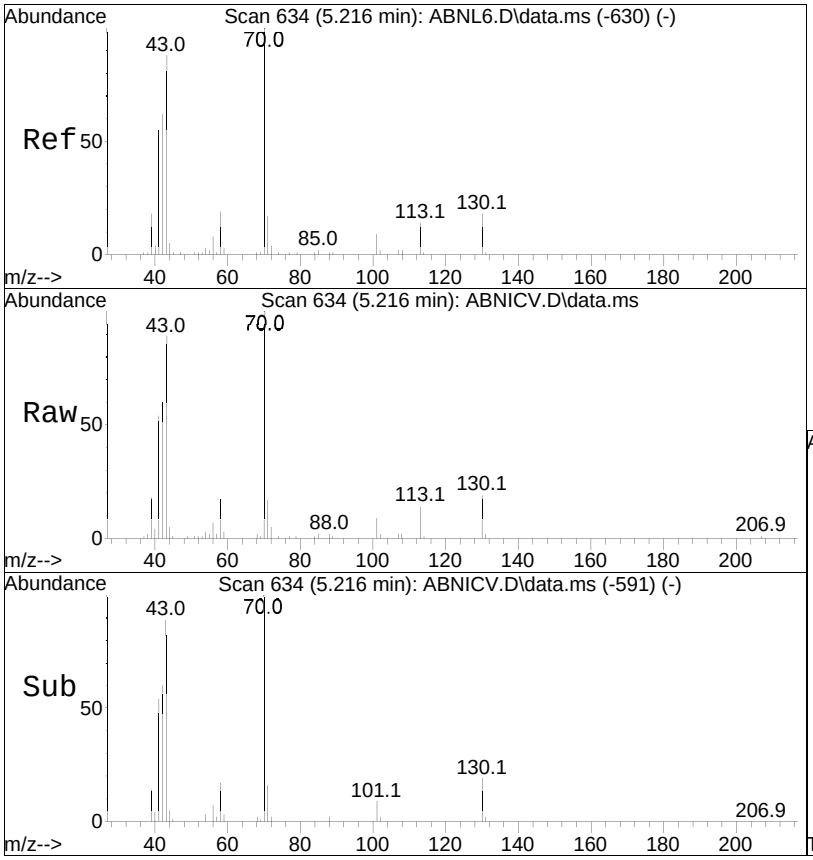


#16
Hexachloroethane
Concen: 5.10 ug/ml
RT: 5.299 min Scan# 648
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:117 Resp: 14641

Ion	Ratio	Lower	Upper
117	100		
201	109.8	64.4	96.6#
199	70.3	40.5	60.7#

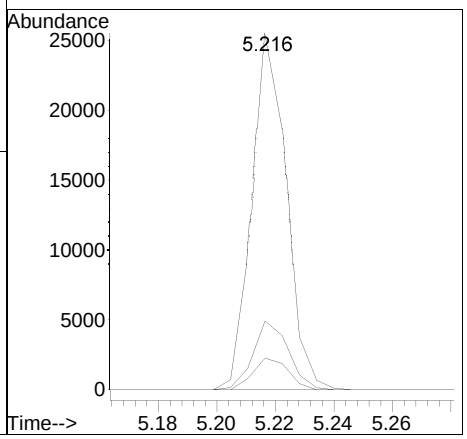


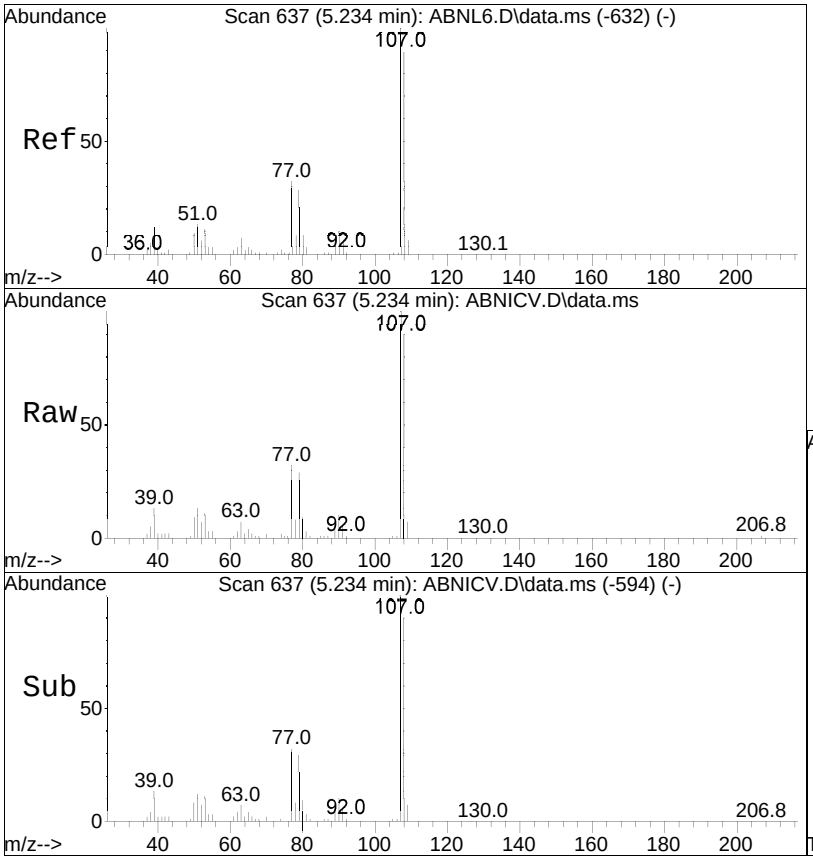


#17
n-Nitrosodi-n-propylamine
Concen: 4.68 ug/ml
RT: 5.216 min Scan# 634
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 70 Resp: 20852

Ion	Ratio	Lower	Upper
70	100		
130	19.7	16.2	24.4
101	9.1	7.6	11.4

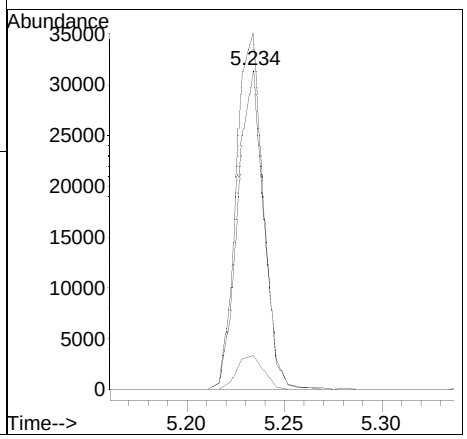


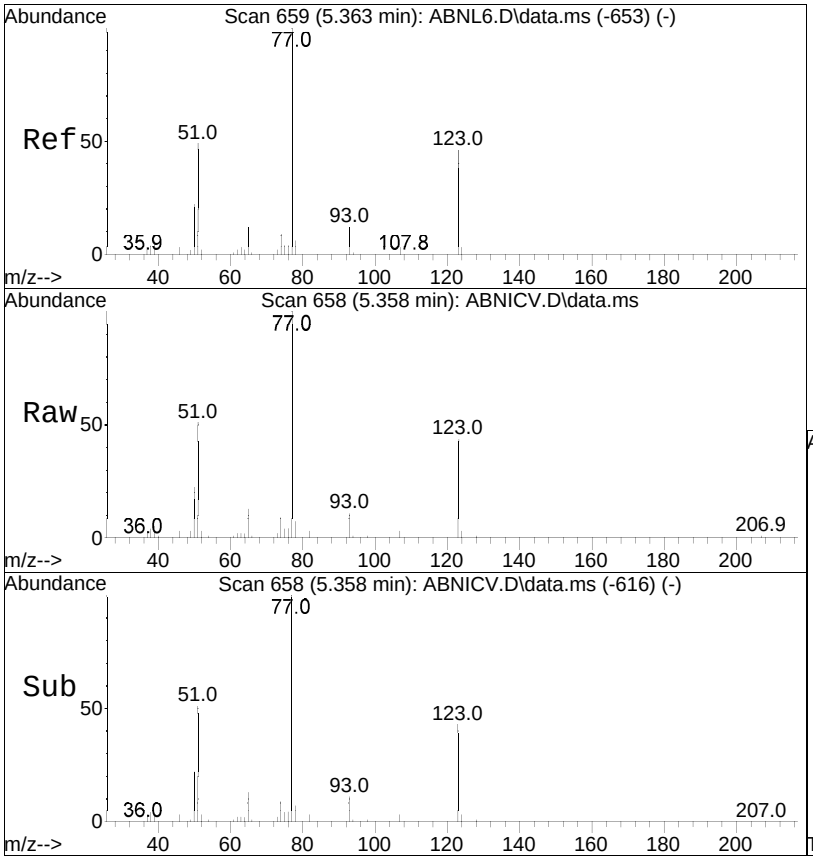


#18
3-Methylphenol/4-Methylphenol
Concen: 4.93 ug/ml
RT: 5.234 min Scan# 637
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:108 Resp: 29223

Ion	Ratio	Lower	Upper
108	100		
107	114.7	88.8	133.2
90	10.8	9.0	13.6

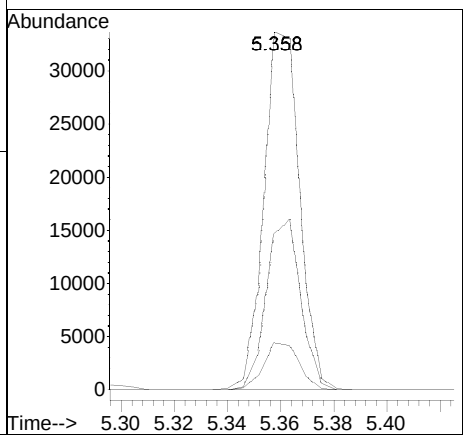


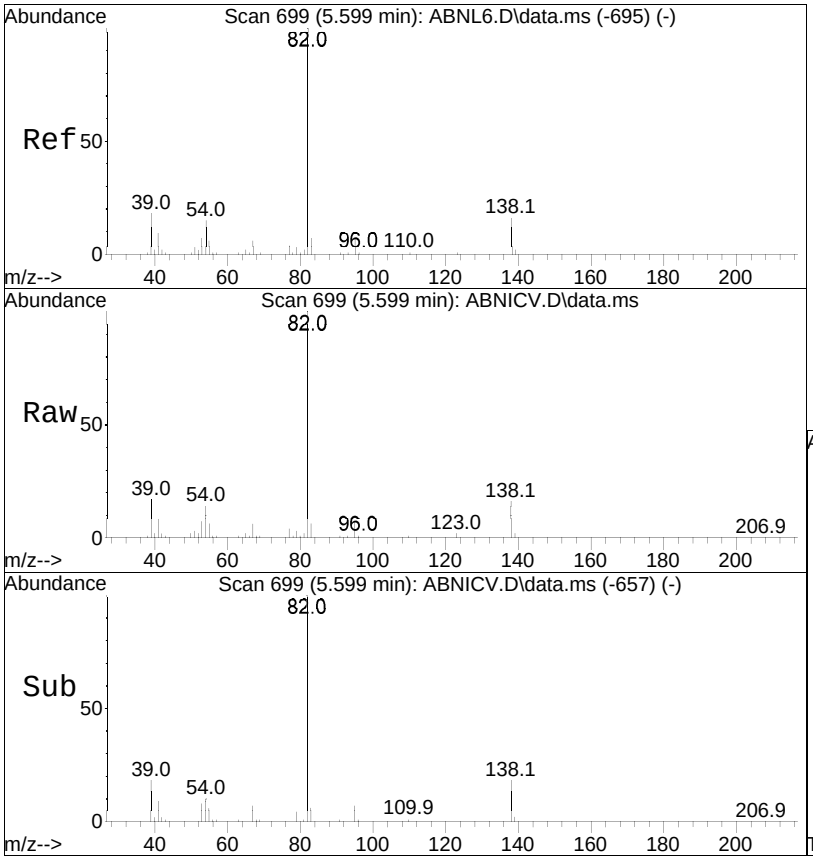


#20
Nitrobenzene
Concen: 4.69 ug/ml
RT: 5.358 min Scan# 658
Delta R.T. -0.005 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 77 Resp: 31148

Ion	Ratio	Lower	Upper
77	100		
123	46.0	37.3	55.9
65	13.3	10.9	16.3

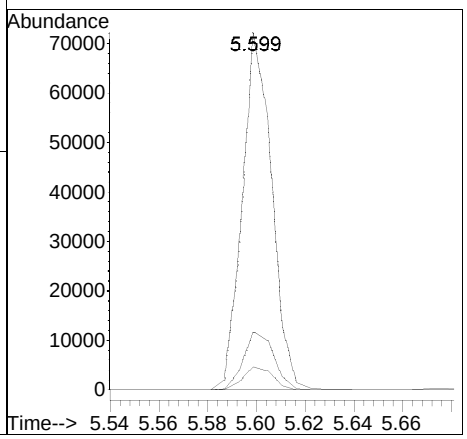


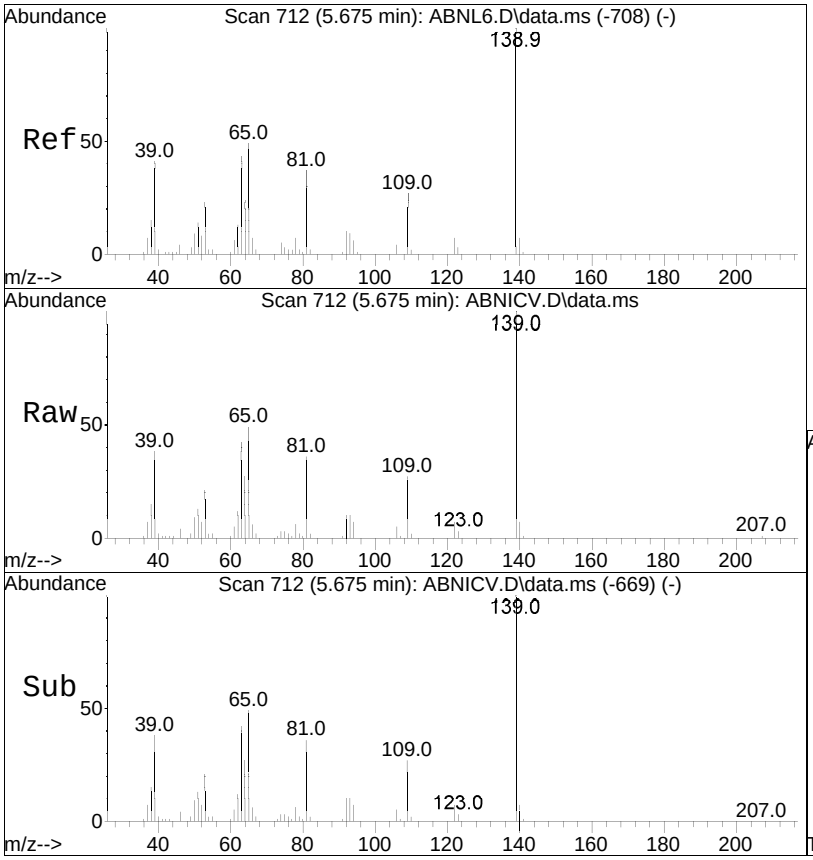


#21
Isophorone
Concen: 5.00 ug/ml
RT: 5.599 min Scan# 699
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 82 Resp: 59999

Ion	Ratio	Lower	Upper
82	100		
138	16.8	13.0	19.4
95	6.6	5.5	8.3

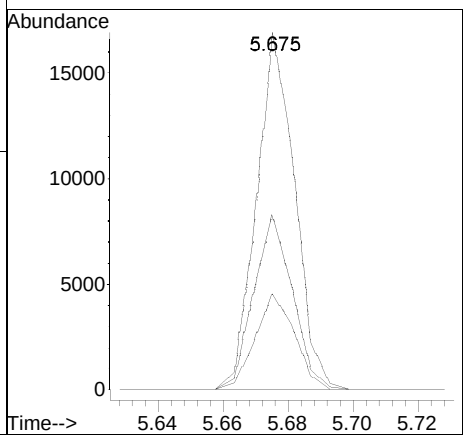


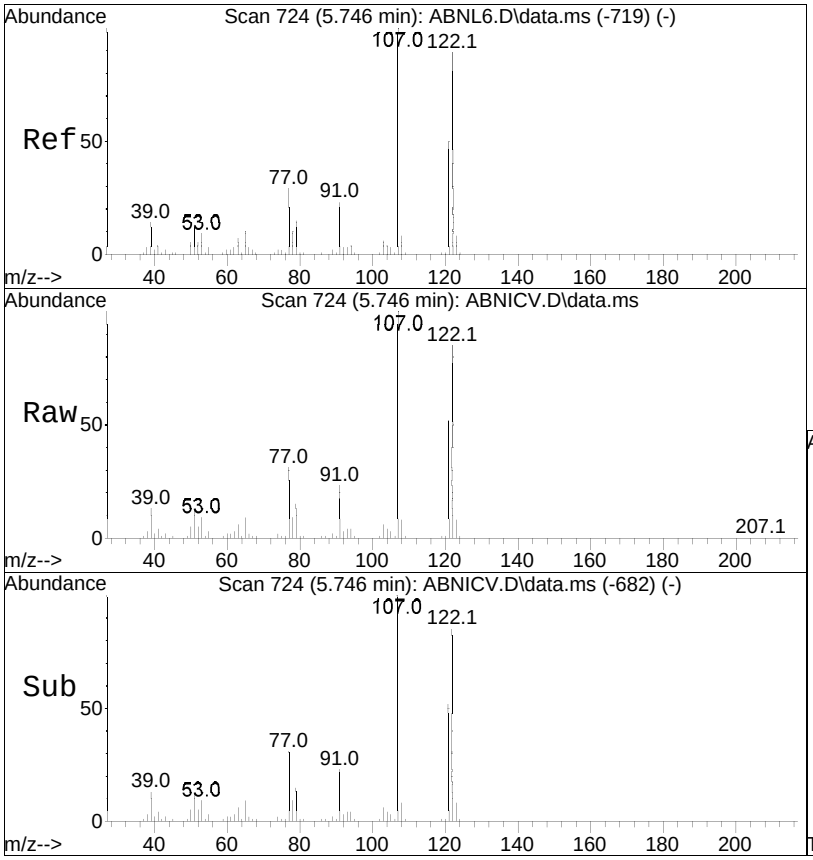


#22
2-Nitrophenol
Concen: 4.62 ug/ml
RT: 5.675 min Scan# 712
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:139 Resp: 13664

Ion	Ratio	Lower	Upper
139	100		
109	27.9	23.1	34.7
65	49.8	41.4	62.2

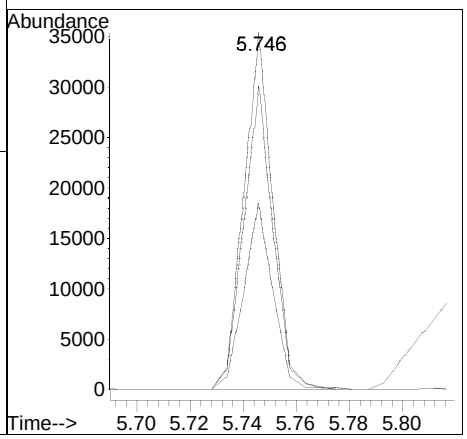


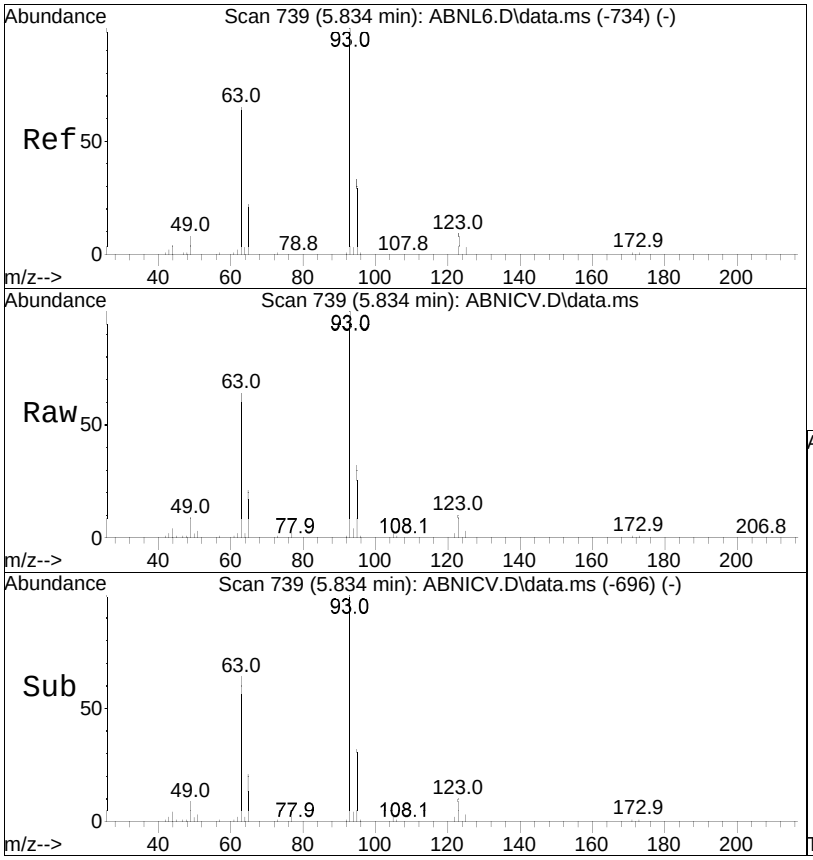


#23
2,4-Dimethylphenol
Concen: 4.72 ug/ml
RT: 5.746 min Scan# 724
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:107 Resp: 26791

Ion	Ratio	Lower	Upper
107	100		
121	52.0	41.3	61.9
122	85.8	69.3	103.9

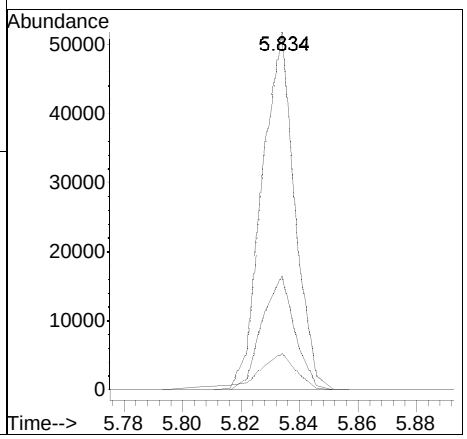


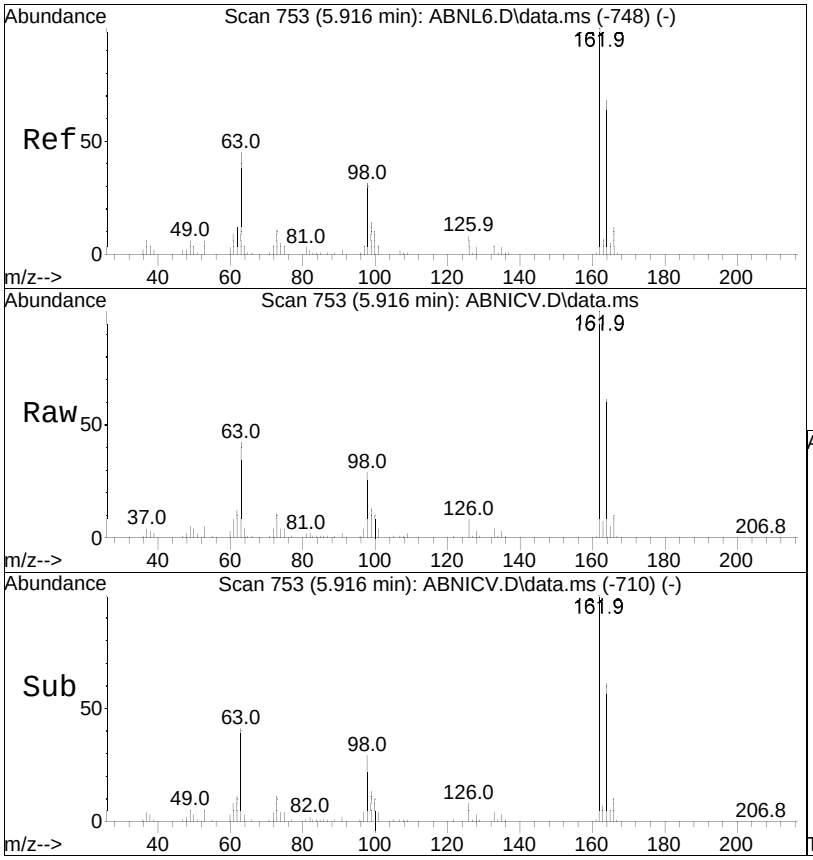


#24
Bis(2-chloroethoxy)methane
Concen: 4.93 ug/ml
RT: 5.834 min Scan# 739
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 93 Resp: 39785

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	12.7	9.6	14.4

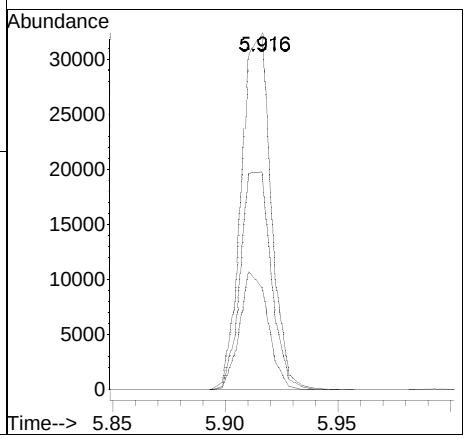


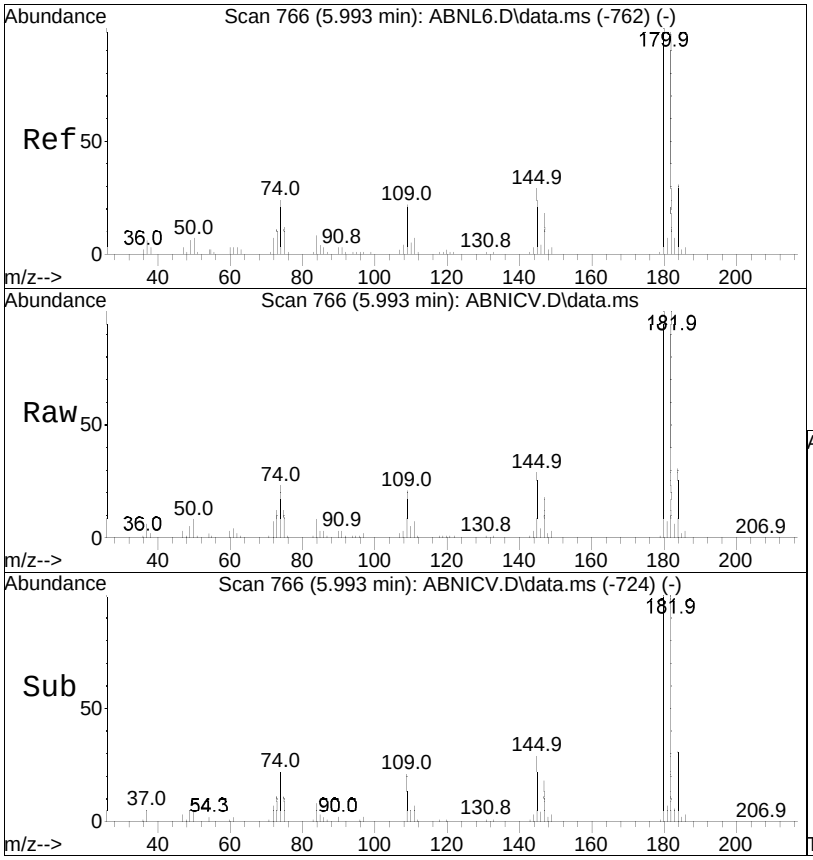


#25
2,4-Dichlorophenol
Concen: 4.99 ug/ml
RT: 5.916 min Scan# 753
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:162 Resp: 29599

Ion	Ratio	Lower	Upper
162	100		
164	62.8	51.1	76.7
98	31.7	32.2	48.2#

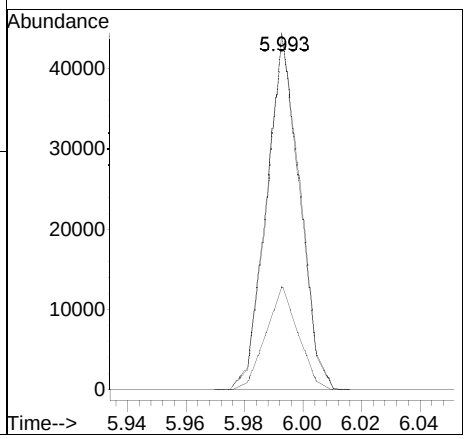


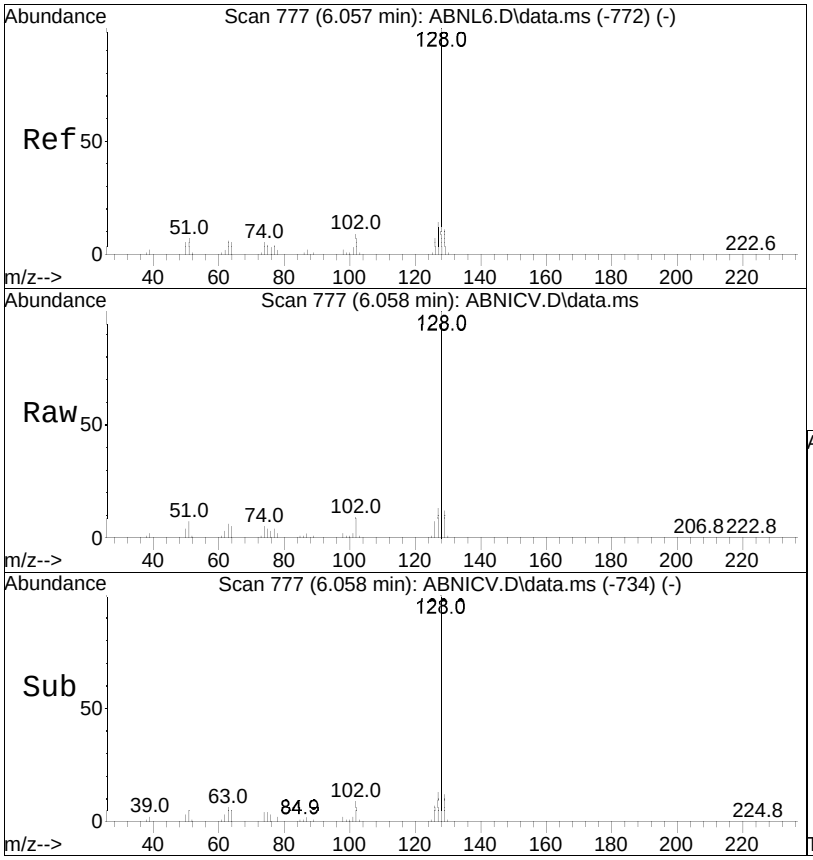


#26
1,2,4-Trichlorobenzene
Concen: 4.69 ug/ml
RT: 5.993 min Scan# 766
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:180 Resp: 35281

Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.8	113.8
145	28.1	26.3	39.5

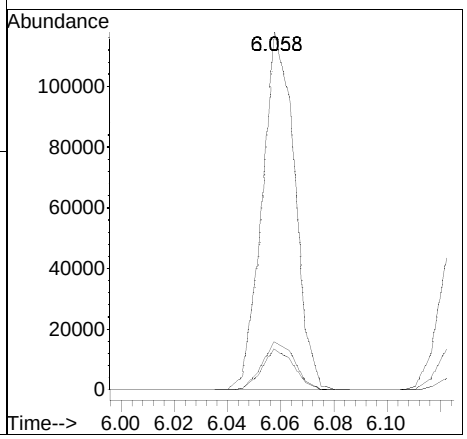


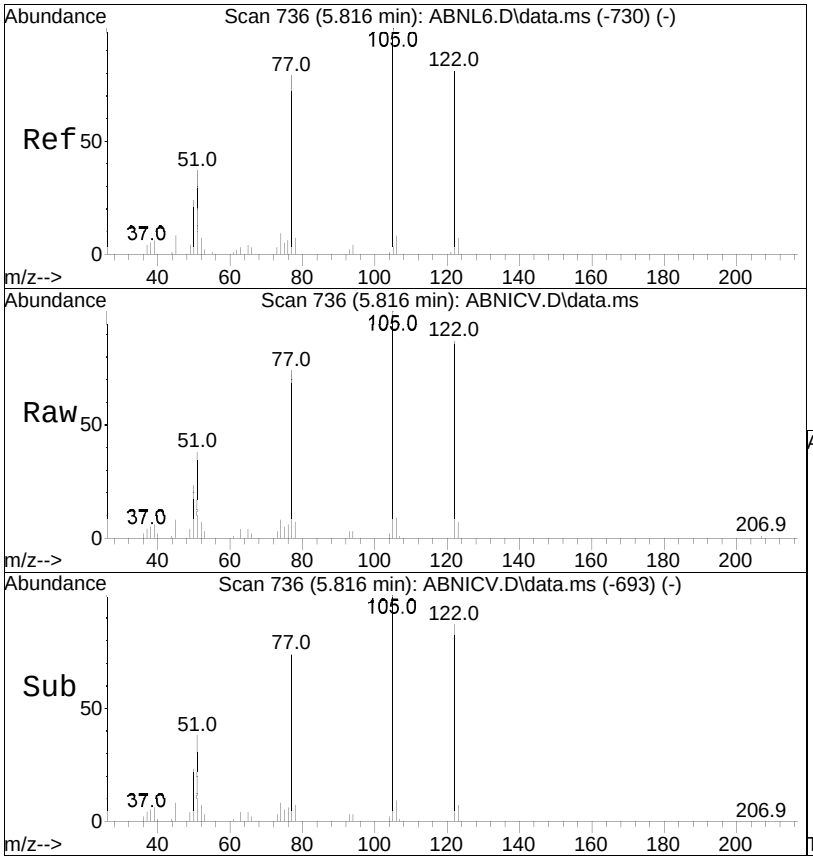


#36
Naphthalene
Concen: 4.72 ug/ml
RT: 6.058 min Scan# 777
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:128 Resp: 99432

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.6	10.6	15.8

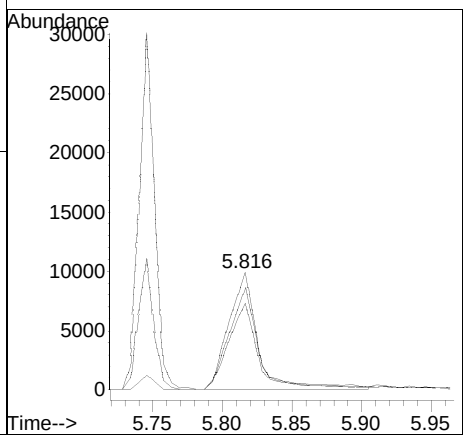


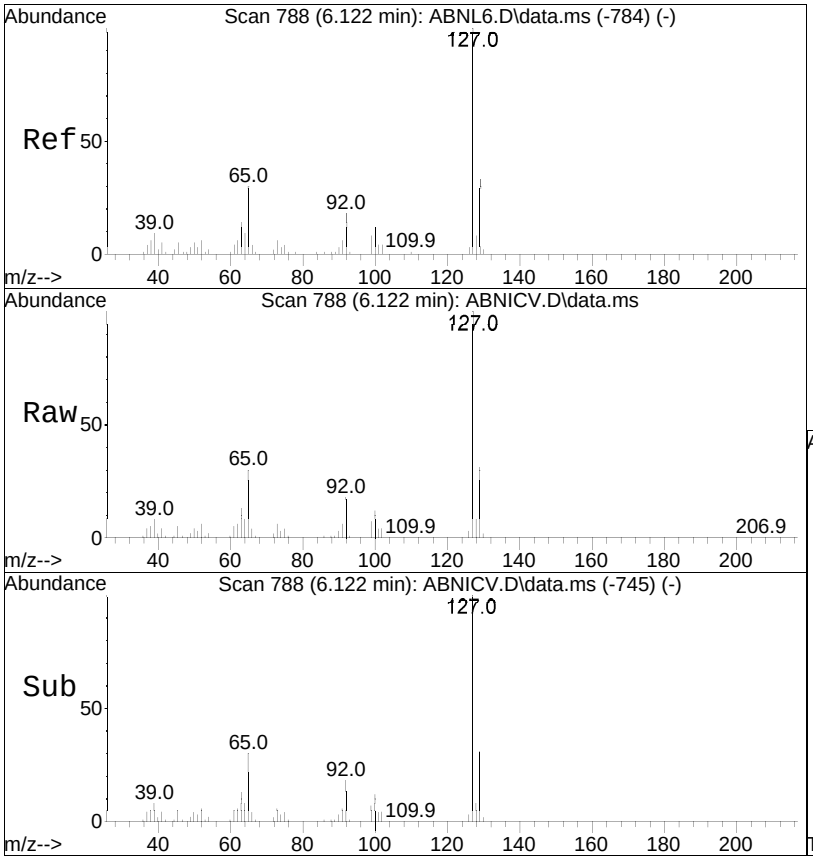


#37
Benzoic Acid
Concen: 4.28 ug/ml
RT: 5.816 min Scan# 736
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:105 Resp: 14641

Ion	Ratio	Lower	Upper
105	100		
122	86.0	62.6	93.8
77	74.5	59.1	88.7

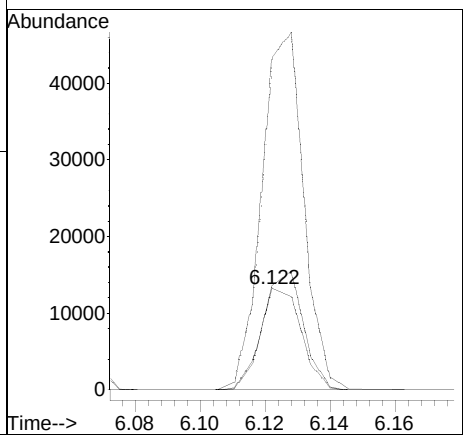


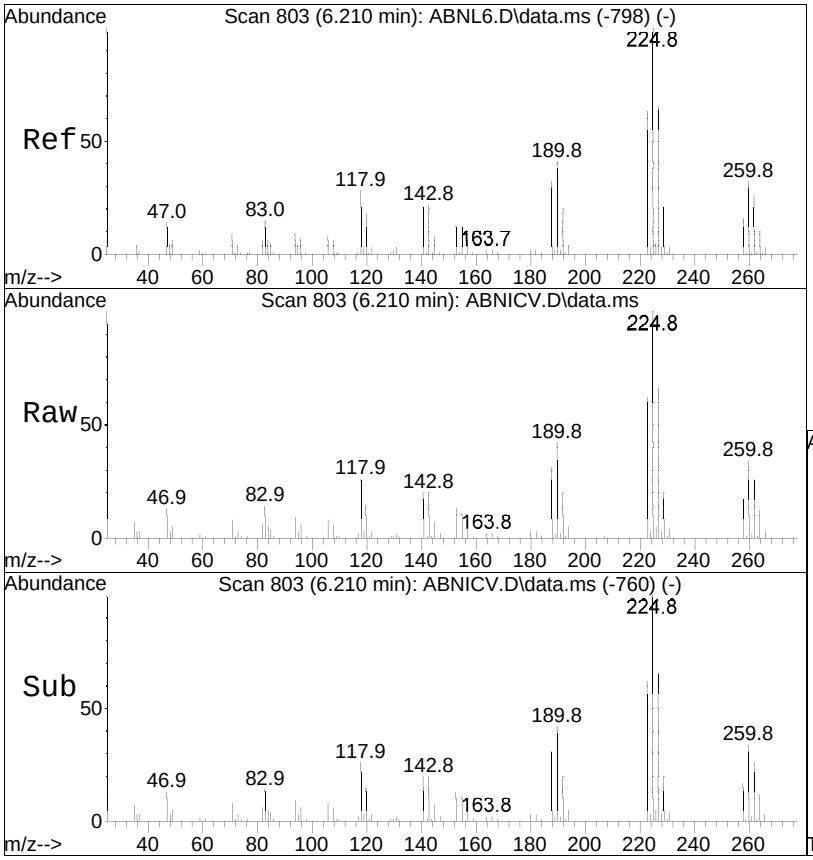


#38
4-Chloroaniline
Concen: 4.95 ug/ml
RT: 6.122 min Scan# 788
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 65 Resp: 11724

Ion	Ratio	Lower	Upper
65	100		
127	353.6	266.2	399.4
129	113.3	85.0	127.4

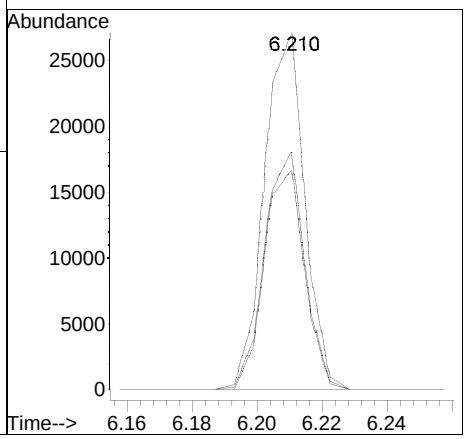


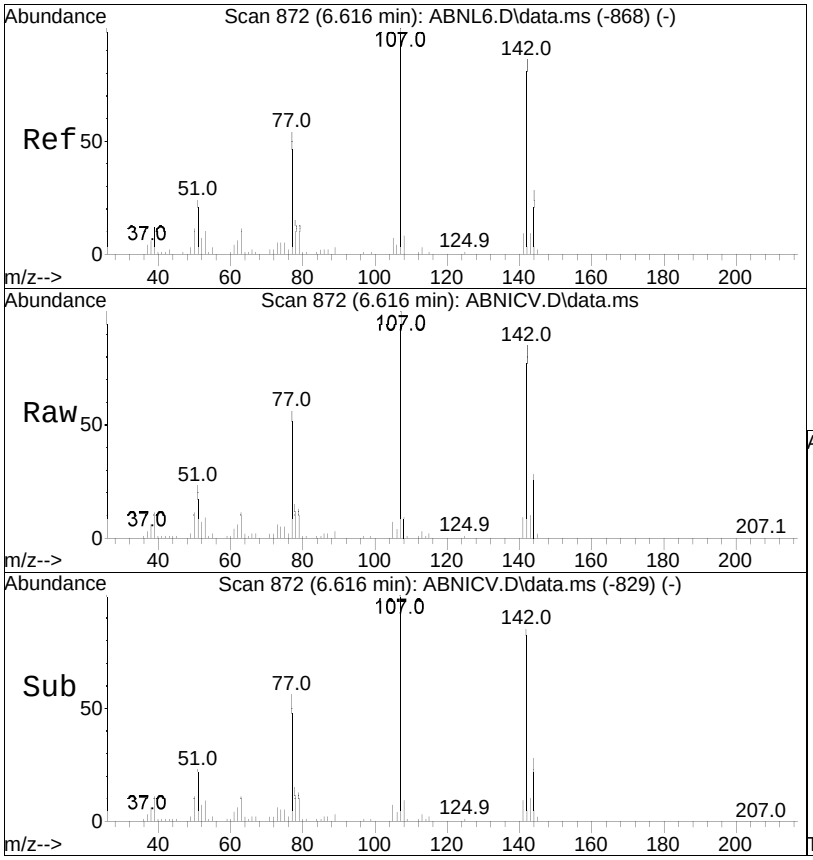


#39
Hexachlorobutadiene
Concen: 4.72 ug/ml
RT: 6.210 min Scan# 803
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:225 Resp: 23300

Ion	Ratio	Lower	Upper
225	100		
223	61.6	50.5	75.7
227	66.2	50.4	75.6

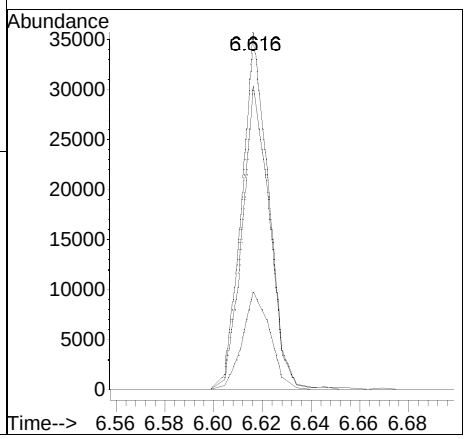


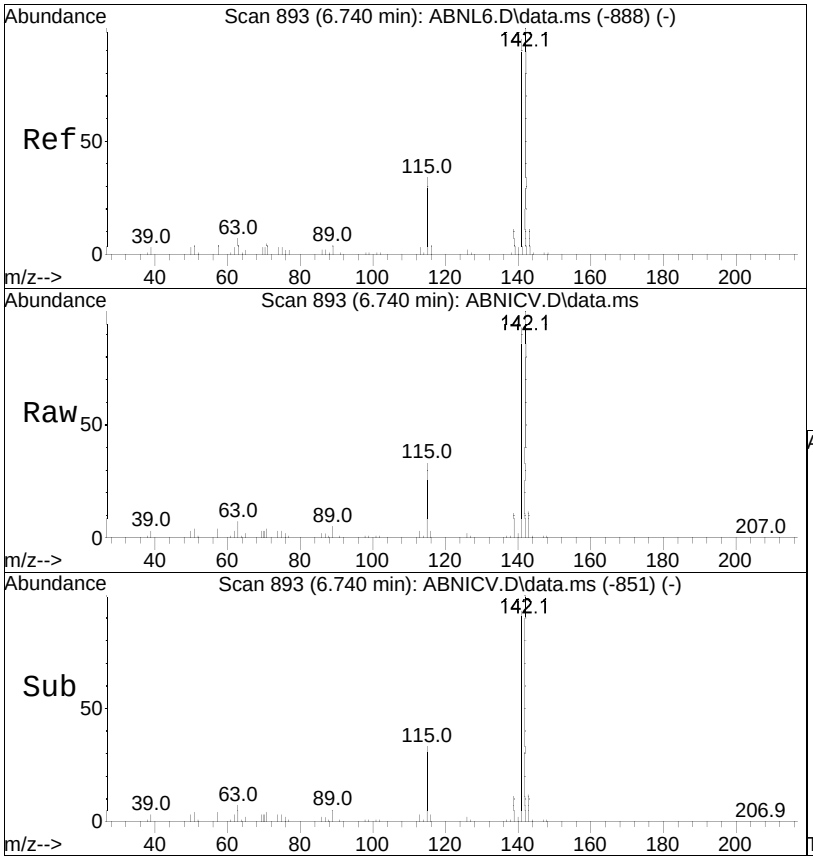


#40
p-Chloro-m-cresol
Concen: 4.89 ug/ml
RT: 6.616 min Scan# 872
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:107 Resp: 27216

Ion	Ratio	Lower	Upper
107	100		
144	28.2	20.3	30.5
142	85.9	63.8	95.6

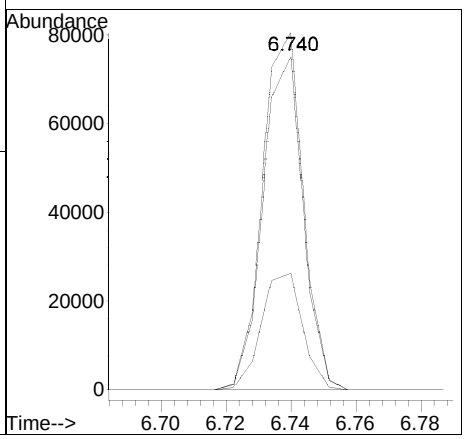


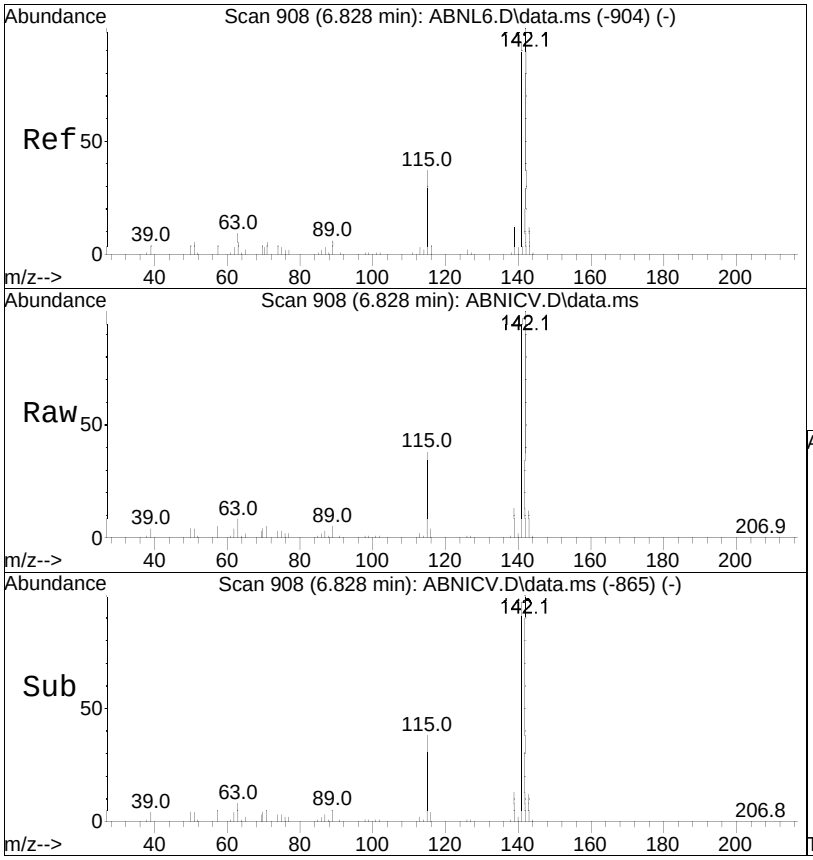


#41
2-Methylnaphthalene
Concen: 4.88 ug/ml
RT: 6.740 min Scan# 893
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:142 Resp: 69923

Ion	Ratio	Lower	Upper
142	100		
141	91.9	72.2	108.4
115	33.2	27.8	41.6

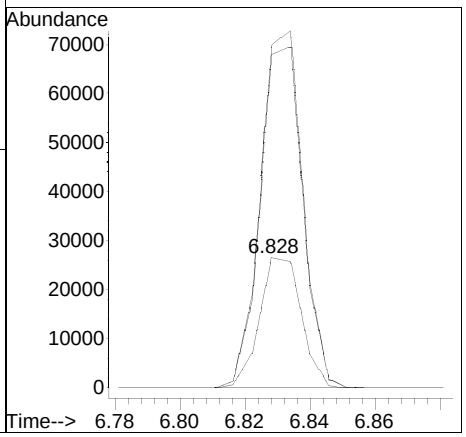


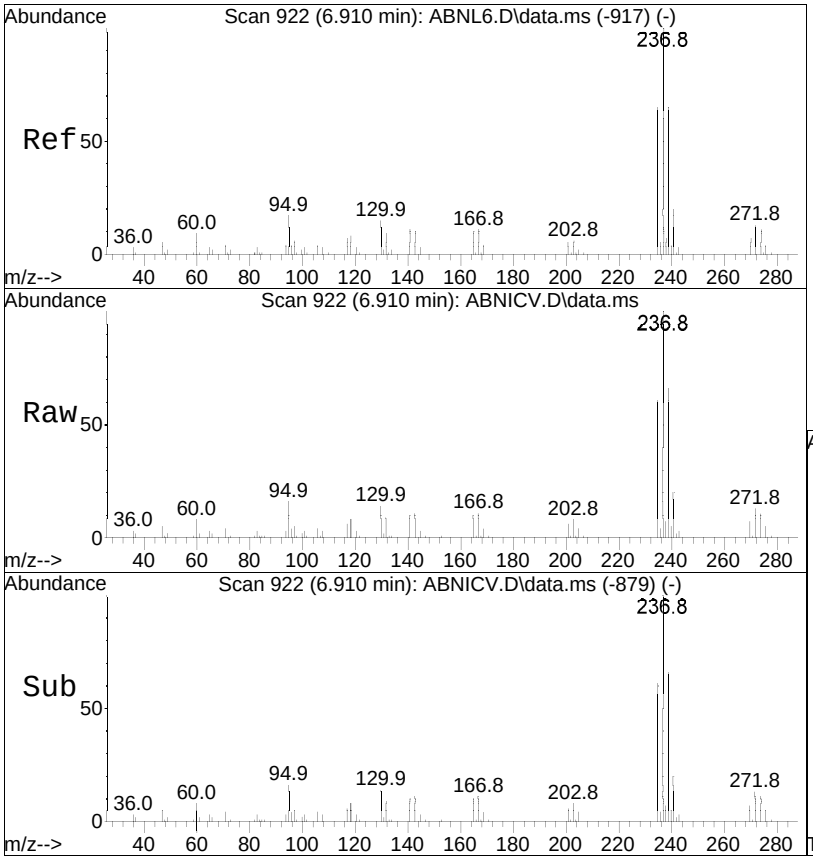


#42
1-Methylnaphthalene
Concen: 4.84 ug/ml
RT: 6.828 min Scan# 908
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:115 Resp: 23877

Ion	Ratio	Lower	Upper
115	100		
141	264.8	205.4	308.2
142	275.6	220.2	330.4

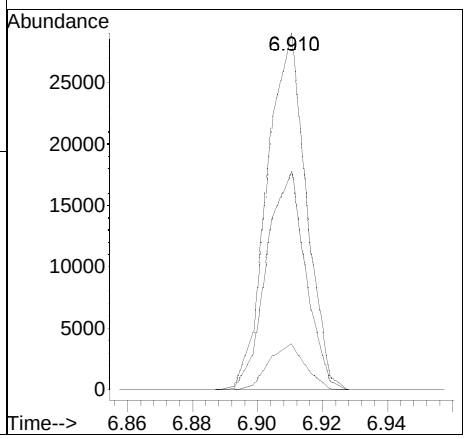


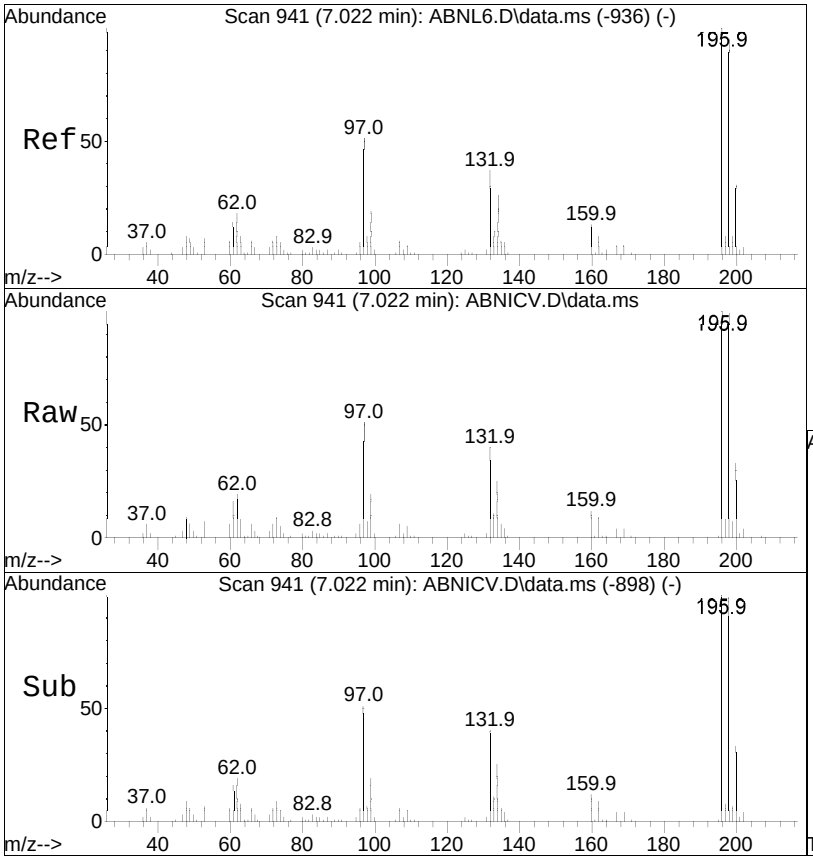


#43
Hexachlorocyclopentadiene
Concen: 4.80 ug/ml
RT: 6.910 min Scan# 922
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:237 Resp: 24201

Ion	Ratio	Lower	Upper
237	100		
235	61.5	50.9	76.3
272	12.2	10.1	15.1

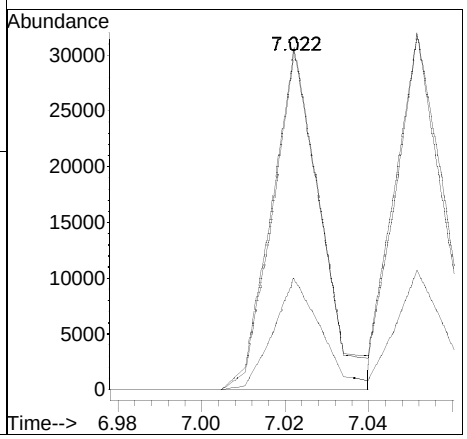


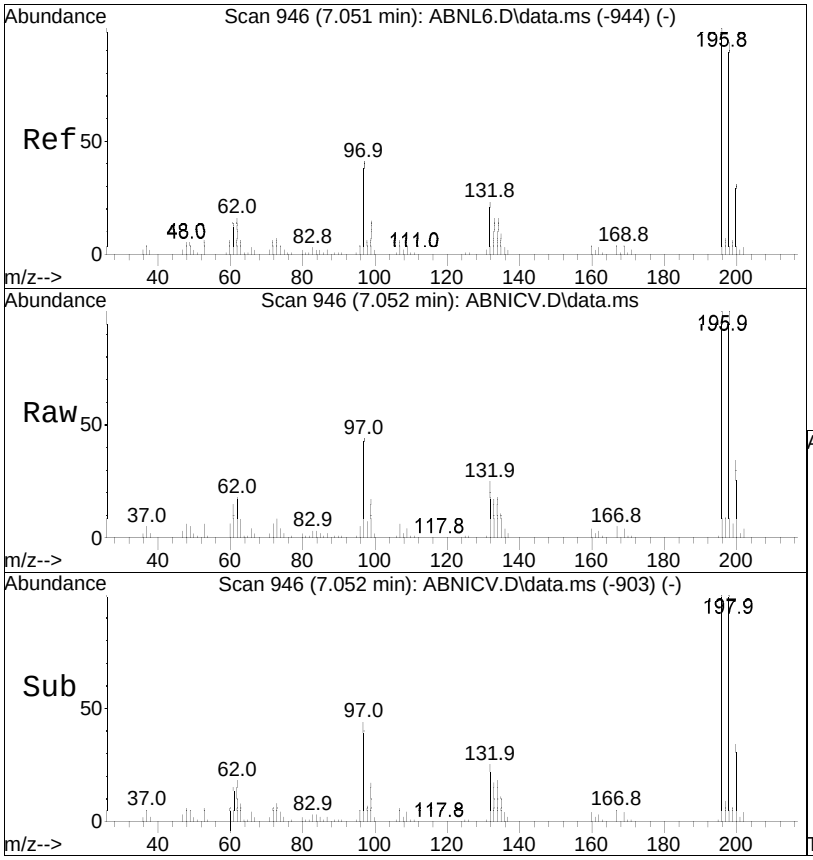


#44
2,4,6-Trichlorophenol
Concen: 4.89 ug/ml
RT: 7.022 min Scan# 941
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:196 Resp: 25194

Ion	Ratio	Lower	Upper
196	100		
198	96.3	76.4	114.6
200	31.9	24.4	36.6

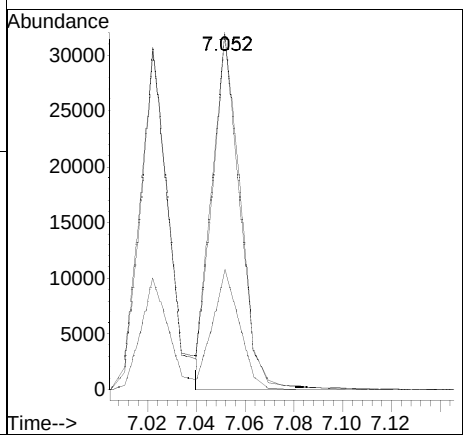


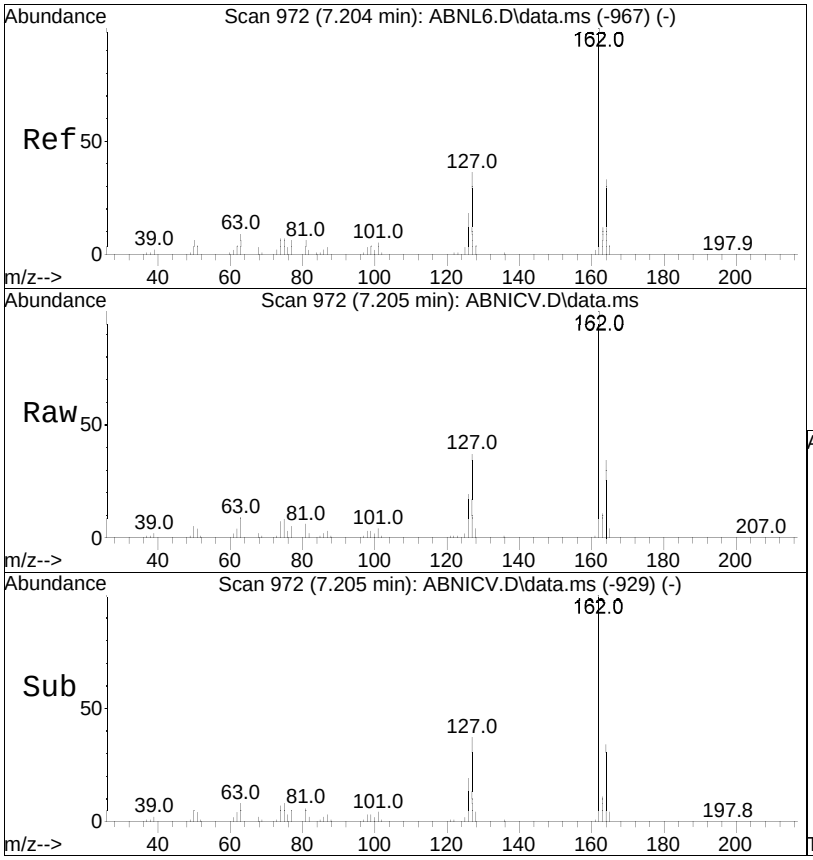


#45
2,4,5-Trichlorophenol
Concen: 4.93 ug/ml
RT: 7.052 min Scan# 946
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:196 Resp: 25978

Ion	Ratio	Lower	Upper
196	100		
200	31.6	24.2	36.4
198	96.3	76.2	114.2

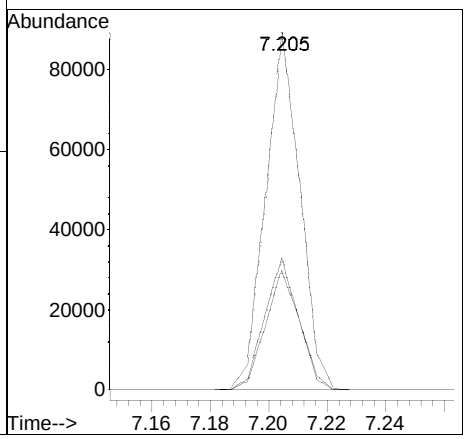


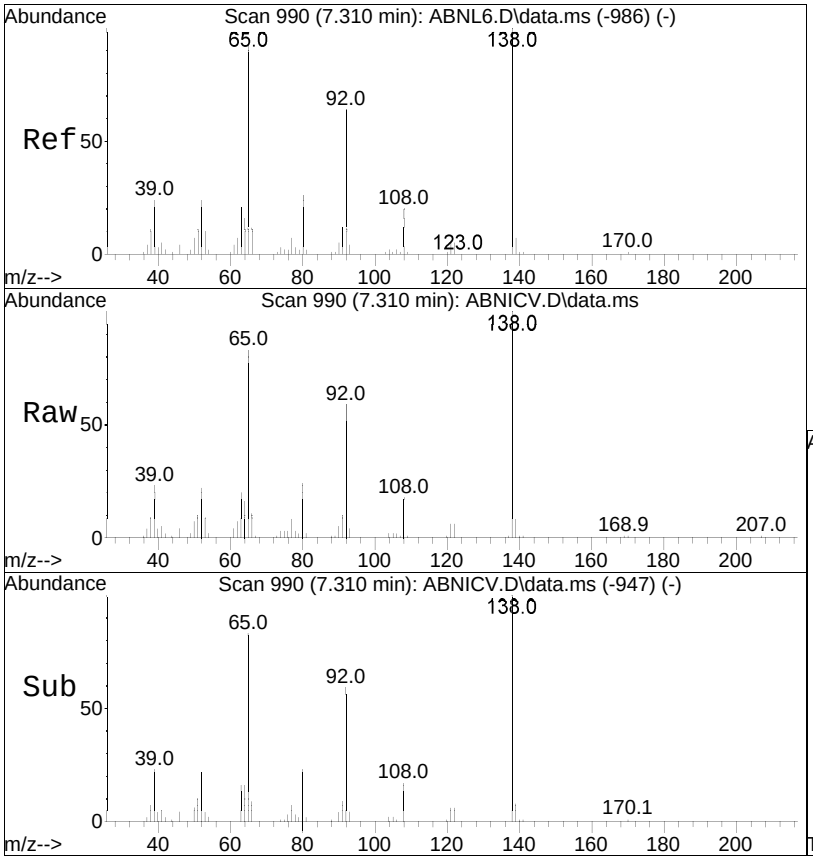


#47
2-Chloronaphthalene
Concen: 4.71 ug/ml
RT: 7.205 min Scan# 972
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:162 Resp: 71799

Ion	Ratio	Lower	Upper
162	100		
127	36.5	33.8	50.6
164	33.9	25.8	38.6

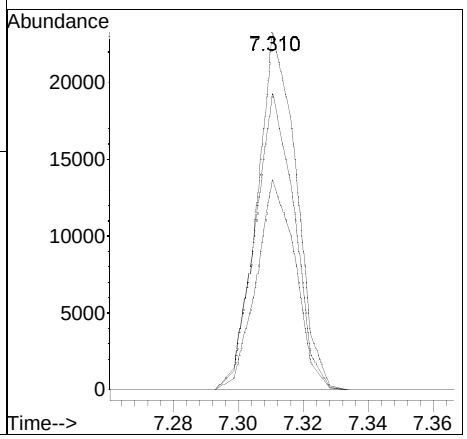


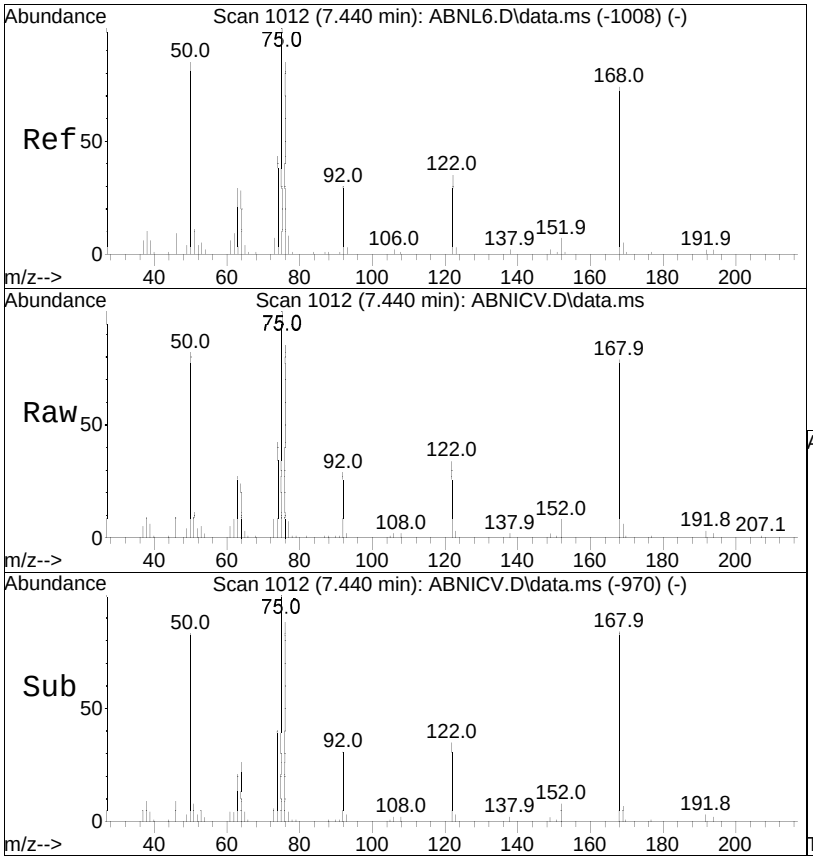


#48
2-Nitroaniline
Concen: 4.79 ug/ml
RT: 7.310 min Scan# 990
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:138 Resp: 19285

Ion	Ratio	Lower	Upper
138	100		
92	58.5	52.1	78.1
65	83.2	75.9	113.9

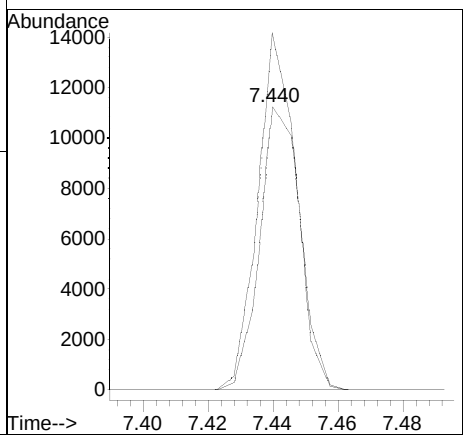


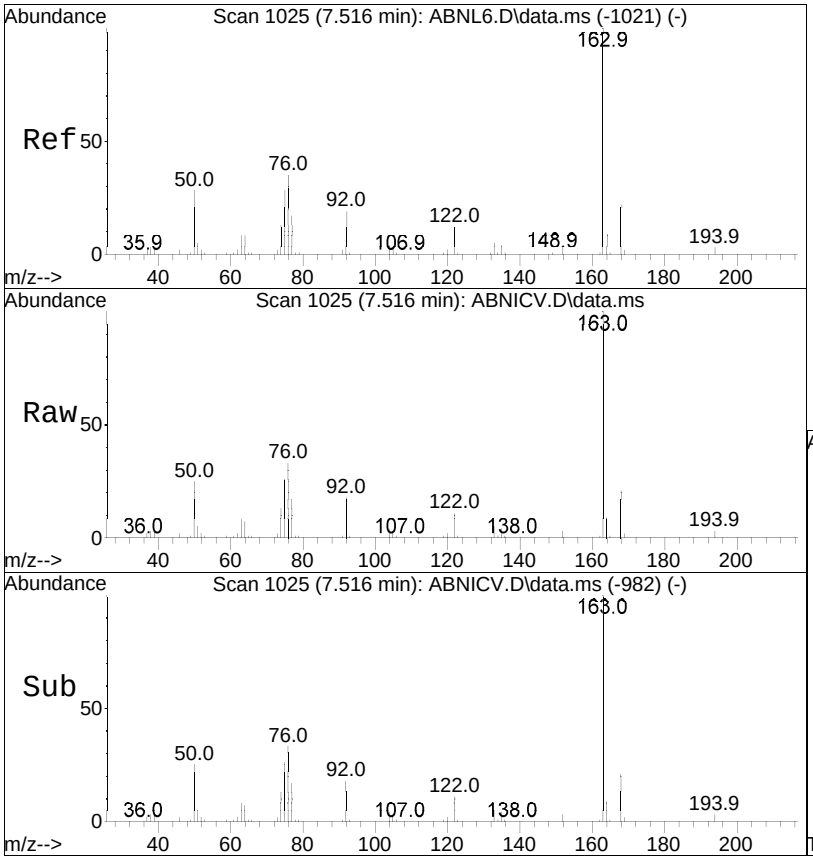


#49
1,4-Dinitrobenzene
Concen: 4.95 ug/ml
RT: 7.440 min Scan# 1012
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:168 Resp: 9774

Ion	Ratio	Lower	Upper
168	100		
75	118.0	111.0	166.4

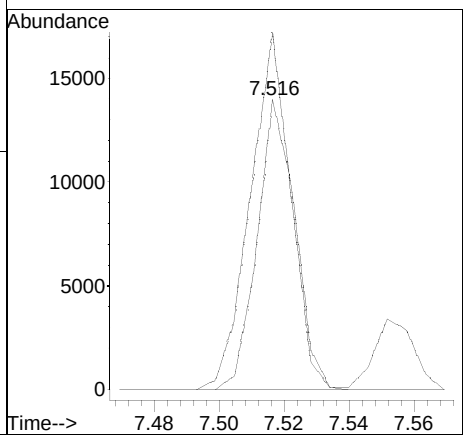


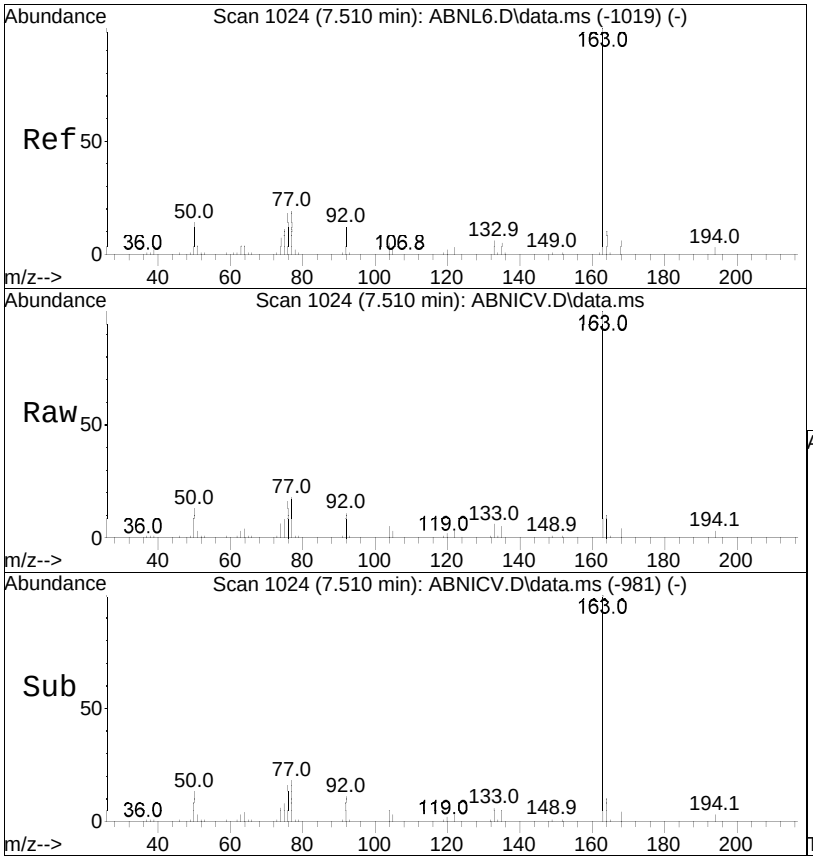


#50
1,3-Dinitrobenzene
Concen: 4.88 ug/ml
RT: 7.516 min Scan# 1025
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:168 Resp: 11190

Ion	Ratio	Lower	Upper
168	100		
75	131.7	116.4	174.6

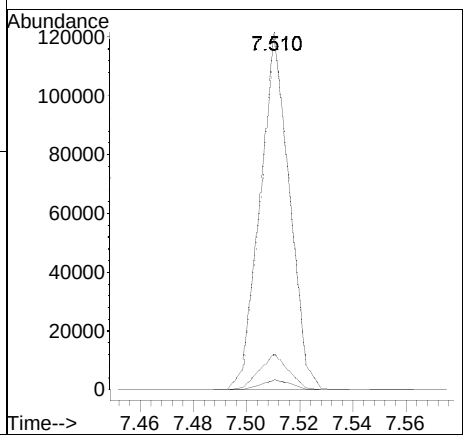


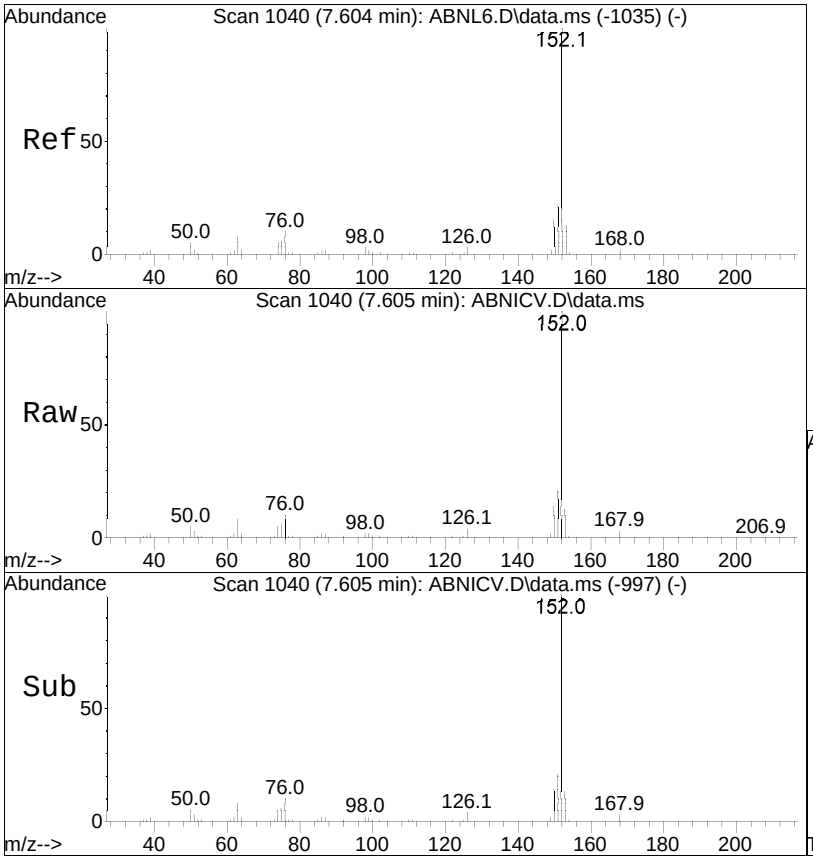


#51
Dimethyl phthalate
Concen: 4.95 ug/ml
RT: 7.510 min Scan# 1024
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:163 Resp: 91883

Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.3	3.5
164	10.0	8.2	12.2

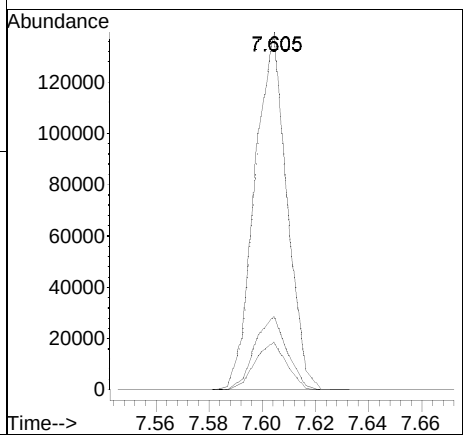


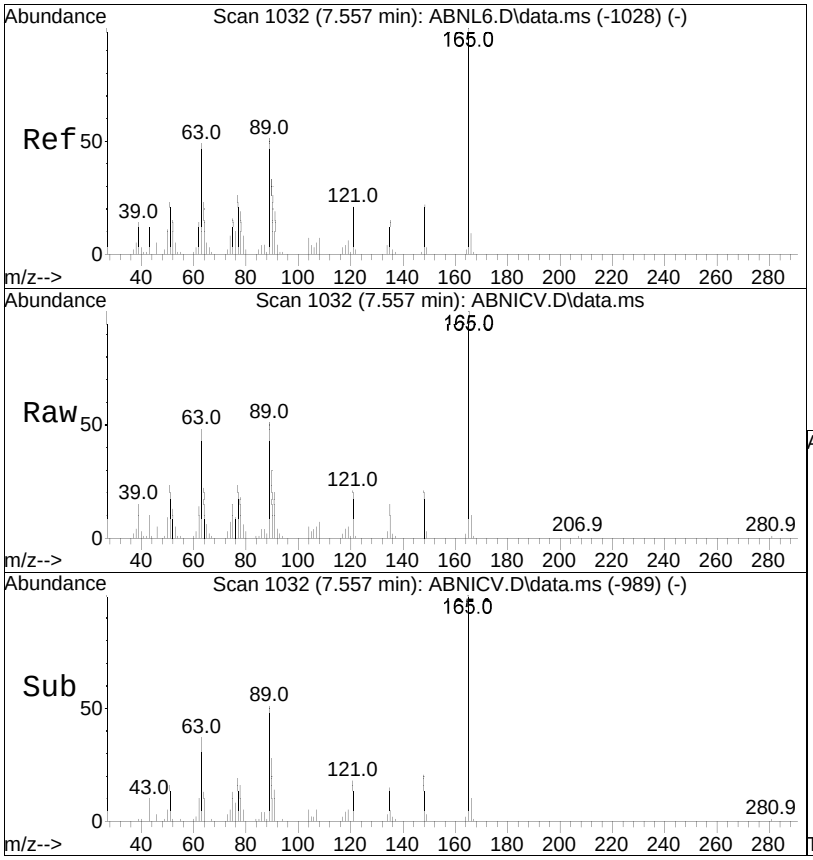


#52
Acenaphthylene
Concen: 5.14 ug/ml
RT: 7.605 min Scan# 1040
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:152 Resp: 115716

Ion	Ratio	Lower	Upper
152	100		
151	20.9	15.9	23.9
153	13.4	10.5	15.7

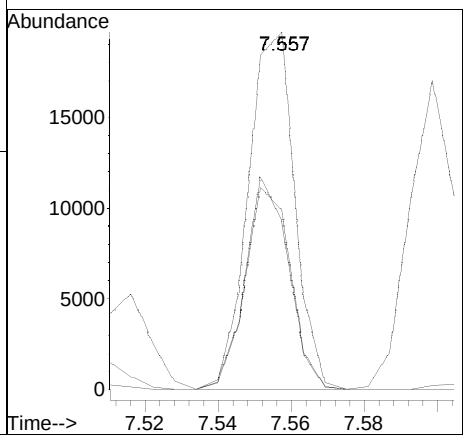


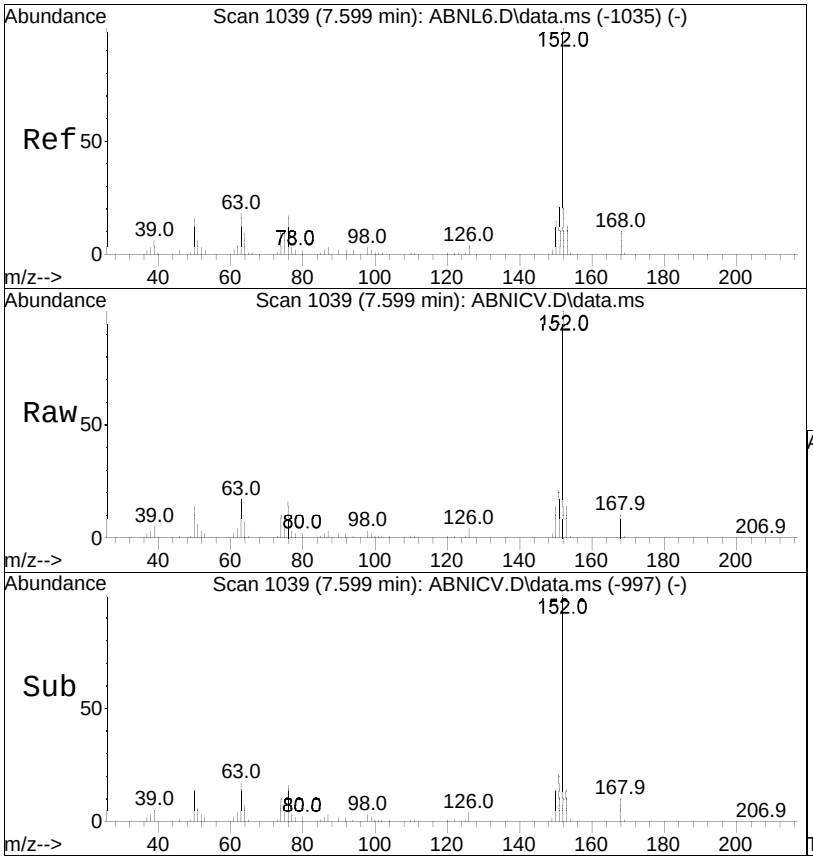


#53
2,6-Dinitrotoluene
Concen: 5.01 ug/ml
RT: 7.557 min Scan# 1032
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:165 Resp: 17365

Ion	Ratio	Lower	Upper
165	100		
89	55.6	48.8	73.2
63	55.8	50.5	75.7

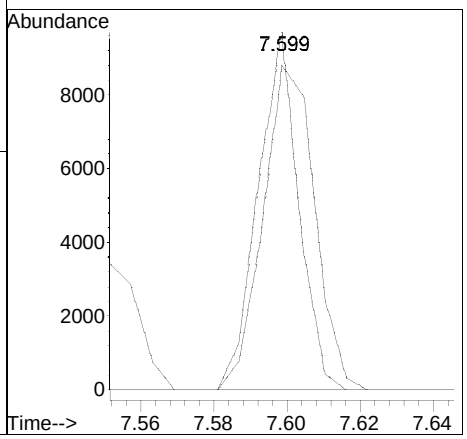


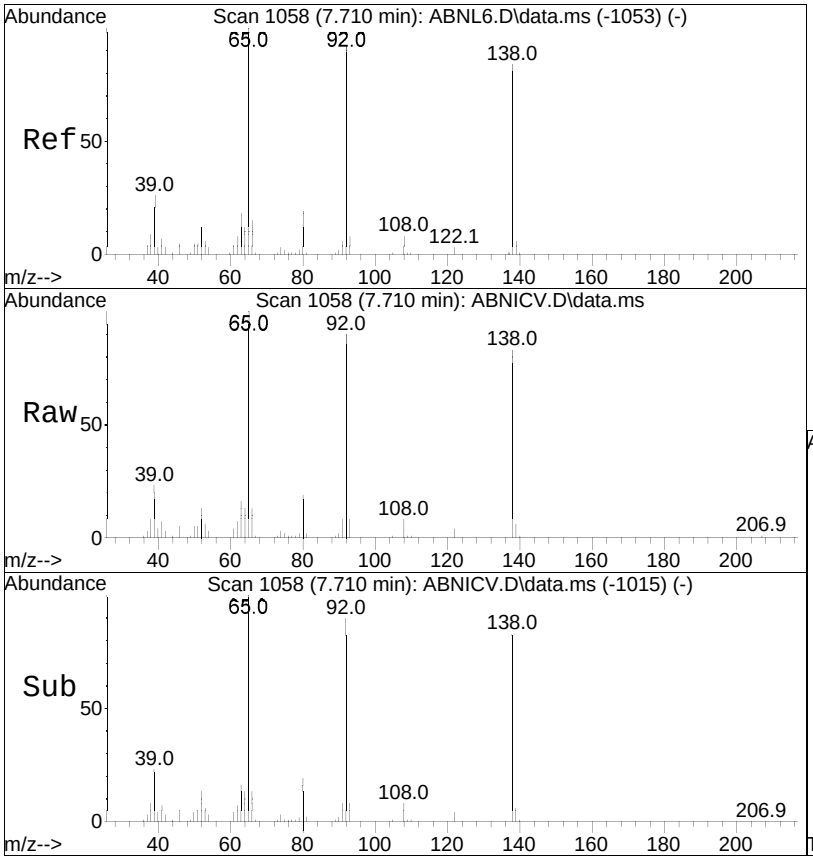


#54
1,2-Dinitrobenzene
Concen: 4.87 ug/ml
RT: 7.599 min Scan# 1039
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:168 Resp: 7435

Ion	Ratio	Lower	Upper
168	100		
75	115.4	32.2	48.2#

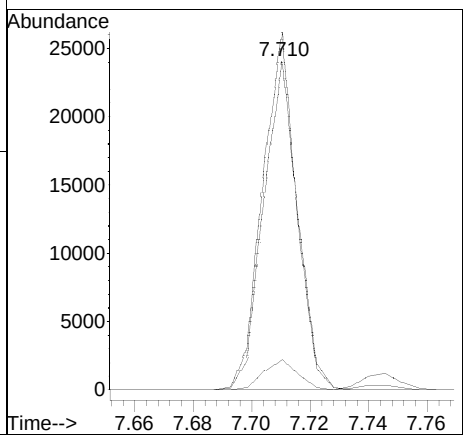


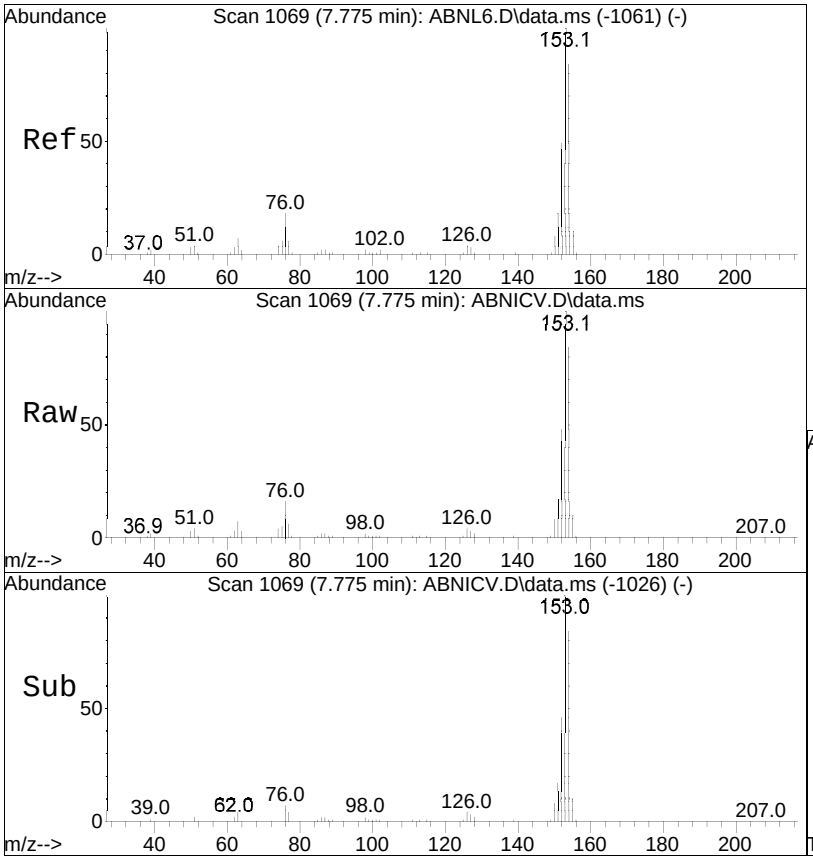


#64
3-Nitroaniline
Concen: 4.92 ug/ml
RT: 7.710 min Scan# 1058
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:138 Resp: 19395

Ion	Ratio	Lower	Upper
138	100		
92	107.4	92.8	139.2
108	9.2	7.9	11.9

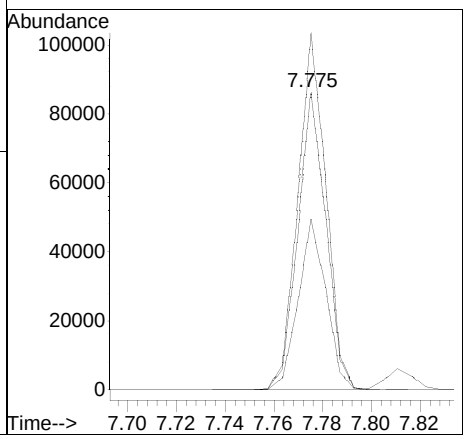


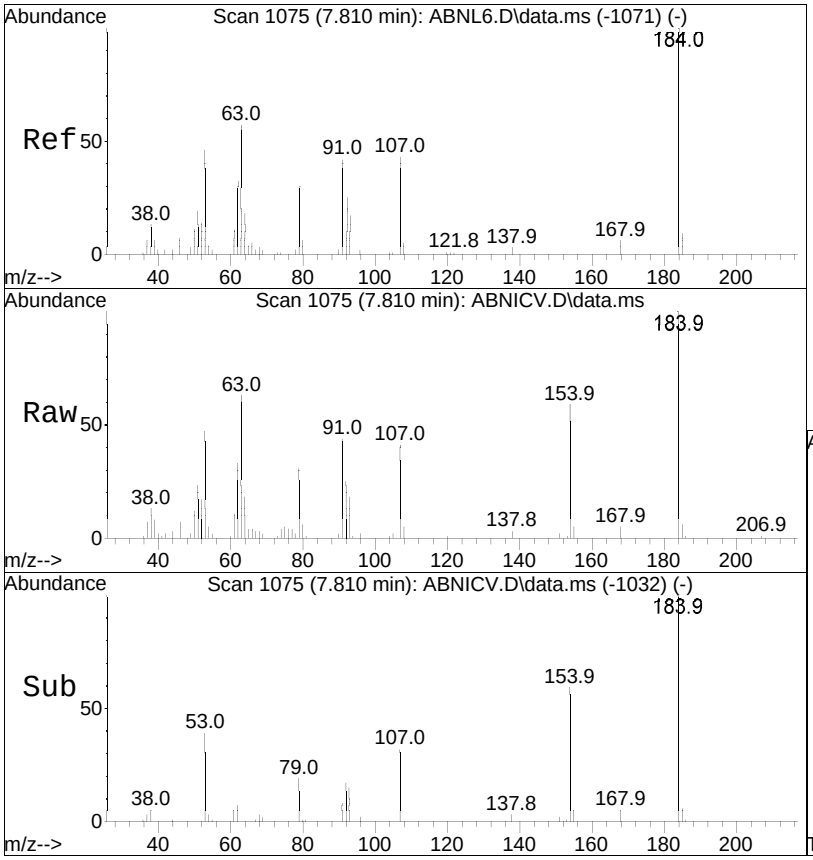


#65
Acenaphthene
Concen: 4.70 ug/ml
RT: 7.775 min Scan# 1069
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:154 Resp: 69117

Ion	Ratio	Lower	Upper
154	100		
153	119.3	93.0	139.4
152	56.9	43.3	64.9

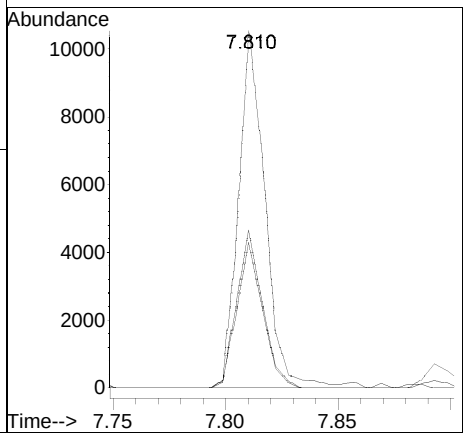


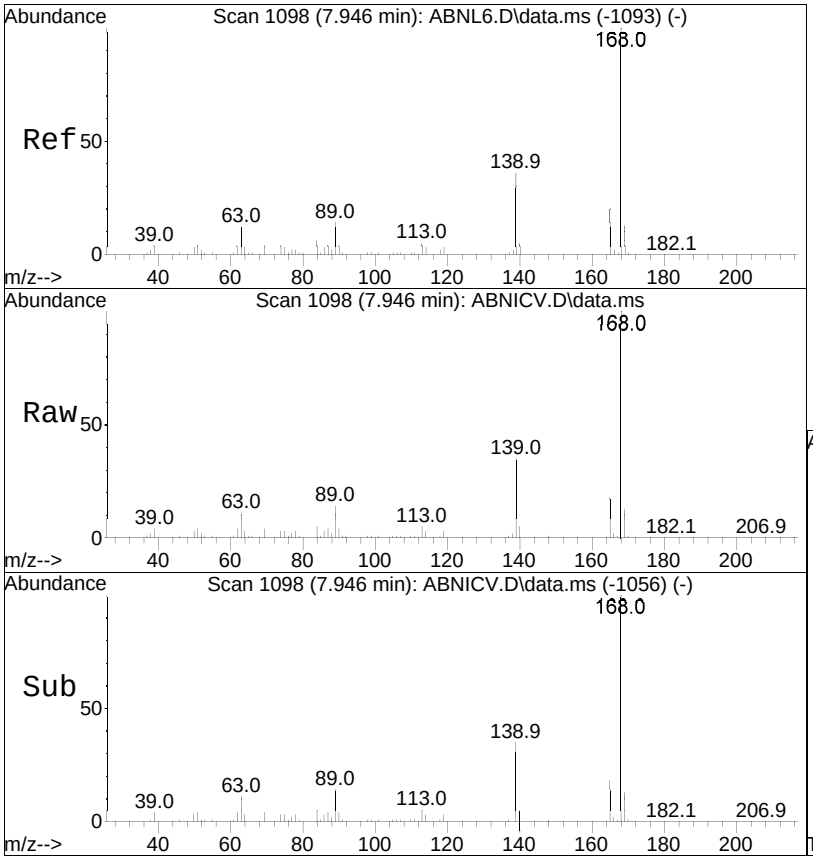


#66
2,4-Dinitrophenol
Concen: 4.10 ug/ml
RT: 7.810 min Scan# 1075
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:184 Resp: 8557

Ion	Ratio	Lower	Upper
184	100		
107	39.8	41.8	62.6#
91	43.2	44.2	66.2#

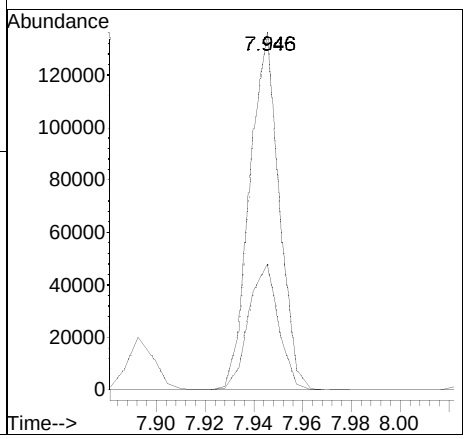


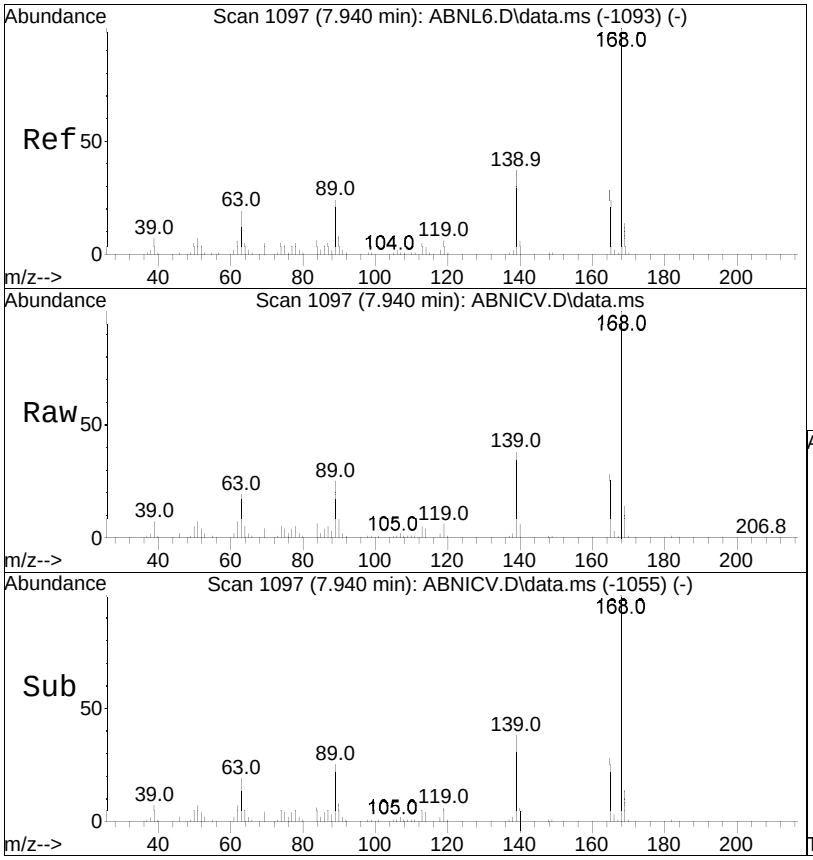


#67
Dibenzofuran
Concen: 4.68 ug/ml
RT: 7.946 min Scan# 1098
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:168 Resp: 113504

Ion	Ratio	Lower	Upper
168	100		
139	35.9	32.3	48.5

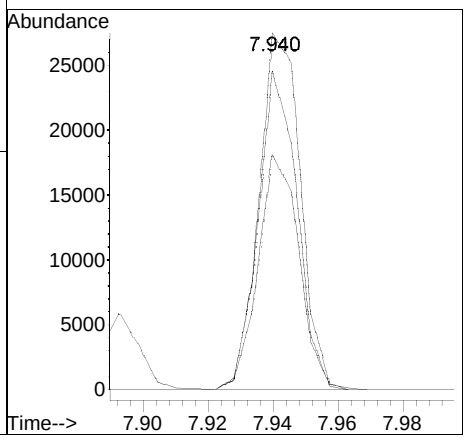


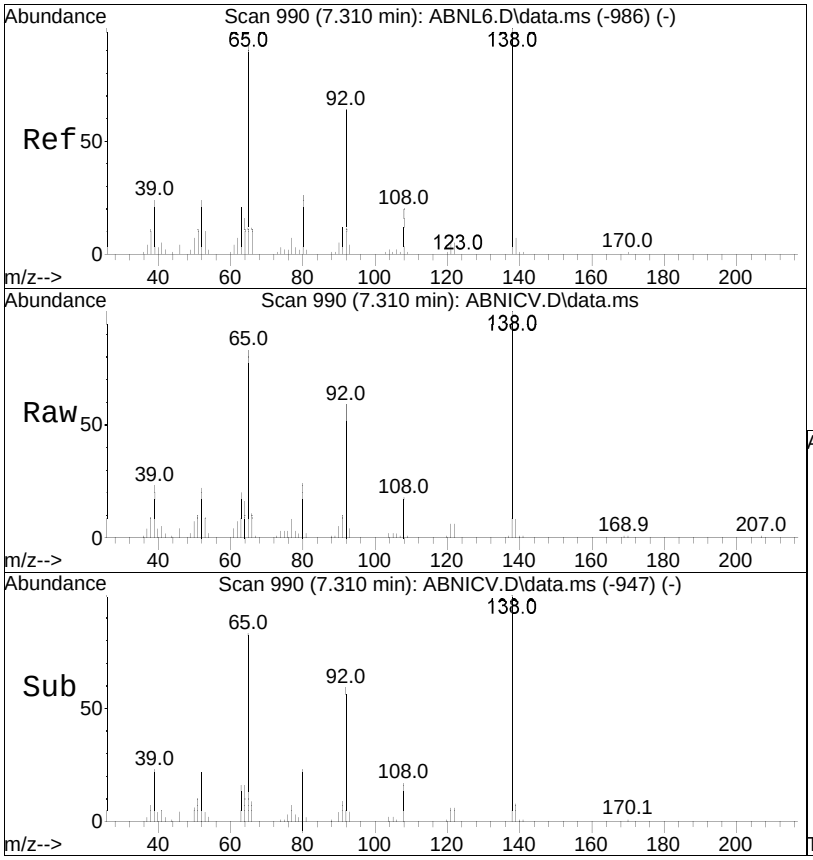


#68
2,4-Dinitrotoluene
Concen: 4.78 ug/ml
RT: 7.940 min Scan# 1097
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:165 Resp: 24166

Ion	Ratio	Lower	Upper
165	100		
89	83.8	73.0	109.4
63	65.2	56.3	84.5

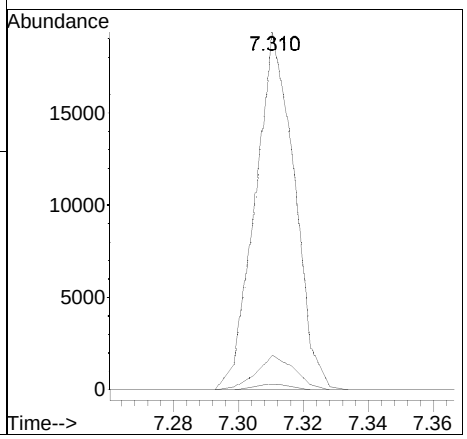


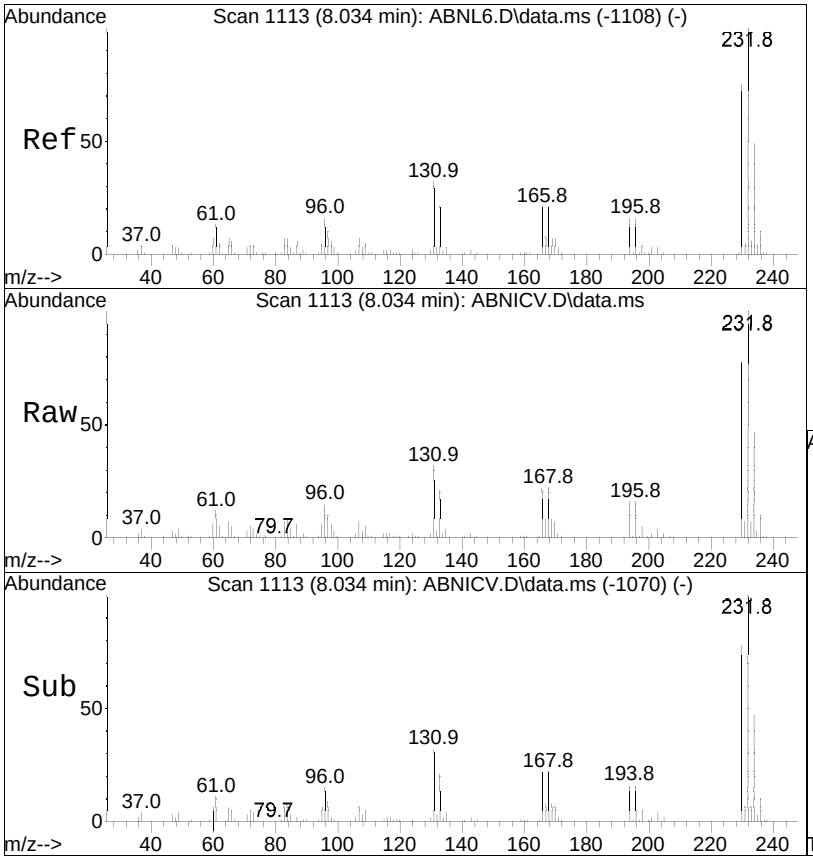


#69
4-Nitrophenol
Concen: 4.20 ug/ml
RT: 7.310 min Scan# 990
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 65 Resp: 16049

Ion	Ratio	Lower	Upper
65	100		
109	0.0	60.2	90.2#
139	9.5	81.1	121.7#

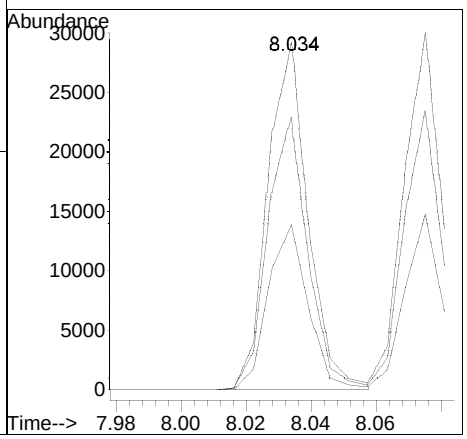


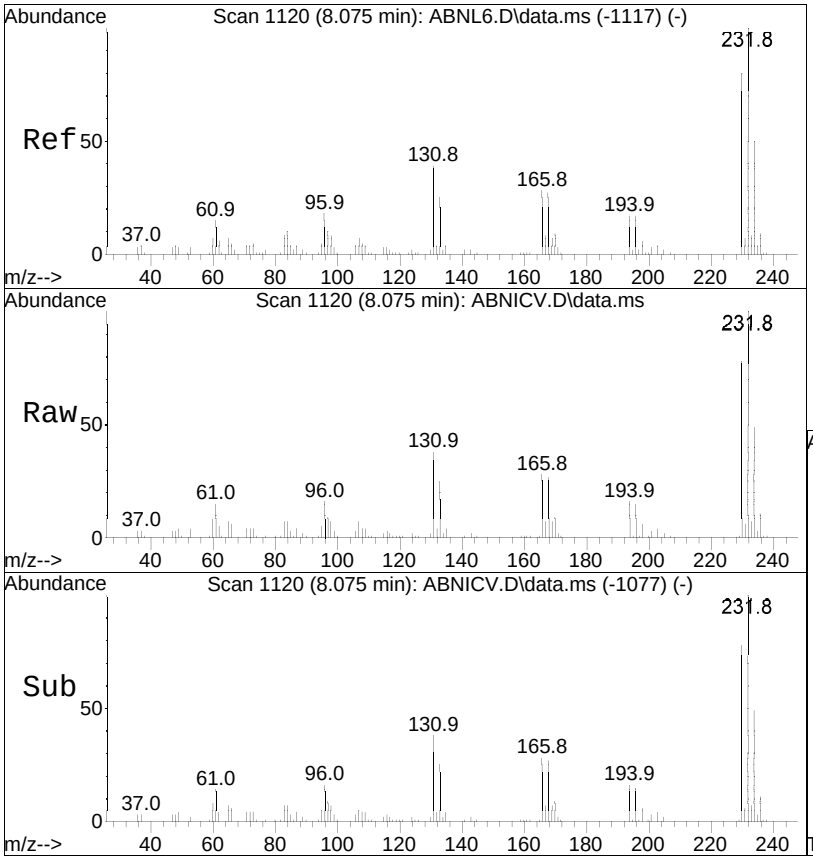


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.06 ug/ml
RT: 8.034 min Scan# 1113
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:232 Resp: 25150

Ion	Ratio	Lower	Upper
232	100		
230	78.4	63.8	95.8
234	47.4	38.3	57.5

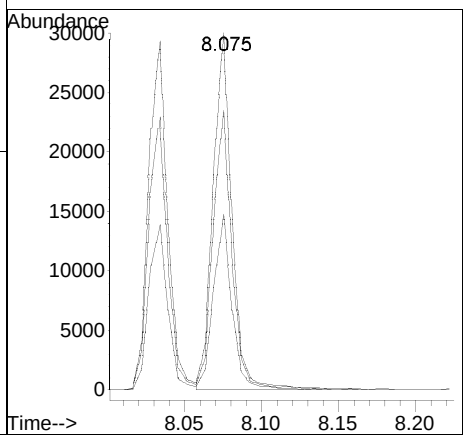


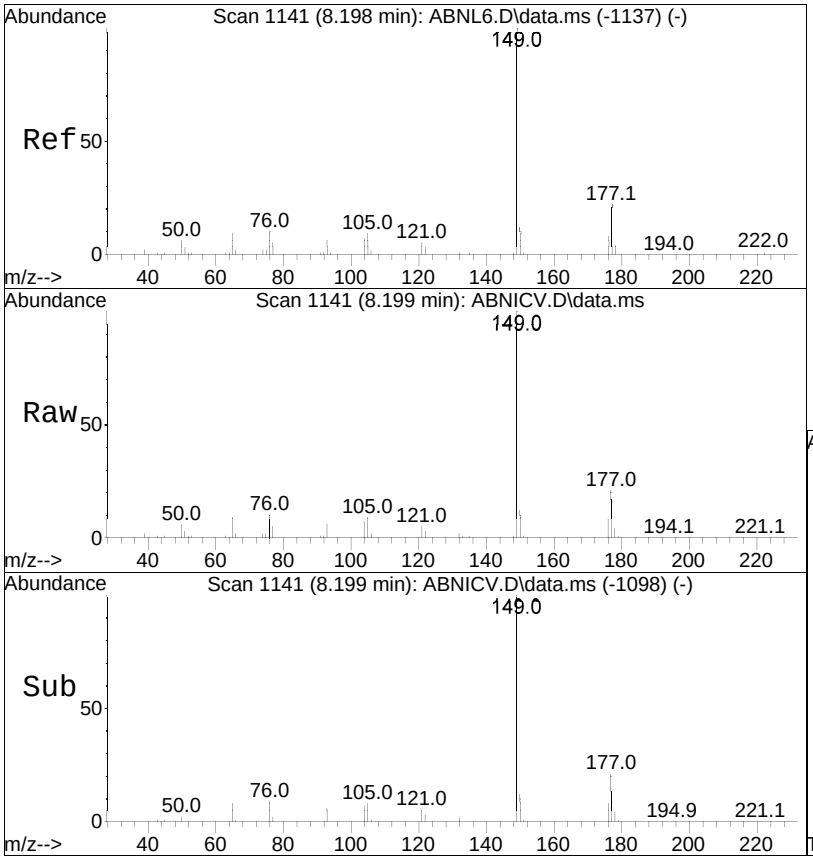


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.30 ug/ml
RT: 8.075 min Scan# 1120
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:232 Resp: 25875

Ion	Ratio	Lower	Upper
232	100		
230	78.0	63.8	95.8
234	47.7	39.0	58.6

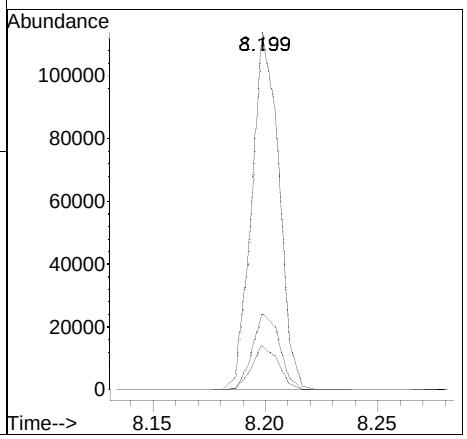


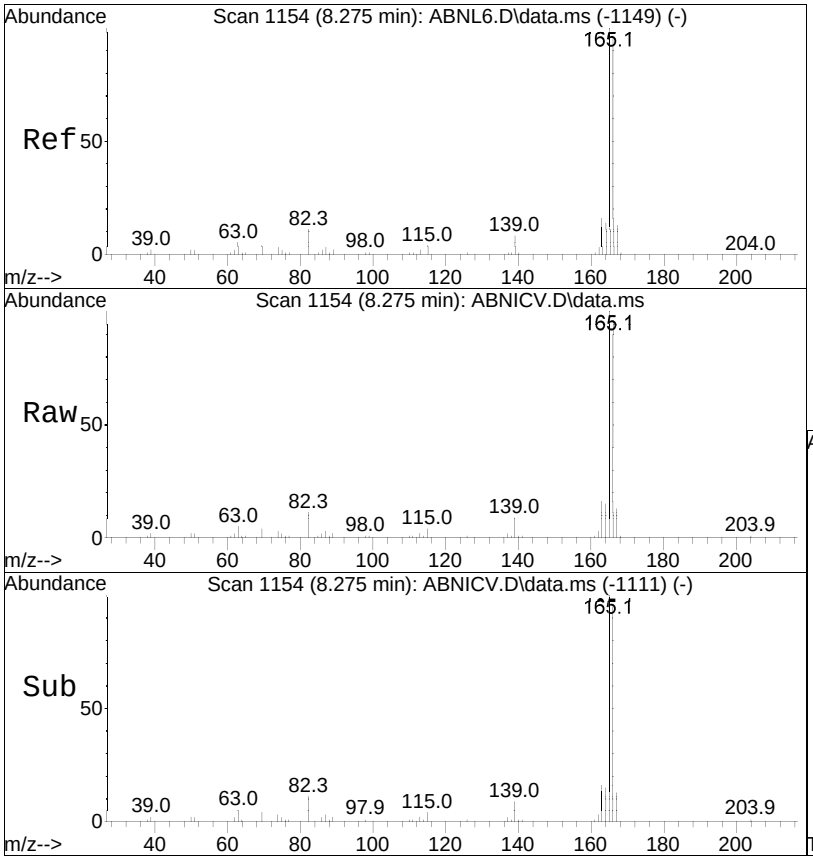


#72
Diethyl phthalate
Concen: 4.82 ug/ml
RT: 8.199 min Scan# 1141
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 94549

Ion	Ratio	Lower	Upper
149	100		
177	21.5	15.0	22.6
150	12.4	9.8	14.6

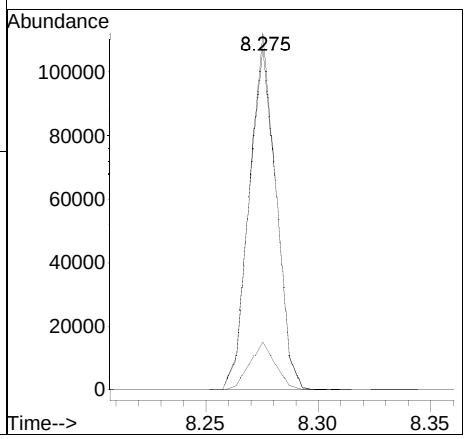


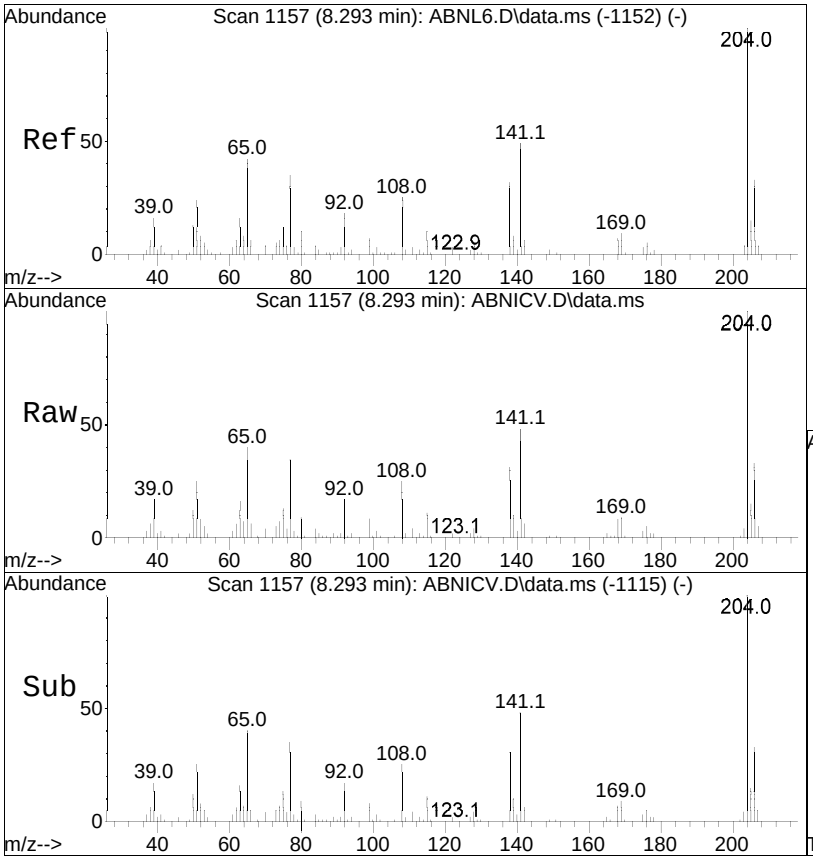


#73
Fluorene
Concen: 4.79 ug/ml
RT: 8.275 min Scan# 1154
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:166 Resp: 90363

Ion	Ratio	Lower	Upper
166	100		
165	102.3	80.0	120.0
167	13.6	10.7	16.1

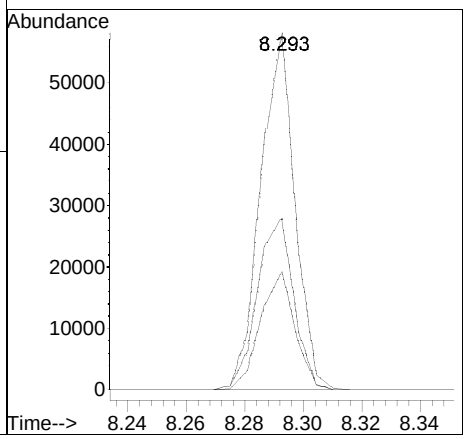


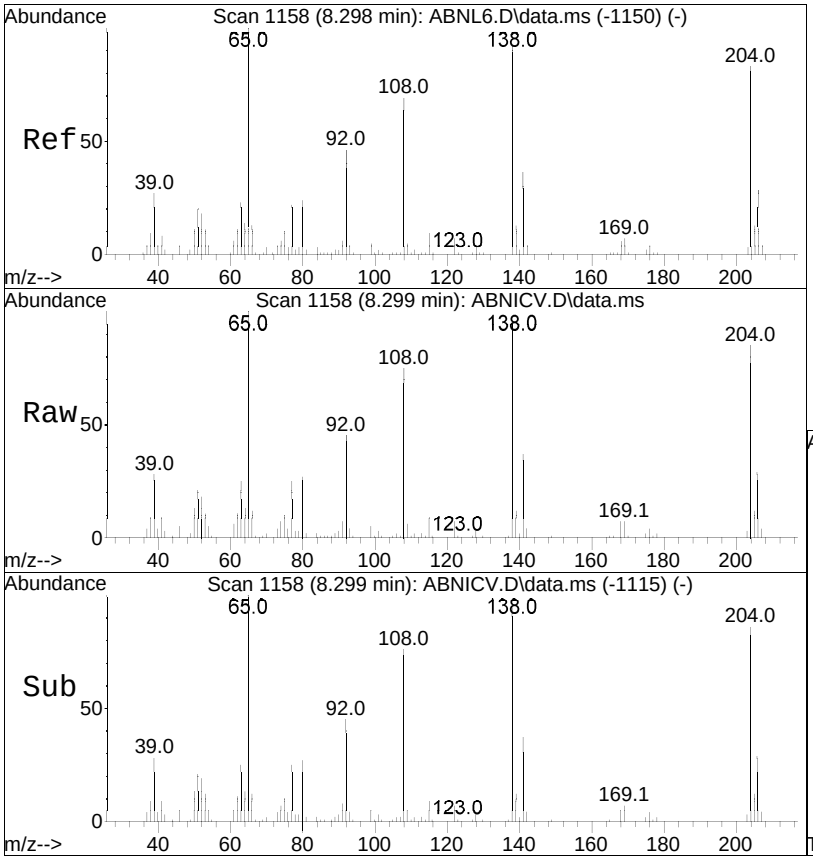


#74
4-Chlorophenyl phenyl ether
Concen: 4.55 ug/ml
RT: 8.293 min Scan# 1157
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:204 Resp: 46843

Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.3	39.5
141	51.2	58.4	87.6#

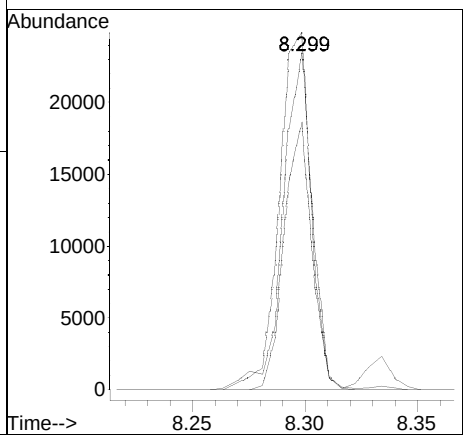


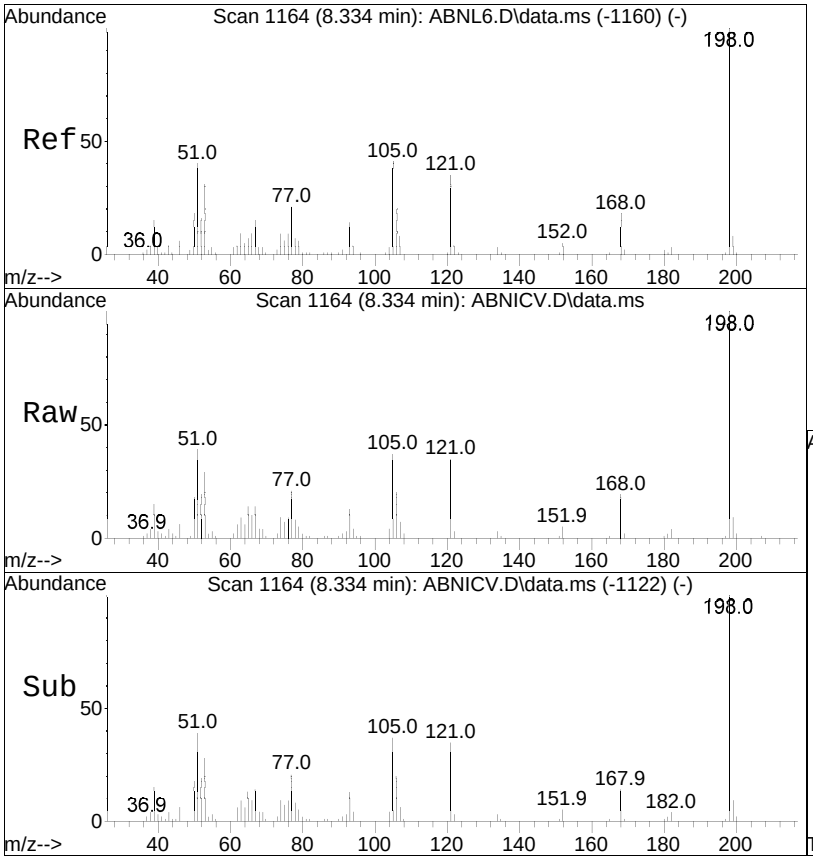


#75
4-Nitroaniline
Concen: 5.09 ug/ml
RT: 8.299 min Scan# 1158
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:138 Resp: 21133

Ion	Ratio	Lower	Upper
138	100		
108	75.4	59.2	88.8
65	114.3	97.6	146.4

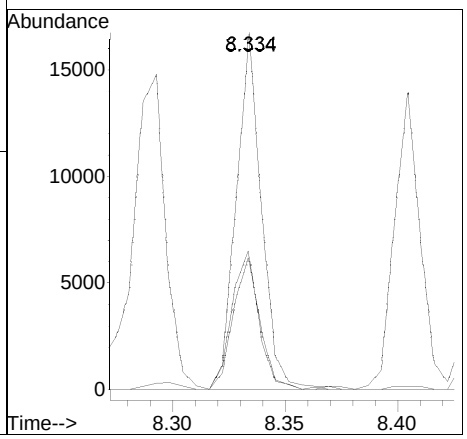


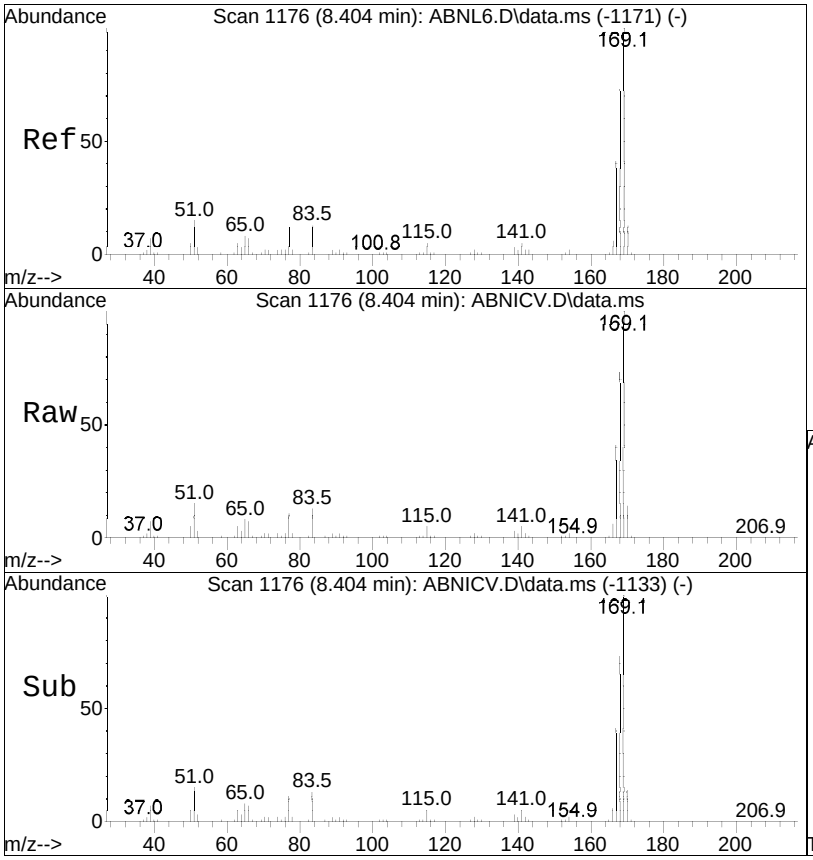


#76
4,6-Dinitro-o-cresol
Concen: 4.08 ug/ml
RT: 8.334 min Scan# 1164
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:198 Resp: 13091

Ion	Ratio	Lower	Upper
198	100		
51	41.4	49.9	74.9#
105	39.4	45.8	68.6#

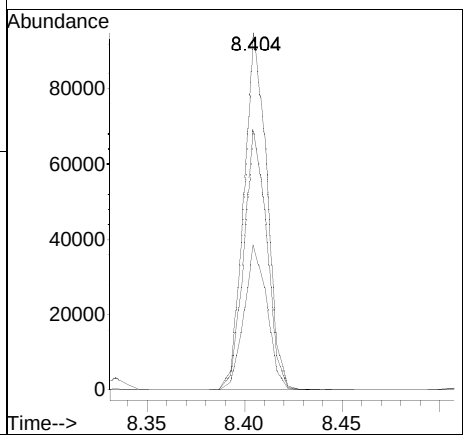


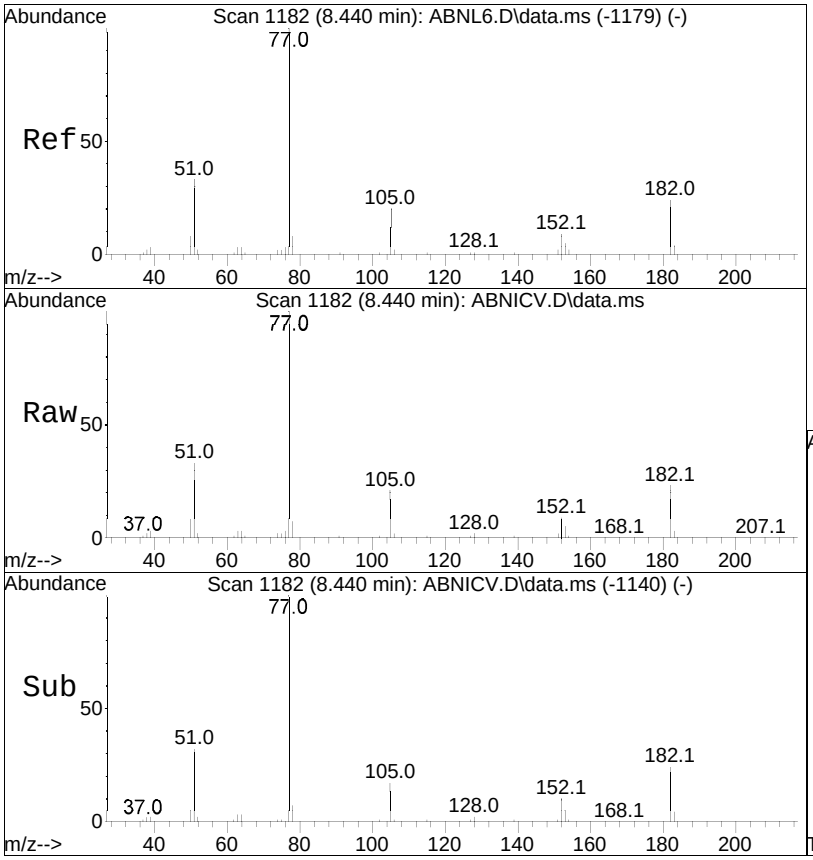


#77
NDPA/DPA
Concen: 4.78 ug/ml
RT: 8.404 min Scan# 1176
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:169 Resp: 77598

Ion	Ratio	Lower	Upper
169	100		
168	72.8	55.2	82.8
167	40.7	30.4	45.6

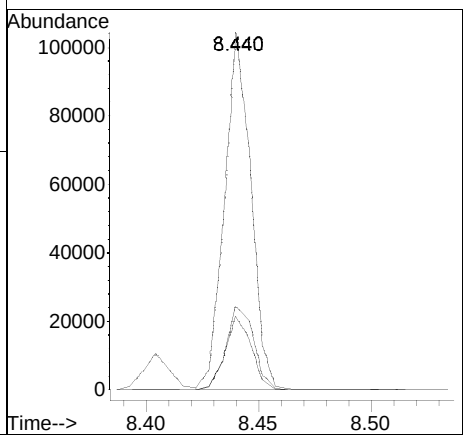


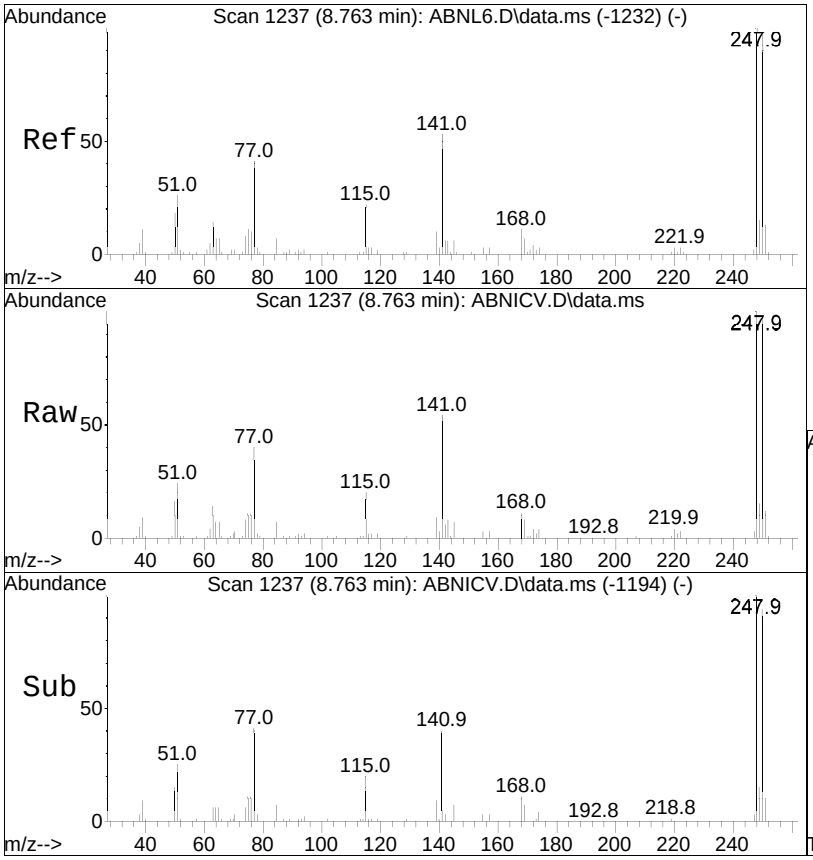


#78
Azobenzene
Concen: 4.87 ug/ml
RT: 8.440 min Scan# 1182
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 77 Resp: 83945

Ion	Ratio	Lower	Upper
77	100		
182	24.8	16.2	24.2#
105	20.6	17.9	26.9

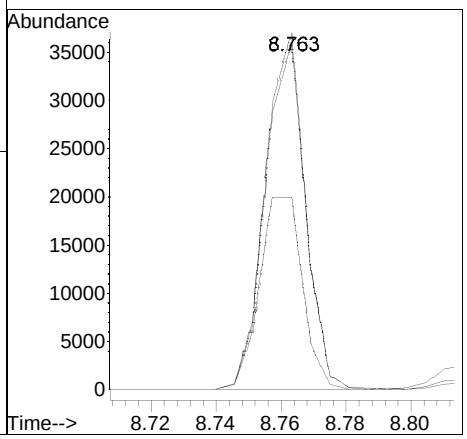


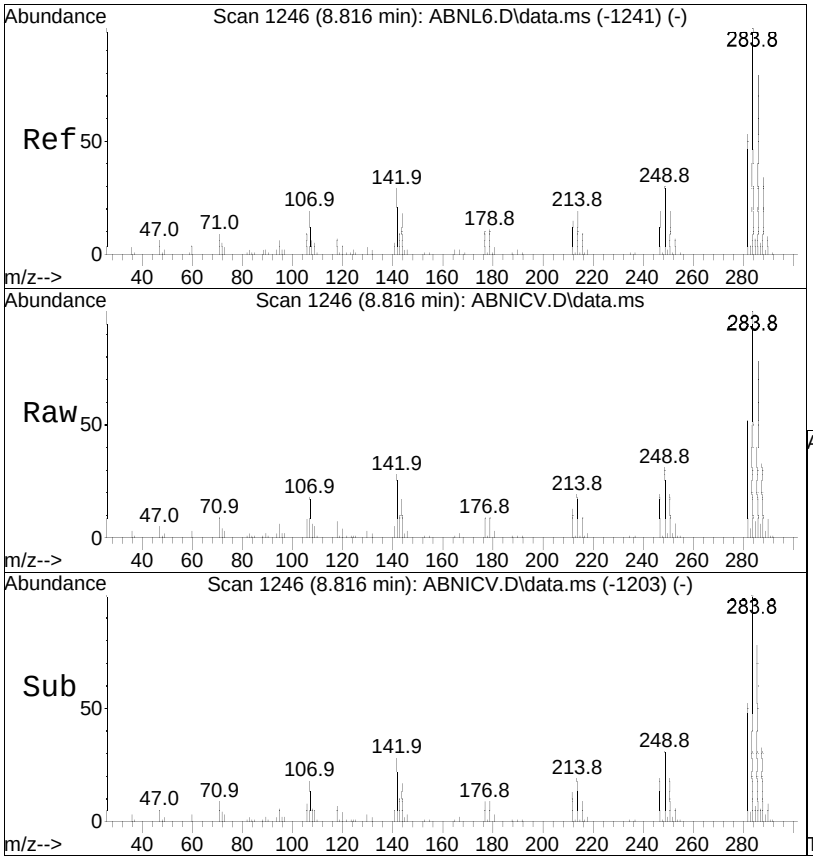


#80
4-Bromophenyl phenyl ether
Concen: 4.77 ug/ml
RT: 8.763 min Scan# 1237
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:248 Resp: 31429

Ion	Ratio	Lower	Upper
248	100		
141	58.0	74.6	111.8#
250	96.9	76.9	115.3

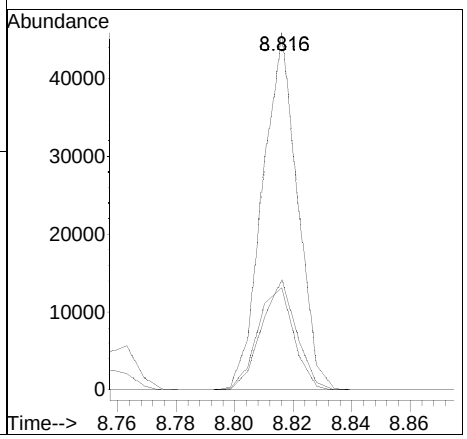


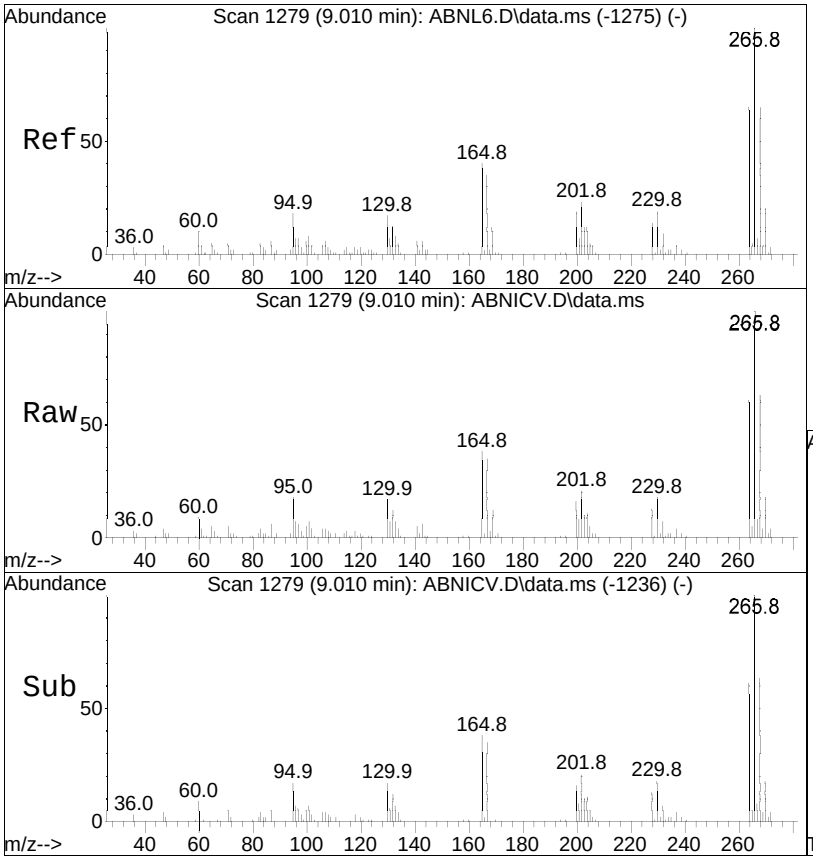


#81
Hexachlorobenzene
Concen: 4.59 ug/ml
RT: 8.816 min Scan# 1246
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:284 Resp: 37993

Ion	Ratio	Lower	Upper
284	100		
142	29.9	37.6	56.4#
249	31.0	25.4	38.2

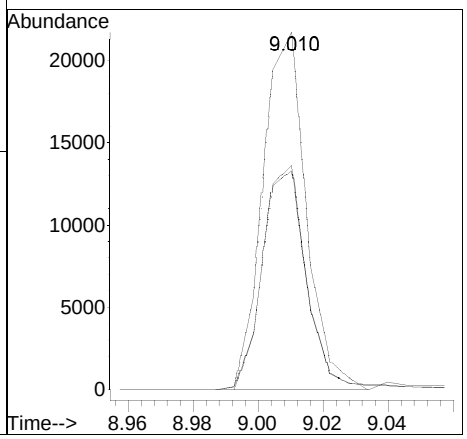


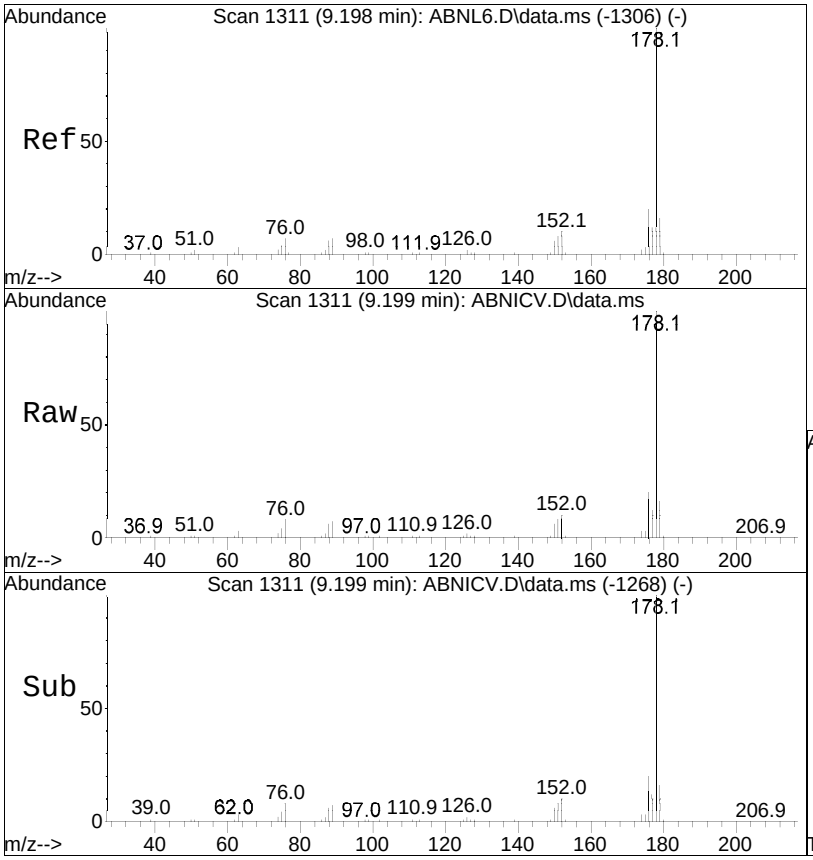


#82
Pentachlorophenol
Concen: 4.72 ug/ml
RT: 9.010 min Scan# 1279
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:266 Resp: 20072

Ion	Ratio	Lower	Upper
266	100		
264	64.3	50.7	76.1
268	65.6	52.5	78.7

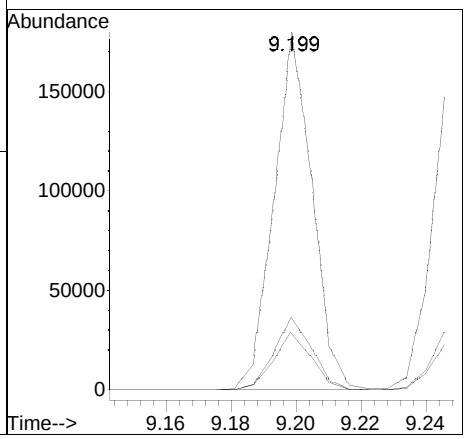


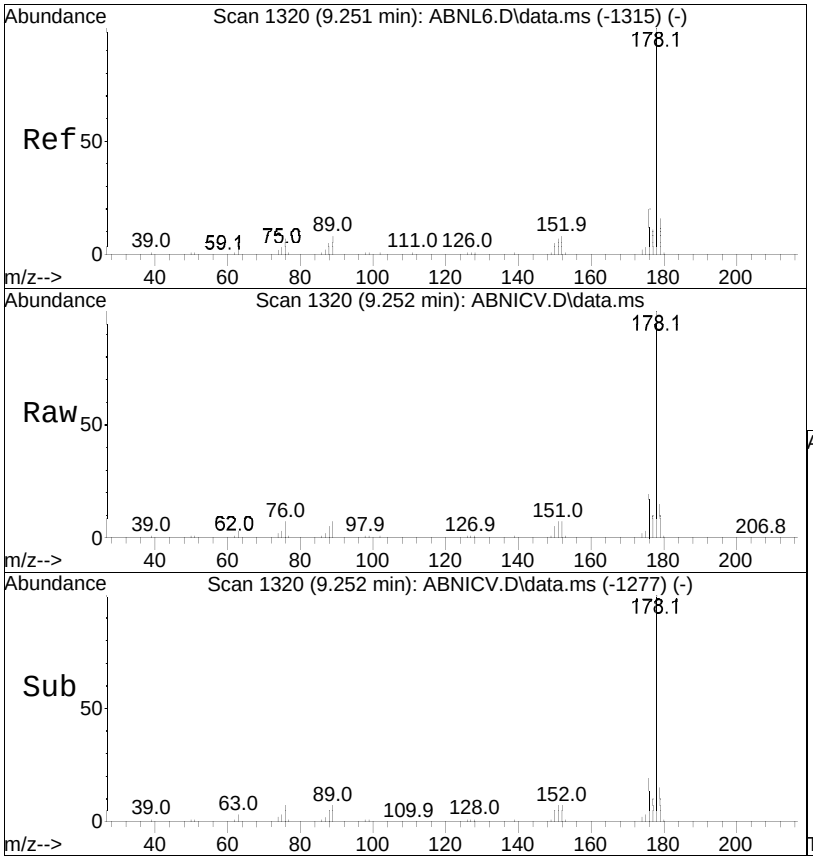


#89
Phenanthrene
Concen: 4.73 ug/ml
RT: 9.199 min Scan# 1311
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:178 Resp: 146237

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.3	18.5
176	20.0	15.4	23.2

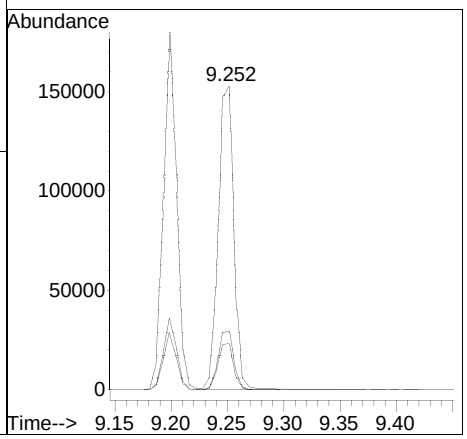


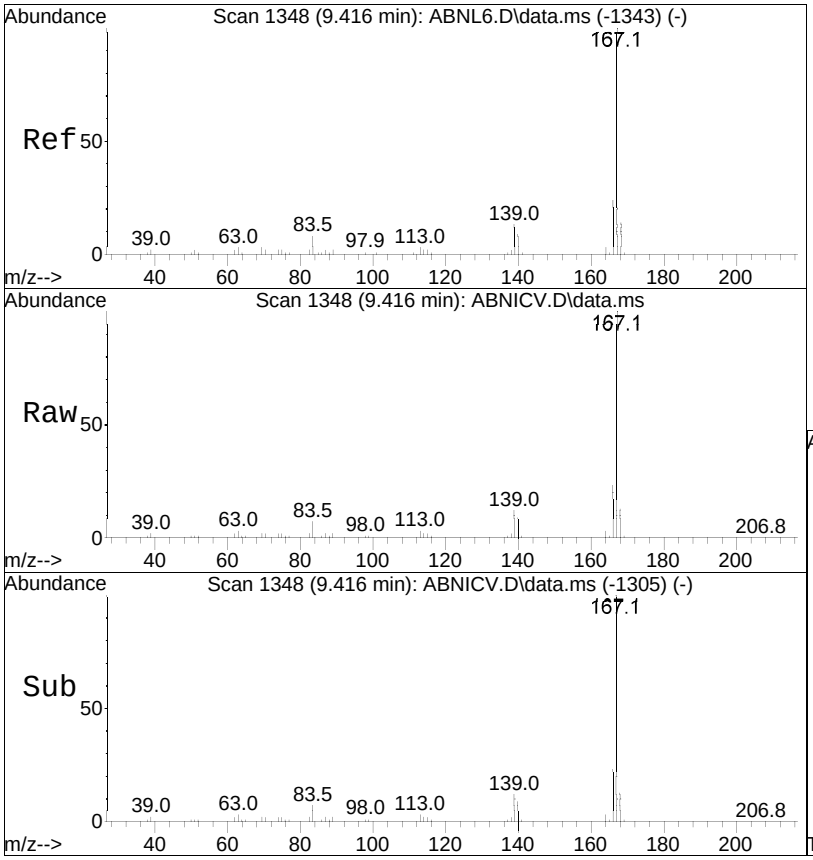


#90
Anthracene
Concen: 4.88 ug/ml
RT: 9.252 min Scan# 1320
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:178 Resp: 147689

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2
176	19.5	15.1	22.7

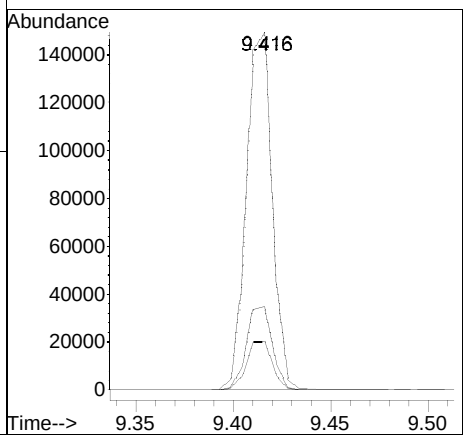


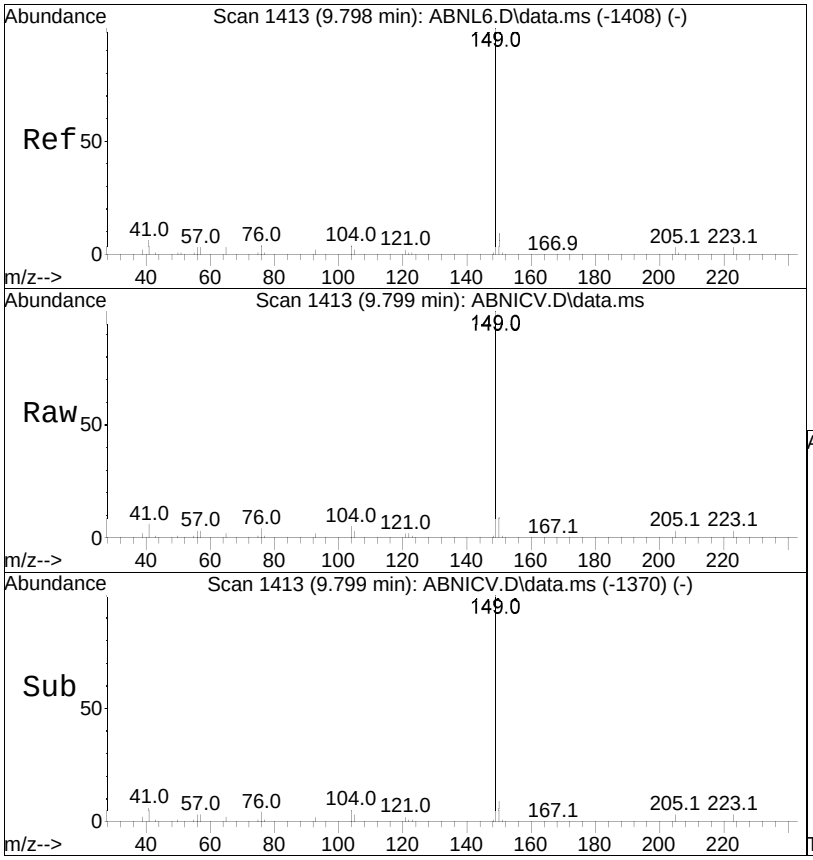


#91
Carbazole
Concen: 4.94 ug/ml
RT: 9.416 min Scan# 1348
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:167 Resp: 136779

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.8	16.2
166	23.4	17.7	26.5

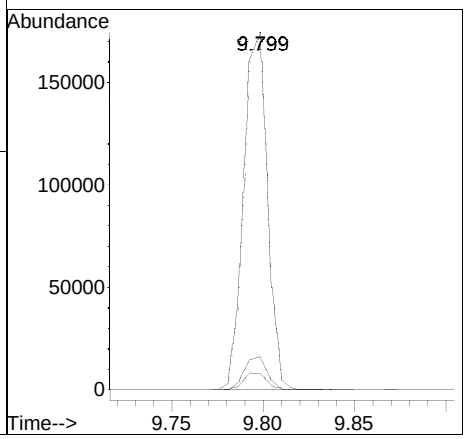


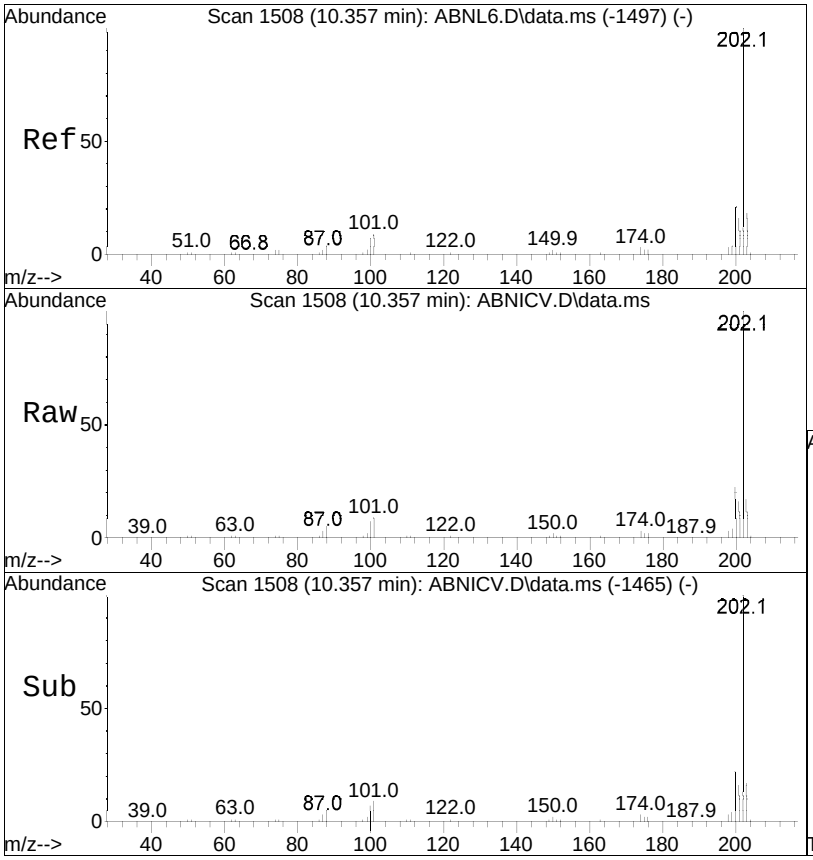


#92
Di-n-butylphthalate
Concen: 5.16 ug/ml
RT: 9.799 min Scan# 1413
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 155812

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.9	4.0	6.0

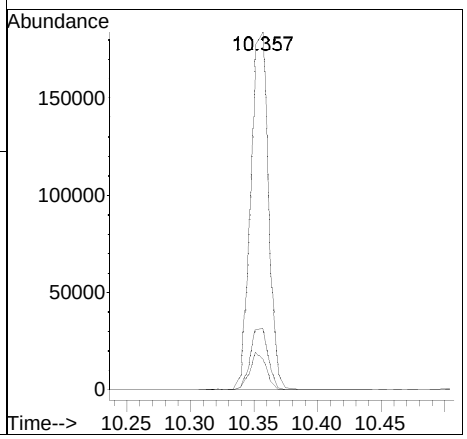


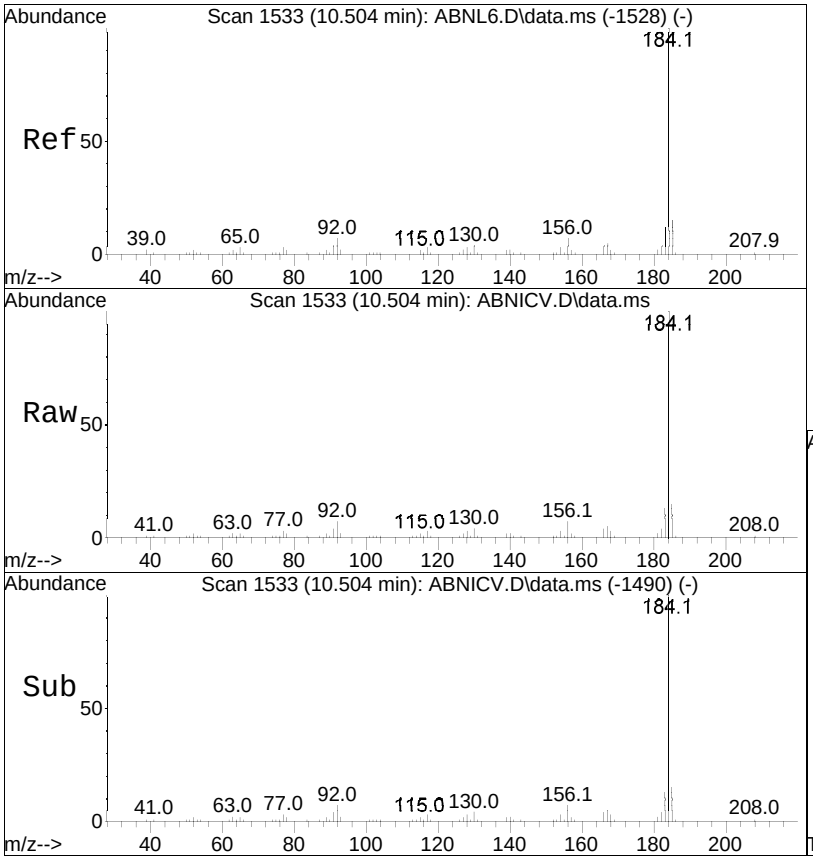


#93
Fluoranthene
Concen: 4.97 ug/ml M3
RT: 10.357 min Scan# 1508
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:202 Resp: 178241

Ion	Ratio	Lower	Upper
202	100		
101	12.5	11.2	16.8
203	19.1	13.7	20.5

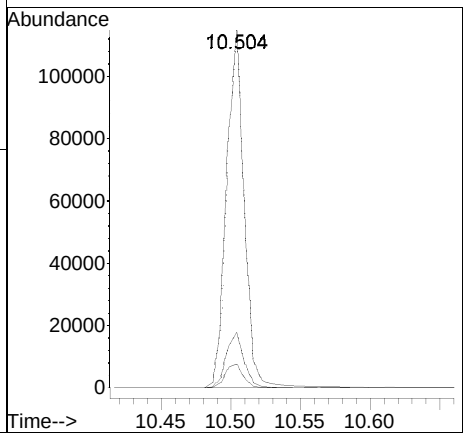


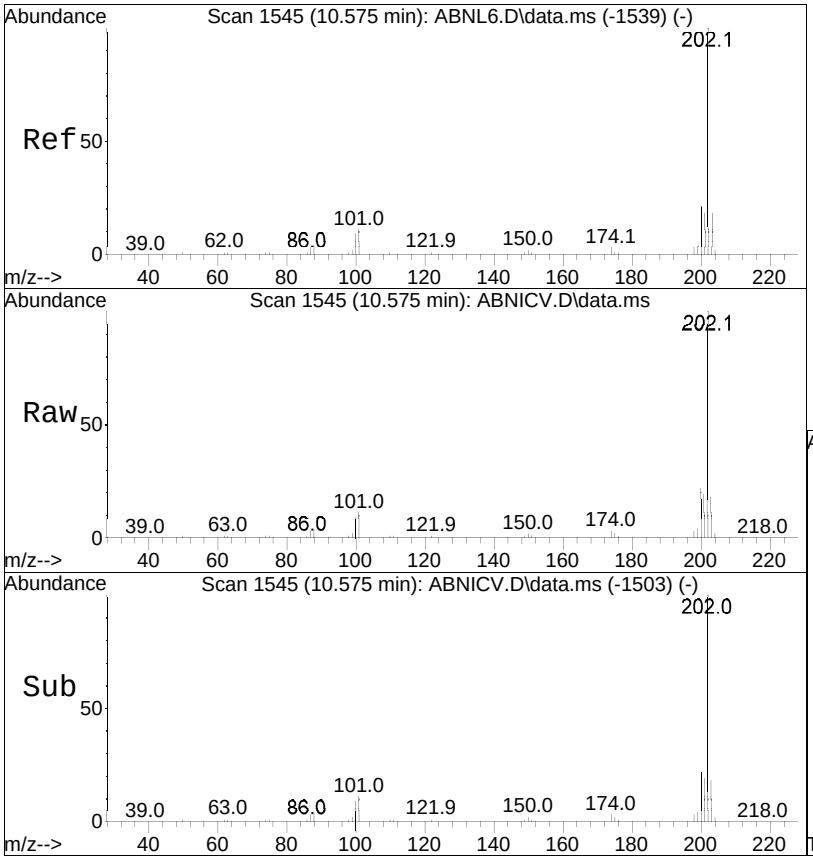


#94
Benzidine
Concen: 5.07 ug/ml
RT: 10.504 min Scan# 1533
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:184 Resp: 99975

Ion	Ratio	Lower	Upper
184	100		
92	6.8	7.3	10.9#
185	15.8	11.8	17.8

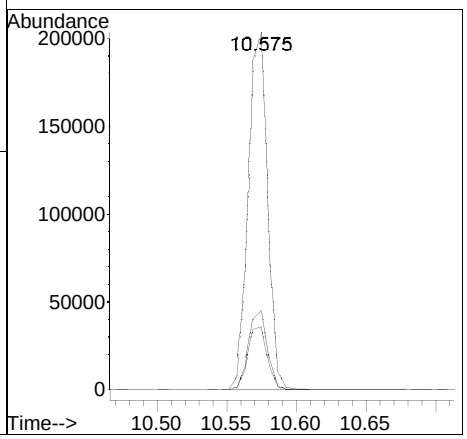


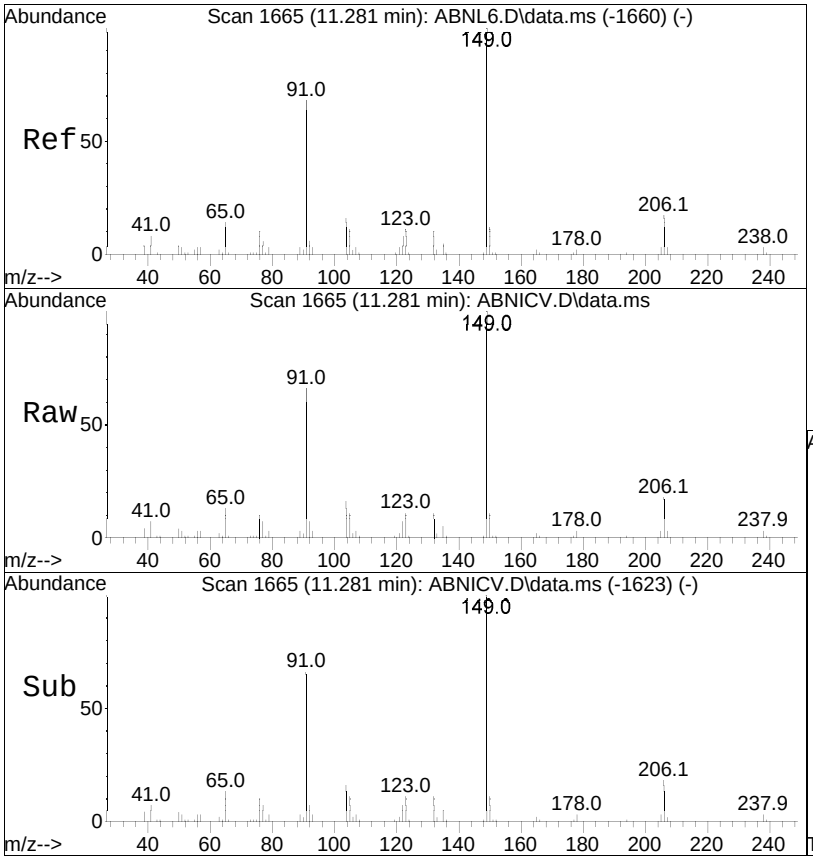


#95
Pyrene
Concen: 5.12 ug/ml
RT: 10.575 min Scan# 1545
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:202 Resp: 194546

Ion	Ratio	Lower	Upper
202	100		
200	21.9	16.9	25.3
203	18.0	14.3	21.5

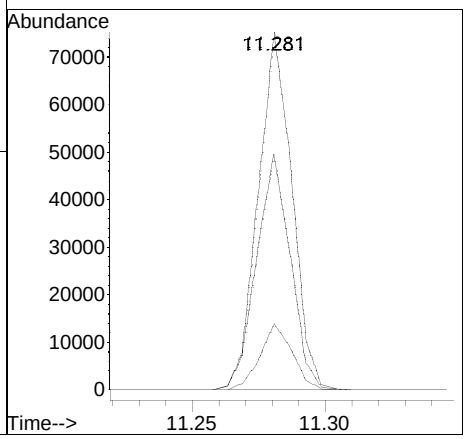


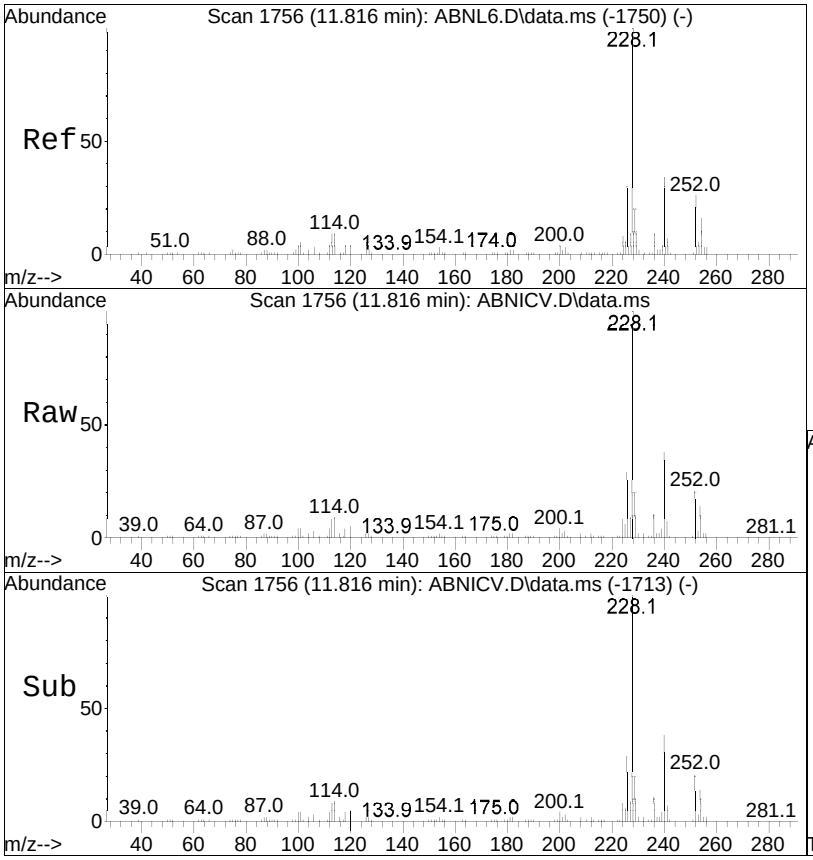


#97
Butyl benzyl phthalate
Concen: 4.89 ug/ml
RT: 11.281 min Scan# 1665
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 65418

Ion	Ratio	Lower	Upper
149	100		
91	66.4	57.9	86.9
206	17.7	11.9	17.9

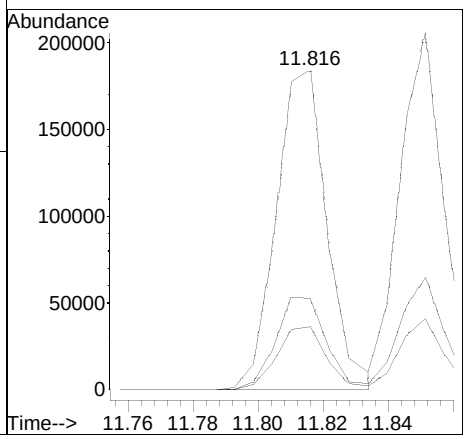


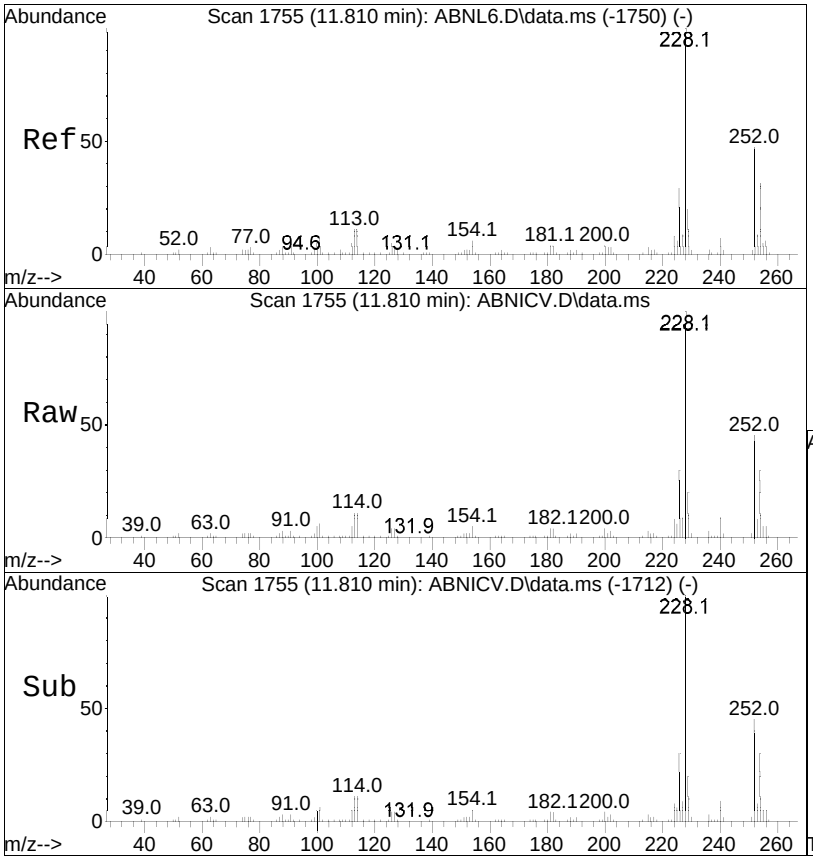


#105
Benzo(a)anthracene
Concen: 4.86 ug/ml
RT: 11.816 min Scan# 1756
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:228 Resp: 199667

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.6	34.0
229	19.6	15.8	23.6

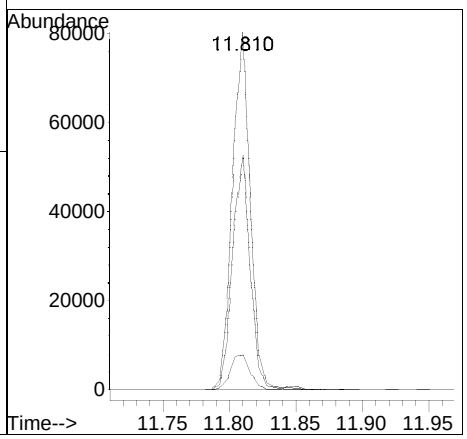


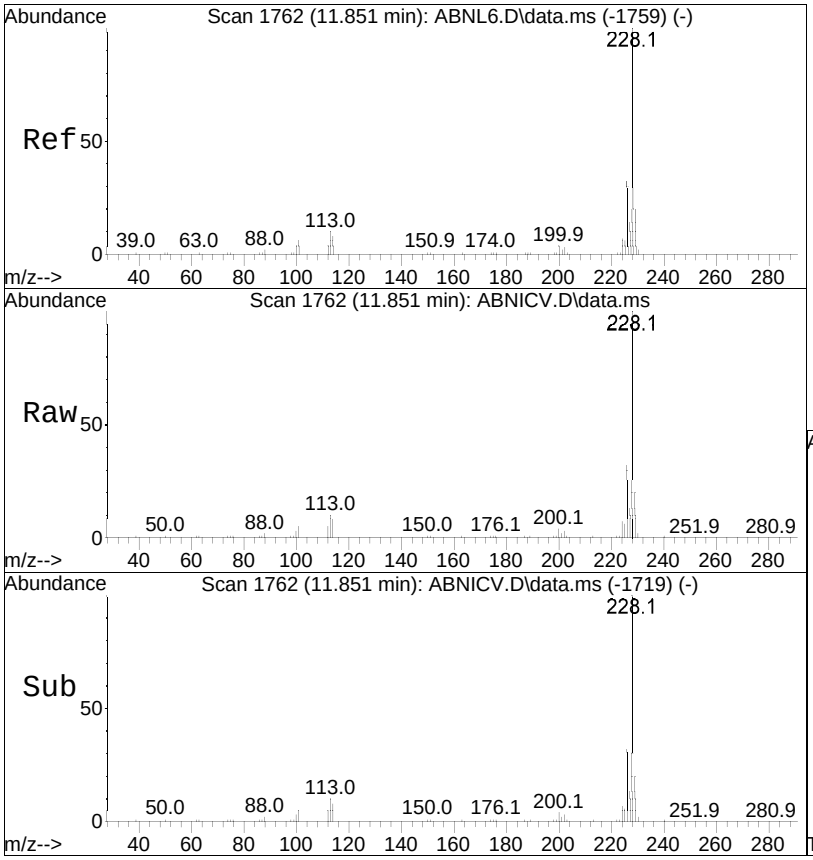


#106
3,3'-Dichlorobenzidine
Concen: 4.98 ug/ml
RT: 11.810 min Scan# 1755
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:252 Resp: 74502

Ion	Ratio	Lower	Upper
252	100		
126	11.0	12.6	19.0#
254	64.6	51.1	76.7

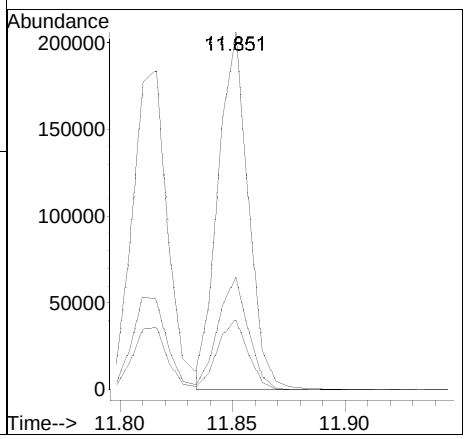


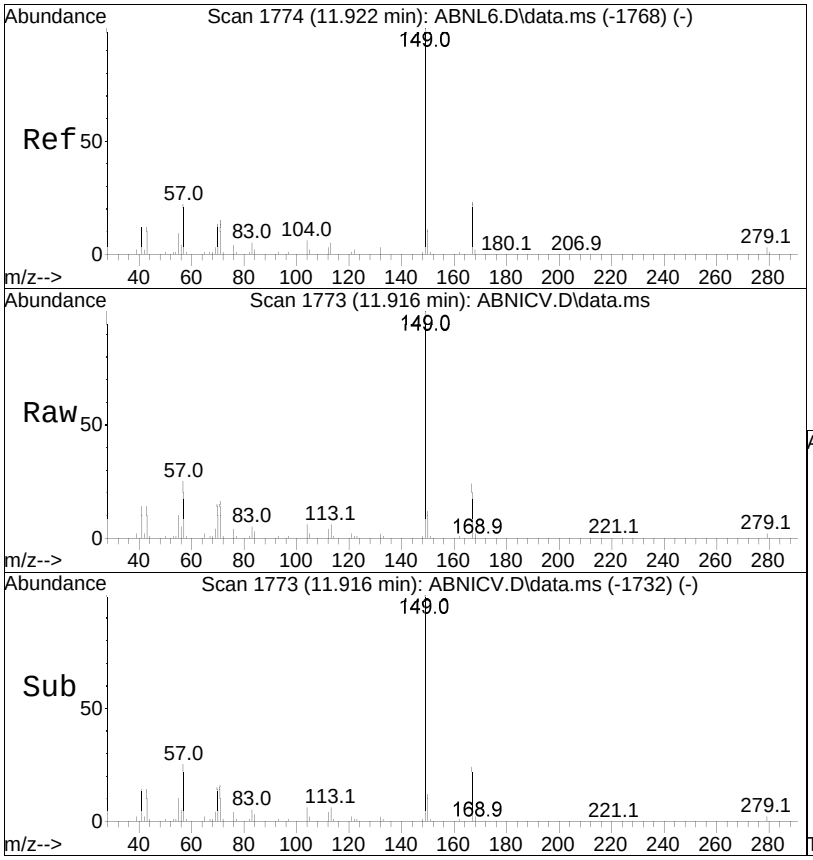


#107
Chrysene
Concen: 4.78 ug/ml
RT: 11.851 min Scan# 1762
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:228 Resp: 192294

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.7	37.1
229	20.0	15.5	23.3

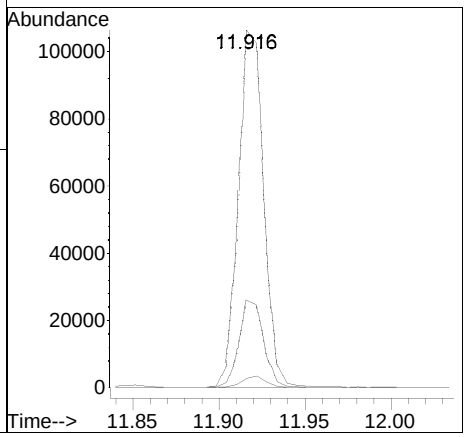


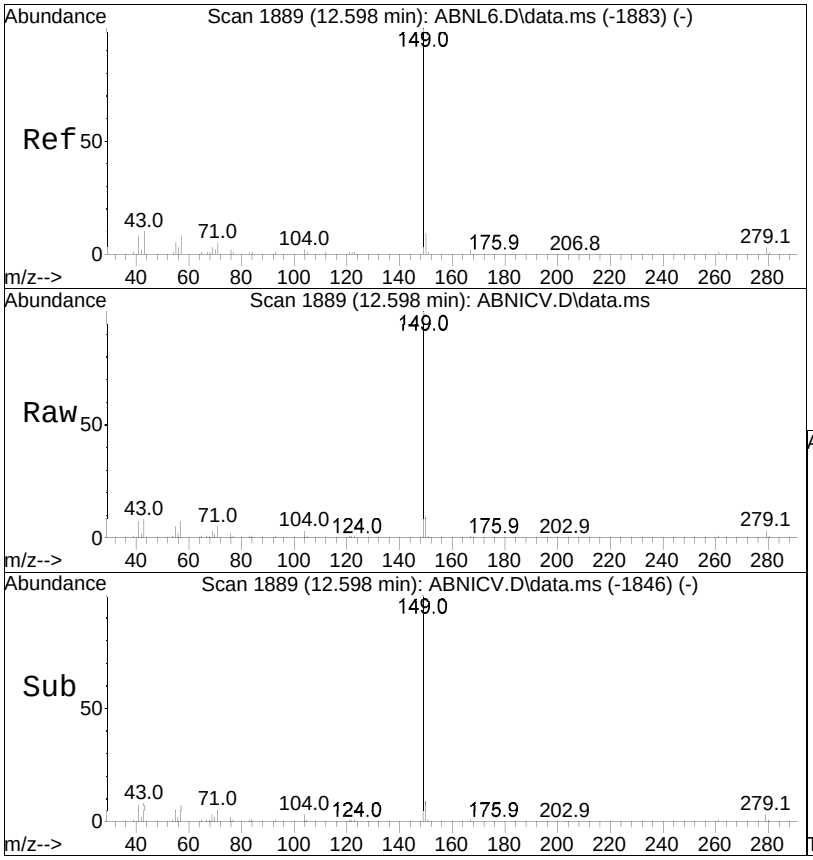


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.26 ug/ml
RT: 11.916 min Scan# 1773
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 107331

Ion	Ratio	Lower	Upper
149	100		
167	23.9	18.4	27.6
279	2.8	1.7	2.5#

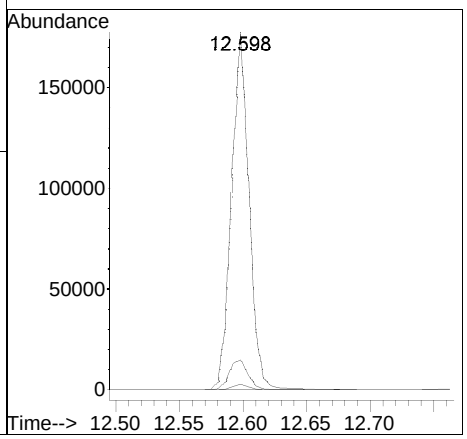


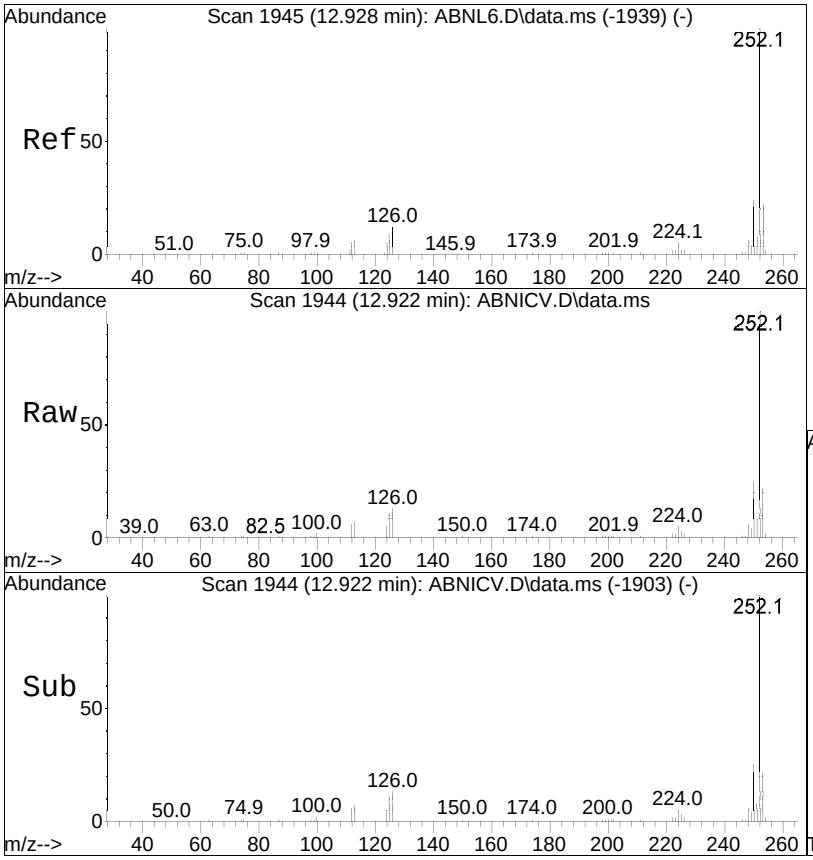


#109
Di-n-octylphthalate
Concen: 5.33 ug/ml
RT: 12.598 min Scan# 1889
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 166682

Ion	Ratio	Lower	Upper
149	100		
43	9.1	8.2	12.2
167	1.4	1.1	1.7

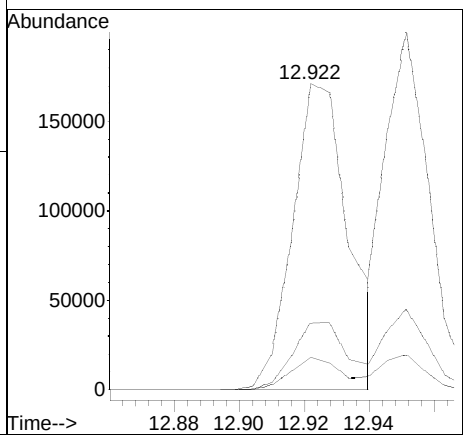


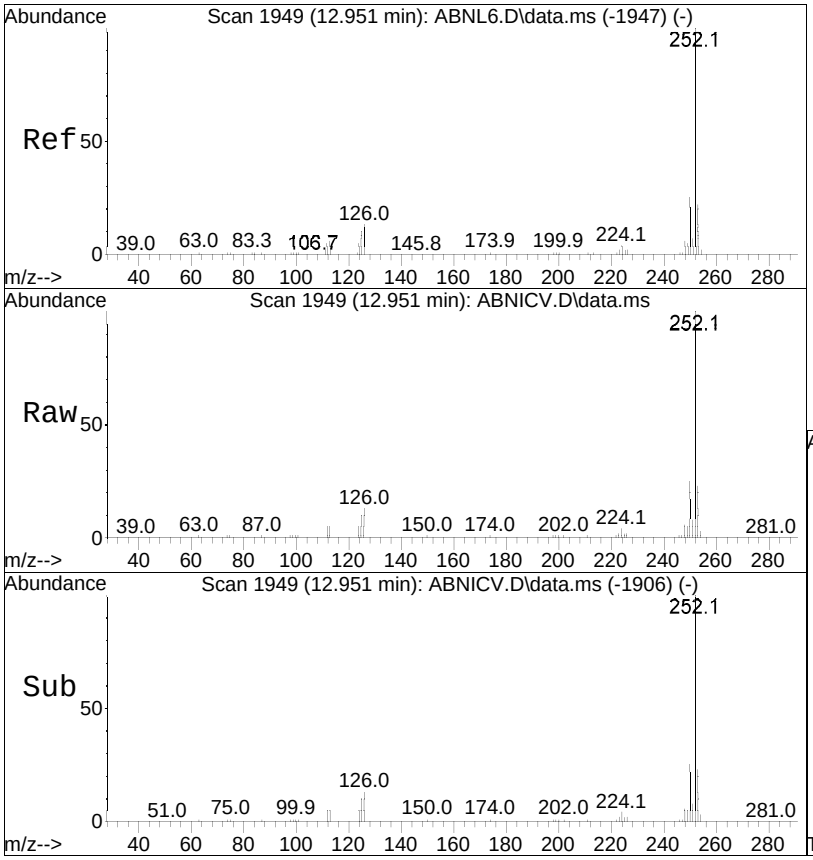


#110
Benzo(b)fluoranthene
Concen: 4.90 ug/ml
RT: 12.922 min Scan# 1944
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:252 Resp: 206155

Ion	Ratio	Lower	Upper
252	100		
125	9.1	11.3	16.9#
253	22.2	17.8	26.8

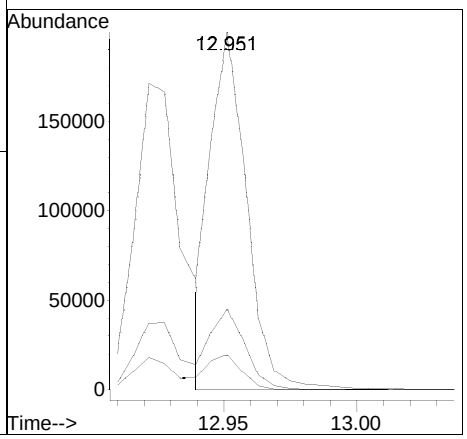


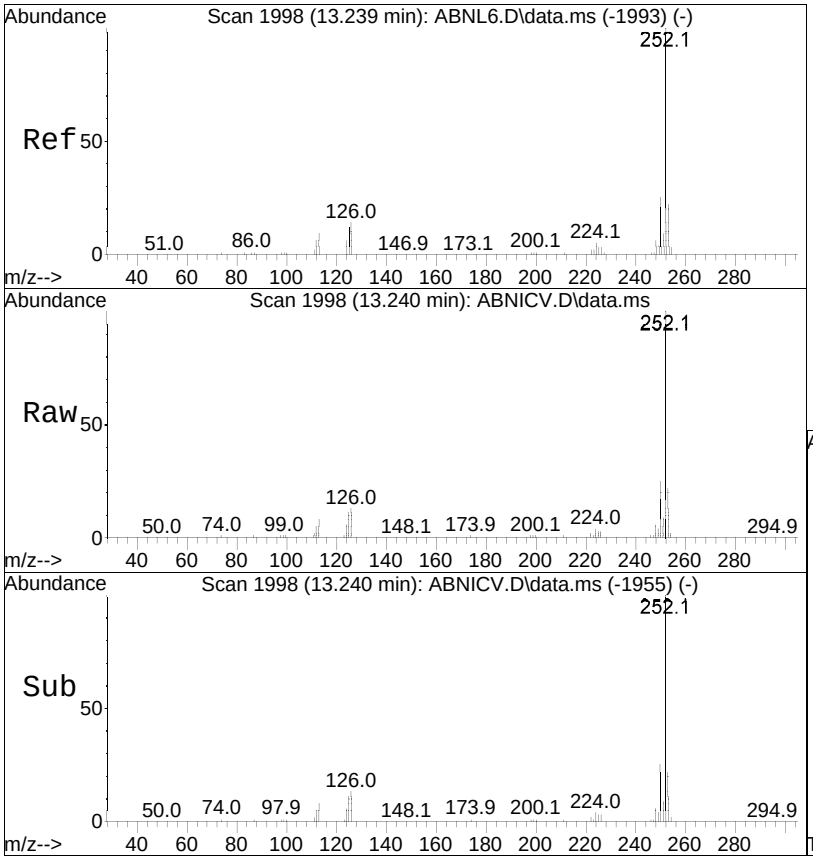


#111
Benzo(k)fluoranthene
Concen: 4.94 ug/ml M3
RT: 12.951 min Scan# 1949
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:252 Resp: 190009

Ion	Ratio	Lower	Upper
252	100		
125	9.8	11.5	17.3#
253	24.1	17.6	26.4

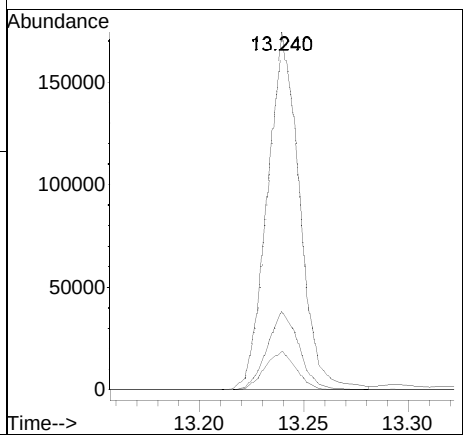


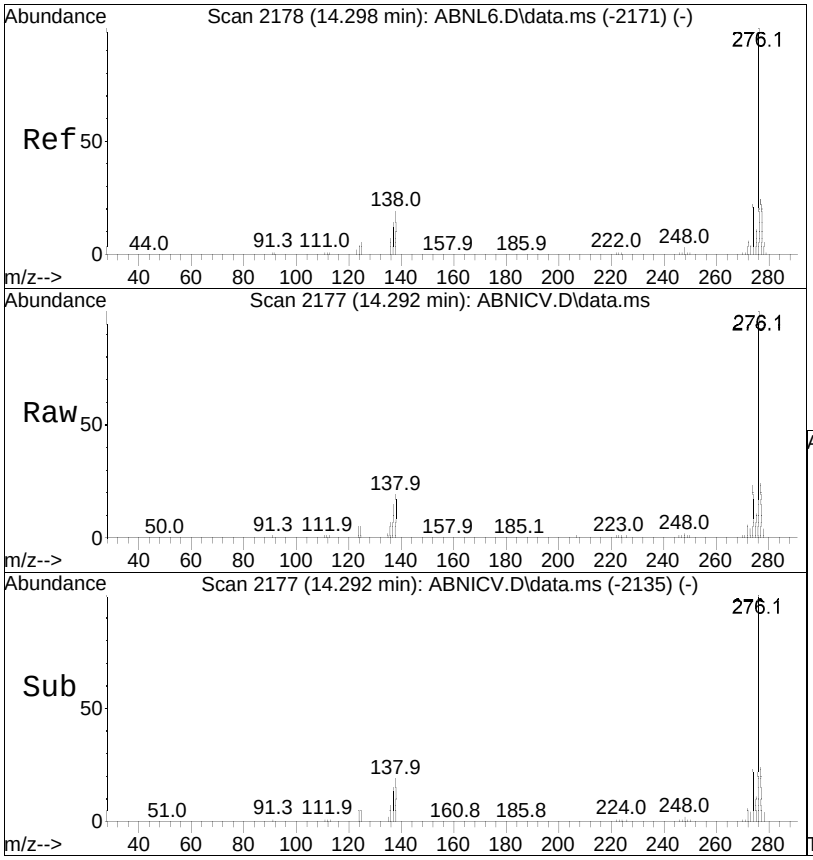


#112
Benzo(a)pyrene
Concen: 5.02 ug/ml
RT: 13.240 min Scan# 1998
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:252 Resp: 184465

Ion	Ratio	Lower	Upper
252	100		
125	11.0	12.6	18.8#
253	22.2	17.5	26.3

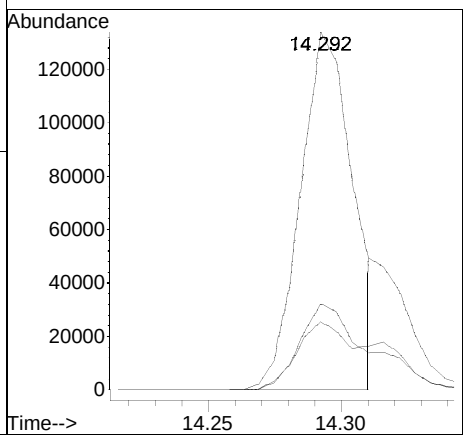


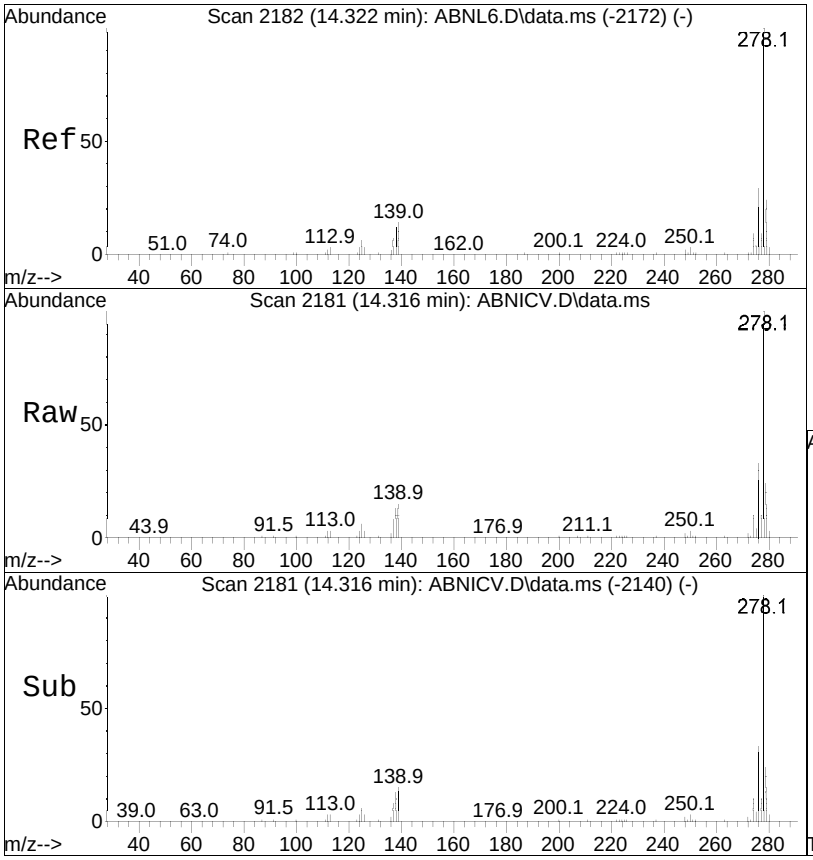


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.60 ug/mL M6
RT: 14.292 min Scan# 2177
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:276 Resp: 184779

Ion	Ratio	Lower	Upper
276	100		
138	30.3	22.1	33.1
277	32.2	19.0	28.6#

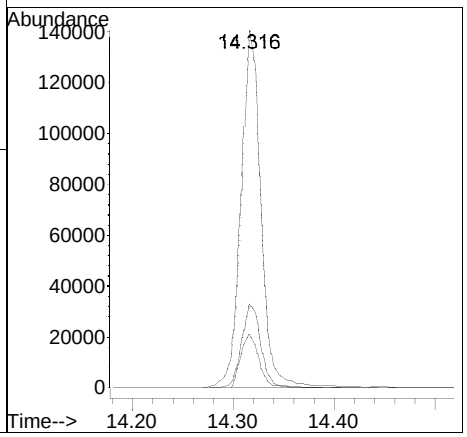


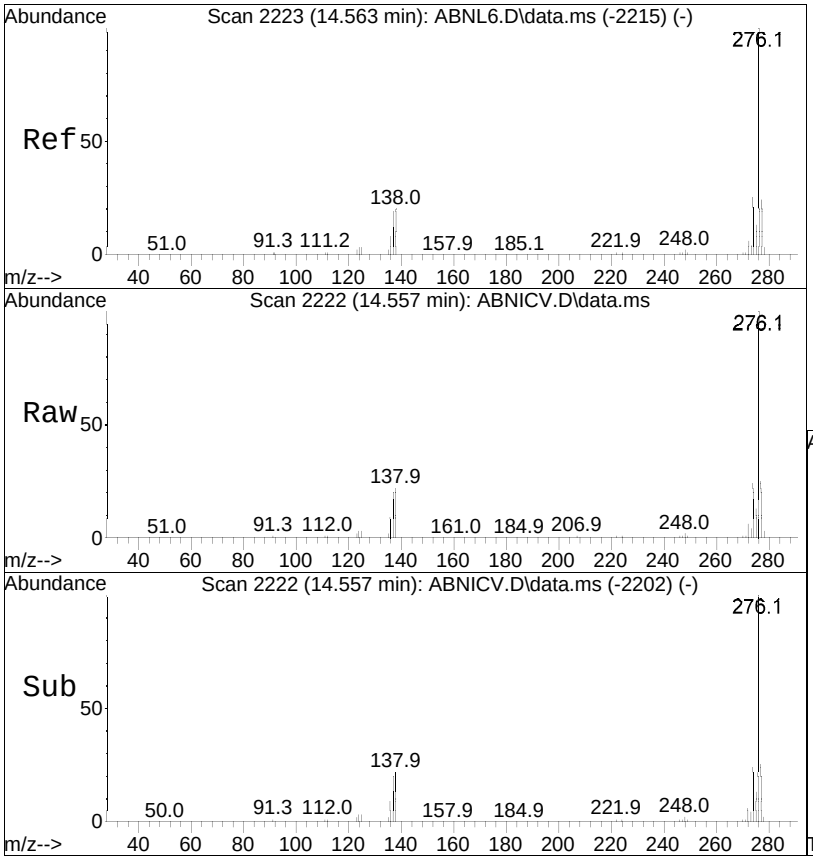


#115
Dibenzo(a,h)anthracene
Concen: 5.01 ug/ml
RT: 14.316 min Scan# 2181
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:278 Resp: 192344

Ion	Ratio	Lower	Upper
278	100		
139	14.0	17.8	26.8#
279	23.1	19.2	28.8

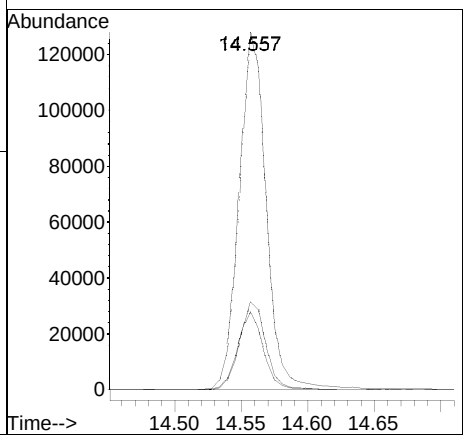




#116
Benzo(ghi)perylene
Concen: 4.62 ug/ml
RT: 14.557 min Scan# 2222
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:276 Resp: 178871

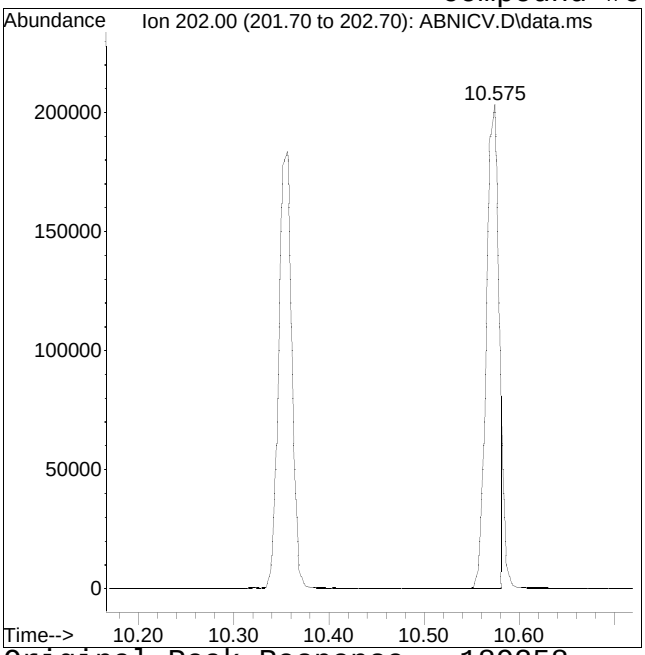
Ion	Ratio	Lower	Upper
276	100		
138	21.3	21.9	32.9#
277	24.5	18.4	27.6

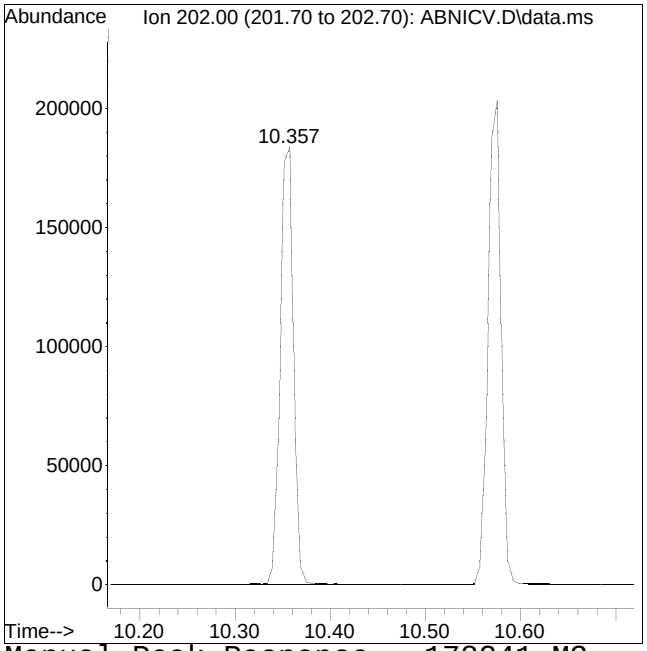


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNICV.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 3:16 am Instrument : SV112
Sample : CQICV1,32,,ABNICV Lot# 108Quant Date : 6/30/2024 2:26 pm

Compound #93: Fluoranthene



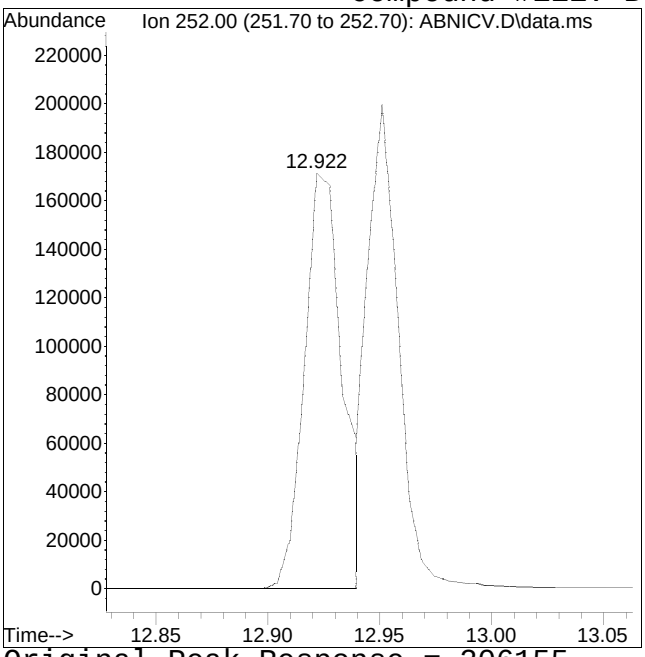


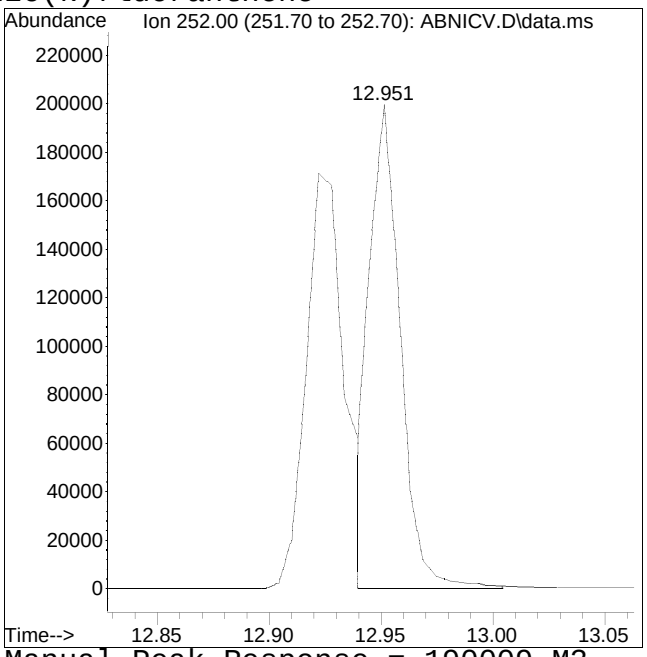
Original Peak Response = 189258 Manual Peak Response = 178241 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNICV.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 3:16 am Instrument : SV112
Sample : CQICV1,32,,ABNICV Lot# 108Quant Date : 6/30/2024 2:26 pm

Compound #111: Benzo(k)fluoranthene





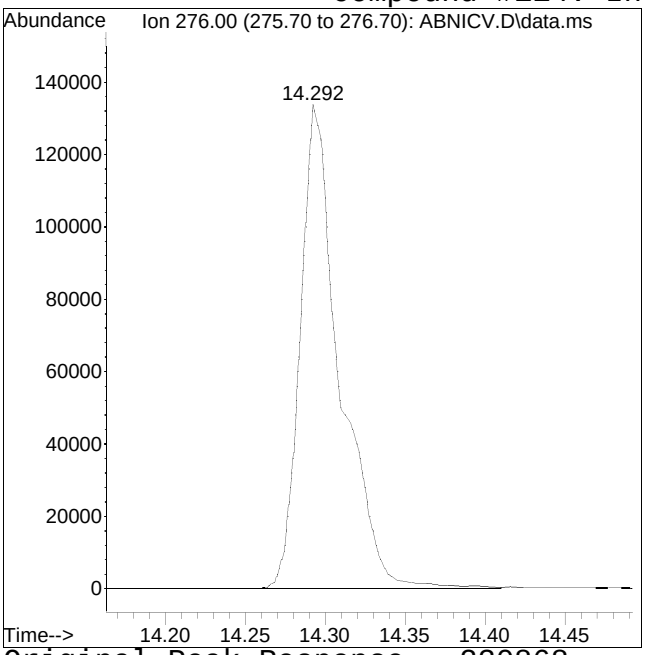
Original Peak Response = 206155 Manual Peak Response = 190009 M3

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

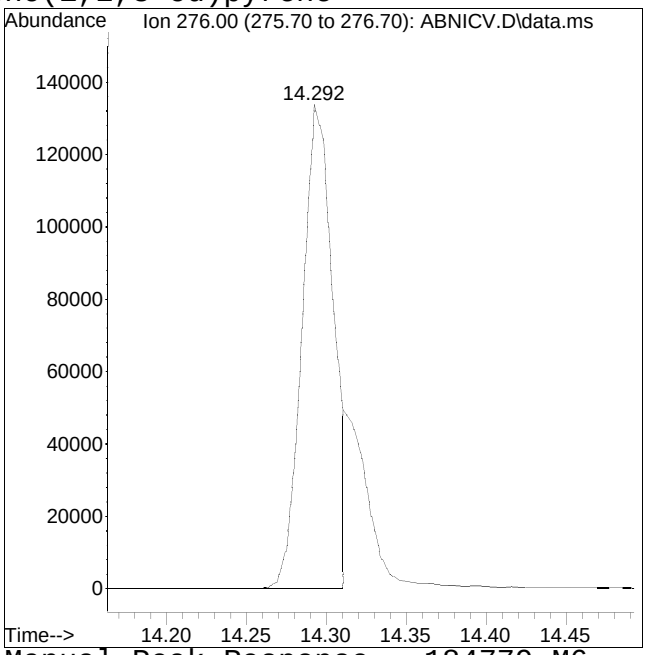
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNICV.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 3:16 am Instrument : SV112
Sample : CQICV1,32,,ABNICV Lot# 108Quant Date : 6/30/2024 2:26 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 230868



Manual Peak Response = 184779 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9ICV.D
Acq On : 26 Jun 2024 03:39 am
Operator : SV112:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939943
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 30 14:37:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:25:57 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
28	T	Benzaldehyde		1.094	1.014	7.3	86	0.00
29	T	Acetophenone		1.903	1.766	7.2	81	0.00
30	T	m-Toluidine		1.828	1.725	5.6	83	0.00
31	T	2-Chloroaniline		1.742	1.622	6.9	83	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	86	0.00
56	T	a-Terpineol		0.277	0.261	5.8	81	0.00
57	T	3-Chloroaniline		0.150	0.136	9.3	78	0.00
58	T	2,6-Dichlorophenol		0.326	0.310	4.9	80	0.00
59	T	1-chloro-2-nitrobenzene		0.143	0.138	3.5	81	0.00
60	T	Caprolactam	*	5.000	4.063	18.7	73	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.479	0.446	6.9	81	0.00
62	T	Biphenyl		1.026	0.921	10.2	78	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	82	0.00
84	T	Dichloran	*	5.000	3.777	24.5#	69	0.00
85	T	Pentachloronitrobenzene		0.235	0.192	18.3	70	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	79	0.00
99	T	Diphenamid		0.515	0.462	10.3	69	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9ICV.D
Acq On : 26 Jun 2024 03:39 am
Operator : SV112:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939943
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 30 14:37:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:25:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	19496	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery = 91.85%			
55) IS2_Naphthalene-d8	6.040	136	70493	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery = 86.02%			
83) IS2_Acenaphthene-d10	7.746	164	42386	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery = 81.83%			
98) IS2_Phenanthrene-d10	9.175	188	93506	4.000	ug/ml #	0.00
Standard Area 1 = 118160			Recovery = 79.14%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.369	105	24722	4.638	ug/ml	99
29) Acetophenone	5.199	105	43034	4.639	ug/ml	97
30) m-Toluidine	5.281	106	42038	4.718	ug/ml	97
31) 2-Chloroaniline	5.646	127	39533	4.657	ug/ml	97
56) a-Terpineol	6.093	59	23032	4.714	ug/ml	94
57) 3-Chloroaniline	6.105	65	11948	4.514	ug/ml	86
58) 2,6-Dichlorophenol	6.134	162	27335	4.755	ug/ml#	90
59) 1-chloro-2-nitrobenzene	6.387	111	12170	4.821	ug/ml	95
60) Caprolactam	6.416	55	11582	4.063	ug/ml	89
61) 1,2,4,5-Tetrachloroben...	6.904	216	39341	4.659	ug/ml#	94
62) Biphenyl	7.199	154	81125	4.485	ug/ml	98
84) Dichloran	8.869	206	8814	3.777	ug/ml#	73
85) Pentachloronitrobenzene	9.022	237	10155	4.082	ug/ml#	82
99) Diphenamid	10.075	167	54038	4.489	ug/ml	84

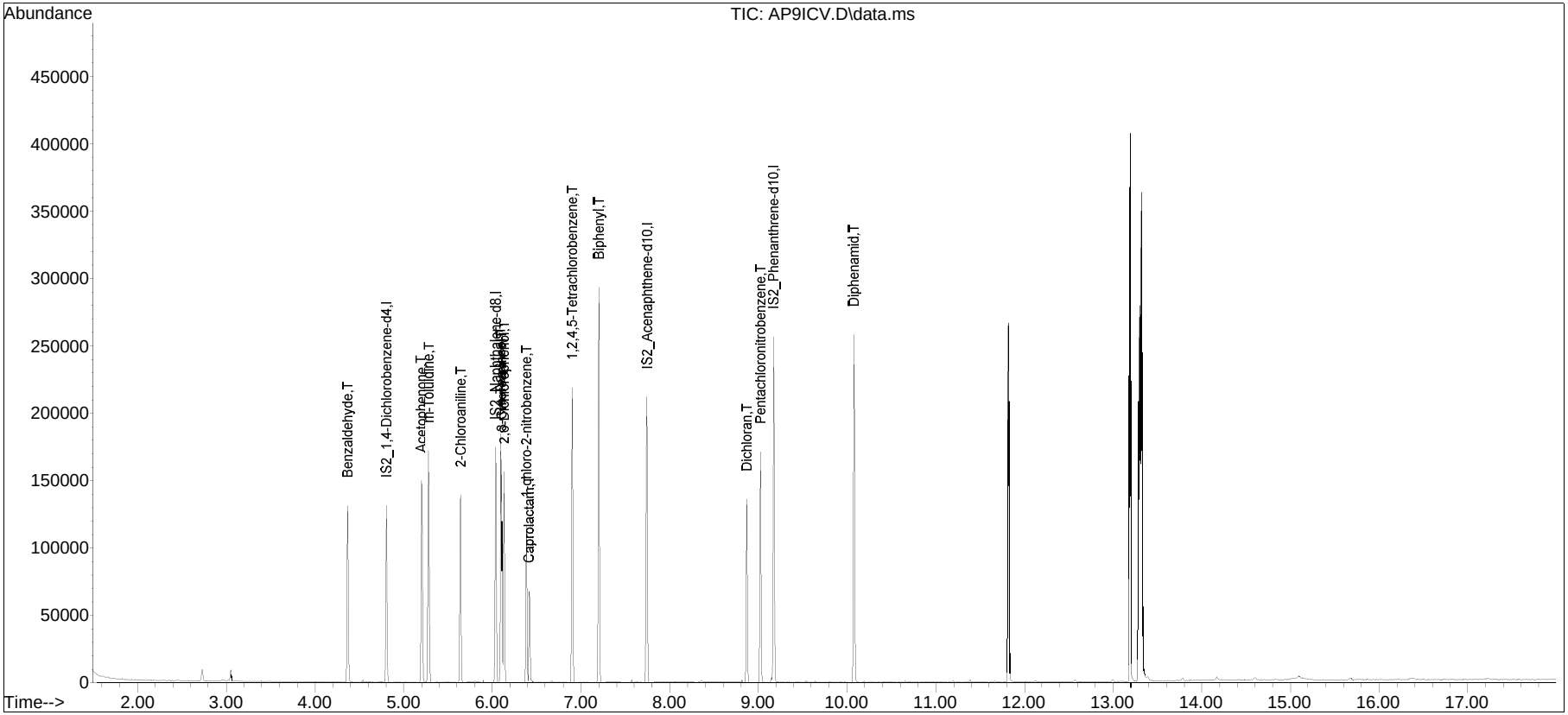
(#) = qualifier out of range (m) = manual integration (+) = signals summed

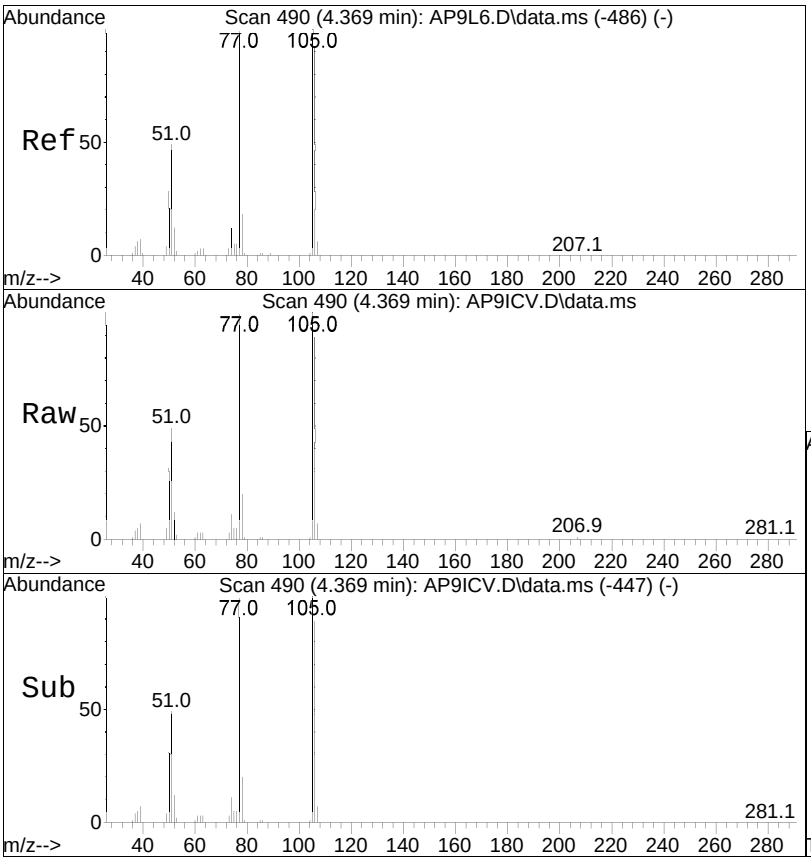
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9ICV.D
Acq On : 26 Jun 2024 03:39 am
Operator : SV112:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939943
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 30 14:37:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:25:57 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

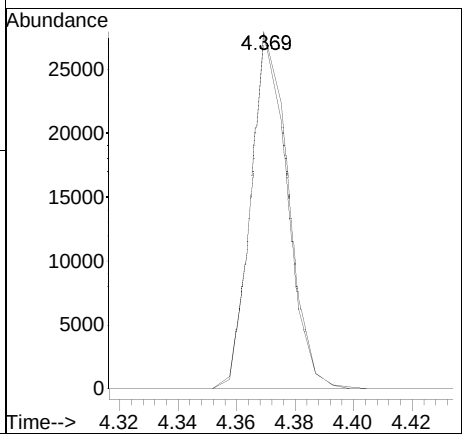


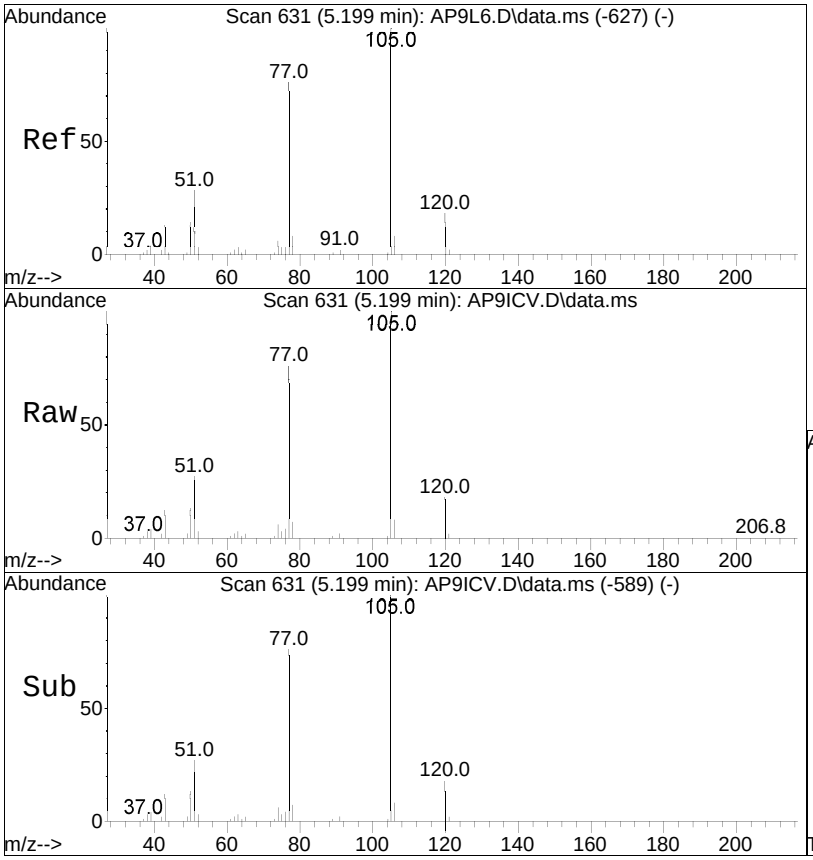


#28
Benzaldehyde
Concen: 4.64 ug/ml
RT: 4.369 min Scan# 490
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:105 Resp: 24722

Ion	Ratio	Lower	Upper
105	100		
77	97.2	77.0	115.6

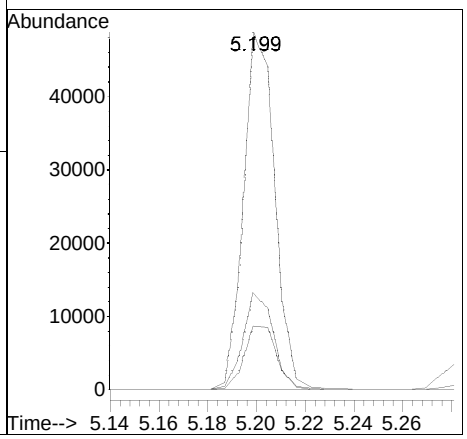


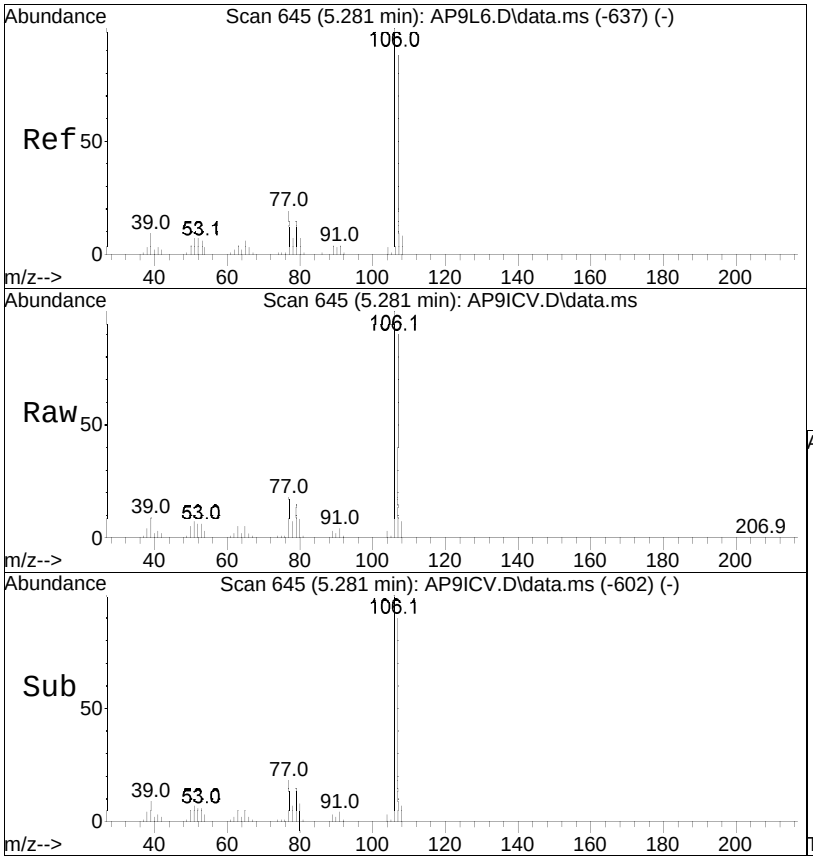


#29
Acetophenone
Concen: 4.64 ug/ml
RT: 5.199 min Scan# 631
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:105 Resp: 43034

Ion	Ratio	Lower	Upper
105	100		
120	18.5	15.2	22.8
51	26.4	23.1	34.7

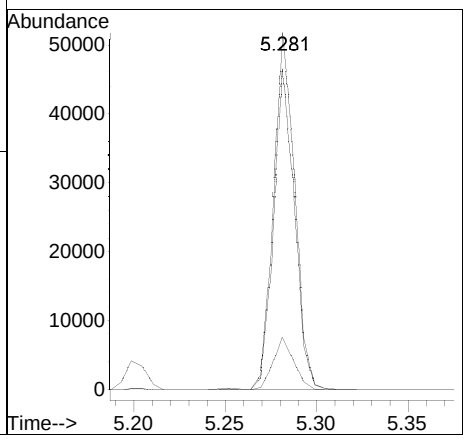


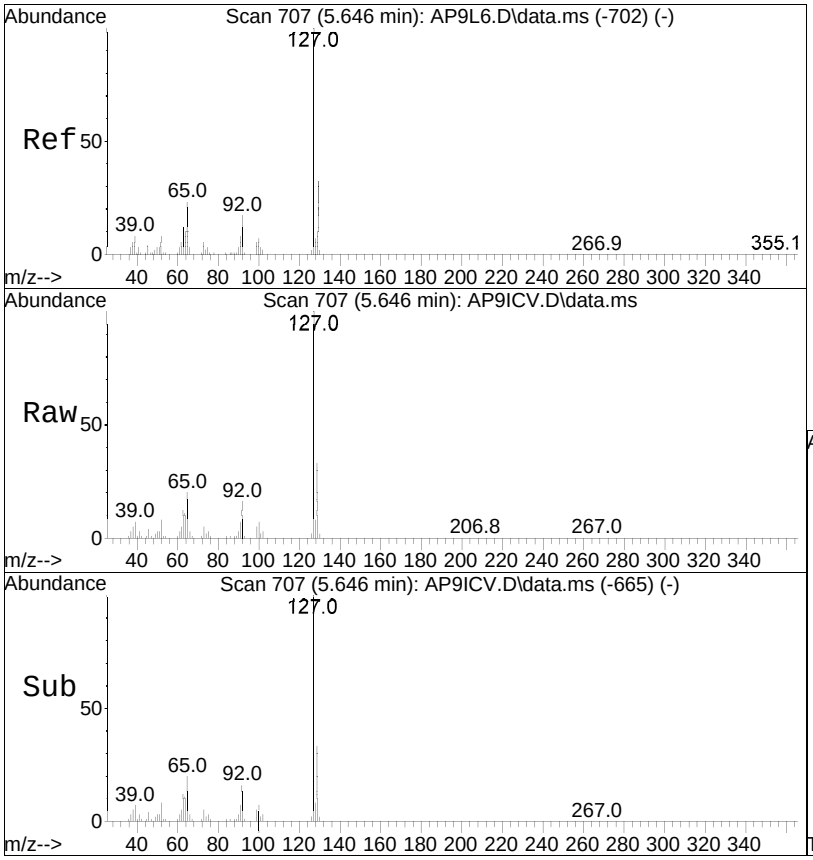


#30
m-Toluidine
Concen: 4.72 ug/ml
RT: 5.281 min Scan# 645
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:106 Resp: 42038

Ion	Ratio	Lower	Upper
106	100		
107	87.6	72.3	108.5
79	14.2	12.2	18.2

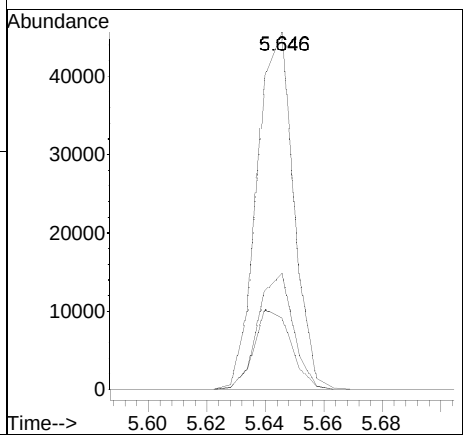


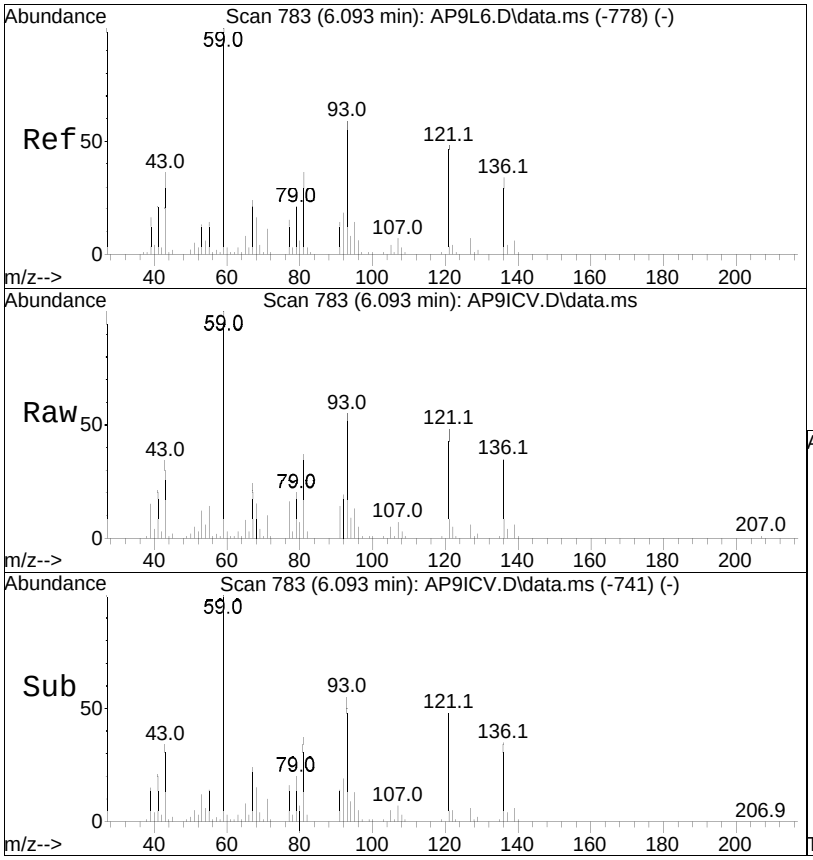


#31
2-Chloroaniline
Concen: 4.66 ug/ml
RT: 5.646 min Scan# 707
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:127 Resp: 39533

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.7	38.5
65	22.8	20.5	30.7

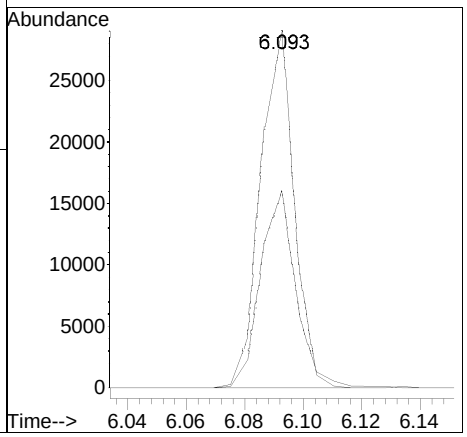


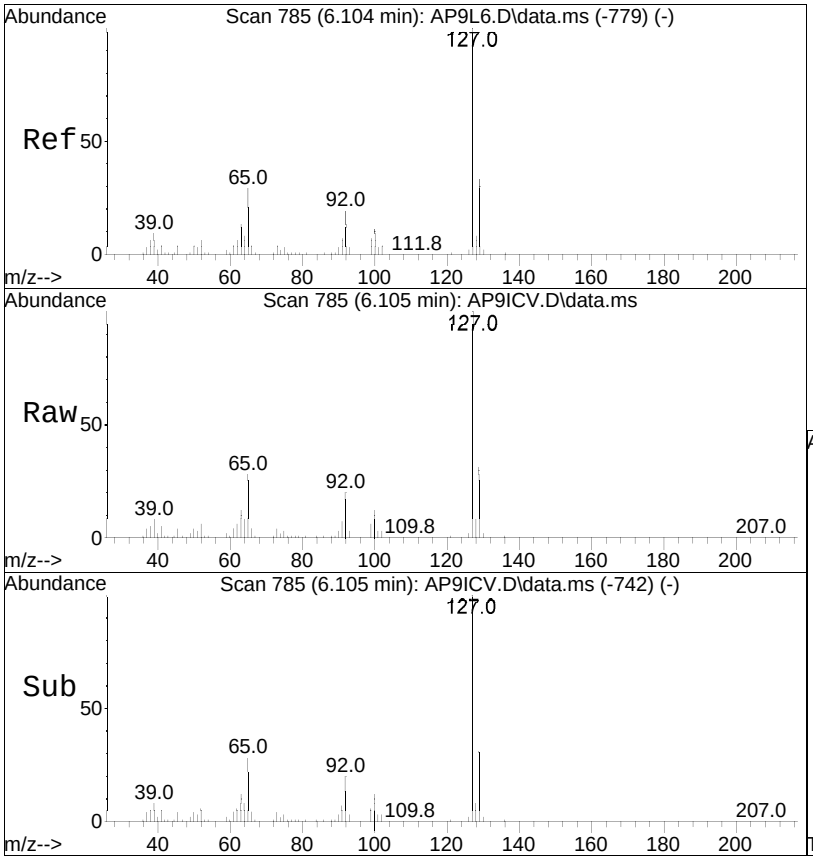


#56
a-Terpineol
Concen: 4.71 ug/ml
RT: 6.093 min Scan# 783
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion: 59 Resp: 23032

Ion	Ratio	Lower	Upper
59	100		
93	58.6	43.5	65.3

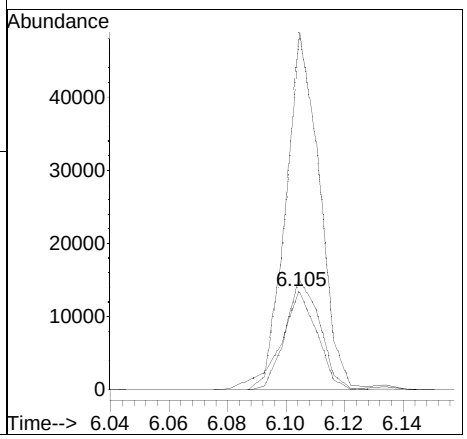


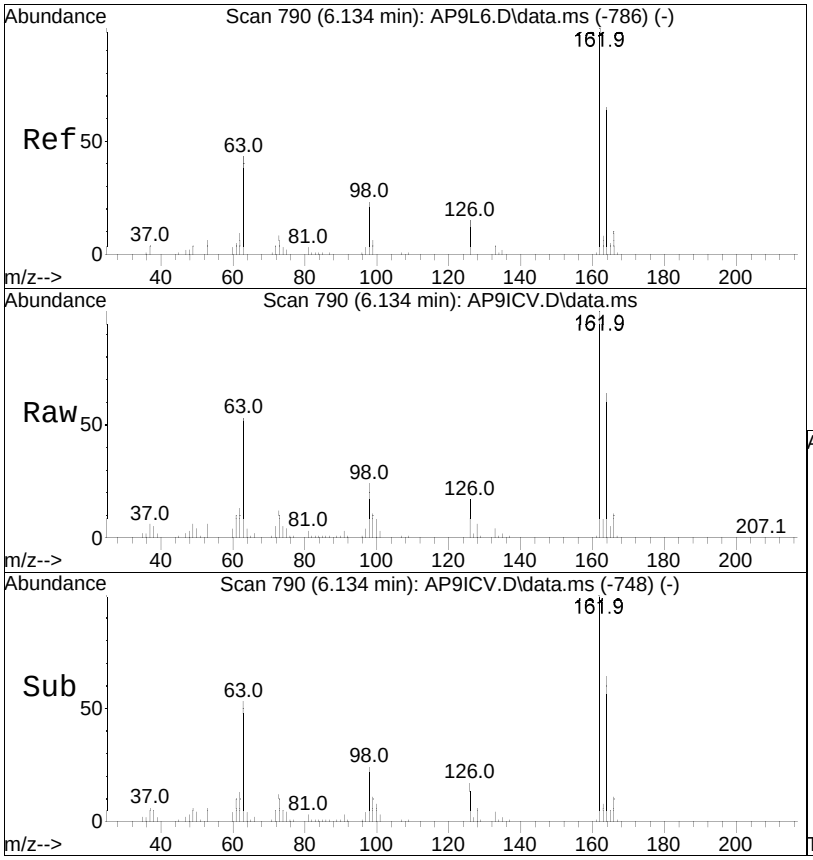


#57
3-Chloroaniline
Concen: 4.51 ug/ml
RT: 6.105 min Scan# 785
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion: 65 Resp: 11948

Ion	Ratio	Lower	Upper
65	100		
127	327.4	236.6	355.0
129	104.6	76.6	115.0

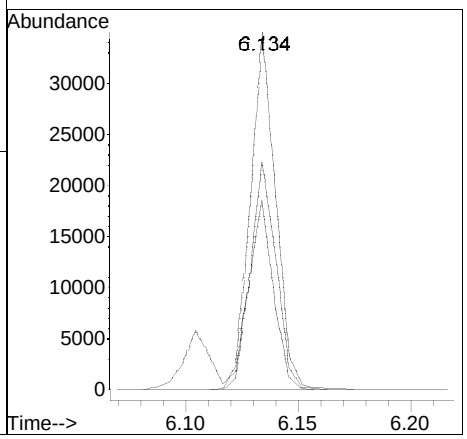


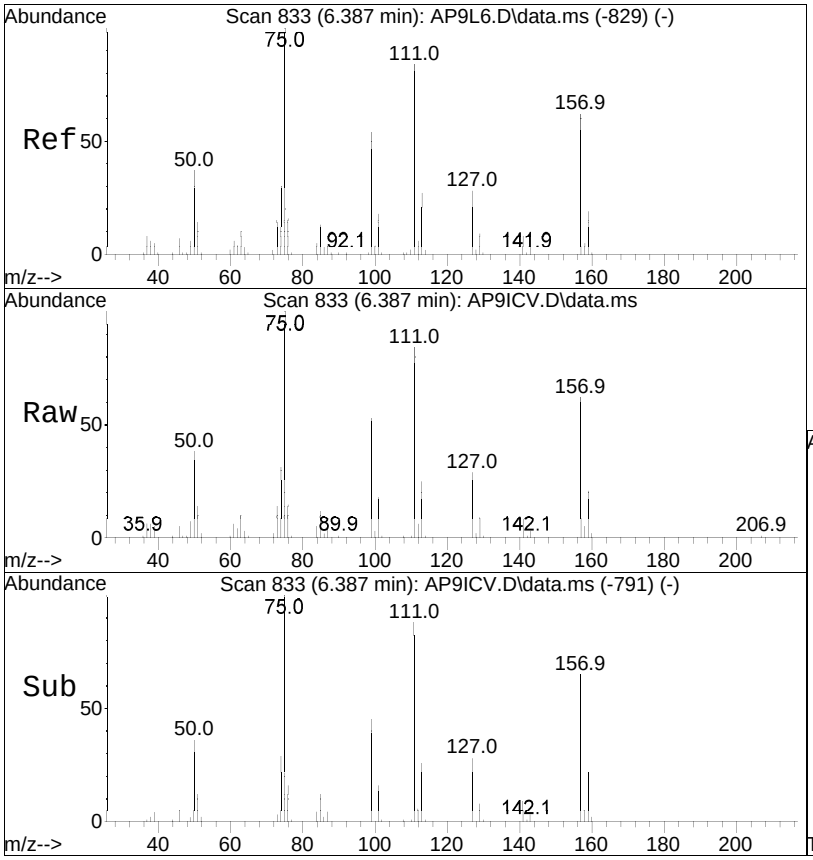


#58
2,6-Dichlorophenol
Concen: 4.76 ug/ml
RT: 6.134 min Scan# 790
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:162 Resp: 27335

Ion	Ratio	Lower	Upper
162	100		
164	64.1	50.8	76.2
63	52.1	53.6	80.4#

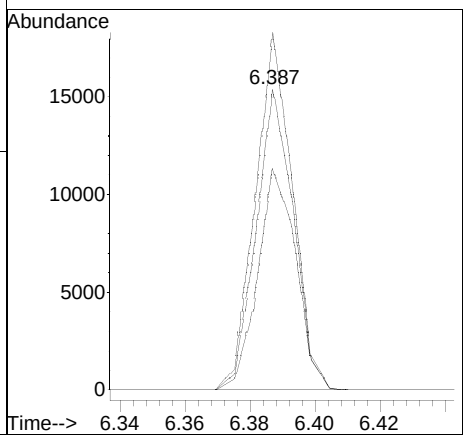


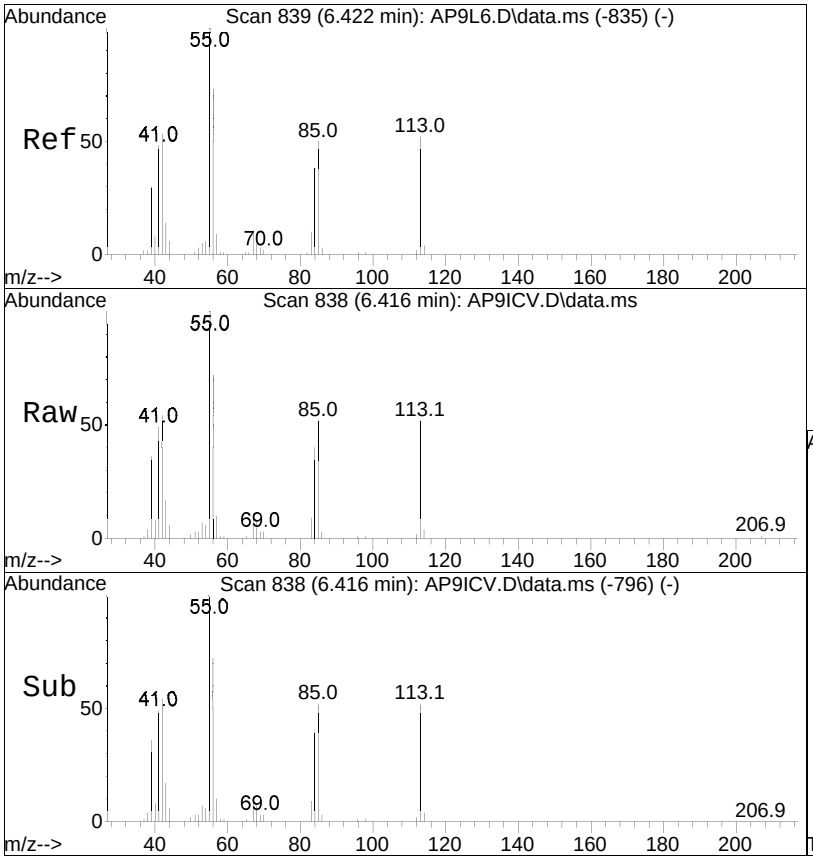


#59
1-chloro-2-nitrobenzene
Concen: 4.82 ug/ml
RT: 6.387 min Scan# 833
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:111 Resp: 12170

Ion	Ratio	Lower	Upper
111	100		
157	75.7	56.2	84.2
75	118.1	97.8	146.6

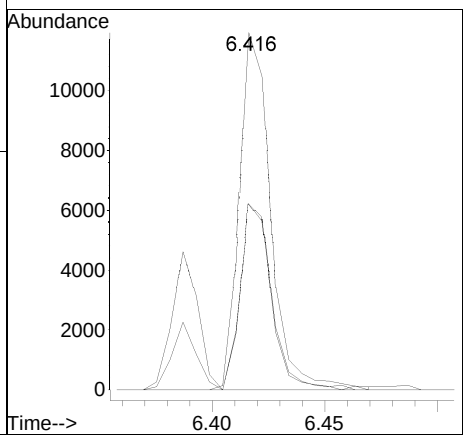


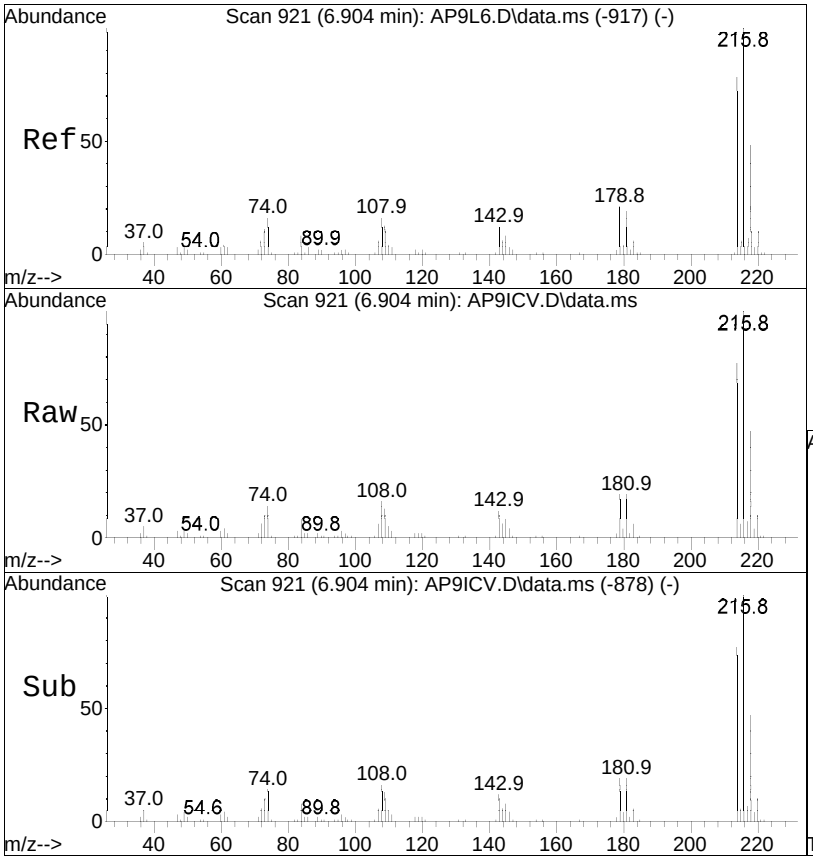


#60
Caprolactam
Concen: 4.06 ug/ml
RT: 6.416 min Scan# 838
Delta R.T. -0.006 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion: 55 Resp: 11582

Ion	Ratio	Lower	Upper
55	100		
85	51.5	35.2	52.8
113	52.5	36.6	55.0

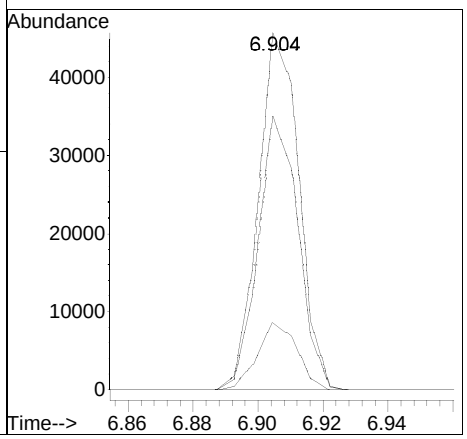


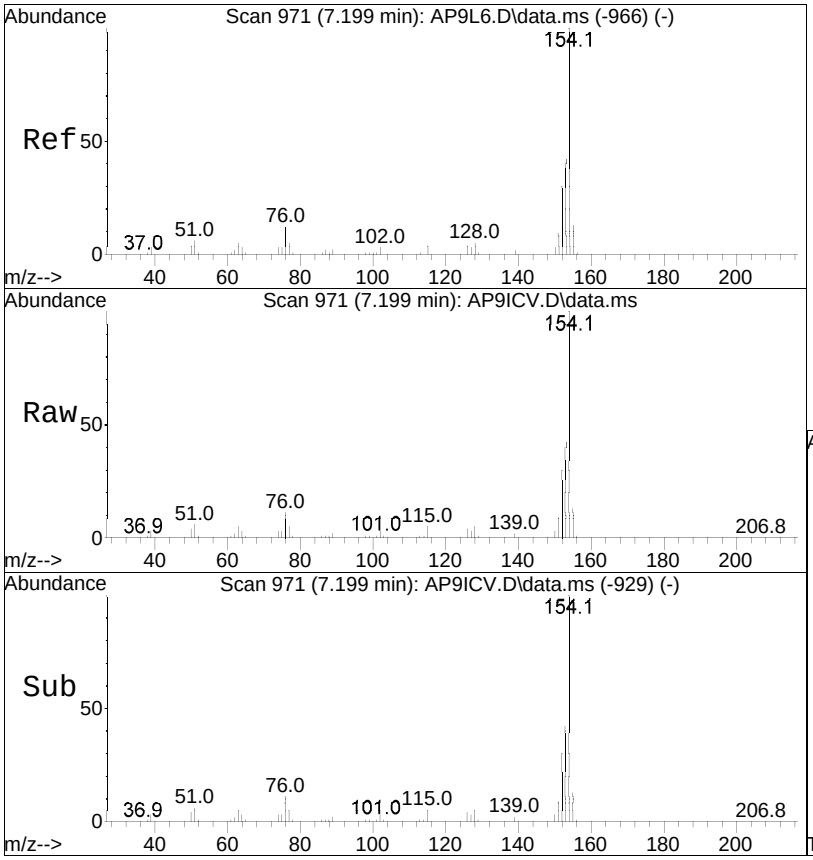


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.66 ug/ml
RT: 6.904 min Scan# 921
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:216 Resp: 39341

Ion	Ratio	Lower	Upper
216	100		
214	75.7	64.0	96.0
179	18.6	18.7	28.1#

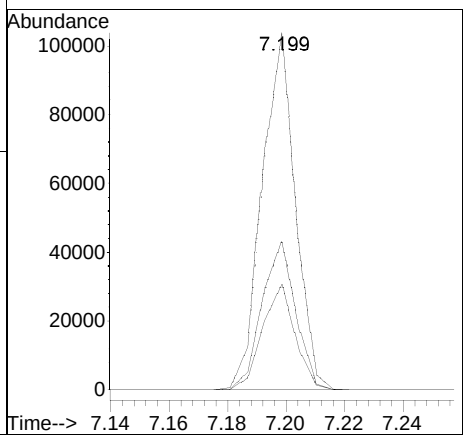


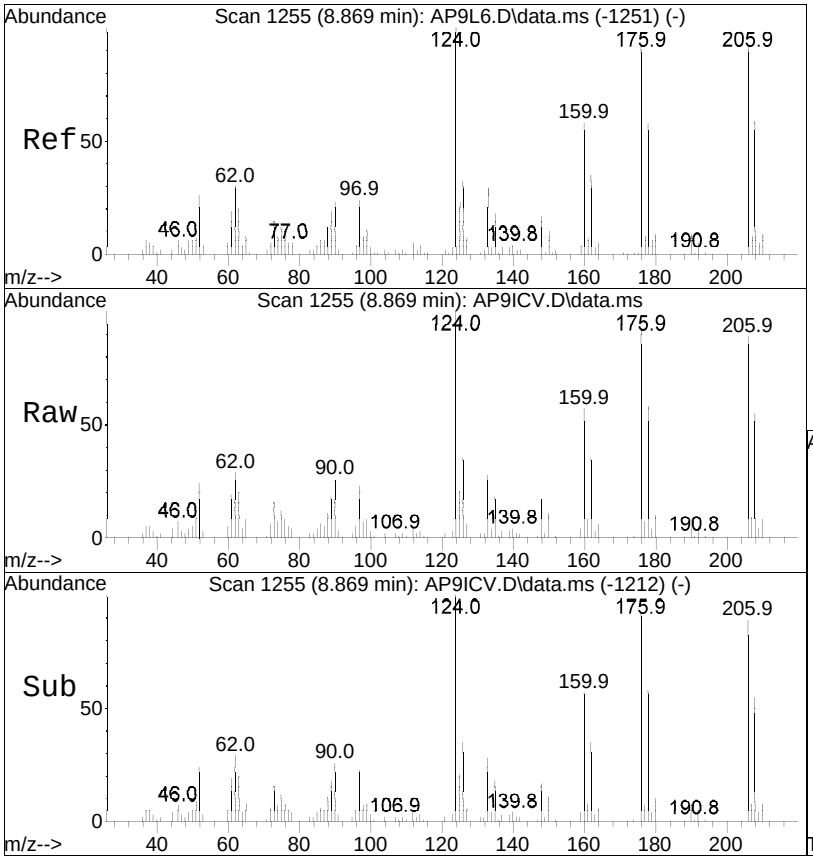


#62
Biphenyl
Concen: 4.48 ug/ml
RT: 7.199 min Scan# 971
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:154 Resp: 81125

Ion	Ratio	Lower	Upper
154	100		
153	42.3	32.5	48.7
152	29.3	22.6	34.0

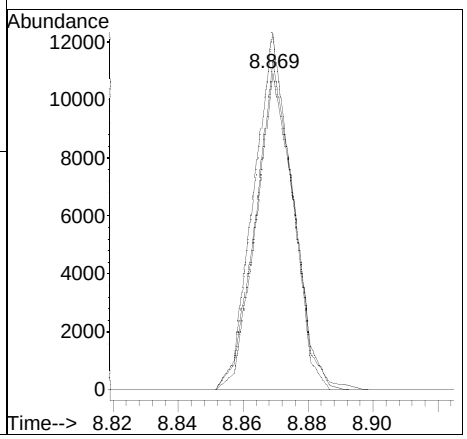


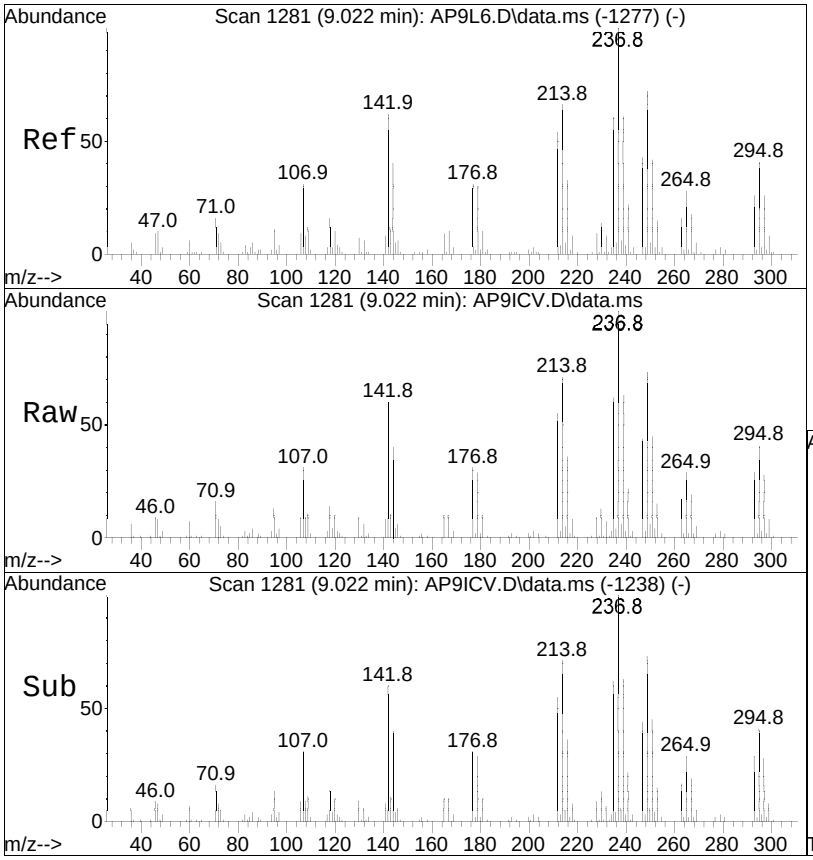


#84
Dichloran
Concen: 3.78 ug/ml
RT: 8.869 min Scan# 1255
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:206 Resp: 8814

Ion	Ratio	Lower	Upper
206	100		
176	104.9	98.8	148.2
124	111.6	125.8	188.6#

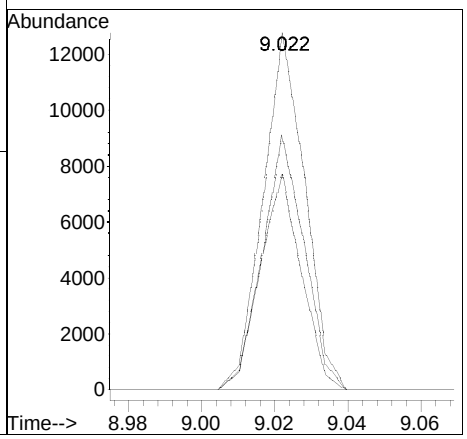


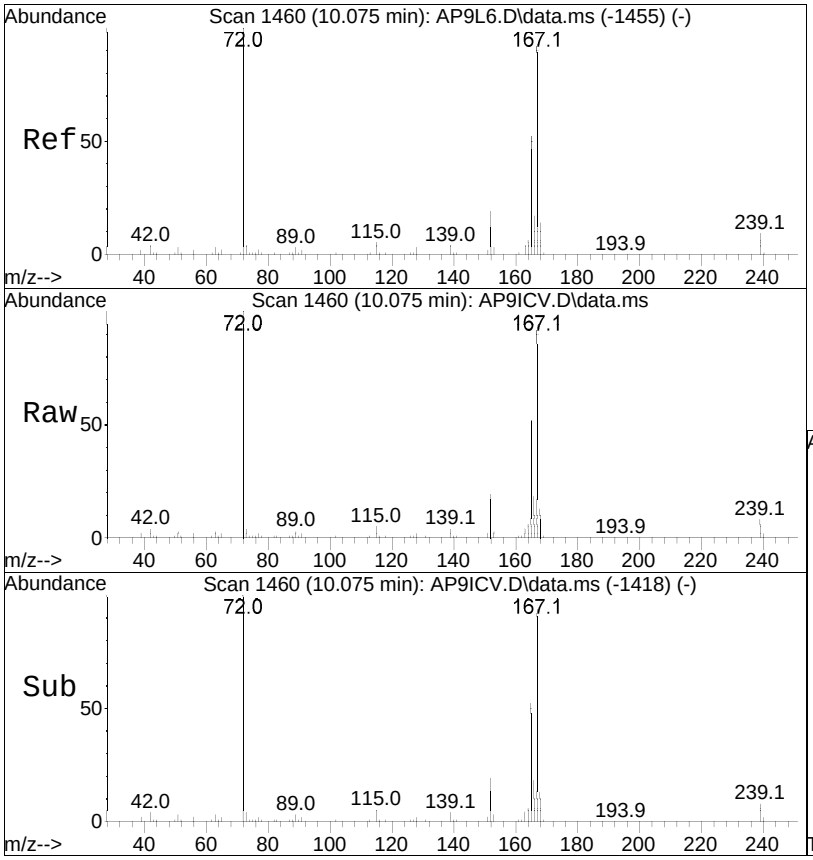


#85
Pentachloronitrobenzene
Concen: 4.08 ug/ml
RT: 9.022 min Scan# 1281
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:237 Resp: 10155

Ion	Ratio	Lower	Upper
237	100		
142	60.0	70.3	105.5#
214	70.9	59.4	89.2

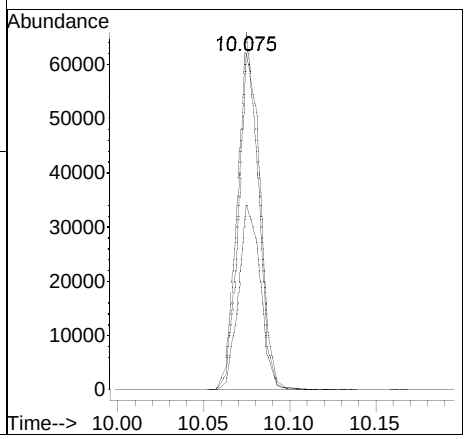




#99
Diphenamid
Concen: 4.49 ug/ml
RT: 10.075 min Scan# 1460
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:167 Resp: 54038

Ion	Ratio	Lower	Upper
167	100		
72	100.8	98.9	148.3
165	55.3	40.4	60.6



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9ICV.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 3:39 am	Instrument	: SV112
Sample	: CQICV2,32,,AP9ICV Lot# 108	Quant Date	: 6/30/2024 2:38 pm

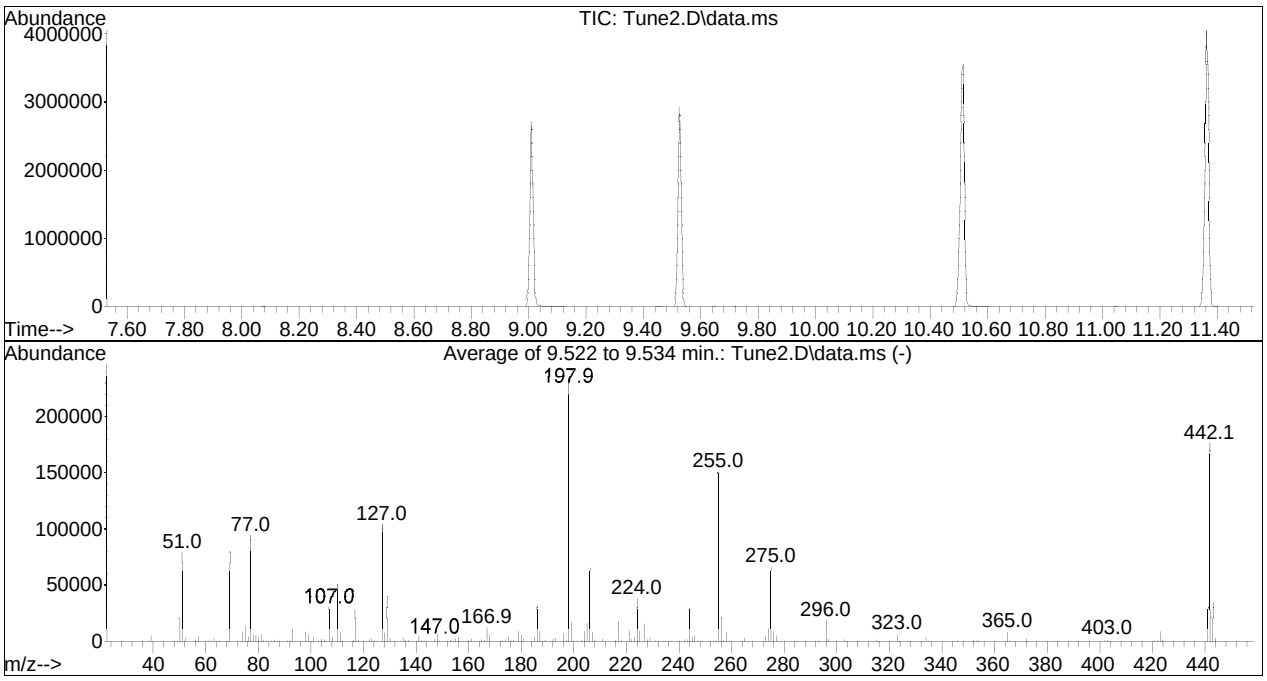
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune2.D
Acq On : 26 Jun 2024 04:02 am
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 26 21:26:04 2024



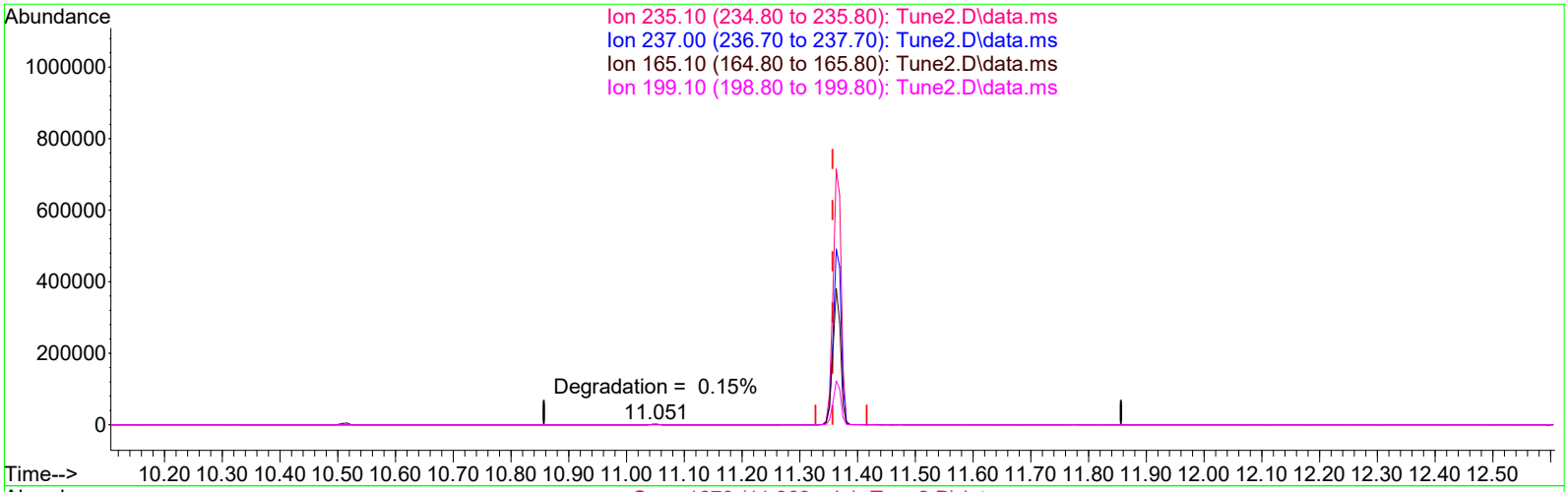
Spectrum Information: Average of 9.522 to 9.534 min.

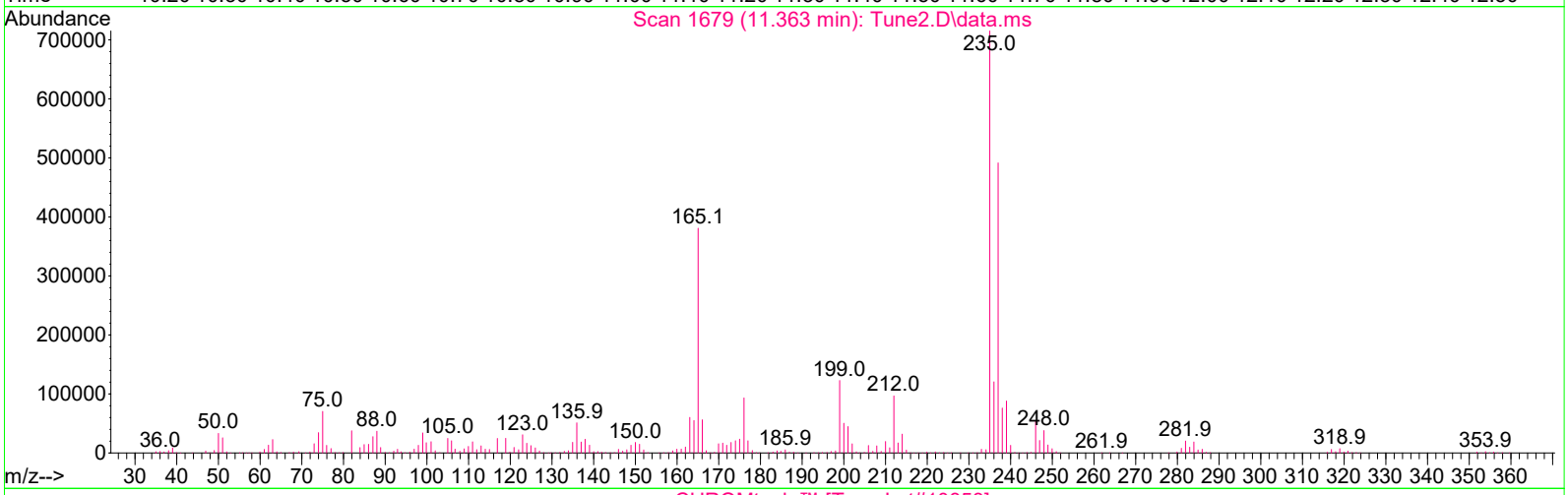
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.5	78592	PASS
68	69	0.00	2	1.6	1239	PASS
69	69	100	100	100.0	79691	PASS
70	69	0.00	2	0.5	407	PASS
127	198	10	80	44.2	103691	PASS
197	198	0.00	2	0.7	1726	PASS
198	198	100	100	100.0	234816	PASS
199	198	5	9	7.1	16749	PASS
275	198	10	60	28.0	65861	PASS
365	198	1	100	3.5	8174	PASS
441	442	0.01	24	17.2	30328	PASS
442	198	50	100	74.9	175909	PASS
443	442	15	24	19.9	34941	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune2.D
Acq On : 26 Jun 2024 04:02 am
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:46:11 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(6) DDT (T)

11.363min (+ 0.006) 115.23

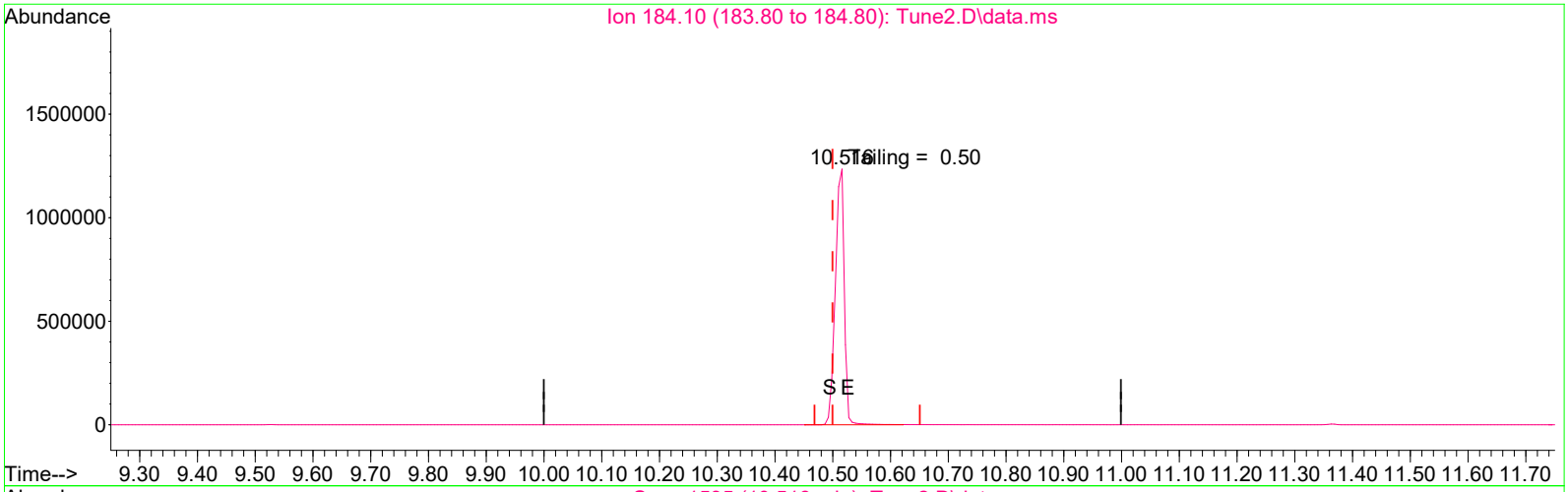
response 702426

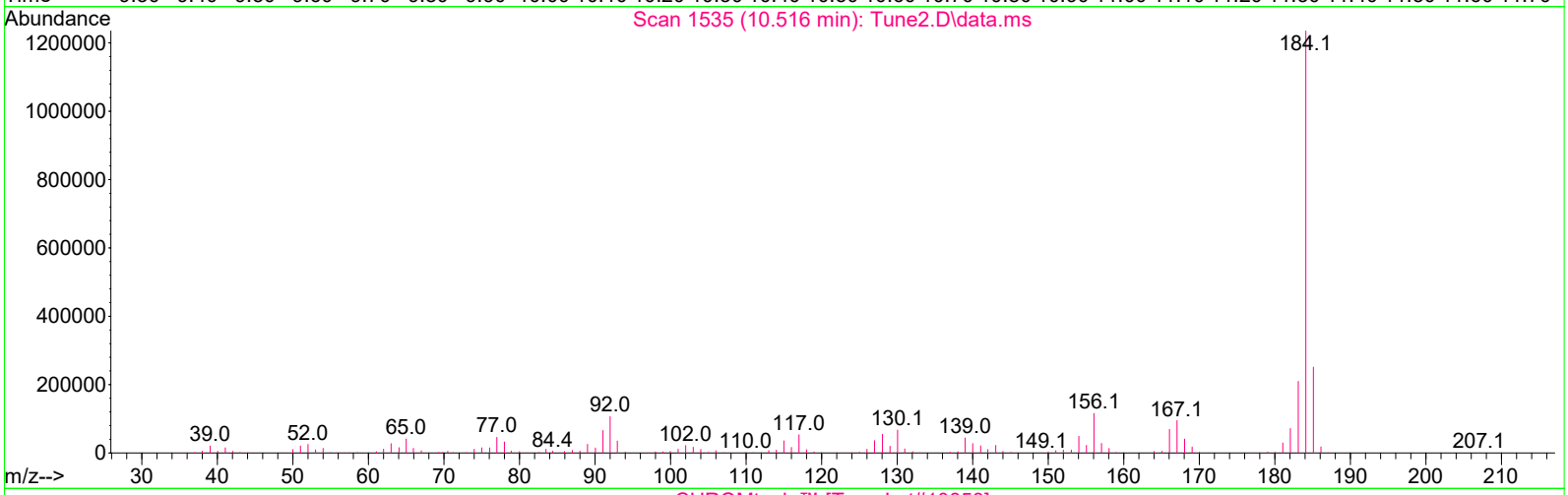
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	67.60
165.10	42.20	49.55
199.10	13.70	16.21

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune2.D
Acq On : 26 Jun 2024 04:02 am
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:46:11 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(3) Benzidine (T)

10.516min (+ 0.016) 131.09

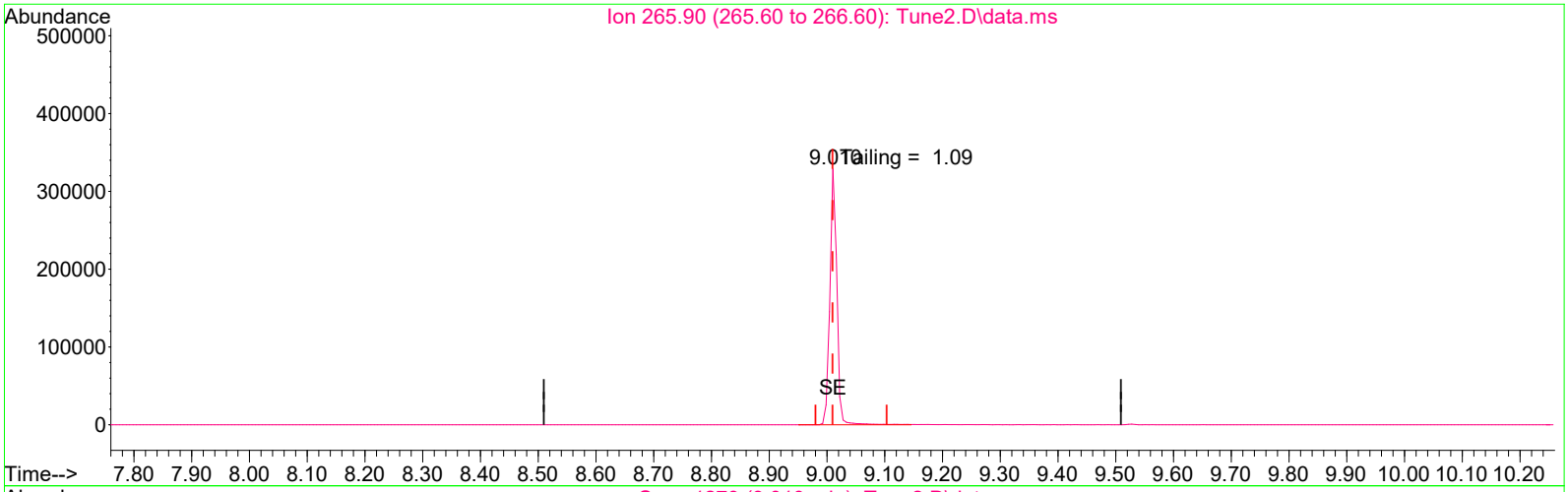
response 1334527

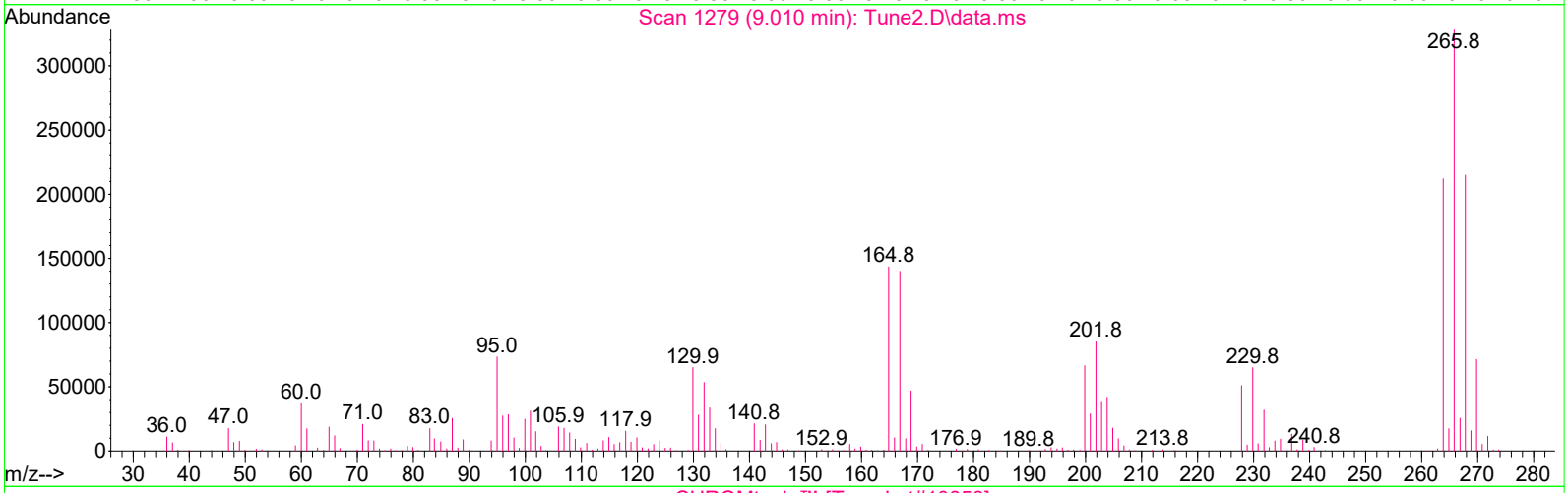
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune2.D
Acq On : 26 Jun 2024 04:02 am
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:46:11 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(1) Pentachlorophenol (T)

9.010min (+ 0.000) 130.93

response 275000

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Duplicate Retention Times

(5) DDD 235.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL9.D
Acq On : 26 Jun 2024 04:25 am
Operator : SV112:mrg
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1939943
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 06:26:12 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	20470	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	101.39%		
86) IS3_Acenaphthene-d10	7.746	164	50851	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	112.78%		
100) IS3_Phenanthrene-d10	9.175	188	124157	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	115.03%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.887	88	109040	45.293	ug/ml	90
34) n-Decane	4.693	57	294067	50.165	ug/ml#	94
87) Atrazine	8.952	200	328196	58.499	ug/ml	96
101) n-Octadecane	9.146	57	550946	56.408	ug/ml	90
102) Parathion	9.963	109	189120	49.698	ug/ml#	90
103) 3,3'-Dimethylbenzidine	11.257	212	1251144	49.001	ug/ml#	90

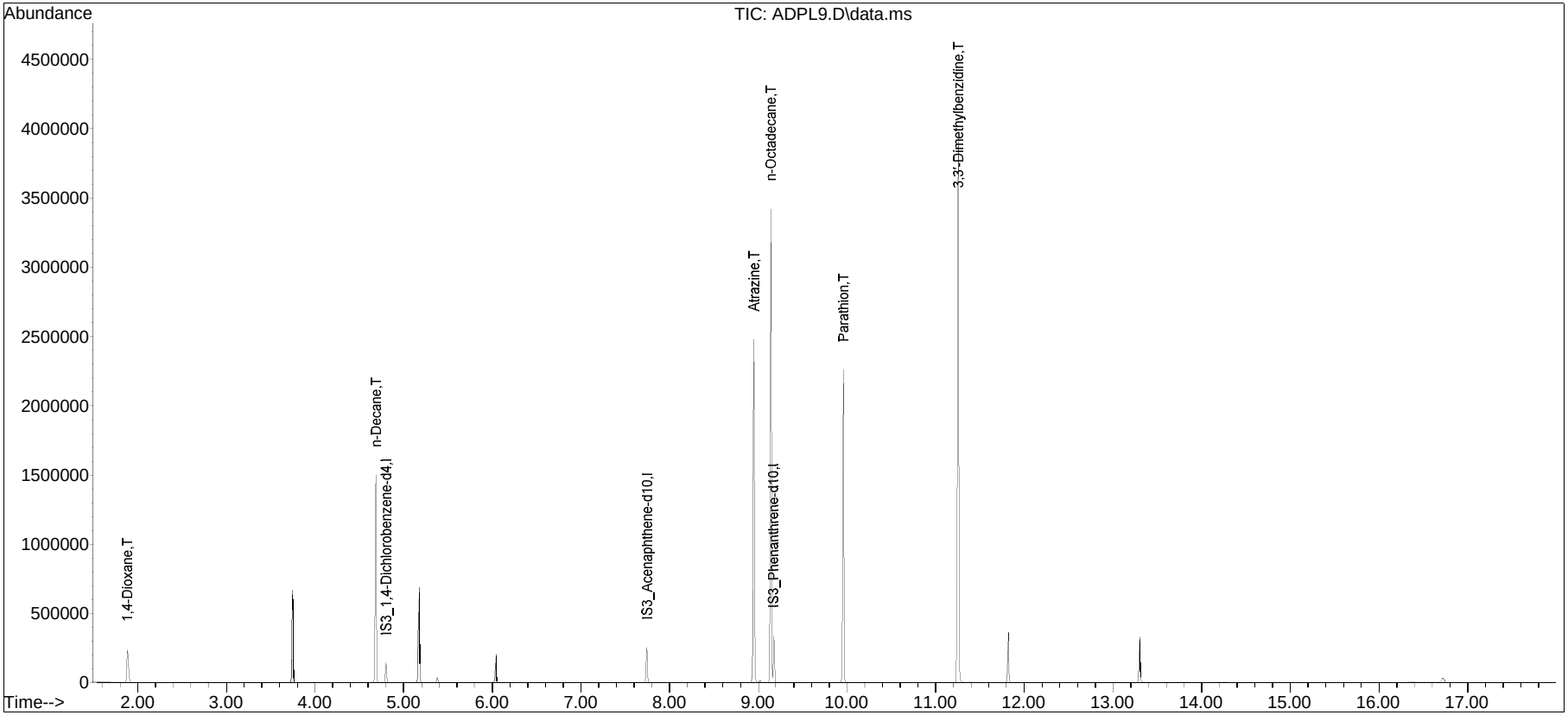
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL9.D
Acq On : 26 Jun 2024 04:25 am
Operator : SV112:mrg
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1939943
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 06:26:12 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL9.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 4:25 am	Instrument	: SV112
Sample	: IL2,32,,ADPL50 Lot# 10796	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL8.D
Acq On : 26 Jun 2024 04:48 am
Operator : SV112:mrg
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1939943
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 01 06:26:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

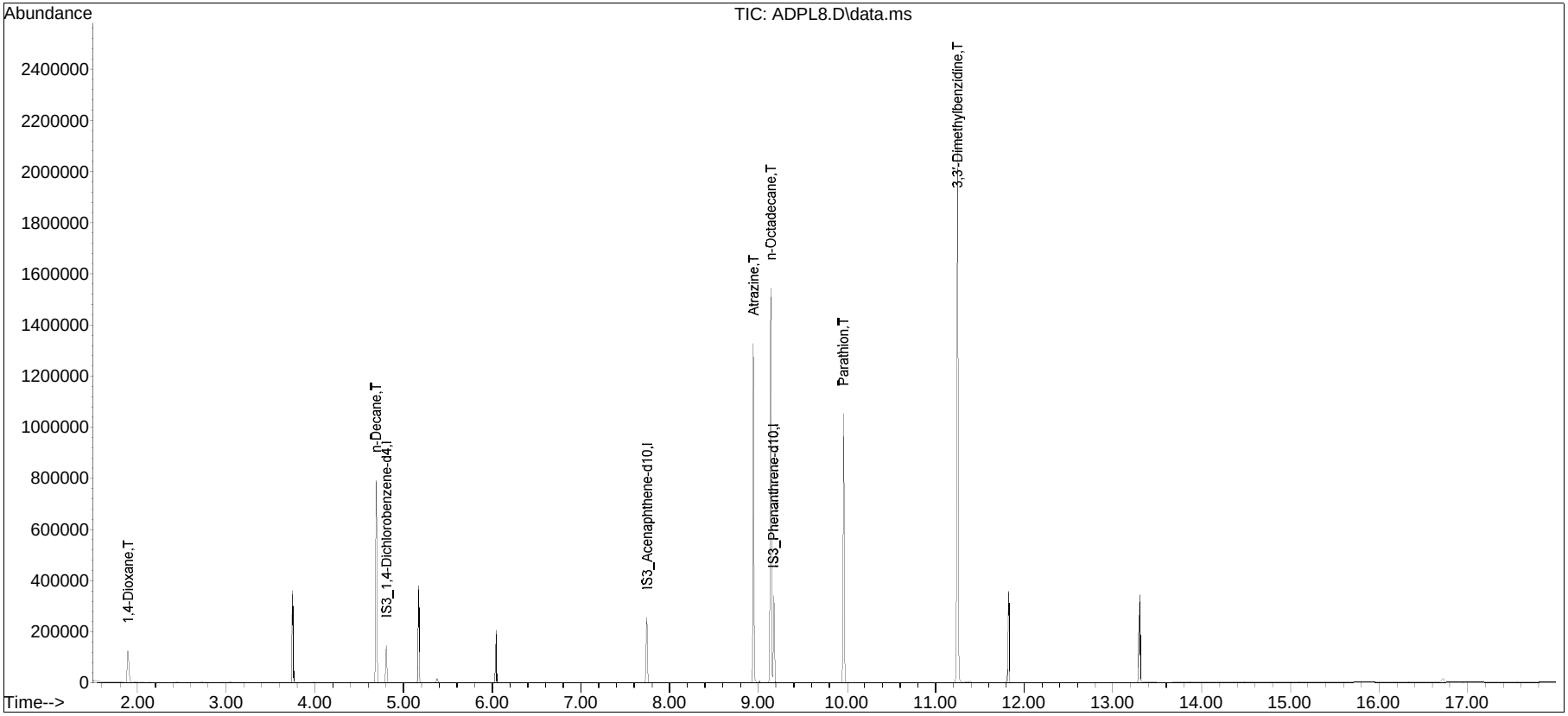
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	21763	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	107.80%		
86) IS3_Acenaphthene-d10	7.746	164	50588	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	112.20%		
100) IS3_Phenanthrene-d10	9.175	188	124301	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	115.16%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.893	88	57618	22.511	ug/ml#	88
34) n-Decane	4.687	57	155787	24.997	ug/ml	95
87) Atrazine	8.946	200	161042	28.854	ug/ml	97
101) n-Octadecane	9.146	57	271632	27.778	ug/ml	90
102) Parathion	9.957	109	84556	25.768	ug/ml#	89
103) 3,3'-Dimethylbenzidine	11.251	212	666158	26.154	ug/ml	95

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL8.D
Acq On : 26 Jun 2024 04:48 am
Operator : SV112:mrg
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1939943
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 01 06:26:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL8.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 4:48 am	Instrument	: SV112
Sample	: IL3,32,,ADPL25 Lot# 10797	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL7.D
Acq On : 26 Jun 2024 05:11 am
Operator : SV112:mrg
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1939943
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 06:25:49 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

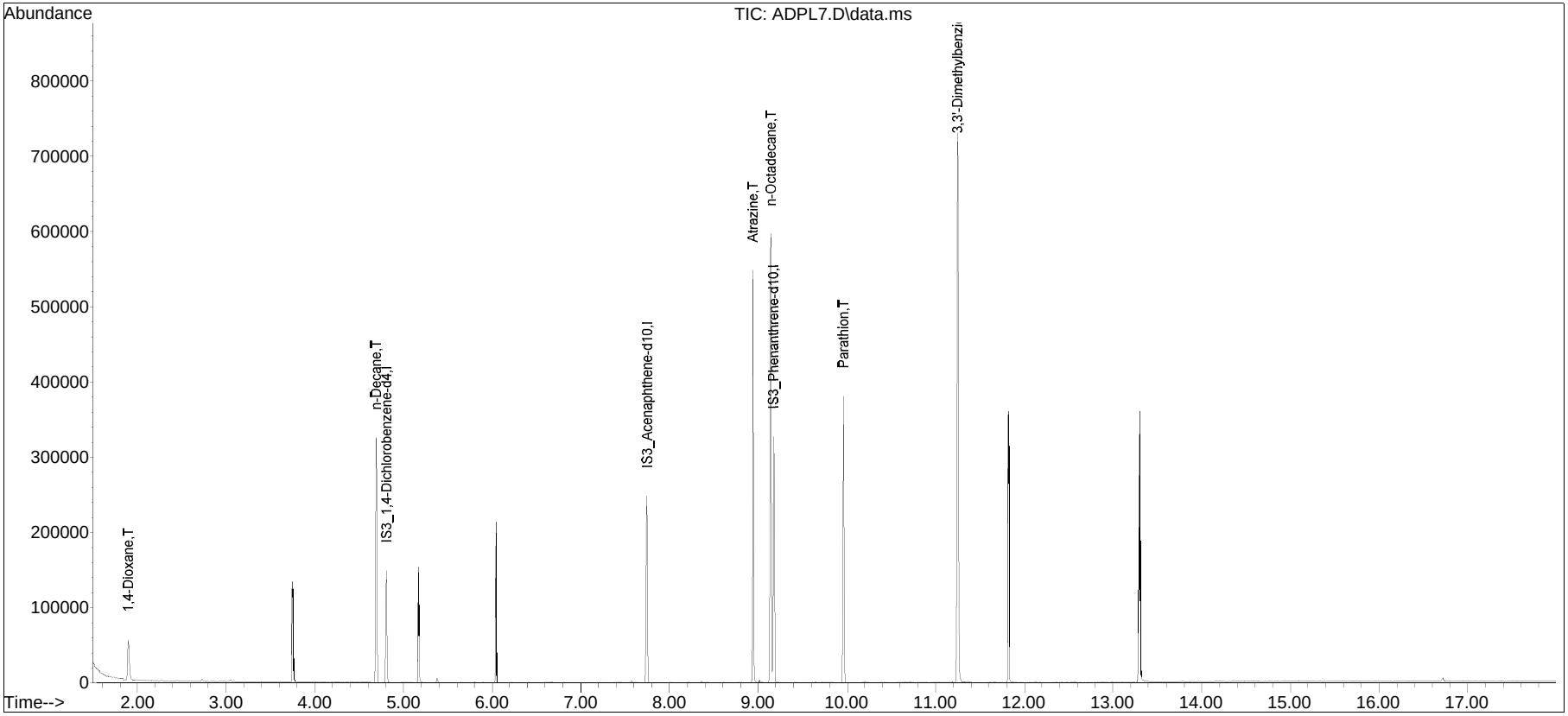
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
32)	IS3_1,4-Dichlorobenzen...	4.805	152	22184	4.000	ug/ml		0.00
	Standard Area 1 = 20189			Recovery =	109.88%			
86)	IS3_Acenaphthene-d10	7.746	164	50265	4.000	ug/ml		0.00
	Standard Area 1 = 45088			Recovery =	111.48%			
100)	IS3_Phenanthrene-d10	9.175	188	122217	4.000	ug/ml	#	0.00
	Standard Area 1 = 107936			Recovery =	113.23%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	1.893	88	24860	9.528	ug/ml		89
34)	n-Decane	4.687	57	66035	10.395	ug/ml#		94
87)	Atrazine	8.940	200	63534	11.457	ug/ml		98
101)	n-Octadecane	9.145	57	109359	11.374	ug/ml		91
102)	Parathion	9.957	109	30072	10.443	ug/ml#		89
103)	3,3'-Dimethylbenzidine	11.251	212	264248	10.671	ug/ml		98

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL7.D
Acq On : 26 Jun 2024 05:11 am
Operator : SV112:mrg
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1939943
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 06:25:49 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL7.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 5:11 am	Instrument	: SV112
Sample	: IL4,32,,ADPL10 Lot# 10798	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL6.D
Acq On : 26 Jun 2024 05:35 am
Operator : SV112:mrg
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1939943
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 01 06:25:38 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

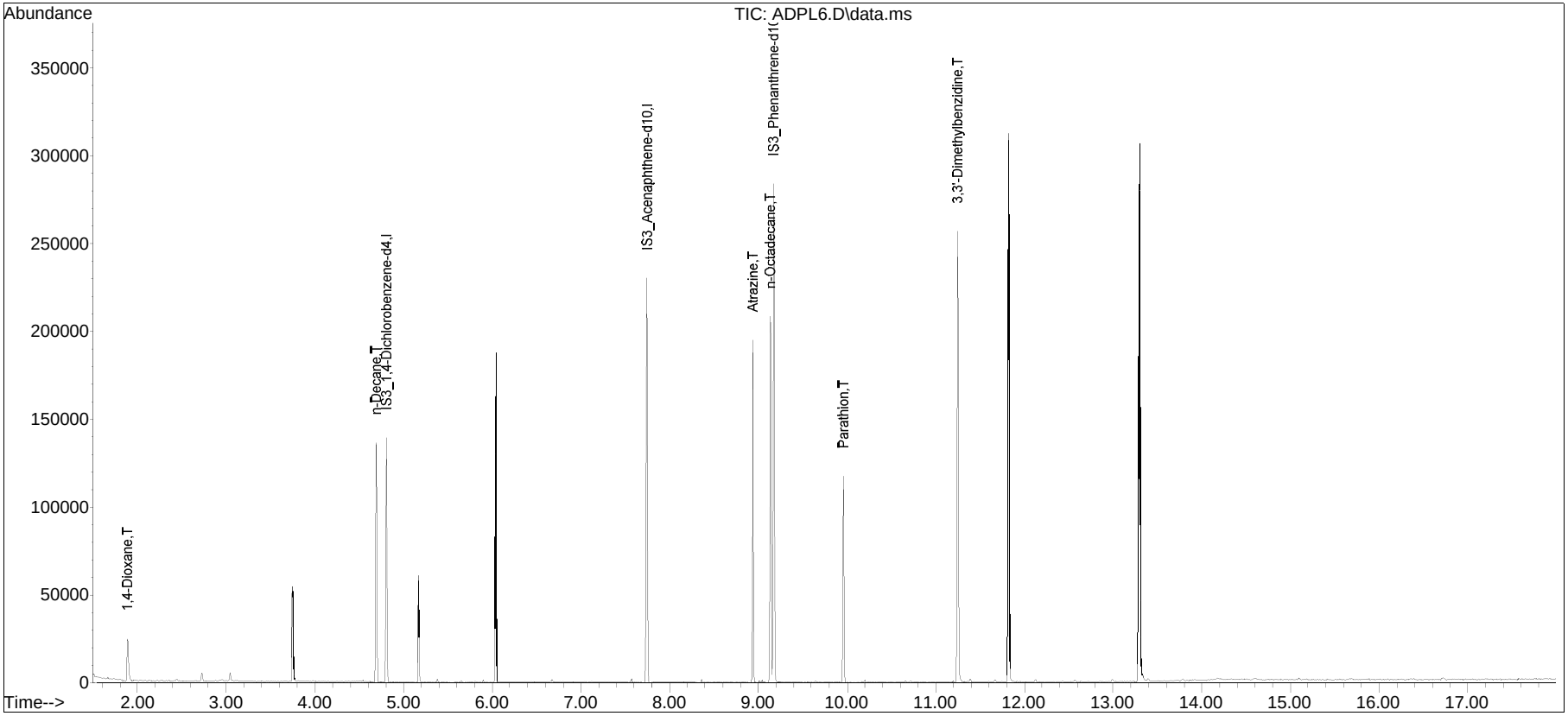
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	20189	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	100.00%		
86) IS3_Acenaphthene-d10	7.746	164	45088	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	100.00%		
100) IS3_Phenanthrene-d10	9.175	188	107936	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.887	88	10485	4.416	ug/ml	92
34) n-Decane	4.687	57	26759	4.628	ug/ml#	95
87) Atrazine	8.940	200	22386	4.500	ug/ml	95
101) n-Octadecane	9.140	57	37722	4.443	ug/ml	90
102) Parathion	9.957	109	9947	4.172	ug/ml#	87
103) 3,3'-Dimethylbenzidine	11.245	212	91256	4.295	ug/ml	99

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL6.D
Acq On : 26 Jun 2024 05:35 am
Operator : SV112:mrg
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1939943
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 01 06:25:38 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL6.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 5:35 am	Instrument	: SV112
Sample	: IL5,32,,ADPL5 Lot# 10799	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL5.D
Acq On : 26 Jun 2024 05:58 am
Operator : SV112:mrg
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1939943
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 01 06:25:27 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

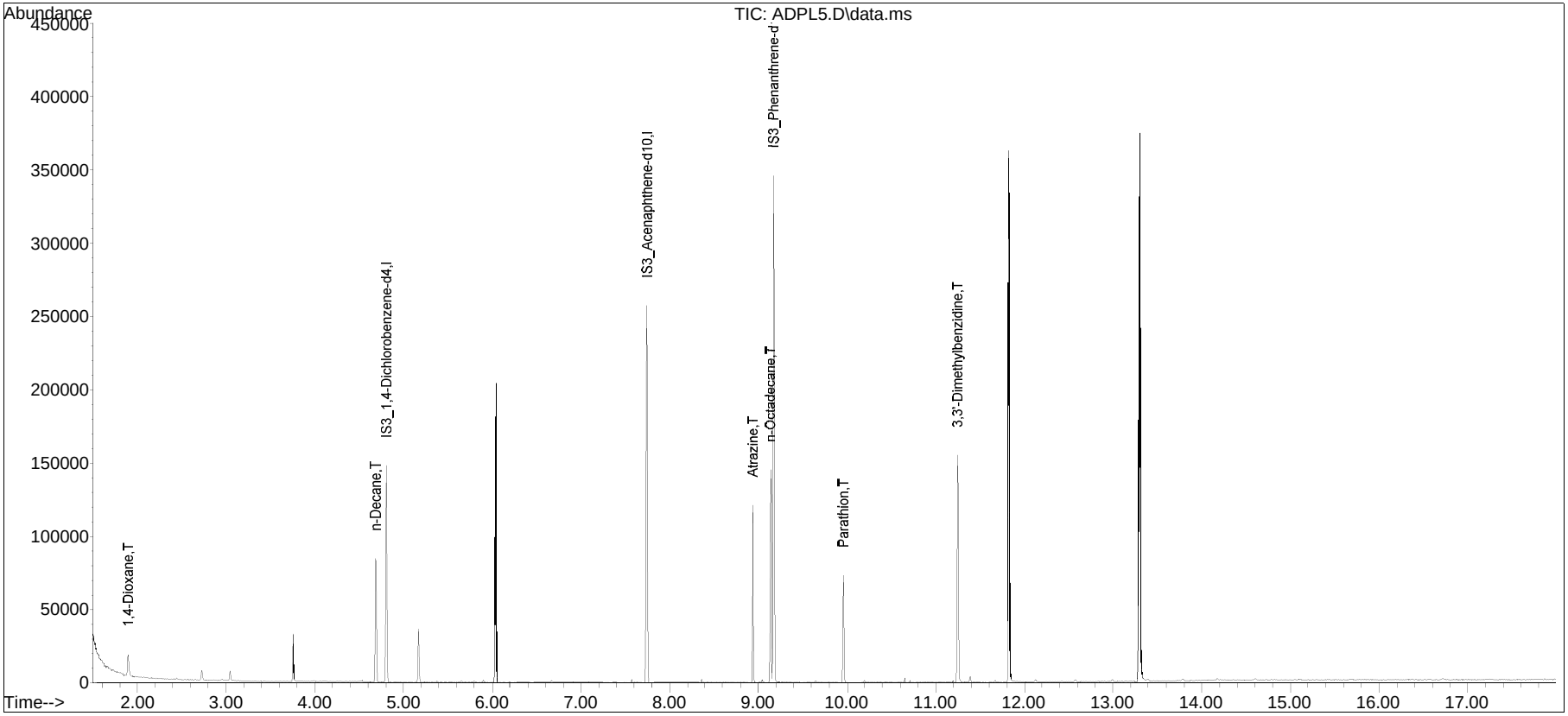
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
32)	IS3_1,4-Dichlorobenzen...	4.805	152	22831	4.000	ug/ml		0.00
	Standard Area 1 = 20189			Recovery =	113.09%			
86)	IS3_Acenaphthene-d10	7.746	164	52224	4.000	ug/ml		0.00
	Standard Area 1 = 45088			Recovery =	115.83%			
100)	IS3_Phenanthrene-d10	9.175	188	128613	4.000	ug/ml	#	0.00
	Standard Area 1 = 107936			Recovery =	119.16%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	1.893	88	6660	2.480	ug/ml		94
34)	n-Decane	4.687	57	16085	2.460	ug/ml	#	94
87)	Atrazine	8.940	200	14680	2.548	ug/ml		97
101)	n-Octadecane	9.140	57	25638	2.534	ug/ml		91
102)	Parathion	9.957	109	6159	2.256	ug/ml	#	85
103)	3,3'-Dimethylbenzidine	11.246	212	56264	2.319	ug/ml		98

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL5.D
Acq On : 26 Jun 2024 05:58 am
Operator : SV112:mrg
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1939943
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 01 06:25:27 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL5.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 5:58 am	Instrument	: SV112
Sample	: IL6,32,,ADPL2.5 Lot# 10800	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL4.D
Acq On : 26 Jun 2024 06:21 am
Operator : SV112:mrg
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1939943
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:25:16 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
32)	IS3_1,4-Dichlorobenzen...	4.805	152	19329	4.000	ug/ml		0.00
	Standard Area 1 = 20189			Recovery =	95.74%			
86)	IS3_Acenaphthene-d10	7.746	164	44400	4.000	ug/ml		0.00
	Standard Area 1 = 45088			Recovery =	98.47%			
100)	IS3_Phenanthrene-d10	9.175	188	106041	4.000	ug/ml	#	0.00
	Standard Area 1 = 107936			Recovery =	98.24%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	1.893	88	2741M6	1.206	ug/ml		
34)	n-Decane	4.687	57	6064	1.096	ug/ml		95
87)	Atrazine	8.940	200	5191	1.060	ug/ml		96
101)	n-Octadecane	9.140	57	8435	1.011	ug/ml		91
102)	Parathion	9.957	109	2128	1.022	ug/ml	#	90
103)	3,3'-Dimethylbenzidine	11.245	212	17509	1.000	ug/ml		98

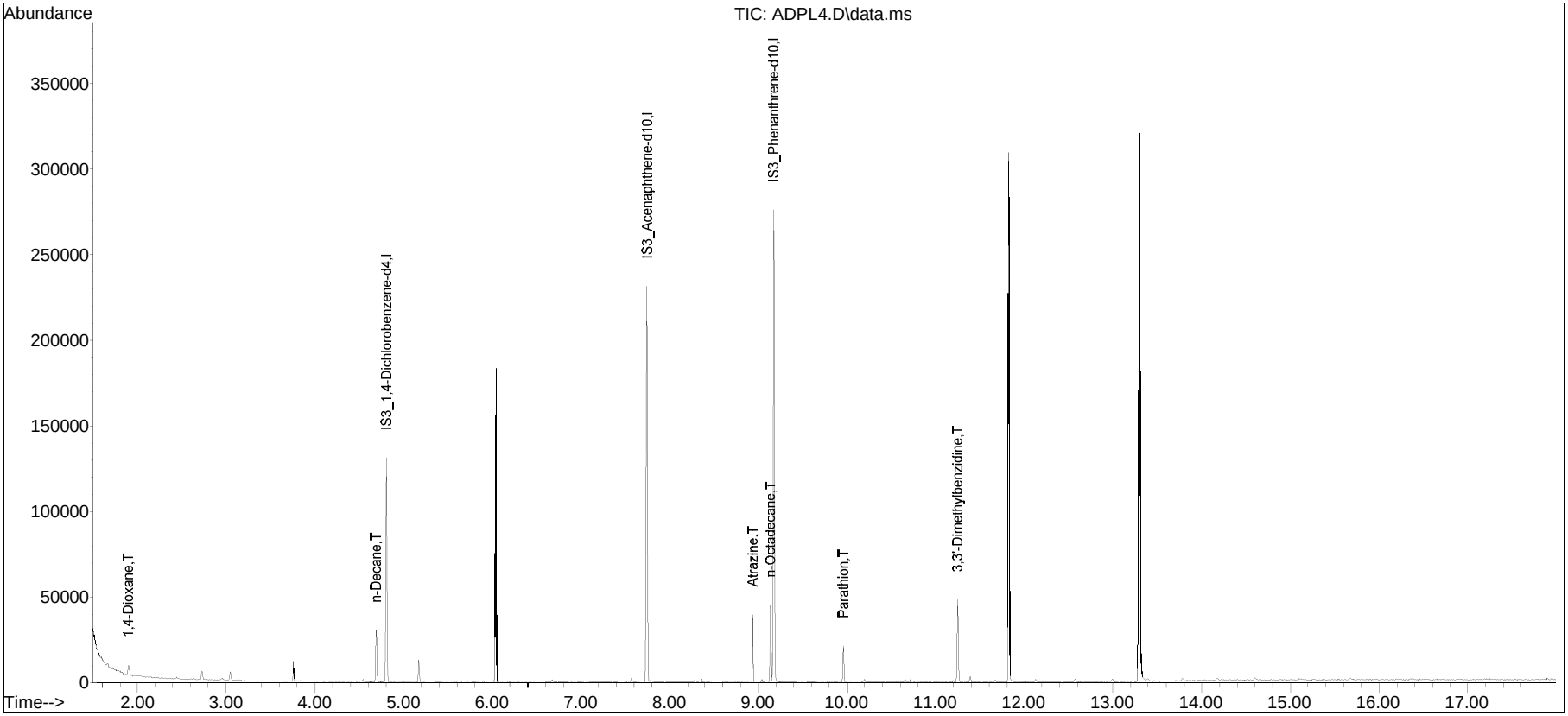
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL4.D
Acq On : 26 Jun 2024 06:21 am
Operator : SV112:mrg
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1939943
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:25:16 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

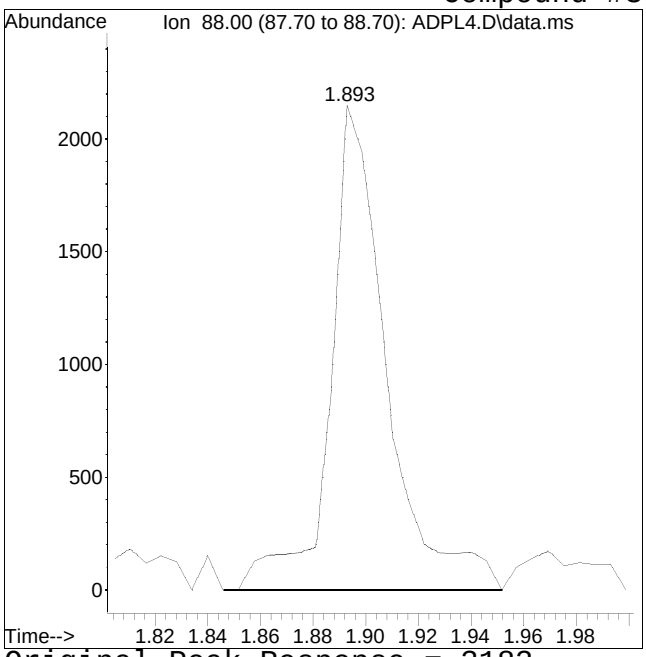
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



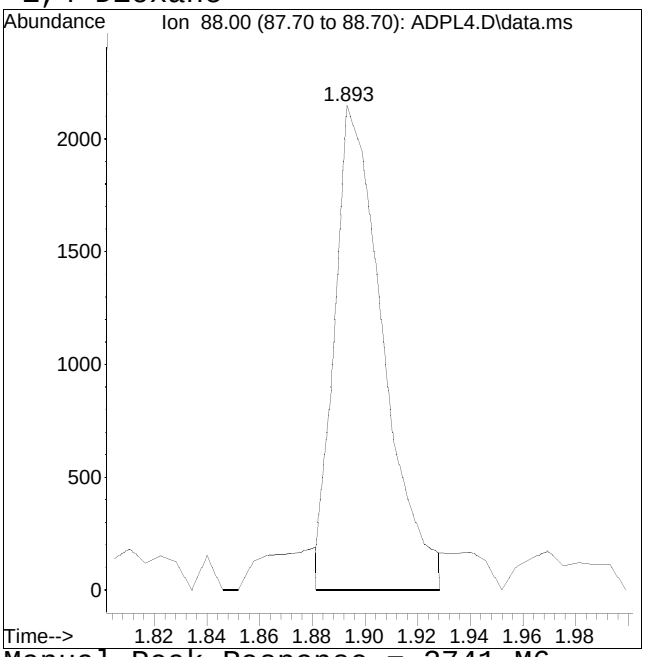
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL4.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 6:21 am Instrument : SV112
Sample : IL7,32,,ADPL1 Lot# 10801 Quant Date : 7/1/2024 6:26 am

Compound #33: 1,4-Dioxane



Original Peak Response = 3183



Manual Peak Response = 2741 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL3.D
Acq On : 26 Jun 2024 06:44 am
Operator : SV112:mrg
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1939943
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:25:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	20408	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	101.08%		
86) IS3_Acenaphthene-d10	7.746	164	46018	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	102.06%		
100) IS3_Phenanthrene-d10	9.175	188	108127	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	100.18%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.893	88	1517M6	0.632	ug/ml	
34) n-Decane	4.687	57	3040	0.520	ug/ml	94
87) Atrazine	8.940	200	2518	0.496	ug/ml	93
101) n-Octadecane	9.140	57	4037	0.475	ug/ml	93
102) Parathion	9.957	109	1026	0.547	ug/ml#	89
103) 3,3'-Dimethylbenzidine	11.245	212	8020	0.560	ug/ml	100

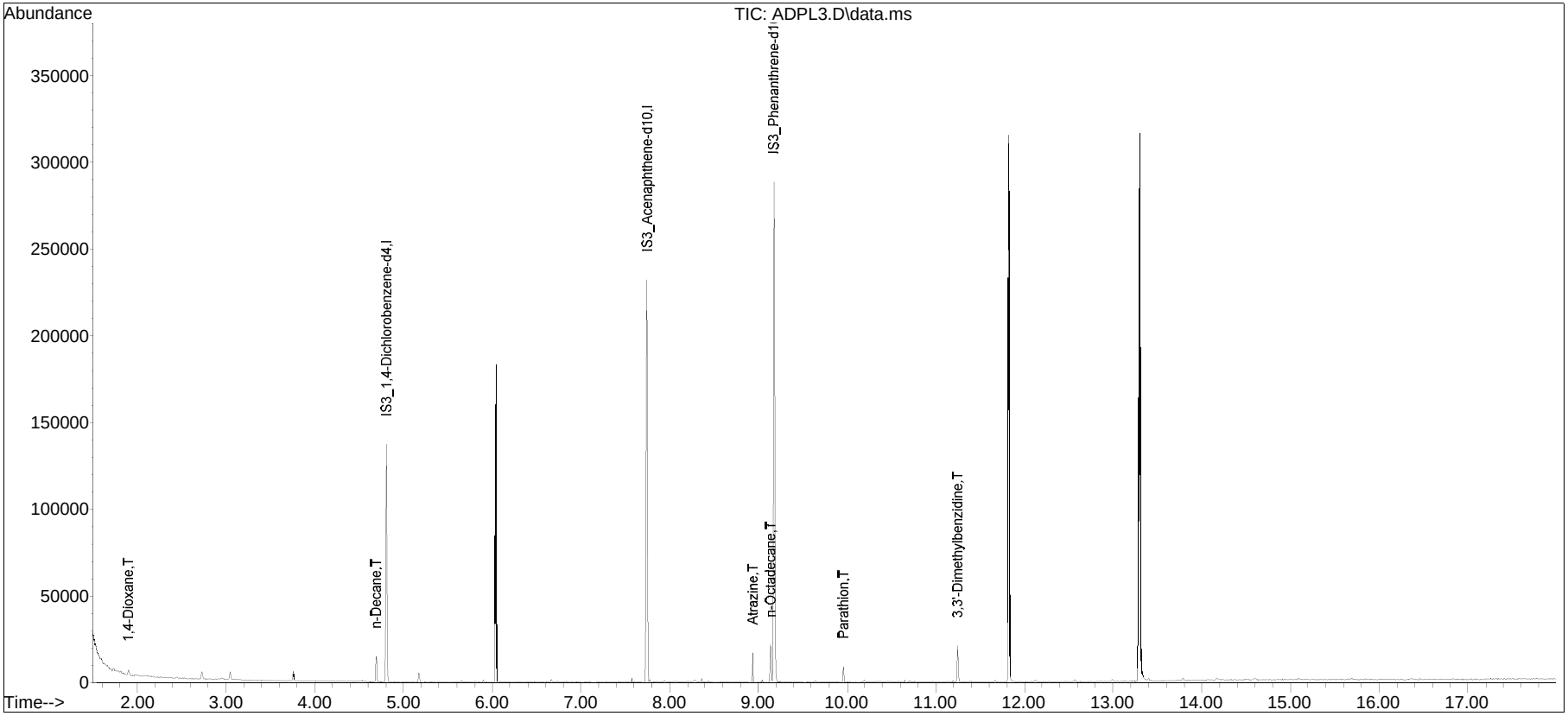
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL3.D
Acq On : 26 Jun 2024 06:44 am
Operator : SV112:mrg
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1939943
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:25:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

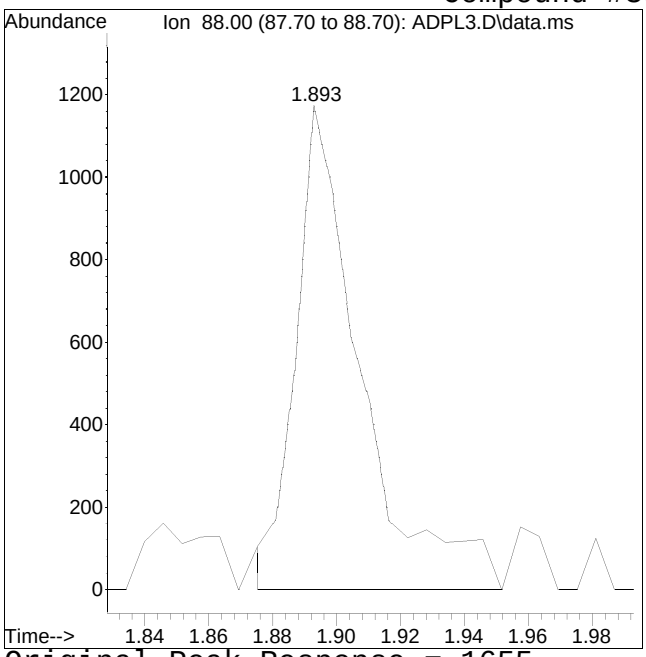
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



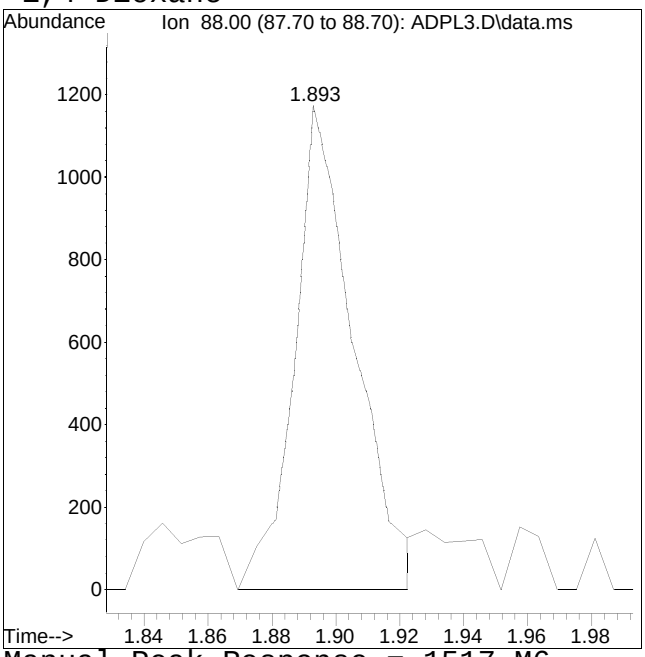
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL3.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 6:44 am Instrument : SV112
Sample : IL8,32,,ADPL0.5 Lot# 10802Quant Date : 7/1/2024 6:25 am

Compound #33: 1,4-Dioxane



Original Peak Response = 1655



Manual Peak Response = 1517 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL2.D
Acq On : 26 Jun 2024 07:08 am
Operator : SV112:mrg
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1939943
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:24:54 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

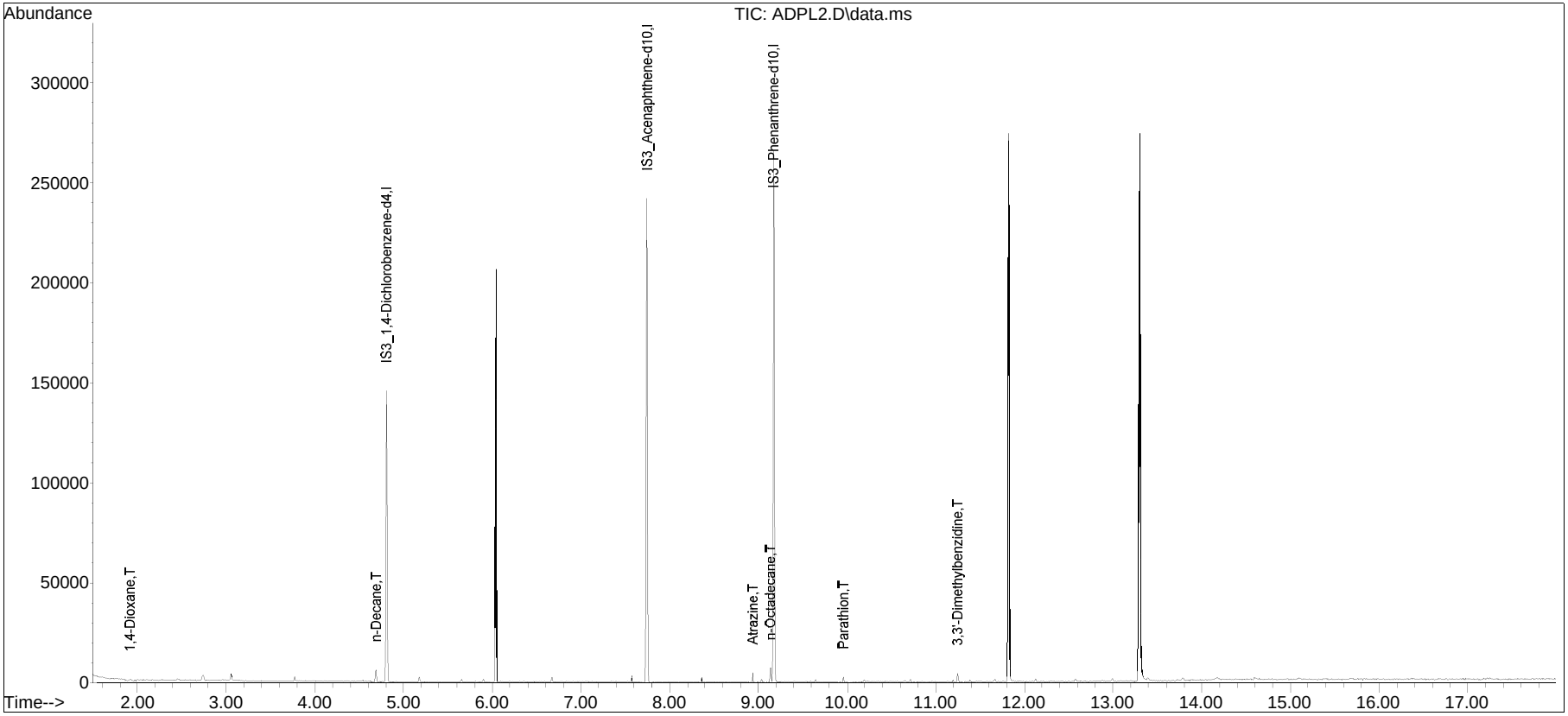
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	22327	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	110.59%		
86) IS3_Acenaphthene-d10	7.746	164	46135	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	102.32%		
100) IS3_Phenanthrene-d10	9.175	188	101129	4.000	ug/ml #	0.00
Standard Area 1 = 107936			Recovery =	93.69%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.916	88	588	0.224	ug/ml#	31
34) n-Decane	4.693	57	1353	0.212	ug/ml	95
87) Atrazine	8.940	200	862	0.169	ug/ml#	37
101) n-Octadecane	9.140	57	1533	0.193	ug/ml	93
102) Parathion	9.957	109	339M2	0.269	ug/ml	
103) 3,3'-Dimethylbenzidine	11.245	212	2291	0.310	ug/ml#	61

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL2.D
Acq On : 26 Jun 2024 07:08 am
Operator : SV112:mrg
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1939943
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:24:54 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

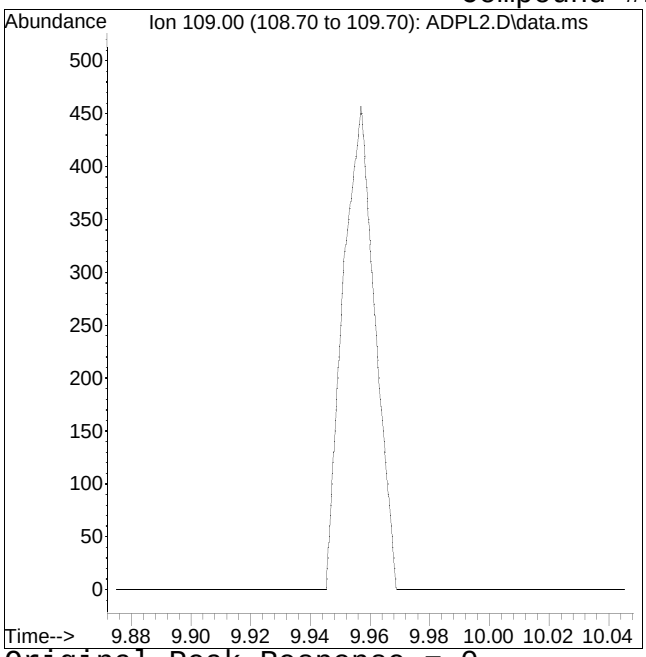
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



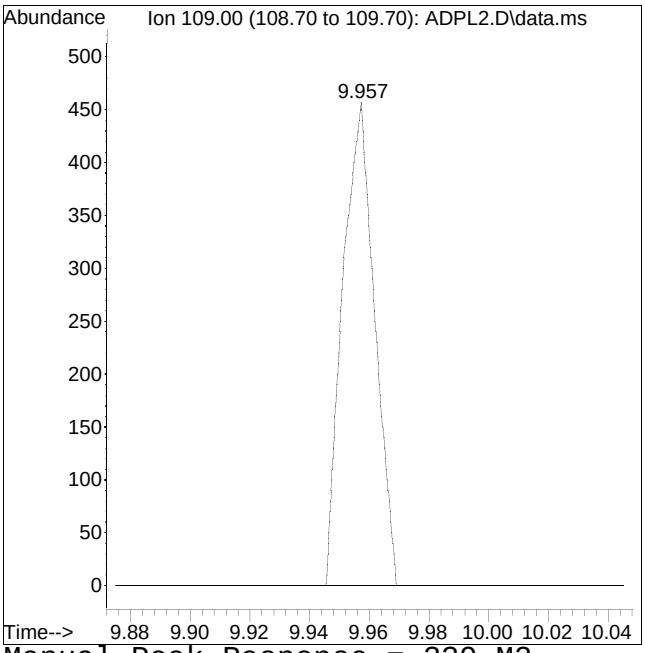
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 7:08 am Instrument : SV112
Sample : IL9,32,,ADPL0.2 Lot# 10803Quant Date : 7/1/2024 6:25 am

Compound #102: Parathion



Original Peak Response = 0



Manual Peak Response = 339 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL1.D
Acq On : 26 Jun 2024 07:31 am
Operator : SV112:mrg
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1939943
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 01 06:24:42 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

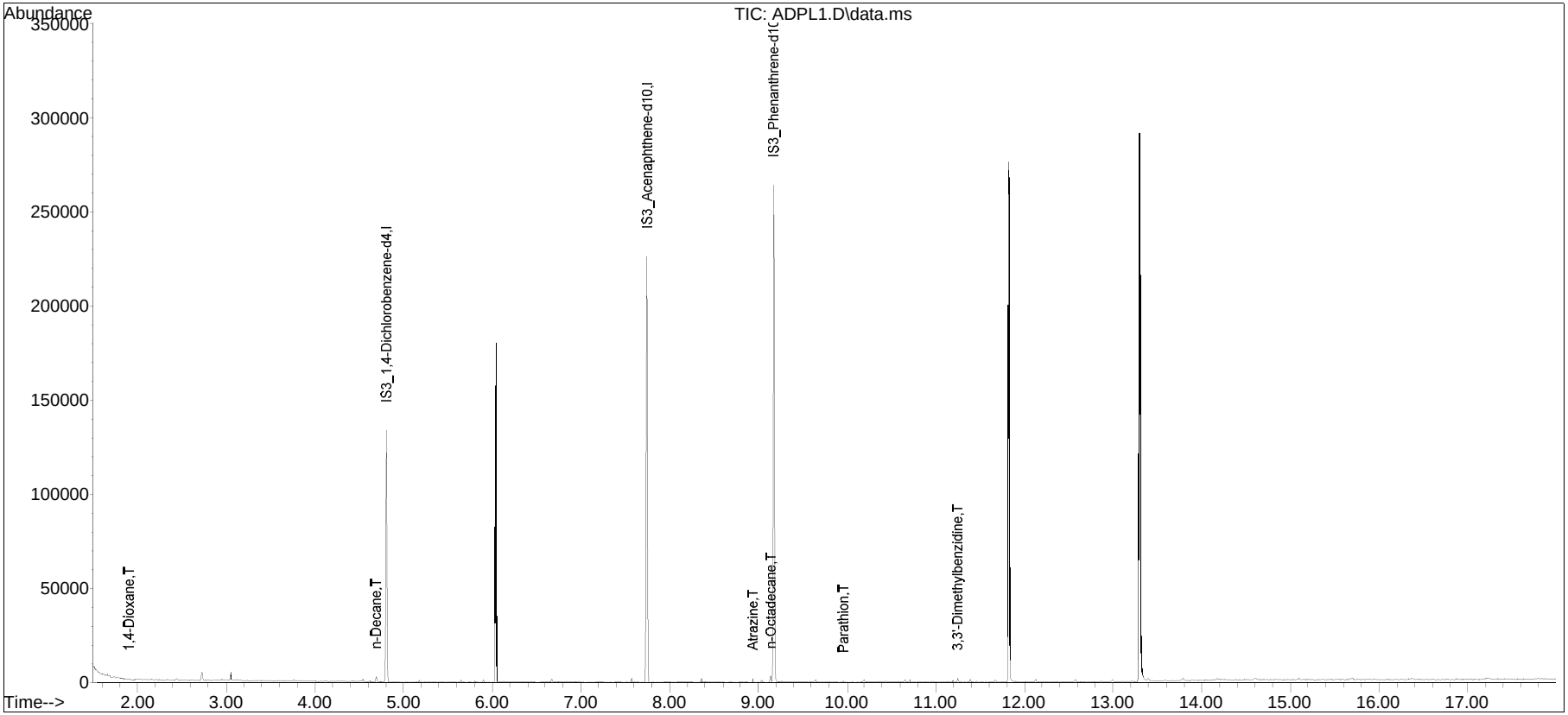
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	19406	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery = 96.12%			
86) IS3_Acenaphthene-d10	7.746	164	43780	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery = 97.10%			
100) IS3_Phenanthrene-d10	9.175	188	100147	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery = 92.78%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.899	88	310M2	0.136	ug/ml	
34) n-Decane	4.687	57	592	0.107	ug/ml#	76
87) Atrazine	8.940	200	426M2	0.088	ug/ml	
101) n-Octadecane	9.146	57	780	0.099	ug/ml	92
102) Parathion	9.957	109	191M2	0.204	ug/ml	
103) 3,3'-Dimethylbenzidine	11.245	212	1151	0.256	ug/ml#	61

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL1.D
Acq On : 26 Jun 2024 07:31 am
Operator : SV112:mrg
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1939943
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 01 06:24:42 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

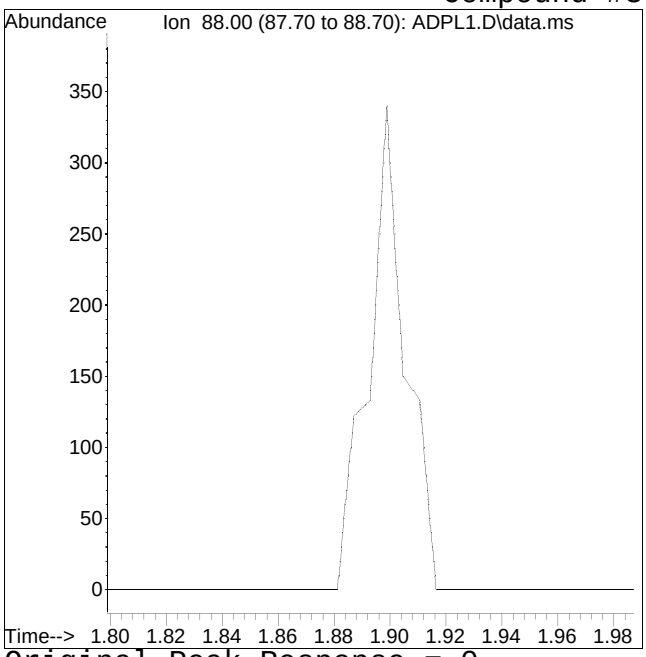
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



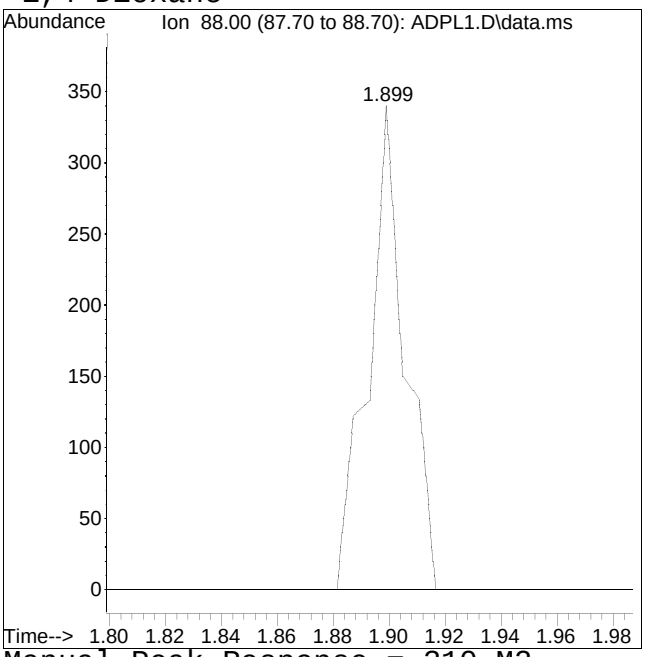
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 7:31 am Instrument : SV112
Sample : IL10,32,,ADPL0.1 Lot# 1080Quant Date : 7/1/2024 6:25 am

Compound #33: 1,4-Dioxane



Original Peak Response = 0



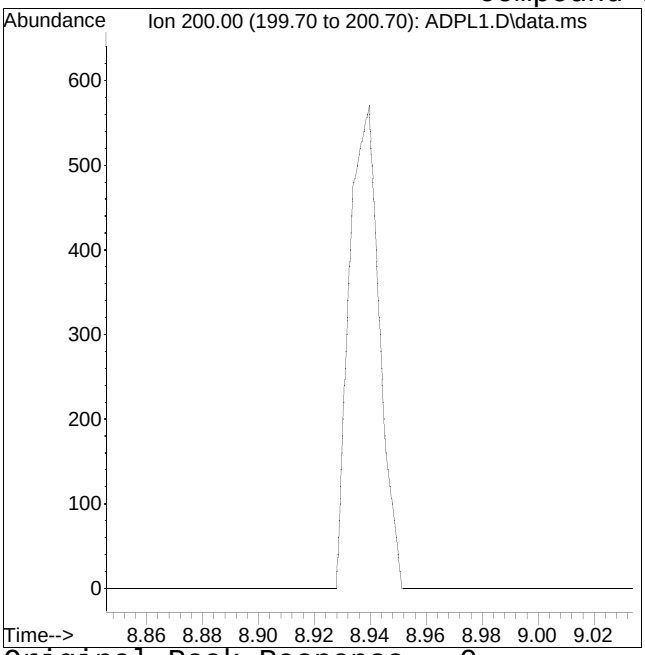
Manual Peak Response = 310 M2

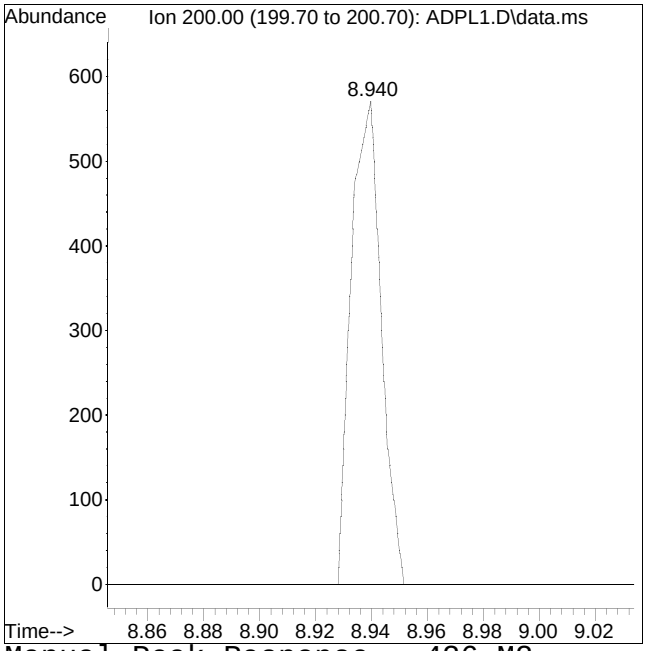
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 7:31 am Instrument : SV112
Sample : IL10,32,,ADPL0.1 Lot# 1080Quant Date : 7/1/2024 6:25 am

Compound #87: Atrazine



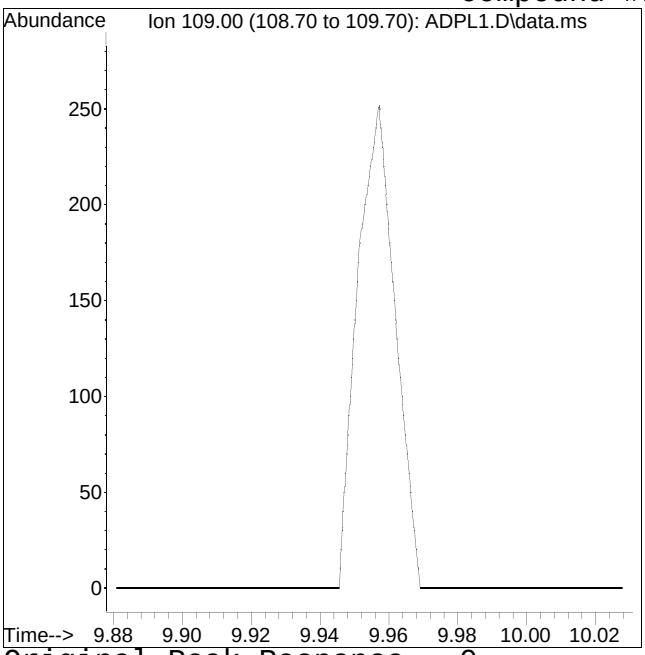


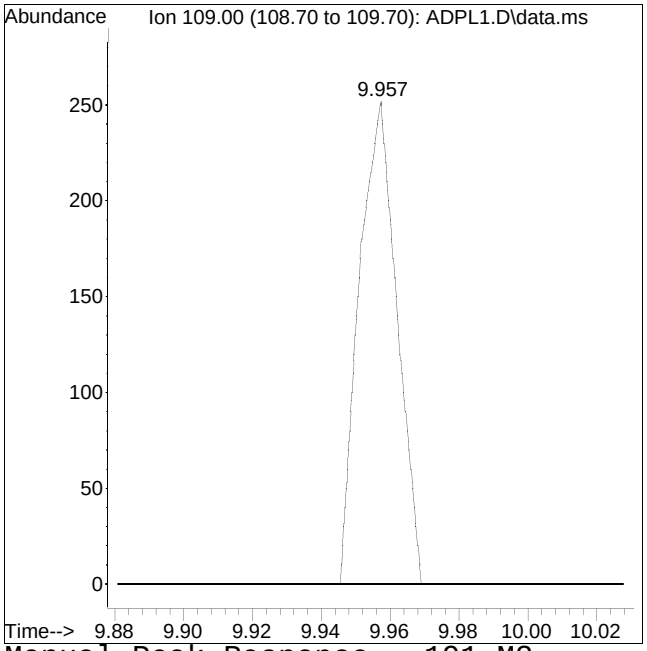
Original Peak Response = 0 Manual Peak Response = 426 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 7:31 am Instrument : SV112
Sample : IL10,32,,ADPL0.1 Lot# 1080Quant Date : 7/1/2024 6:25 am

Compound #102: Parathion





Original Peak Response = 0 Manual Peak Response = 191 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPICV.D
Acq On : 26 Jun 2024 07:54 am
Operator : SV112:mrg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939943
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 01 06:17:58 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	93	0.00
33	T	1,4-Dioxane		0.470	0.437	7.0	98	0.00
34	T	n-Decane		1.145	1.147	-0.2	101	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	100	0.00
87	T	Atrazine		0.441	0.385	12.7	97	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	101	0.00
101	T	n-Octadecane		0.315	0.303	3.8	109	0.00
102	T	Parathion	*	5.000	3.993	20.1#	96	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	3.947	21.1#	92	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPICV.D
Acq On : 26 Jun 2024 07:54 am
Operator : SV112:mrg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939943
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 01 06:17:58 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	18786	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery = 93.05%			
86) IS3_Acenaphthene-d10	7.746	164	45310	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery = 100.49%			
100) IS3_Phenanthrene-d10	9.175	188	108986	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery = 100.97%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.887	88	10259	4.643	ug/ml#	89
34) n-Decane	4.687	57	26927	5.005	ug/ml	94
87) Atrazine	8.940	200	21793	4.360	ug/ml	98
101) n-Octadecane	9.146	57	41233	4.809	ug/ml	94
102) Parathion	9.957	109	9588	3.993	ug/ml#	88
103) 3,3'-Dimethylbenzidine	11.251	212	84313	3.947	ug/ml	98

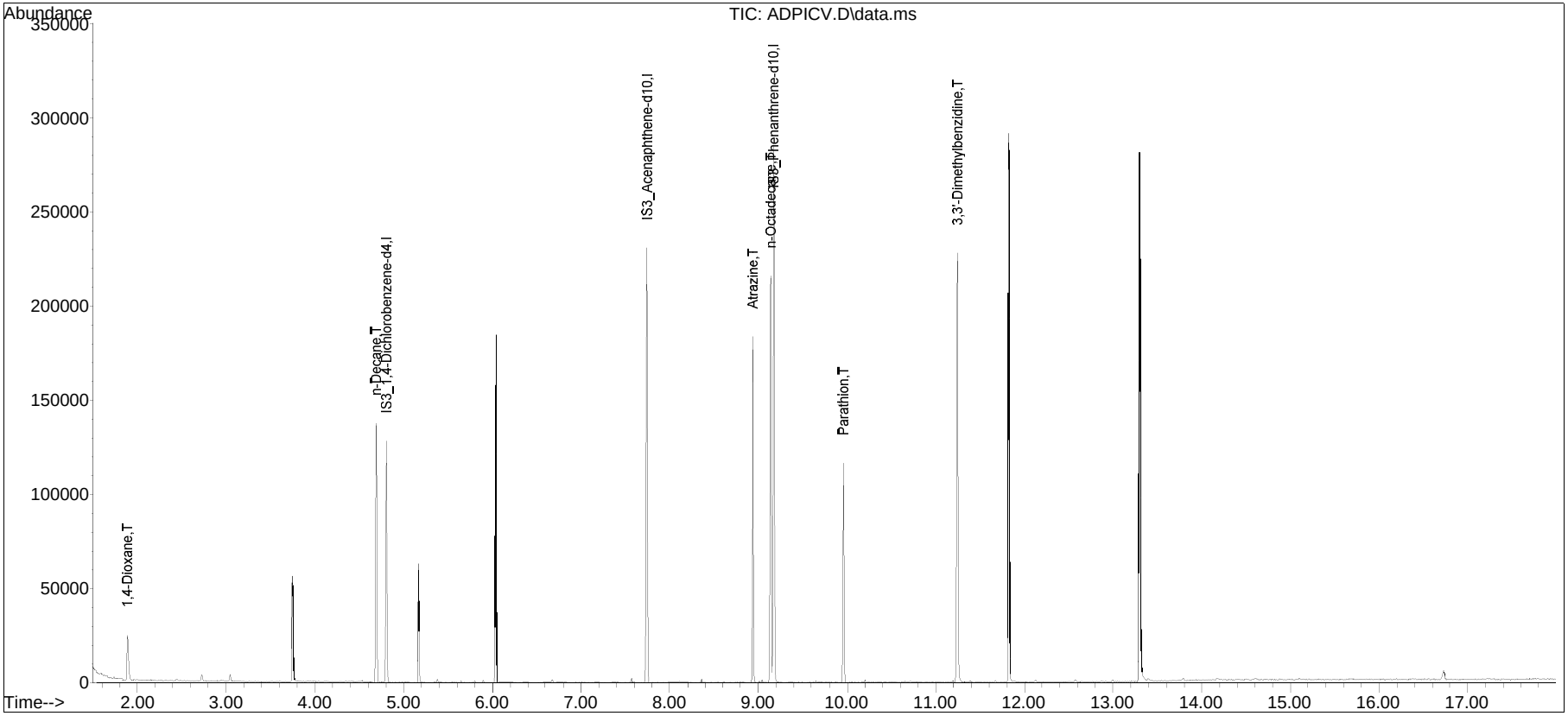
(#) = qualifier out of range (m) = manual integration (+) = signals summed

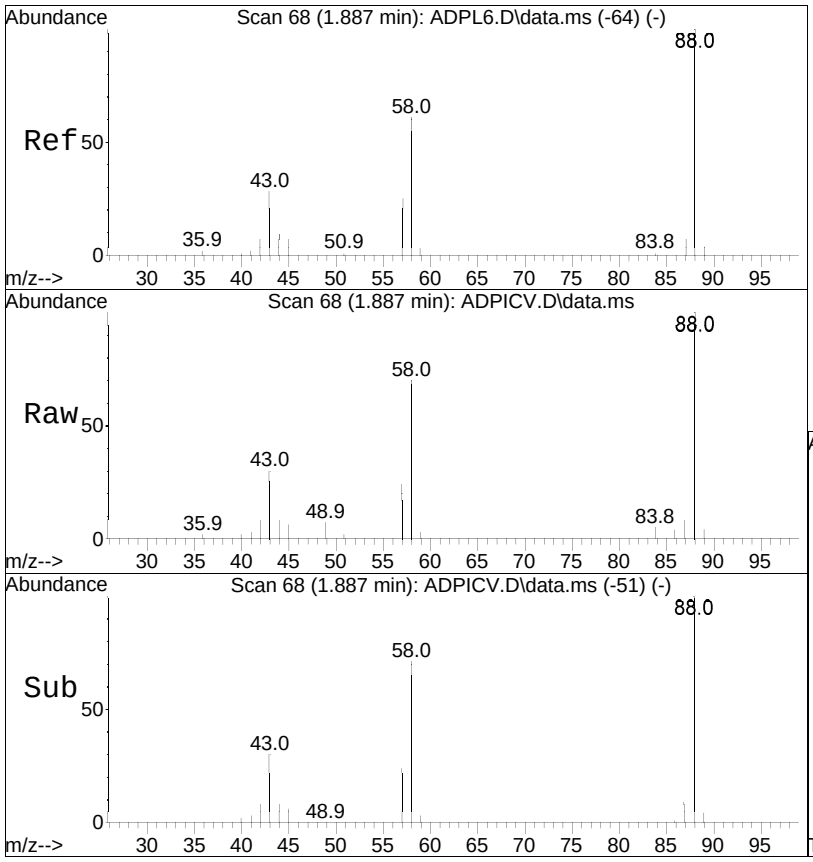
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPICV.D
Acq On : 26 Jun 2024 07:54 am
Operator : SV112:mrg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939943
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 01 06:17:58 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•

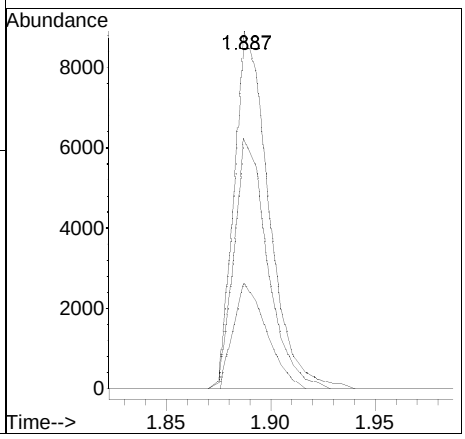


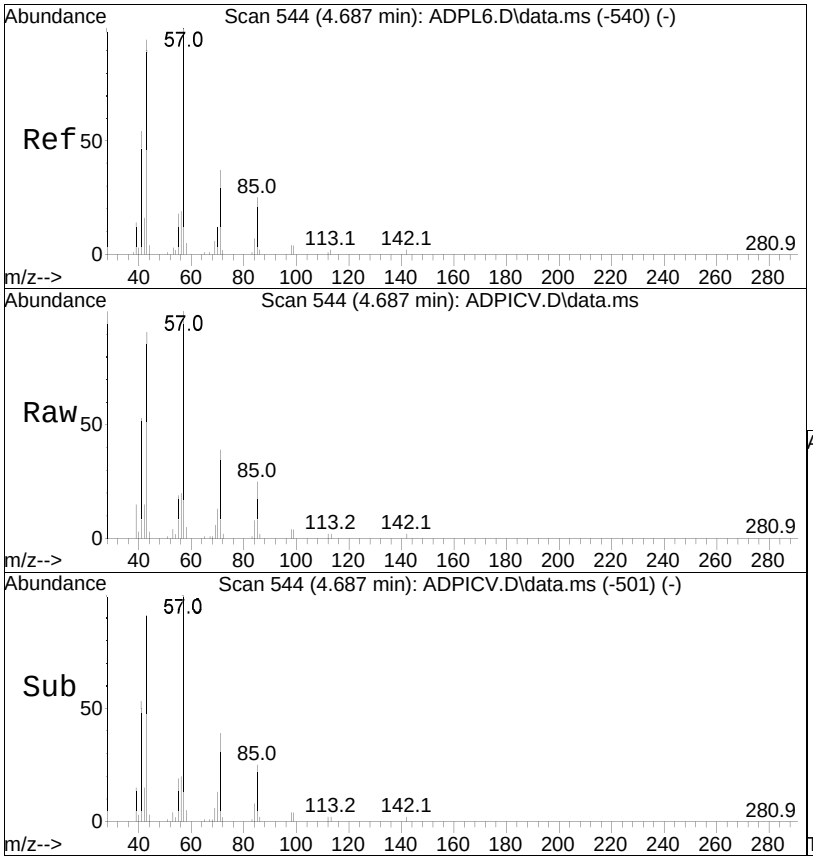


#33
1,4-Dioxane
Concen: 4.64 ug/ml
RT: 1.887 min Scan# 68
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion: 88 Resp: 10259

Ion	Ratio	Lower	Upper
88	100		
58	67.6	44.8	67.2#
43	28.3	22.4	33.6

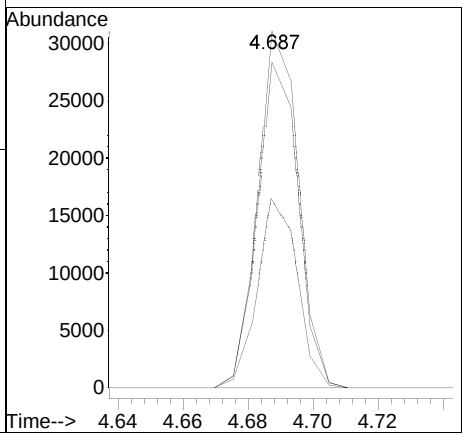


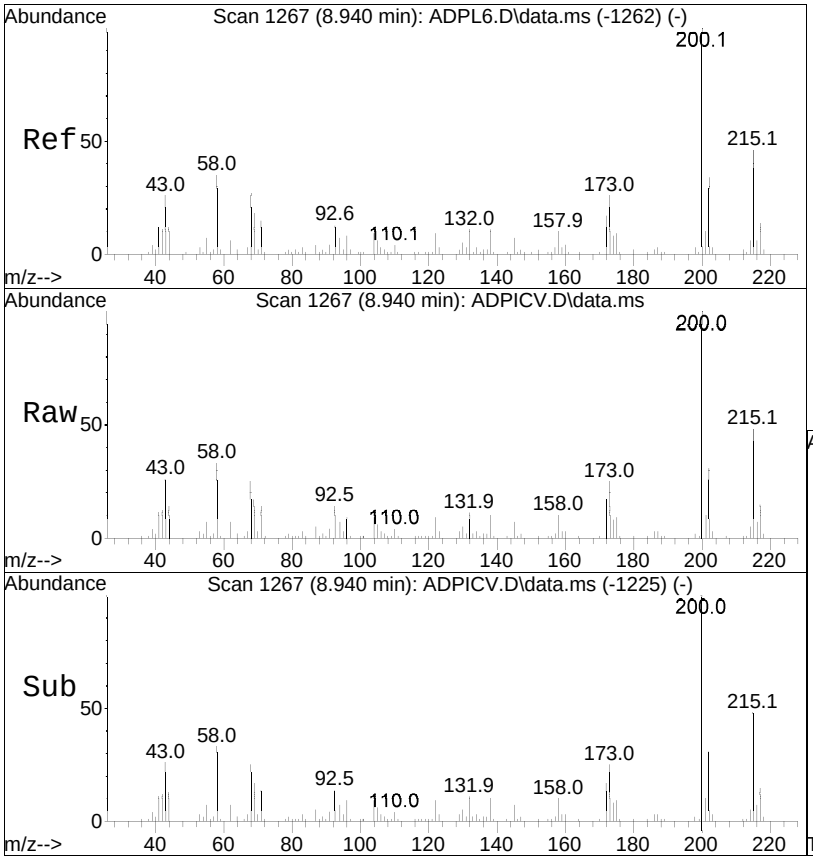


#34
n-Decane
Concen: 5.01 ug/ml
RT: 4.687 min Scan# 544
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion: 57 Resp: 26927

Ion	Ratio	Lower	Upper
57	100		
43	91.4	75.4	113.2
41	52.1	35.0	52.6

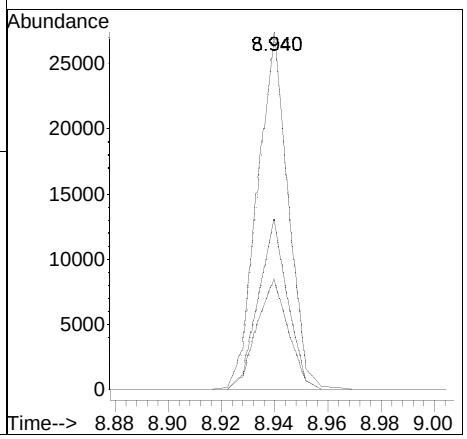


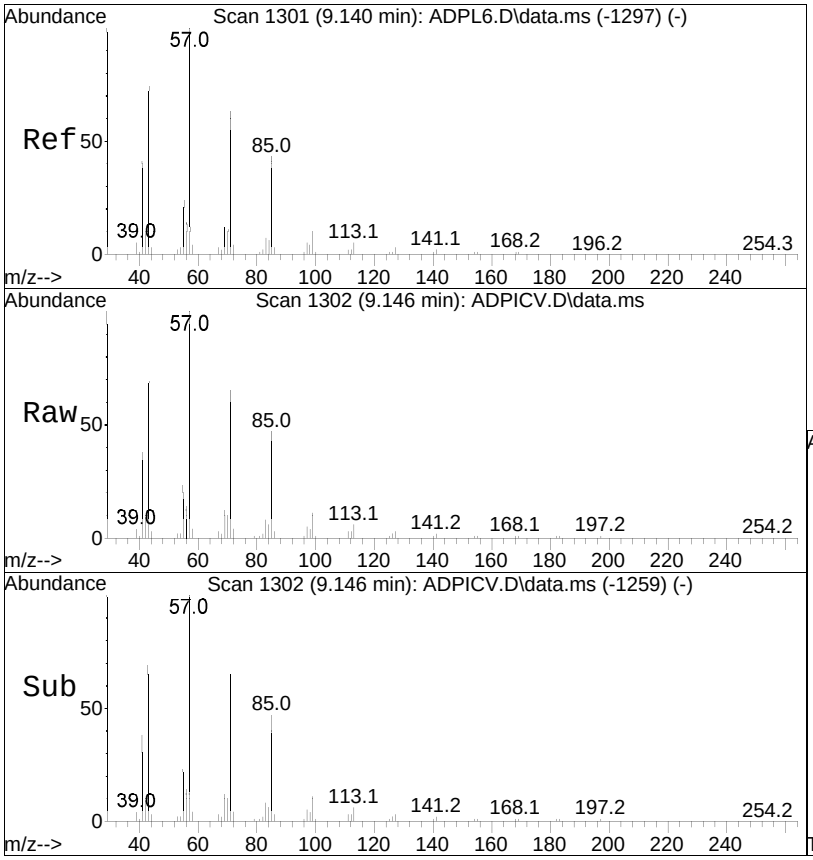


#87
Atrazine
Concen: 4.36 ug/ml
RT: 8.940 min Scan# 1267
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion:200 Resp: 21793

Ion	Ratio	Lower	Upper
200	100		
202	31.8	25.0	37.6
215	45.2	34.5	51.7

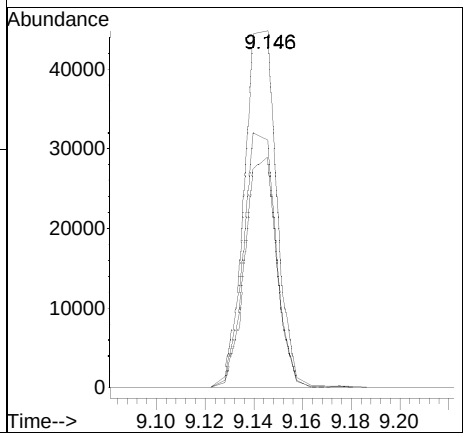


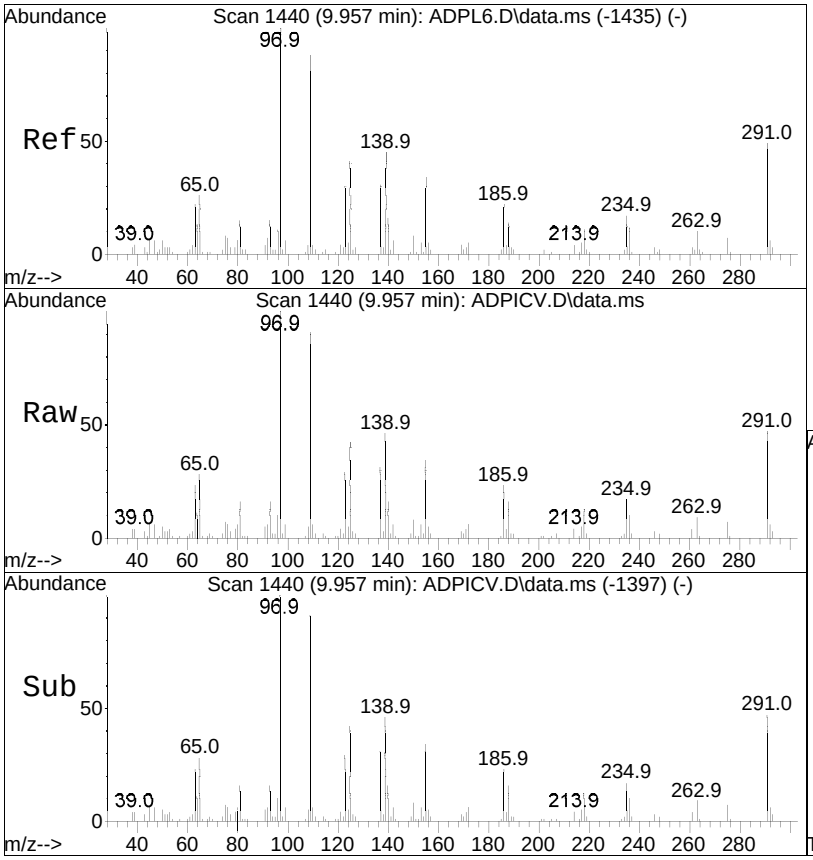


#101
n-Octadecane
Concen: 4.81 ug/ml
RT: 9.146 min Scan# 1302
Delta R.T. 0.006 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion: 57 Resp: 41233

Ion	Ratio	Lower	Upper
57	100		
43	70.9	54.3	81.5
71	62.9	45.1	67.7

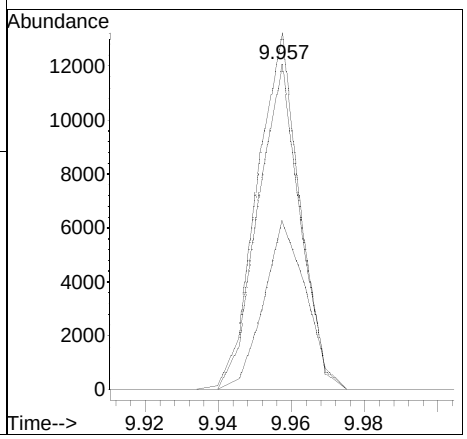


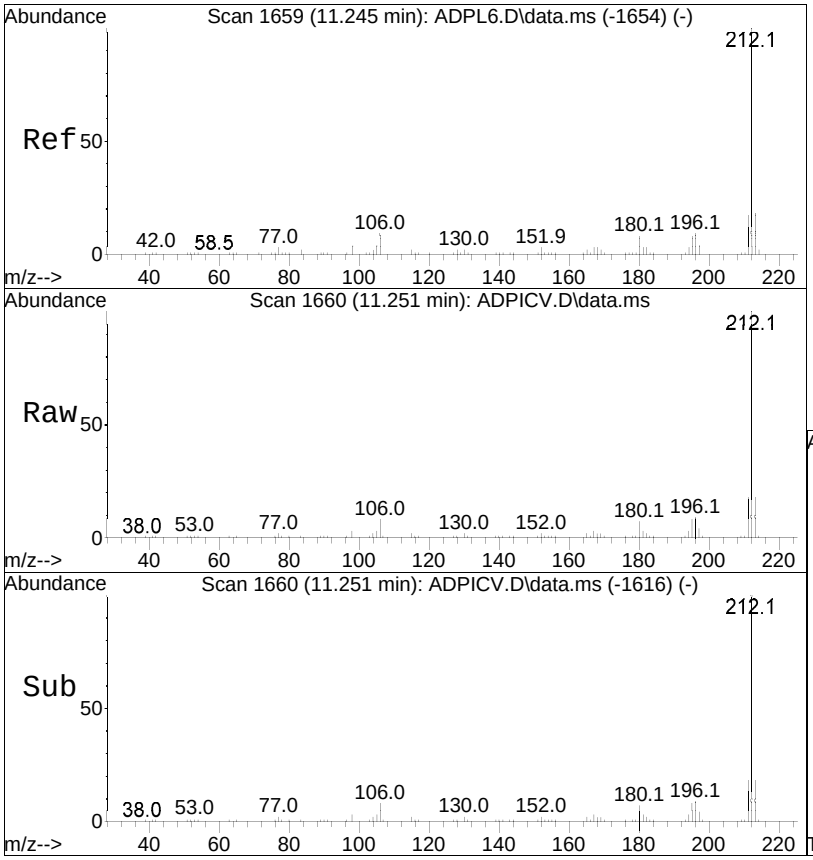


#102
Parathion
Concen: 3.99 ug/ml
RT: 9.957 min Scan# 1440
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion:109 Resp: 9588

Ion	Ratio	Lower	Upper
109	100		
97	111.2	85.4	128.2
291	52.4	25.4	38.2#

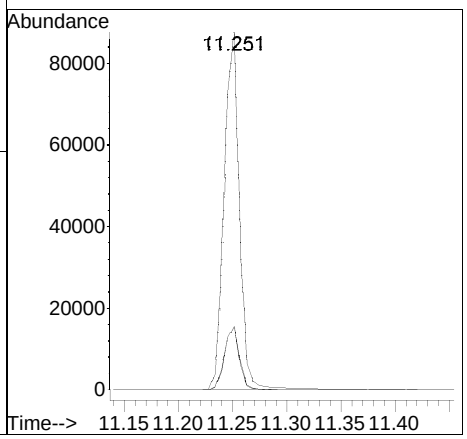




#103
3,3'-Dimethylbenzidine
Concen: 3.95 ug/ml
RT: 11.251 min Scan# 1660
Delta R.T. 0.006 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion:212 Resp: 84313

Ion	Ratio	Lower	Upper
212	100		
211	17.1	13.3	19.9
213	17.7	13.4	20.2



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPICV.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 7:54 am	Instrument	: SV112
Sample	: CQICV3,32,,ADPICV Lot# 108	Quant Date	: 7/1/2024 6:18 am

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

Evaluate Relative Error Report SV112

Method Path : I:\8270\SV112\240625RVTical\
Method File : FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sun Jun 30 14:25:57 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	L	ug/ml	5.0	4.612	-7.8	2.50	2.700	8.0
60	T Caprolactam	L	ug/ml	5.0	4.695	-6.1	1.00	1.156	15.6
66	T 2,4-Dinitrophenol	Q	ug/ml	5.0	4.592	-8.2	0.50	0.607	21.4
76	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.193	-16.1	0.25	0.319	27.6
84	T Dichloran	L	ug/ml	5.0	4.379	-12.4	1.00	1.239	23.9
102	T Parathion	Q	ug/ml	5.0	4.172	-16.6	0.25	0.269	7.6
103	T 3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.295	-14.1	0.50	0.560	12.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Linear	0.999194	0.000000	0.256856	-0.0929314
60	T Caprolactam	Linear	0.998974	0.000000	0.182736	-0.0213123
66	T 2,4-Dinitrophenol	Quadratic	0.998454	0.002114	0.171832	-0.0162283
76	T 4,6-Dinitro-o-cresol	Linear	0.996627	0.000000	0.257628	-0.0149534
84	T Dichloran	Linear	0.996413	0.000000	0.264594	-0.0418721
102	T Parathion	Quadratic	0.998154	0.002810	0.0878995	-0.00258094
103	T 3,3'-Dimethylbenzidine	Linear	0.997070	0.000000	0.82599	-0.0414416

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 11:20		
Lab File ID	: ABN0927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
n-Nitrosodimethylamine	0.657	0.605	-	7.9	20	94	0
Pyridine	1.043	0.993	-	4.8	20	93	0
2-Fluorophenol	1.05	1.034	-	1.5	20	108	0
Aniline	1.811	1.593	-	12	20	101	0
2-Chlorophenol	1.251	1.219	-	2.6	20	111	0
Phenol-d6	1.357	1.244	-	8.3	20	101	0
Phenol	1.577	1.414	-	10.3	20	101	0
Bis(2-chloroethyl)ether	1.167	1.026	-	12.1	20	102	0
1,3-Dichlorobenzene	1.508	1.434	-	4.9	20	108	0
1,4-Dichlorobenzene	1.575	1.444	-	8.3	20	108	0
1,2-Dichlorobenzene	1.475	1.417	-	3.9	20	111	0
Benzyl alcohol	0.945	0.846	-	10.5	20	100	0
Bis(2-chloroisopropyl)ethe	1.475	1.522	-	-3.2	20	119	0
2-Methylphenol	1.056	1.006	-	4.7	20	107	0
Hexachloroethane	0.558	0.492	-	11.8	20	101	0
n-Nitrosodi-n-propylamine	0.865	0.741	-	14.3	20	98	0
3-Methylphenol/4-Methylphe	1.15	1.13	-	1.7	20	108	0
Nitrobenzene-d5	1.294	1.143	-	11.7	20	99	0
Nitrobenzene	1.289	1.096	-	15	20	95	0
Isophorone	2.328	2.113	-	9.2	20	104	0
2-Nitrophenol	0.574	0.72	-	-25.4*	20	140	0
2,4-Dimethylphenol	1.101	1.086	-	1.4	20	121	0
Bis(2-chloroethoxy)methane	1.567	1.376	-	12.2	20	105	0
2,4-Dichlorophenol	1.153	1.252	-	-8.6	20	124	0
1,2,4-Trichlorobenzene	1.46	1.37	-	6.2	20	115	0
IS1_Naphthalene-d8	1	1	-	0	20	108	0
Naphthalene	1.049	1.008	-	3.9	20	109	0
Benzoic Acid	5	6.579	-	-31.6*	20	175	0
4-Chloroaniline	0.118	0.108	-	8.5	20	99	0
Hexachlorobutadiene	0.246	0.242	-	1.6	20	116	0
p-Chloro-m-cresol	0.277	0.293	-	-5.8	20	117	0
2-Methylnaphthalene	0.713	0.717	-	-0.6	20	119	0
1-Methylnaphthalene	0.245	0.215	-	12.2	20	106	0
Hexachlorocyclopentadiene	0.251	0.303	-	-20.7*	20	145	0
2,4,6-Trichlorophenol	0.256	0.293	-	-14.5	20	127	0
2,4,5-Trichlorophenol	0.262	0.311	-	-18.7	20	130	0
2-Fluorobiphenyl	0.904	0.923	-	-2.1	20	121	0
2-Chloronaphthalene	0.759	0.777	-	-2.4	20	120	0
2-Nitroaniline	0.2	0.255	-	-27.5*	20	144	0
1,4-Dinitrobenzene	0.098	0.141	-	-43.9*	20	159	0
1,3-Dinitrobenzene	0.114	0.151	-	-32.5*	20	148	0
Dimethyl phthalate	0.923	0.996	-	-7.9	20	130	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 11:20		
Lab File ID	: ABN0927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.12	1.216	-	-8.6	20	124	0
2,6-Dinitrotoluene	0.173	0.216	-	-24.9*	20	143	0
1,2-Dinitrobenzene	0.076	0.097	-	-27.6*	20	148	0
IS1_Acenaphthene-d10	1	1	-	0	20	120	0
3-Nitroaniline	0.299	0.351	-	-17.4	20	137	0
Acenaphthene	1.115	1.054	-	5.5	20	122	0
2,4-Dinitrophenol	5	7.482	-	-49.6*	20	205	0
Dibenzofuran	1.837	1.762	-	4.1	20	123	0
2,4-Dinitrotoluene	0.383	0.456	-	-19.1	20	141	0
4-Nitrophenol	0.29	0.219	-	24.5*	20	92	0
2,3,5,6-Tetrachlorophenol	0.377	0.451	-	-19.6	20	140	0
2,3,4,6-Tetrachlorophenol	0.37	0.431	-	-16.5	20	142	0
Diethyl phthalate	1.487	1.491	-	-0.3	20	134	0
Fluorene	1.431	1.419	-	0.8	20	127	0
4-Chlorophenyl phenyl ethe	0.78	0.721	-	7.6	20	125	0
4-Nitroaniline	0.314	0.371	-	-18.2	20	134	0
4,6-Dinitro-o-cresol	5	6.676	-	-33.5*	20	196	0
NDPA/DPA	1.231	1.241	-	-0.8	20	130	0
Azobenzene	1.305	1.092	-	16.3	20	104	0
2,4,6-Tribromophenol	0.257	0.295	-	-14.8	20	151	0
4-Bromophenyl phenyl ether	0.5	0.485	-	3	20	132	0
Hexachlorobenzene	0.628	0.606	-	3.5	20	138	0
Pentachlorophenol	0.322	0.4	-	-24.2*	20	160	0
IS1_Phenanthrene-d10	1	1	-	0	20	124	0
Phenanthrene	1.058	1.053	-	0.5	20	129	0
Anthracene	1.035	1.053	-	-1.7	20	132	0
Carbazole	0.948	0.995	-	-5	20	131	0
Di-n-butylphthalate	1.034	1.204	-	-16.4	20	153	0
Fluoranthene	1.228	1.292	-	-5.2	20	136	0
Benzidine	0.675	0.846	-	-25.3*	20	150	0
Pyrene	1.301	1.361	-	-4.6	20	131	0
4-Terphenyl-d14	1.029	1.048	-	-1.8	20	136	0
Butyl benzyl phthalate	0.458	0.573	-	-25.1*	20	169	0
IS1_Chrysene-d12	1	1	-	0	20	132	0
Benzo(a)anthracene	1.284	1.25	-	2.6	20	133	0
3,3'-Dichlorobenzidine	0.468	0.521	-	-11.3	20	147	0
Chrysene	1.259	1.162	-	7.7	20	127	0
Bis(2-ethylhexyl)phthalate	0.639	0.755	-	-18.2	20	163	0
Di-n-octylphthalate	0.979	1.304	-	-33.2*	20	173	0
Benzo(b)fluoranthene	1.317	1.383	-	-5	20	140	0
Benzo(k)fluoranthene	1.202	1.185	-	1.4	20	122	0
Benzo(a)pyrene	1.149	1.196	-	-4.1	20	134	0
IS1_Perylene-d12	1	1	-	0	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 11:20		
Lab File ID	: ABN0927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.118	1.172	-	-4.8	20	131	0
Dibenzo(a,h)anthracene	1.068	1.117	-	-4.6	20	132	0
Benzo(ghi)perylene	1.078	1.062	-	1.5	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 11:43		
Lab File ID	: AP90927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-4	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Benzaldehyde	1.094	0.939	-	14.2	20	87	0
Acetophenone	1.903	1.62	-	14.9	20	81	0
m-Toluidine	1.828	1.609	-	12	20	84	0
2-Chloroaniline	1.742	1.513	-	13.1	20	85	0
IS2_Naphthalene-d8	1	1	-	0	20	99	0
a-Terpineol	0.277	0.24	-	13.4	20	85	0
3-Chloroaniline	0.15	0.111	-	26*	20	74	0
2,6-Dichlorophenol	0.326	0.311	-	4.6	20	92	0
1-chloro-2-nitrobenzene	0.143	0.131	-	8.4	20	89	0
Caprolactam	5	4.448	-	11	20	93	0
1,2,4,5-Tetrachlorobenzene	0.479	0.405	-	15.4	20	84	0
Biphenyl	1.026	0.891	-	13.2	20	86	0
IS2_Acenaphthene-d10	1	1	-	0	20	100	0
Dichloran	5	4.802	-	4	20	111	0
Pentachloronitrobenzene	0.235	0.217	-	7.7	20	96	0
IS2_Phenanthrene-d10	1	1	-	0	20	97	0
Diphenamid	0.515	0.504	-	2.1	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 12:06		
Lab File ID	: ADP0927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-5	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
1,4-Dioxane	0.47	0.443	-	5.7	20	106	0
n-Decane	1.145	1.172	-	-2.4	20	110	0
IS3_Acenaphthene-d10	1	1	-	0	20	110	0
Atrazine	0.441	0.504	-	-14.3	20	140	0
IS3_Phenanthrene-d10	1	1	-	0	20	107	0
n-Octadecane	0.315	0.359	-	-14	20	137	0
Parathion	5	6.615	-	-32.3*	20	174	0
3,3'-Dimethylbenzidine	5	5.833	-	-16.7	20	147	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	102	0
n-Nitrosodimethylamine	0.71	0.651	-	8.3	20	93	0
Pyridine	1.086	1.036	-	4.6	20	88	0
2-Fluorophenol	1.08	1.058	-	2	20	99	0
Aniline	1.765	1.599	-	9.4	20	99	0
2-Chlorophenol	1.294	1.192	-	7.9	20	98	0
Phenol-d6	1.413	1.274	-	9.8	20	98	0
Phenol	1.566	1.391	-	11.2	20	97	0
Bis(2-chloroethyl)ether	1.247	1.119	-	10.3	20	102	0
1,3-Dichlorobenzene	1.587	1.382	-	12.9	20	96	0
1,4-Dichlorobenzene	1.599	1.392	-	12.9	20	96	0
1,2-Dichlorobenzene	1.562	1.319	-	15.6	20	94	0
Benzyl alcohol	1.01	0.98	-	3	20	109	0
Bis(2-chloroisopropyl)ethe	1.617	1.963	-	-21.4*	20	137	0
2-Methylphenol	1.126	1.033	-	8.3	20	105	0
Hexachloroethane	0.563	0.55	-	2.3	20	103	0
n-Nitrosodi-n-propylamine	0.862	0.86	-	0.2	20	113	0
3-Methylphenol/4-Methylphe	1.241	1.138	-	8.3	20	106	0
Nitrobenzene-d5	1.368	1.29	-	5.7	20	106	0
Nitrobenzene	1.312	1.269	-	3.3	20	107	0
Isophorone	2.344	2.316	-	1.2	20	111	0
2-Nitrophenol	0.667	0.632	-	5.2	20	108	0
2,4-Dimethylphenol	1.081	1.173	-	-8.5	20	180	0
Bis(2-chloroethoxy)methane	1.585	1.506	-	5	20	112	0
2,4-Dichlorophenol	1.18	1.092	-	7.5	20	104	0
1,2,4-Trichlorobenzene	1.405	1.229	-	12.5	20	100	0
IS1_Naphthalene-d8	1	1	-	0	20	103	0
Naphthalene	1.132	0.98	-	13.4	20	102	0
Benzoic Acid	5	5.557	-	-11.1	20	136	0
4-Chloroaniline	0.126	0.131	-	-4	20	111	0
Hexachlorobutadiene	0.224	0.214	-	4.5	20	107	0
p-Chloro-m-cresol	0.283	0.301	-	-6.4	20	120	0
2-Methylnaphthalene	0.737	0.684	-	7.2	20	107	0
1-Methylnaphthalene	0.238	0.241	-	-1.3	20	114	0
Hexachlorocyclopentadiene	0.212	0.241	-	-13.7	20	125	0
2,4,6-Trichlorophenol	0.234	0.236	-	-0.9	20	111	0
2,4,5-Trichlorophenol	0.249	0.252	-	-1.2	20	110	0
2-Fluorobiphenyl	0.9	0.802	-	10.9	20	108	0
2-Chloronaphthalene	0.763	0.693	-	9.2	20	110	0
2-Nitroaniline	0.204	0.205	-	-0.5	20	116	0
1,4-Dinitrobenzene	0.11	0.109	-	0.9	20	126	0
1,3-Dinitrobenzene	0.129	0.122	-	5.4	20	120	0
Dimethyl phthalate	0.863	0.846	-	2	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.063	-	6.1	20	111	0
2,6-Dinitrotoluene	0.169	0.173	-	-2.4	20	116	0
1,2-Dinitrobenzene	0.077	0.079	-	-2.6	20	120	0
IS1_Acenaphthene-d10	1	1	-	0	20	112	0
3-Nitroaniline	0.32	0.31	-	3.1	20	112	0
Acenaphthene	1.138	1.007	-	11.5	20	110	0
2,4-Dinitrophenol	5	5.211	-	-4.2	20	162	0
Dibenzofuran	1.879	1.612	-	14.2	20	110	0
2,4-Dinitrotoluene	0.408	0.402	-	1.5	20	121	0
4-Nitrophenol	0.253	0.262	-	-3.6	20	122	0
2,3,5,6-Tetrachlorophenol	0.341	0.346	-	-1.5	20	114	0
2,3,4,6-Tetrachlorophenol	0.325	0.336	-	-3.4	20	113	0
Diethyl phthalate	1.327	1.454	-	-9.6	20	141	0
Fluorene	1.404	1.321	-	5.9	20	118	0
4-Chlorophenyl phenyl ethe	0.713	0.654	-	8.3	20	116	0
4-Nitroaniline	0.32	0.306	-	4.4	20	114	0
4,6-Dinitro-o-cresol	5	4.997	-	0.1	20	152	0
NDPA/DPA	1.166	1.121	-	3.9	20	119	0
Azobenzene	1.226	1.326	-	-8.2	20	131	0
2,4,6-Tribromophenol	0.187	0.146	-	21.9*	20	96	0
4-Bromophenyl phenyl ether	0.385	0.354	-	8.1	20	116	0
Hexachlorobenzene	0.425	0.346	-	18.6	20	101	0
Pentachlorophenol	5	4.223	-	15.5	20	116	0
IS1_Phenanthrene-d10	1	1	-	0	20	127	0
Phenanthrene	1.151	0.965	-	16.2	20	120	0
Anthracene	1.089	0.985	-	9.6	20	126	0
Carbazole	0.994	0.919	-	7.5	20	127	0
Di-n-butylphthalate	1.094	1.247	-	-14	20	167	0
Fluoranthene	1.261	1.164	-	7.7	20	130	0
Benzidine	5	4.846	-	3.1	20	170	0
Pyrene	1.372	1.22	-	11.1	20	126	0
4-Terphenyl-d14	0.946	0.819	-	13.4	20	126	0
Butyl benzyl phthalate	5	4.912	-	1.8	20	184	0
IS1_Chrysene-d12	1	1	-	0	20	125	0
Benzo(a)anthracene	1.453	1.323	-	8.9	20	124	0
3,3'-Dichlorobenzidine	5	4.205	-	15.9	20	130	0
Chrysene	1.403	1.227	-	12.5	20	120	0
Bis(2-ethylhexyl)phthalate	5	6.463	-	-29.3*	20	193	0
Di-n-octylphthalate	5	6.041	-	-20.8*	20	212	0
Benzo(b)fluoranthene	1.251	1.182	-	5.5	20	124	0
Benzo(k)fluoranthene	1.251	1.17	-	6.5	20	115	0
Benzo(a)pyrene	1.101	1.047	-	4.9	20	118	0
IS1_Perylene-d12	1	1	-	0	20	122	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	0.969	-	11.7	20	111	0
Dibenzo(a,h)anthracene	1.056	0.929	-	12	20	109	0
Benzo(ghi)perylene	0.977	0.908	-	7.1	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:54		
Lab File ID	: AP90927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	79	0
Benzaldehyde	1.145	1.163	-	-1.6	20	84	0
Acetophenone	2.032	1.99	-	2.1	20	82	0
m-Toluidine	1.86	1.922	-	-3.3	20	80	0
2-Chloroaniline	1.773	1.725	-	2.7	20	77	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.297	0.33	-	-11.1	20	88	0
3-Chloroaniline	0.163	0.168	-	-3.1	20	83	0
2,6-Dichlorophenol	0.319	0.317	-	0.6	20	78	0
1-chloro-2-nitrobenzene	0.155	0.158	-	-1.9	20	84	0
Caprolactam	5	5.286	-	-5.7	20	98	0
1,2,4,5-Tetrachlorobenzene	0.444	0.381	-	14.2	20	73	0
Biphenyl	1.036	0.889	-	14.2	20	74	0
IS2_Acenaphthene-d10	1	1	-	0	20	83	0
Dichloran	5	4.621	-	7.6	20	96	0
Pentachloronitrobenzene	5	5.213	-	-4.3	20	103	0
IS2_Phenanthrene-d10	1	1	-	0	20	88	0
Diphenamid	0.507	0.545	-	-7.5	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/28/24 00:19		
Lab File ID	: ADP0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	72	0
1,4-Dioxane	0.459	0.432	-	5.9	20	78	0
n-Decane	1.388	1.578	-	-13.7	20	90	0
IS3_Acenaphthene-d10	1	1	-	0	20	79	0
Atrazine	0.315	0.372	-	-18.1	20	93	0
IS3_Phenanthrene-d10	1	1	-	0	20	82	0
n-Octadecane	0.381	0.516	-	-35.4*	20	114	0
Parathion	5	6.955	-	-39.1*	20	142	0
3,3'-Dimethylbenzidine	5	4.48	-	10.4	20	96	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240927RVT\
Data File : ABN0927.D
Acq On : 27 Sep 2024 11:20 am
Operator : SV112:im
Sample : WG1977240-3,32,,ABN 10908 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 13:49:28 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 11:58:04 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	112	0.00
2	T	n-Nitrosodimethylamine		0.657	0.605	7.9	94	0.00
3	T	Pyridine		1.043	0.993	4.8	93	0.00
4	S	2-Fluorophenol		1.050	1.034	1.5	108	0.00
5	T	Aniline		1.811	1.593	12.0	101	0.00
6	T	2-Chlorophenol		1.251	1.219	2.6	111	0.00
7	S	Phenol-d6		1.357	1.244	8.3	101	0.00
8	T	Phenol		1.577	1.414	10.3	101	0.00
9	T	Bis(2-chloroethyl)ether		1.167	1.026	12.1	102	0.00
10	T	1,3-Dichlorobenzene		1.508	1.434	4.9	108	0.00
11	T	1,4-Dichlorobenzene		1.575	1.444	8.3	108	0.00
12	T	1,2-Dichlorobenzene		1.475	1.417	3.9	111	0.00
13	T	Benzyl alcohol		0.945	0.846	10.5	100	0.00
14	T	Bis(2-chloroisopropyl)ether		1.475	1.522	-3.2	119	0.00
15	T	2-Methylphenol		1.056	1.006	4.7	107	0.00
16	T	Hexachloroethane		0.558	0.492	11.8	101	0.00
17	T	n-Nitrosodi-n-propylamine		0.865	0.741	14.3	98	0.00
18	T	3-Methylphenol/4-Methylphen		1.150	1.130	1.7	108	0.00
19	S	Nitrobenzene-d5		1.294	1.143	11.7	99	0.00
20	T	Nitrobenzene		1.289	1.096	15.0	95	0.00
21	T	Isophorone		2.328	2.113	9.2	104	0.00
22	T	2-Nitrophenol		0.574	0.720	-25.4#	140	0.00
23	T	2,4-Dimethylphenol		1.101	1.086	1.4	121	0.00
24	T	Bis(2-chloroethoxy)methane		1.567	1.376	12.2	105	0.00
25	T	2,4-Dichlorophenol		1.153	1.252	-8.6	124	0.00
26	T	1,2,4-Trichlorobenzene		1.460	1.370	6.2	115	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	108	0.00
36	T	Naphthalene		1.049	1.008	3.9	109	0.00
37	T	Benzoic Acid	*	5.000	6.579	-31.6#	175	0.00
38	T	4-Chloroaniline		0.118	0.108	8.5	99	0.00
39	T	Hexachlorobutadiene		0.246	0.242	1.6	116	0.00
40	T	p-Chloro-m-cresol		0.277	0.293	-5.8	117	0.00
41	T	2-Methylnaphthalene		0.713	0.717	-0.6	119	0.00
42	T	1-Methylnaphthalene		0.245	0.215	12.2	106	0.00
43	T	Hexachlorocyclopentadiene		0.251	0.303	-20.7#	145	0.00
44	T	2,4,6-Trichlorophenol		0.256	0.293	-14.5	127	0.00
45	T	2,4,5-Trichlorophenol		0.262	0.311	-18.7	130	0.00
46	S	2-Fluorobiphenyl		0.904	0.923	-2.1	121	0.00

Data Path : I:\8270\SV112\240927RVT\
Data File : ABN0927.D
Acq On : 27 Sep 2024 11:20 am
Operator : SV112:im
Sample : WG1977240-3,32,,ABN 10908 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 13:49:28 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 11:58:04 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.759	0.777	-2.4	120	0.00
48	T	2-Nitroaniline		0.200	0.255	-27.5#	144	0.00
49	T	1,4-Dinitrobenzene		0.098	0.141	-43.9#	159	0.00
50	T	1,3-Dinitrobenzene		0.114	0.151	-32.5#	148	0.00
51	T	Dimethyl phthalate		0.923	0.996	-7.9	130	0.00
52	T	Acenaphthylene		1.120	1.216	-8.6	124	0.00
53	T	2,6-Dinitrotoluene		0.173	0.216	-24.9#	143	0.00
54	T	1,2-Dinitrobenzene		0.076	0.097	-27.6#	148	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	120	0.00
64	T	3-Nitroaniline		0.299	0.351	-17.4	137	0.00
65	T	Acenaphthene		1.115	1.054	5.5	122	0.00
66	T	2,4-Dinitrophenol	*	5.000	7.482	-49.6#	205	0.00
67	T	Dibenzofuran		1.837	1.762	4.1	123	0.00
68	T	2,4-Dinitrotoluene		0.383	0.456	-19.1	141	0.00
69	T	4-Nitrophenol		0.290	0.219	24.5#	92	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.377	0.451	-19.6	140	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.370	0.431	-16.5	142	0.00
72	T	Diethyl phthalate		1.487	1.491	-0.3	134	0.00
73	T	Fluorene		1.431	1.419	0.8	127	0.00
74	T	4-Chlorophenyl phenyl ether		0.780	0.721	7.6	125	0.00
75	T	4-Nitroaniline		0.314	0.371	-18.2	134	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	6.676	-33.5#	196	0.00
77	T	NDPA/DPA		1.231	1.241	-0.8	130	0.00
78	T	Azobenzene		1.305	1.092	16.3	104	0.00
79	S	2,4,6-Tribromophenol		0.257	0.295	-14.8	151	0.00
80	T	4-Bromophenyl phenyl ether		0.500	0.485	3.0	132	0.00
81	T	Hexachlorobenzene		0.628	0.606	3.5	138	0.00
82	T	Pentachlorophenol		0.322	0.400	-24.2#	160	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	124	0.00
89	T	Phenanthrene		1.058	1.053	0.5	129	0.00
90	T	Anthracene		1.035	1.053	-1.7	132	0.00
91	T	Carbazole		0.948	0.995	-5.0	131	0.00
92	T	Di-n-butylphthalate		1.034	1.204	-16.4	153	0.00
93	T	Fluoranthene		1.228	1.292	-5.2	136	0.00
94	T	Benzidine		0.675	0.846	-25.3#	150	0.00
95	T	Pyrene		1.301	1.361	-4.6	131	0.00
96	S	4-Terphenyl-d14		1.029	1.048	-1.8	136	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240927RVT\
Data File : ABN0927.D
Acq On : 27 Sep 2024 11:20 am
Operator : SV112:im
Sample : WG1977240-3,32,,ABN 10908 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 13:49:28 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 11:58:04 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.458	0.573	-25.1#	169	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	132	0.00
105	T	Benzo(a)anthracene	1.284	1.250	2.6	133	0.00
106	T	3,3'-Dichlorobenzidine	0.468	0.521	-11.3	147	0.00
107	T	Chrysene	1.259	1.162	7.7	127	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.639	0.755	-18.2	163	0.00
109	T	Di-n-octylphthalate	0.979	1.304	-33.2#	173	0.00
110	T	Benzo(b)fluoranthene	1.317	1.383	-5.0	140	0.00
111	T	Benzo(k)fluoranthene	1.202	1.185	1.4	122	0.00
112	T	Benzo(a)pyrene	1.149	1.196	-4.1	134	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	128	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.118	1.172	-4.8	131	0.00
115	T	Dibenzo(a,h)anthracene	1.068	1.117	-4.6	132	0.00
116	T	Benzo(ghi)perylene	1.078	1.062	1.5	128	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : ABN0927.D
Acq On : 27 Sep 2024 11:20 am
Operator : SV112:im
Sample : WG1977240-3,32,,ABN 10908 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 13:49:28 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 11:58:04 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.681	152	23724	4.000	ug/ml		0.00
35) IS1_Naphthalene-d8	5.911	136	87995	4.000	ug/ml		0.00
63) IS1_Acenaphthene-d10	7.610	164	59162	4.000	ug/ml		0.00
88) IS1_Phenanthrene-d10	9.040	188	129228	4.000	ug/ml	#	0.00
104) IS1_Chrysene-d12	11.669	240	146679	4.000	ug/ml	#	0.00
113) IS1_Perylene-d12	13.128	264	167853	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	3.428	112	30666	4.923	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 246.15%#				
7) Phenol-d6	4.369	99	36891	4.585	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 229.25%#				
19) Nitrobenzene-d5	5.222	82	33895	4.417	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 441.70%#				
46) 2-Fluorobiphenyl	6.981	172	101545	5.104	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 510.40%#				
79) 2,4,6-Tribromophenol	8.375	330	21816	5.745	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 287.25%#				
96) 4-Terphenyl-d14	10.616	244	169263	5.092	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 509.20%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.052	74	17927	4.600	ug/ml	#	95
3) Pyridine	2.093	79	29460M1	4.764	ug/ml		
5) Aniline	4.369	93	47245	4.399	ug/ml	#	57
6) 2-Chlorophenol	4.481	128	36153	4.874	ug/ml	#	90
8) Phenol	4.381	94	41946	4.485	ug/ml	#	55
9) Bis(2-chloroethyl)ether	4.446	93	30428	4.395	ug/ml		96
10) 1,3-Dichlorobenzene	4.628	146	42528	4.754	ug/ml		95
11) 1,4-Dichlorobenzene	4.699	146	42818	4.585	ug/ml		95
12) 1,2-Dichlorobenzene	4.846	146	42023	4.803	ug/ml		94
13) Benzyl alcohol	4.834	79	25075	4.475	ug/ml		92
14) Bis(2-chloroisopropyl)...	4.975	45	45124	5.159	ug/ml	#	71
15) 2-Methylphenol	4.969	108	29843	4.763	ug/ml		97
16) Hexachloroethane	5.169	117	14596	4.413	ug/ml	#	50
17) n-Nitrosodi-n-propylamine	5.099	70	21978	4.283	ug/ml		94
18) 3-Methylphenol/4-Methy...	5.122	108	33509	4.911	ug/ml		97
20) Nitrobenzene	5.240	77	32490	4.248	ug/ml	#	89
21) Isophorone	5.481	82	62668	4.539	ug/ml	#	94
22) 2-Nitrophenol	5.552	139	21356	6.270	ug/ml	#	85

Data Path : I:\8270\SV112\240927RVT\
Data File : ABN0927.D
Acq On : 27 Sep 2024 11:20 am
Operator : SV112:im
Sample : WG1977240-3,32,,ABN 10908 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 13:49:28 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 11:58:04 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.628	107	32203	4.931	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.716	93	40806	4.390	ug/ml#	97
25) 2,4-Dichlorophenol	5.793	162	37120	5.429	ug/ml#	90
26) 1,2,4-Trichlorobenzene	5.869	180	40616	4.691	ug/ml	96
36) Naphthalene	5.934	128	110876	4.806	ug/ml	99
37) Benzoic Acid	5.711	105	28997	6.579	ug/ml	91
38) 4-Chloroaniline	6.005	65	11910	4.594	ug/ml#	66
39) Hexachlorobutadiene	6.081	225	26638	4.927	ug/ml	99
40) p-Chloro-m-cresol	6.505	107	32176	5.283	ug/ml#	87
41) 2-Methylnaphthalene	6.610	142	78837	5.025	ug/ml	96
42) 1-Methylnaphthalene	6.705	115	23636	4.381	ug/ml	79
43) Hexachlorocyclopentadiene	6.781	237	33364	6.046	ug/ml	98
44) 2,4,6-Trichlorophenol	6.899	196	32243M3	5.715	ug/ml	
45) 2,4,5-Trichlorophenol	6.928	196	34157	5.917	ug/ml	96
47) 2-Chloronaphthalene	7.075	162	85447	5.121	ug/ml#	92
48) 2-Nitroaniline	7.187	138	28009	6.352	ug/ml#	80
49) 1,4-Dinitrobenzene	7.316	168	15462	7.149	ug/ml#	63
50) 1,3-Dinitrobenzene	7.393	168	16659	6.643	ug/ml#	65
51) Dimethyl phthalate	7.387	163	109532	5.396	ug/ml	100
52) Acenaphthylene	7.469	152	133774	5.430	ug/ml	99
53) 2,6-Dinitrotoluene	7.428	165	23769	6.261	ug/ml#	78
54) 1,2-Dinitrobenzene	7.469	168	10629	6.360	ug/ml#	34
64) 3-Nitroaniline	7.587	138	25943	5.871	ug/ml#	78
65) Acenaphthene	7.646	154	77924	4.726	ug/ml	97
66) 2,4-Dinitrophenol	7.681	184	18492	7.482	ug/ml#	73
67) Dibenzofuran	7.810	168	130295	4.795	ug/ml	90
68) 2,4-Dinitrotoluene	7.816	165	33695	5.943	ug/ml#	73
69) 4-Nitrophenol	7.781	65	16205	3.784	ug/ml#	73
70) 2,3,5,6-Tetrachlorophenol	7.905	232	33367	5.991	ug/ml	100
71) 2,3,4,6-Tetrachlorophenol	7.946	232	31879	5.826	ug/ml	98
72) Diethyl phthalate	8.075	149	110241	5.014	ug/ml	96
73) Fluorene	8.140	166	104960	4.960	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.163	204	53328	4.625	ug/ml#	80
75) 4-Nitroaniline	8.169	138	27407	5.895	ug/ml#	81
76) 4,6-Dinitro-o-cresol	8.205	198	24552	6.676	ug/ml#	67
77) NDPA/DPA	8.275	169	91762	5.041	ug/ml	95
78) Azobenzene	8.310	77	80734	4.182	ug/ml#	89
80) 4-Bromophenyl phenyl e...	8.628	248	35867	4.855	ug/ml#	81
81) Hexachlorobenzene	8.681	284	44810	4.827	ug/ml#	83
82) Pentachlorophenol	8.875	266	29615	6.213	ug/ml	98
89) Phenanthrene	9.063	178	170041	4.974	ug/ml	99

Data Path : I:\8270\SV112\240927RVT\
Data File : ABN0927.D
Acq On : 27 Sep 2024 11:20 am
Operator : SV112:im
Sample : WG1977240-3,32,,ABN 10908 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 13:49:28 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 11:58:04 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	9.110	178	170114	5.086	ug/ml	99
91) Carbazole	9.281	167	160759	5.249	ug/ml	99
92) Di-n-butylphthalate	9.669	149	194417	5.820	ug/ml	99
93) Fluoranthene	10.210	202	208702	5.261	ug/ml#	94
94) Benzidine	10.363	184	136646	6.266	ug/ml#	96
95) Pyrene	10.428	202	219819	5.228	ug/ml	99
97) Butyl benzyl phthalate	11.140	149	92530	6.260	ug/ml#	83
105) Benzo(a)anthracene	11.657	228	229254	4.867	ug/ml	98
106) 3,3'-Dichlorobenzidine	11.657	252	95544	5.569	ug/ml#	97
107) Chrysene	11.693	228	213038	4.614	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.775	149	138337	5.907	ug/ml#	98
109) Di-n-octylphthalate	12.451	149	239009	6.659	ug/ml#	94
110) Benzo(b)fluoranthene	12.757	252	253551	5.249	ug/ml#	95
111) Benzo(k)fluoranthene	12.787	252	217351M3	4.929	ug/ml	
112) Benzo(a)pyrene	13.075	252	219264	5.202	ug/ml#	94
114) Indeno(1,2,3-cd)pyrene	14.104	276	245831M6	5.238	ug/mL	
115) Dibenzo(a,h)anthracene	14.122	278	234338	5.228	ug/ml#	91
116) Benzo(ghi)perylene	14.351	276	222906	4.929	ug/ml#	91

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : ABN0927.D
Acq On : 27 Sep 2024 11:20 am
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Sample : WG1977240-3,32,,ABN 10908 HNY0924A
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Quant Time: Sep 27 13:49:28 2024
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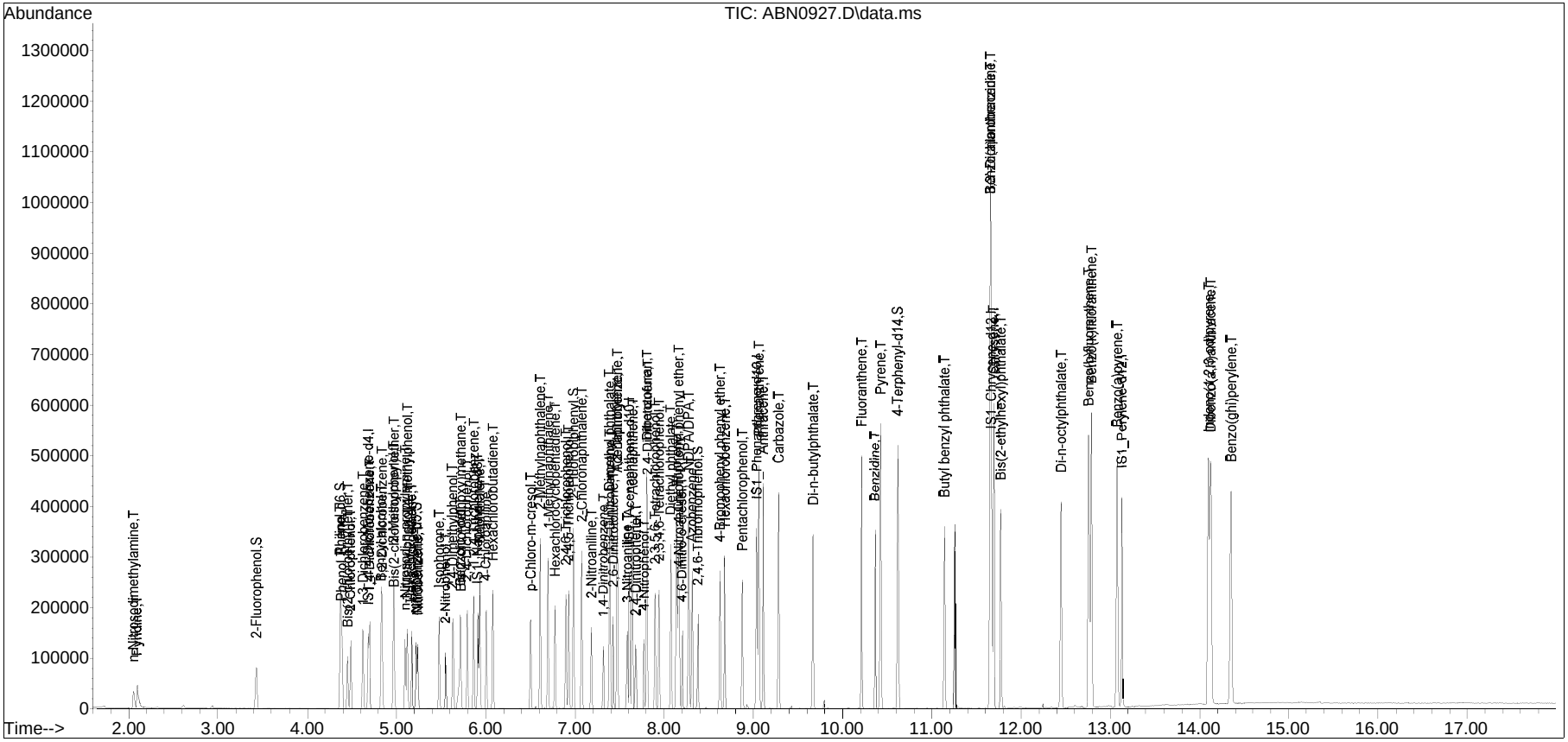
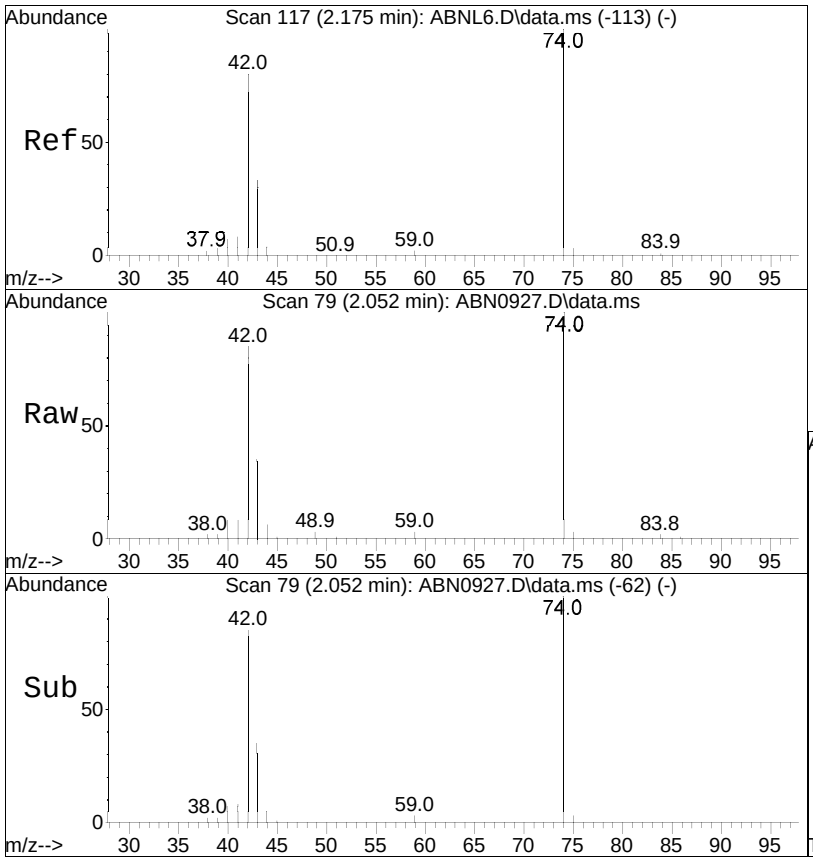
Sub List : ABNical - ABN ical sublist

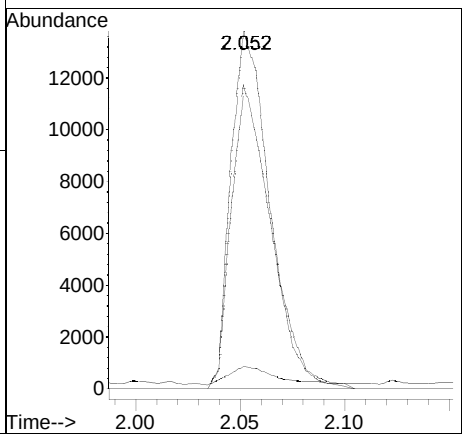


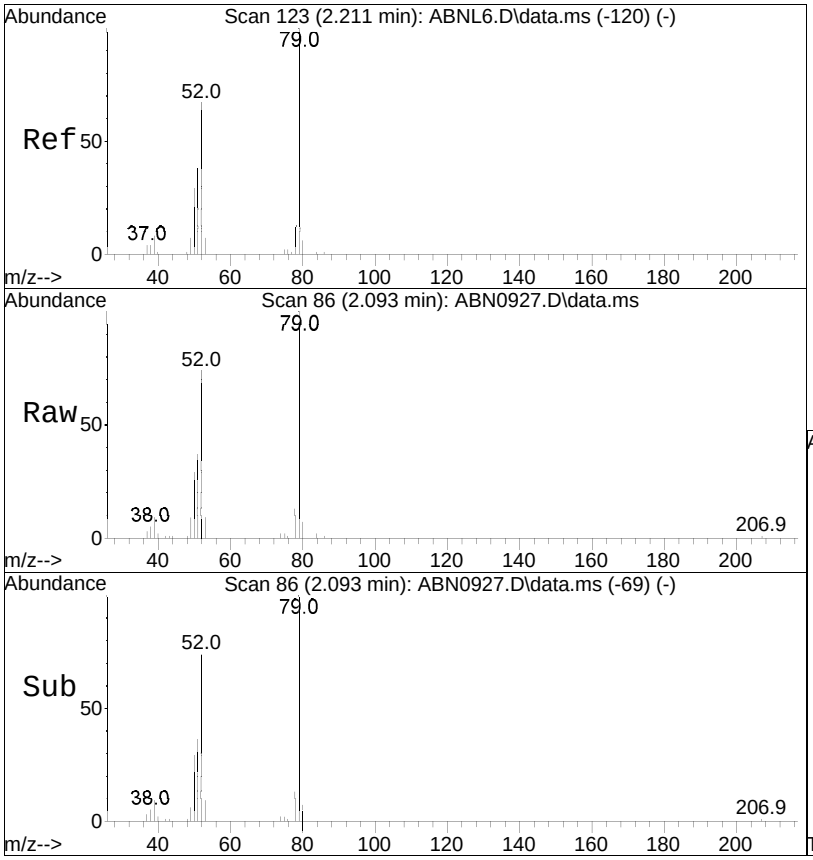


#2
n-Nitrosodimethylamine
Concen: 4.60 ug/ml
RT: 2.052 min Scan# 79
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 74 Resp: 17927

Ion	Ratio	Lower	Upper
74	100		
42	84.5	63.8	95.8
44	6.6	4.3	6.5#

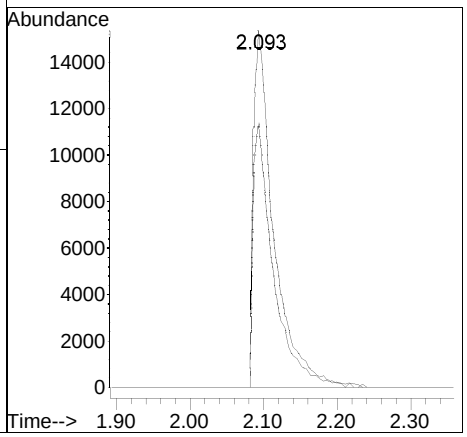


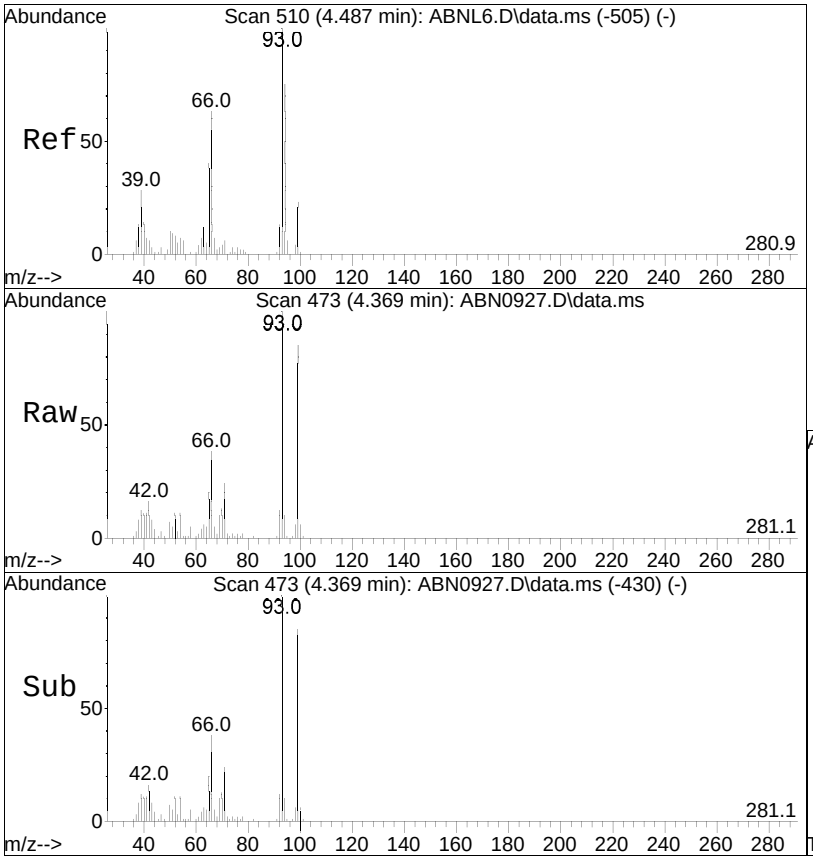


#3
Pyridine
Concen: 4.76 ug/ml M1
RT: 2.093 min Scan# 86
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 79 Resp: 29460

Ion	Ratio	Lower	Upper
79	100		
52	71.2	64.6	96.8

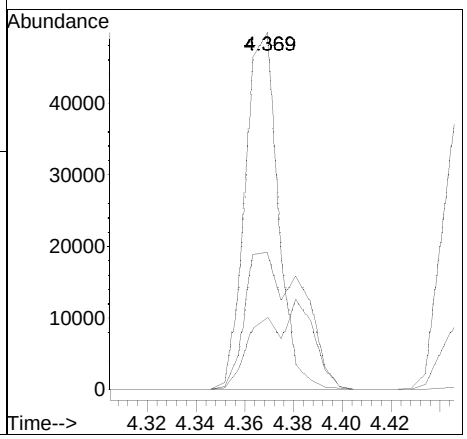


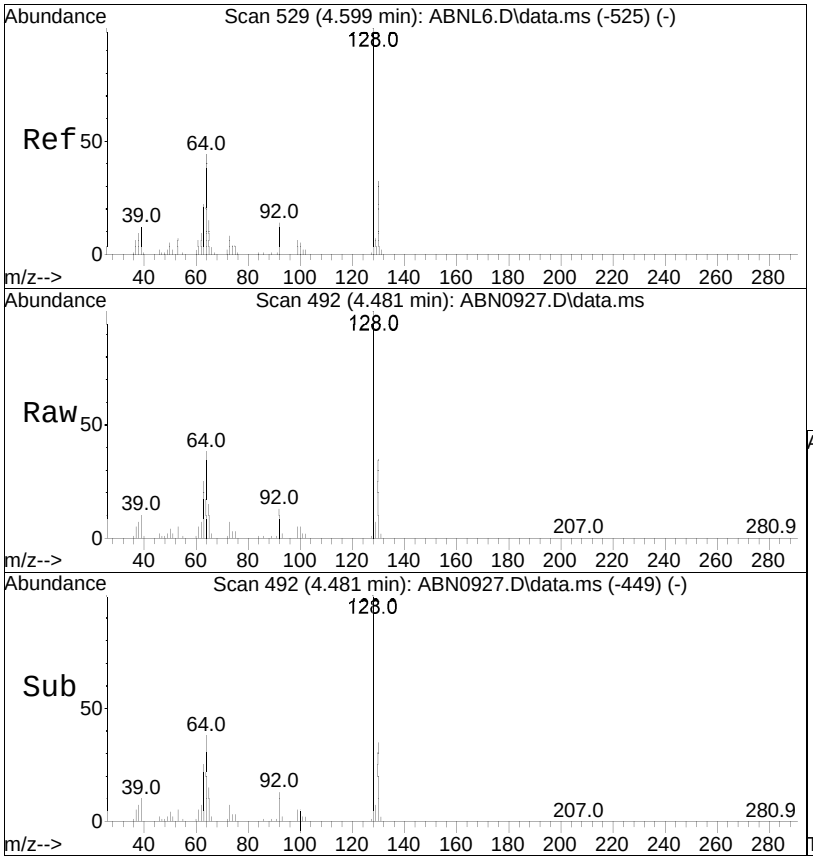


#5
Aniline
Concen: 4.40 ug/ml
RT: 4.369 min Scan# 473
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 93 Resp: 47245

Ion	Ratio	Lower	Upper
93	100		
66	65.6	31.3	46.9#
65	40.7	16.6	25.0#

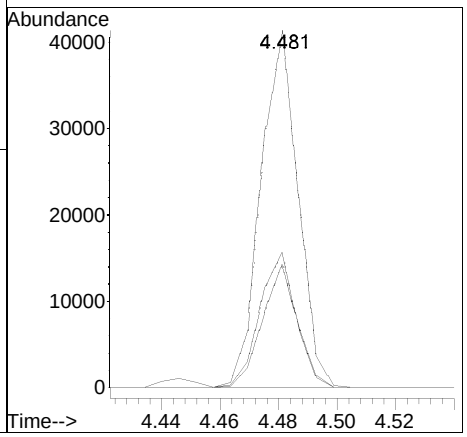


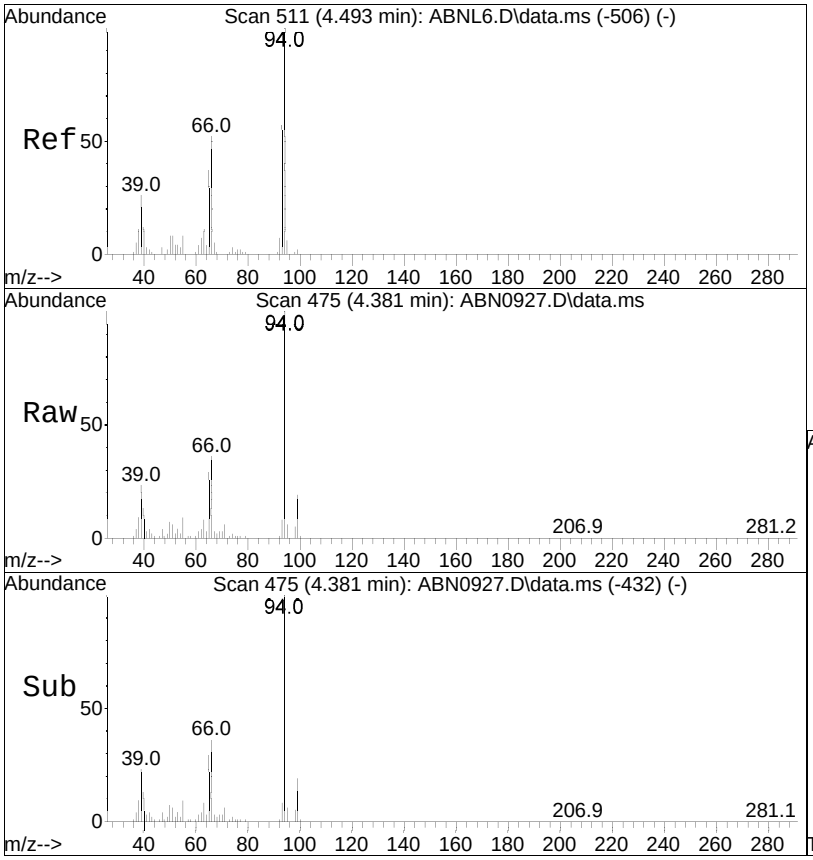


#6
2-Chlorophenol
Concen: 4.87 ug/ml
RT: 4.481 min Scan# 492
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:128 Resp: 36153

Ion	Ratio	Lower	Upper
128	100		
64	37.1	38.2	57.4#
130	32.9	26.2	39.2

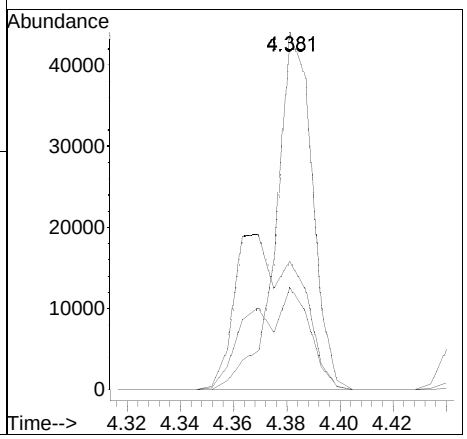


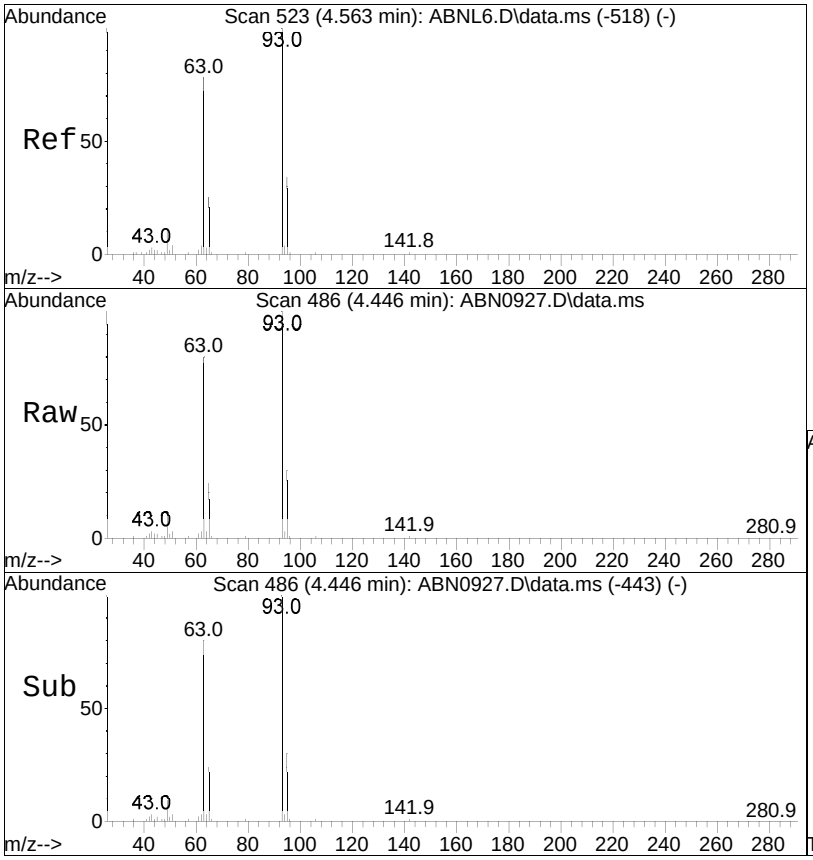


#8
Phenol
Concen: 4.48 ug/ml
RT: 4.381 min Scan# 475
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 94 Resp: 41946

Ion	Ratio	Lower	Upper
94	100		
65	45.8	23.0	34.6#
66	73.9	32.1	48.1#

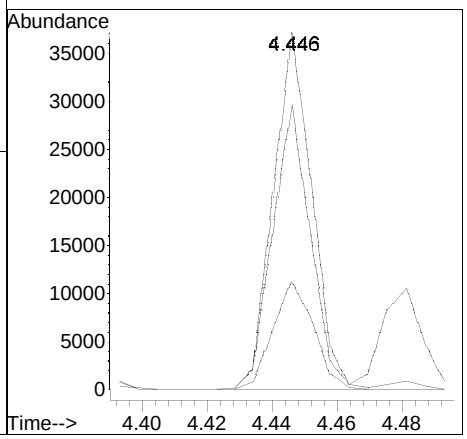


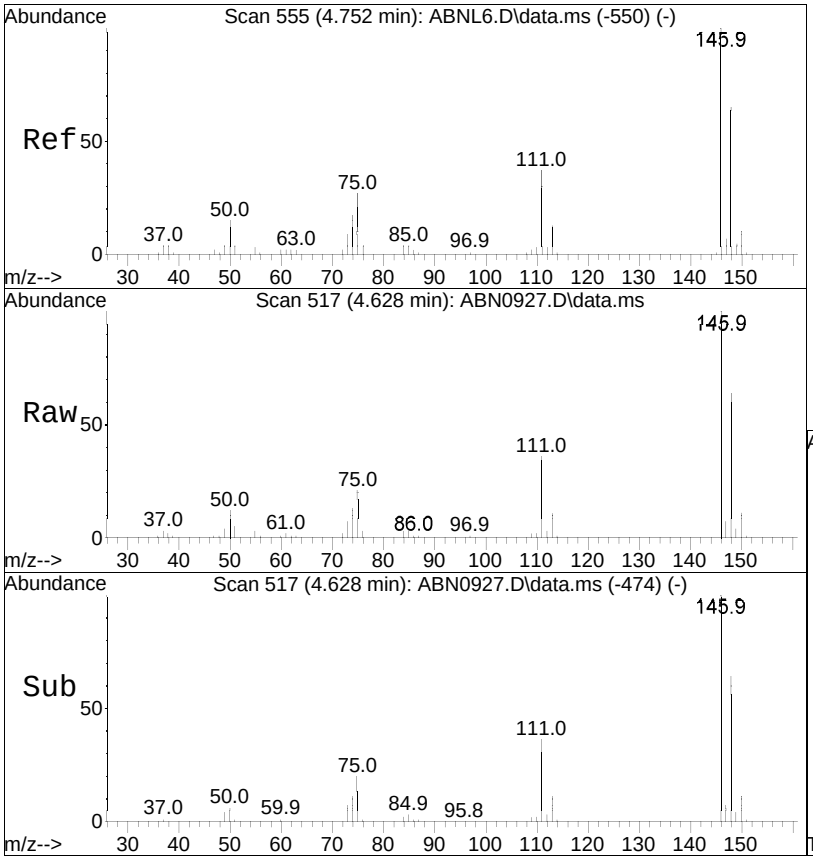


#9
Bis(2-chloroethyl)ether
Concen: 4.40 ug/ml
RT: 4.446 min Scan# 486
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 93 Resp: 30428

Ion	Ratio	Lower	Upper
93	100		
63	78.4	67.0	100.4
95	32.1	26.1	39.1

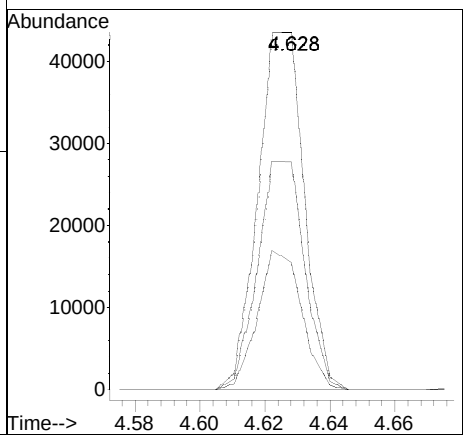


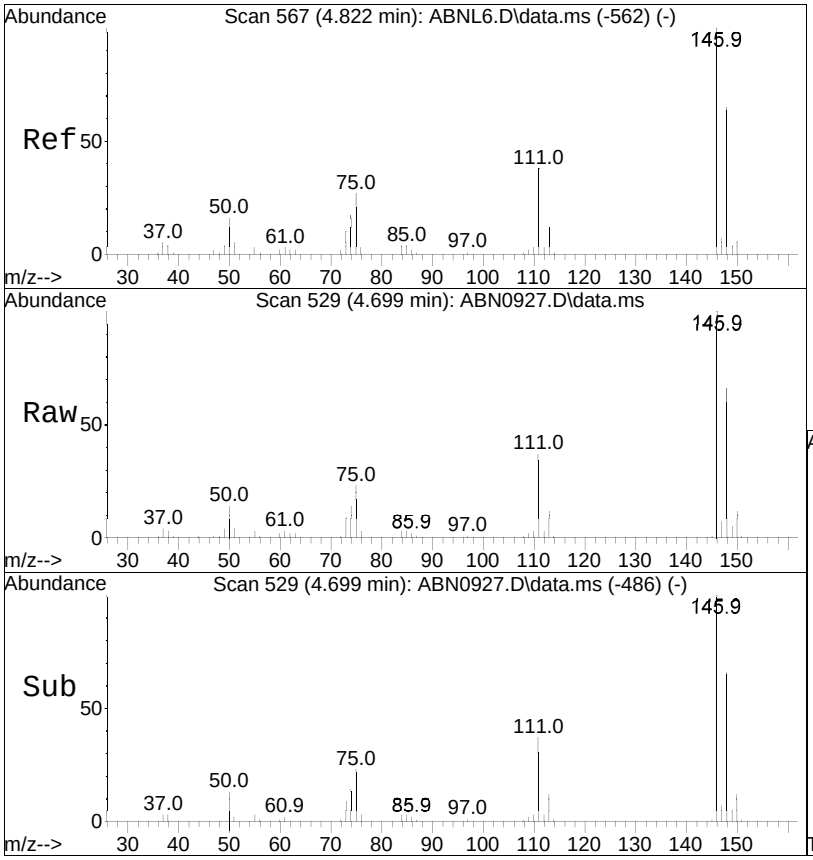


#10
1,3-Dichlorobenzene
Concen: 4.75 ug/ml
RT: 4.628 min Scan# 517
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:146 Resp: 42528

Ion	Ratio	Lower	Upper
146	100		
111	37.3	35.0	52.4
148	64.8	51.3	76.9

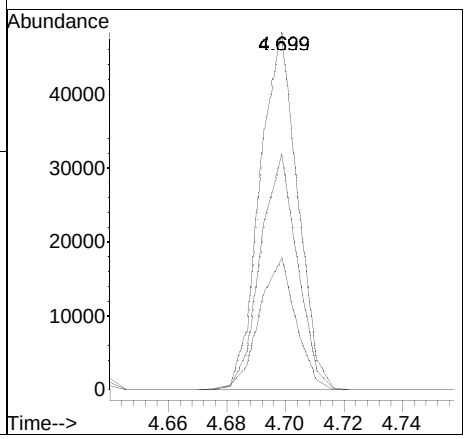


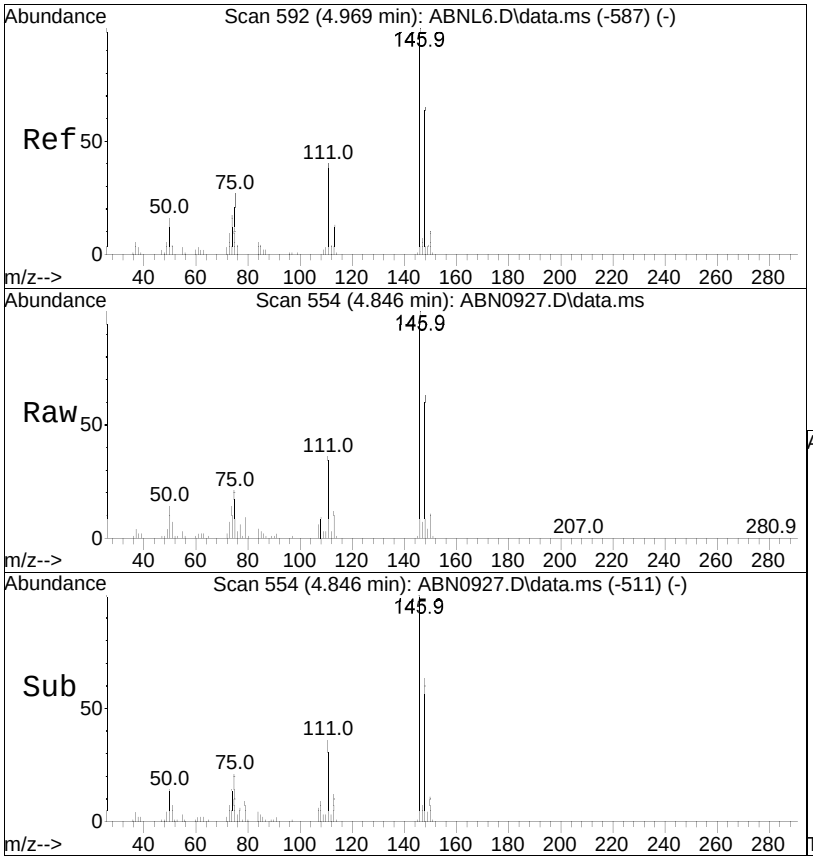


#11
1,4-Dichlorobenzene
Concen: 4.58 ug/ml
RT: 4.699 min Scan# 529
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:146 Resp: 42818

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.1	76.7
111	36.2	34.4	51.6

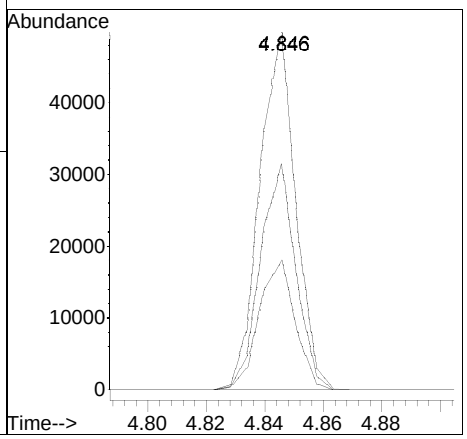


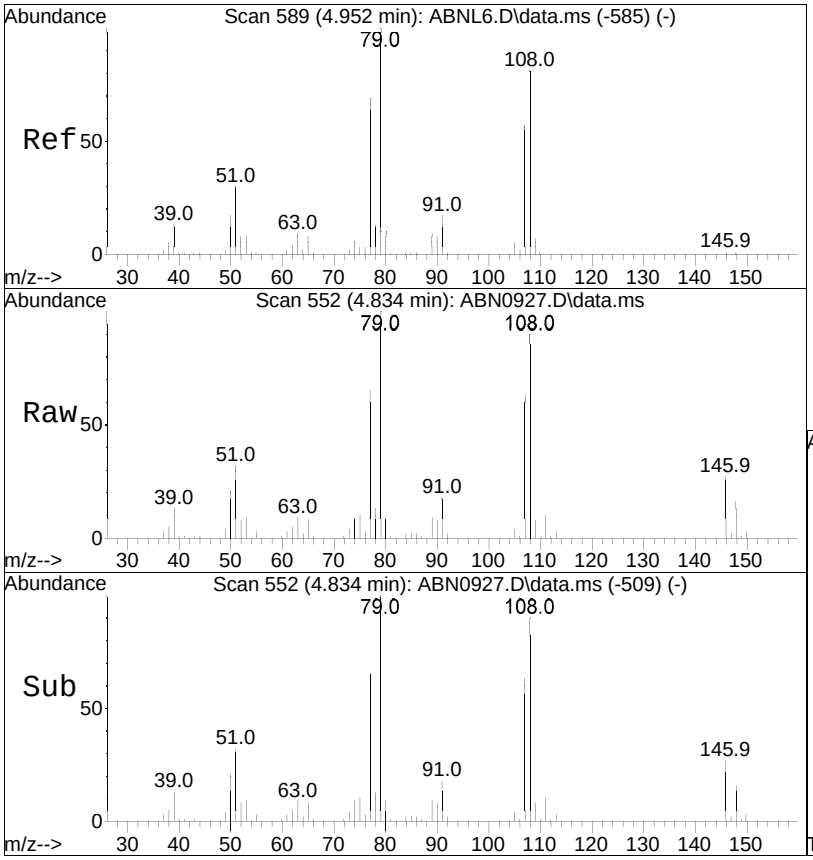


#12
1,2-Dichlorobenzene
Concen: 4.80 ug/ml
RT: 4.846 min Scan# 554
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:146 Resp: 42023

Ion	Ratio	Lower	Upper
146	100		
111	36.7	35.5	53.3
148	62.4	50.6	76.0

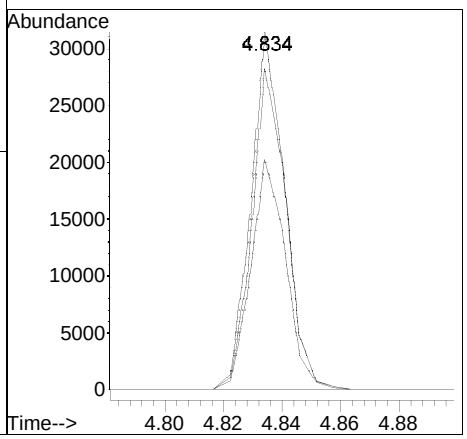


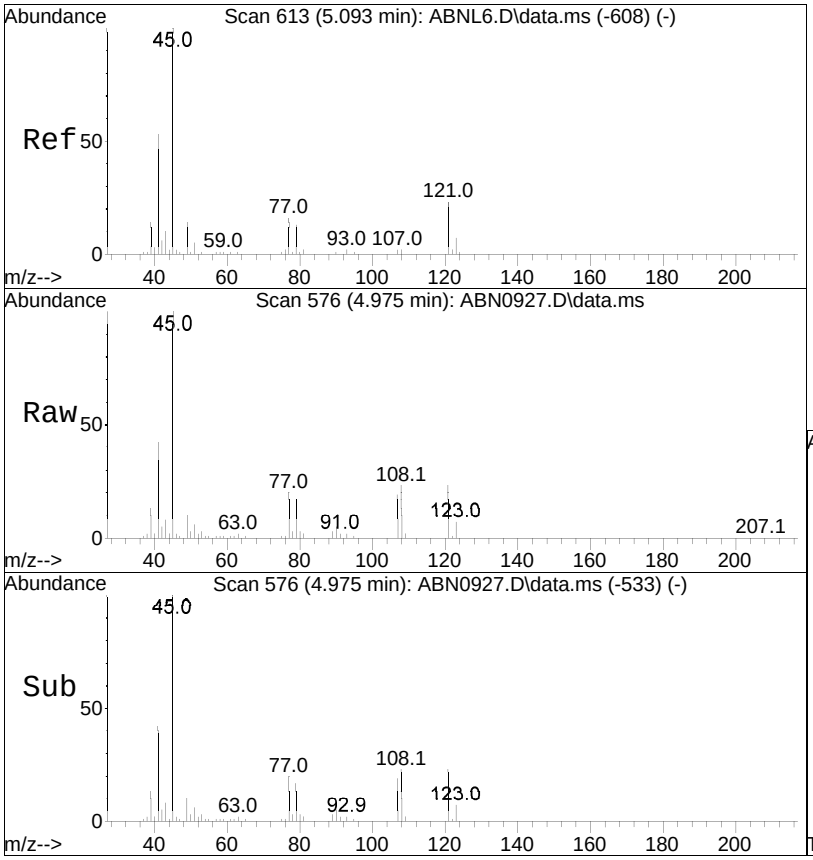


#13
Benzyl alcohol
Concen: 4.48 ug/ml
RT: 4.834 min Scan# 552
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 79 Resp: 25075

Ion	Ratio	Lower	Upper
79	100		
77	66.2	51.8	77.6
108	90.7	63.9	95.9

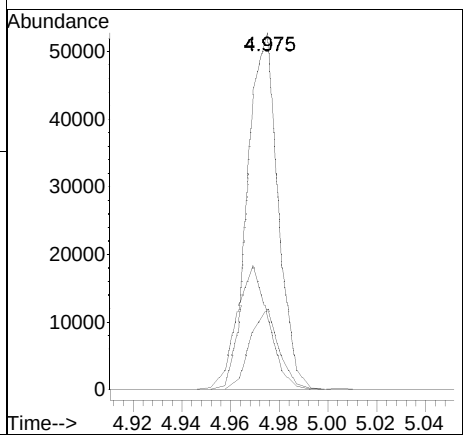


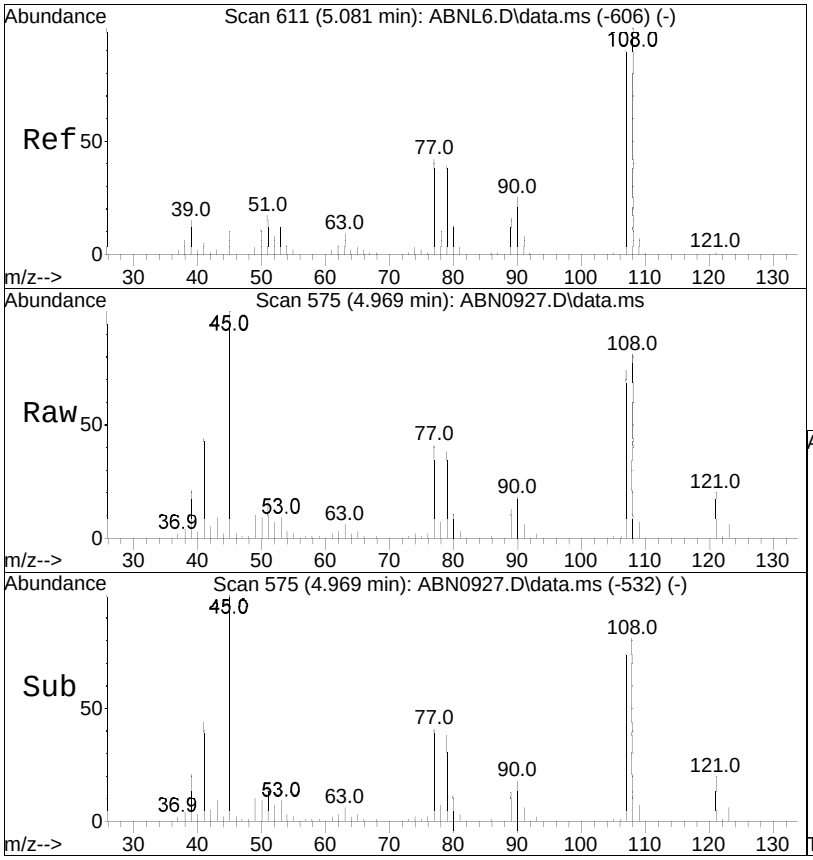


#14
Bis(2-chloroisopropyl)ether
Concen: 5.16 ug/ml
RT: 4.975 min Scan# 576
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 45 Resp: 45124

Ion	Ratio	Lower	Upper
45	100		
121	21.7	14.8	22.2
77	37.1	10.5	15.7#

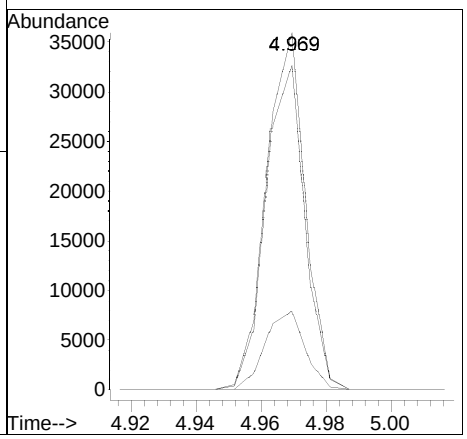


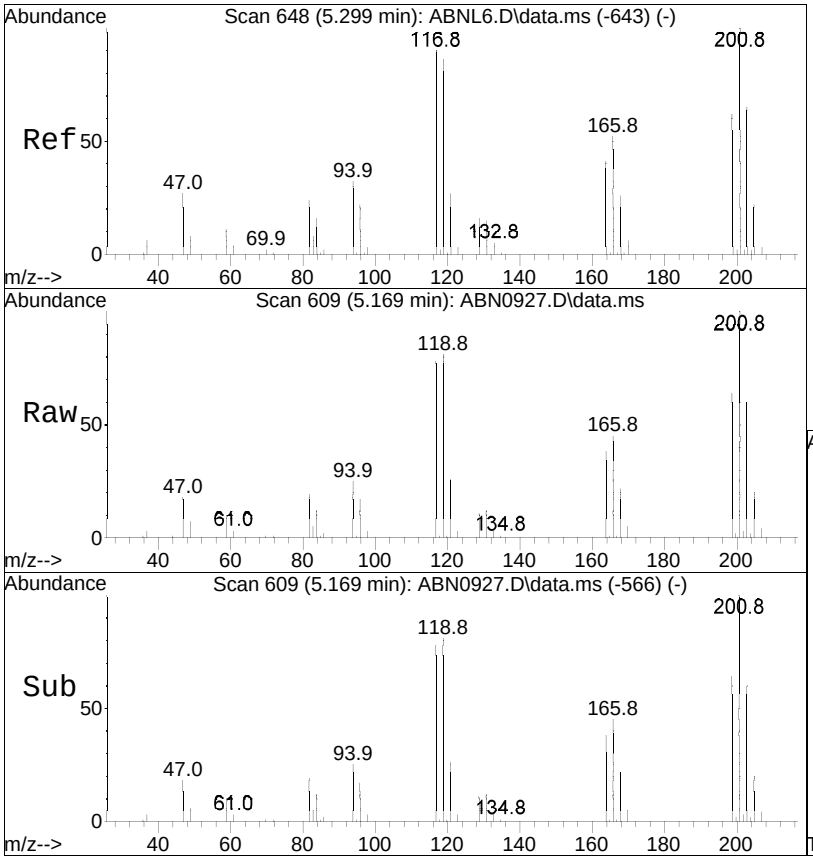


#15
2-Methylphenol
Concen: 4.76 ug/ml
RT: 4.969 min Scan# 575
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:108 Resp: 29843

Ion	Ratio	Lower	Upper
108	100		
107	91.0	71.0	106.4
90	22.5	19.7	29.5

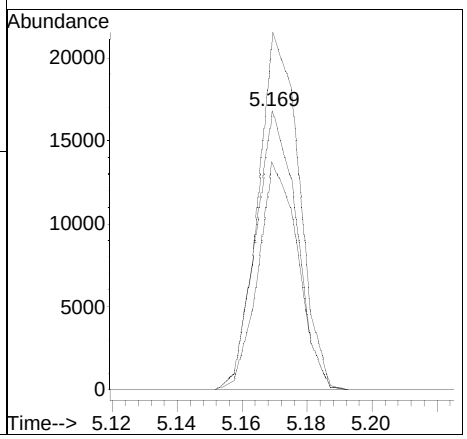


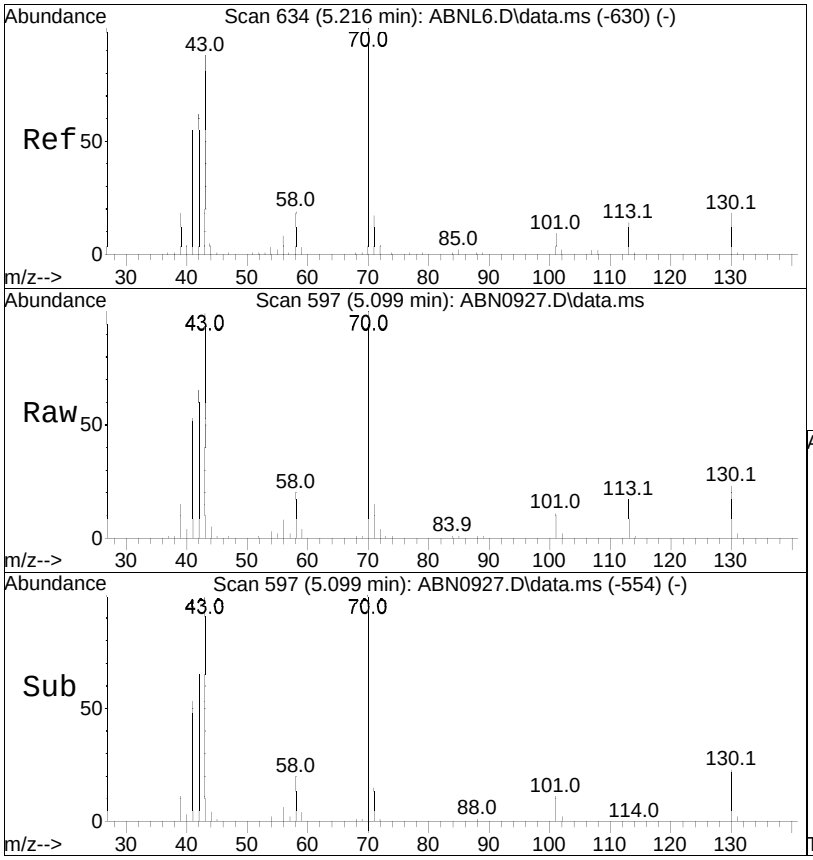


#16
Hexachloroethane
Concen: 4.41 ug/ml
RT: 5.169 min Scan# 609
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:117 Resp: 14596

Ion	Ratio	Lower	Upper
117	100		
201	129.0	64.4	96.6#
199	80.1	40.5	60.7#

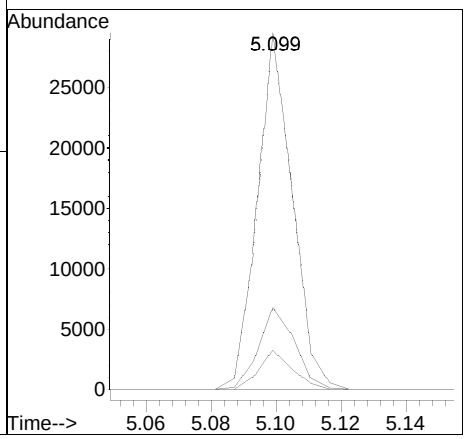


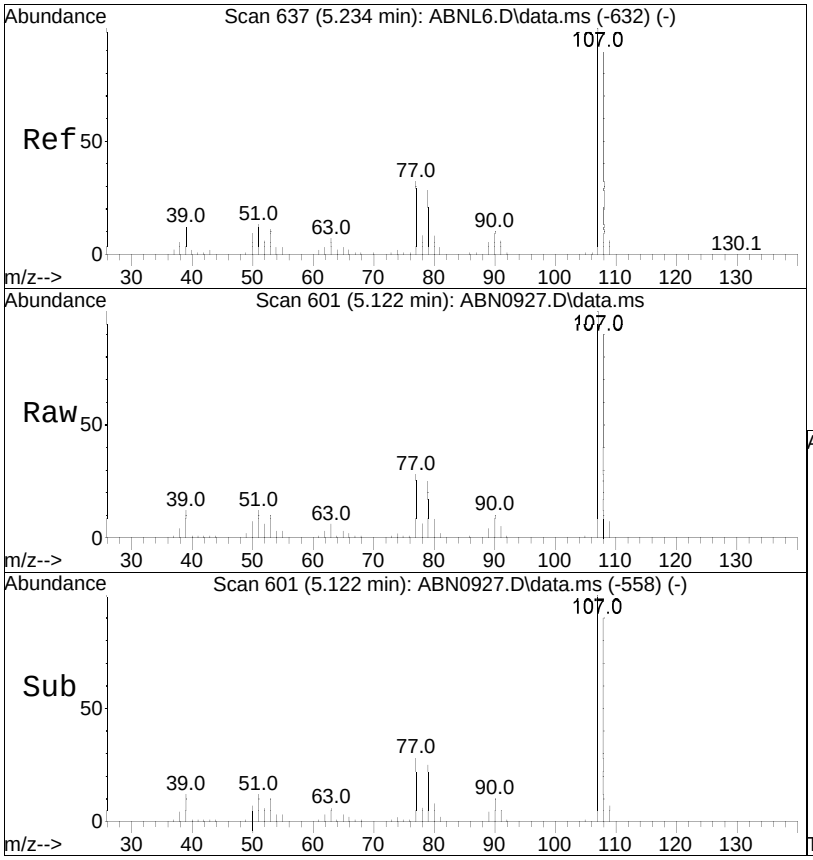


#17
n-Nitrosodi-n-propylamine
Concen: 4.28 ug/ml
RT: 5.099 min Scan# 597
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 70 Resp: 21978

Ion	Ratio	Lower	Upper
70	100		
130	23.9	16.2	24.4
101	10.6	7.6	11.4

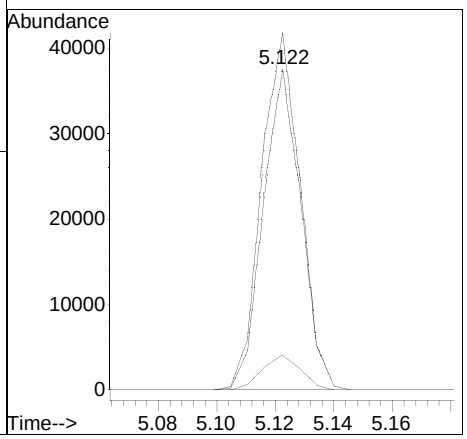


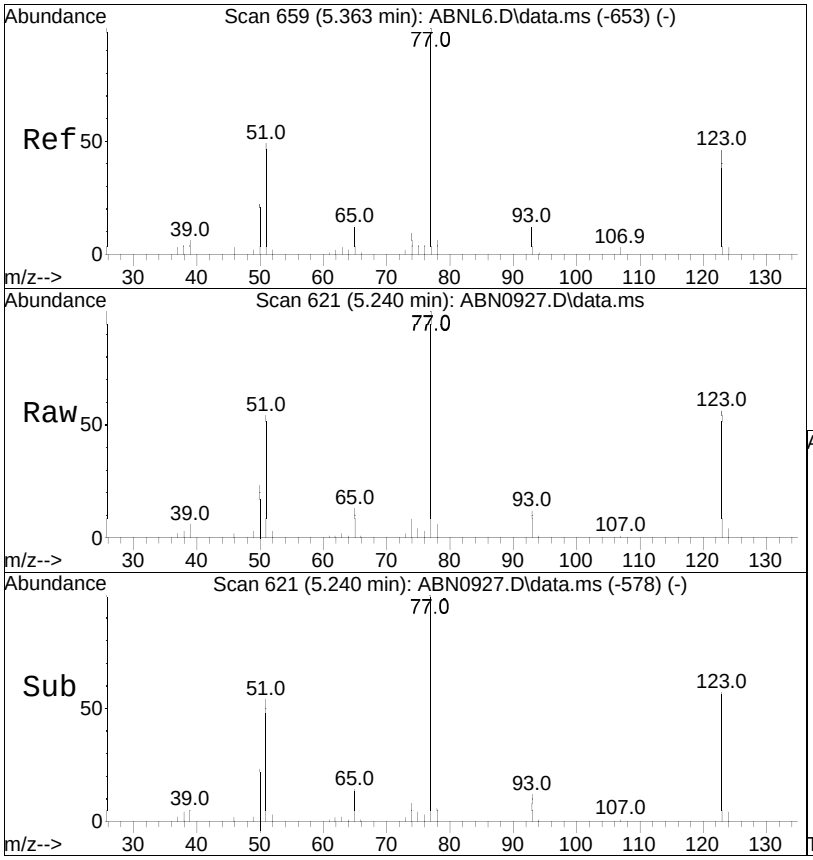


#18
3-Methylphenol/4-Methylphenol
Concen: 4.91 ug/ml
RT: 5.122 min Scan# 601
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:108 Resp: 33509

Ion	Ratio	Lower	Upper
108	100		
107	114.2	88.8	133.2
90	11.1	9.0	13.6

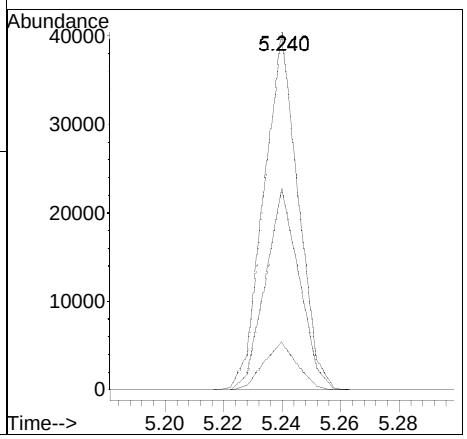


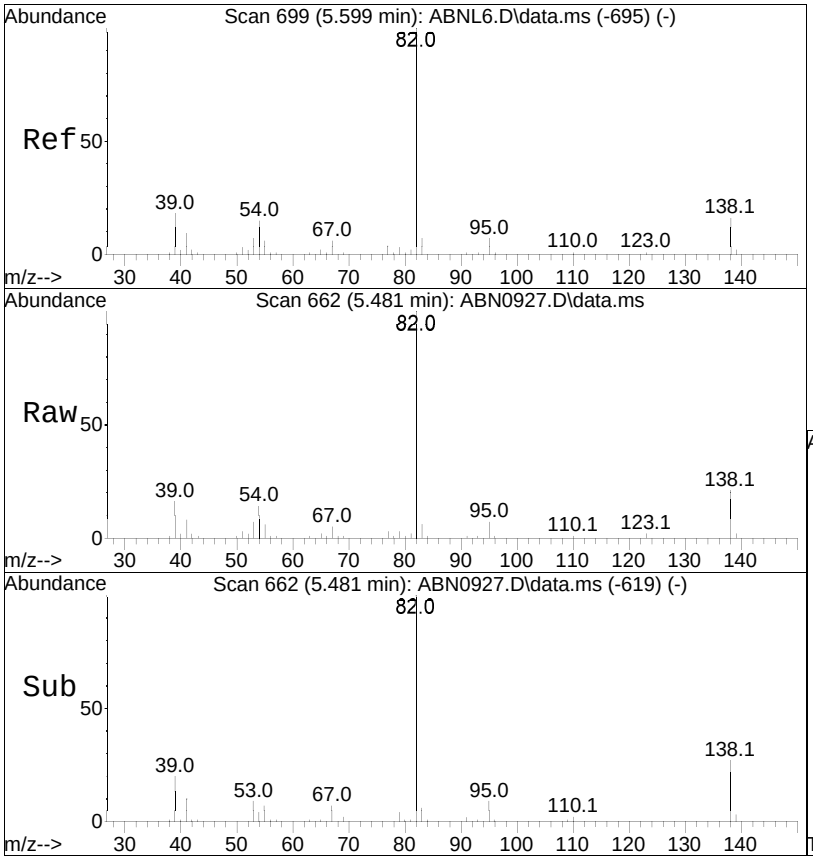


#20
Nitrobenzene
Concen: 4.25 ug/ml
RT: 5.240 min Scan# 621
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 77 Resp: 32490

Ion	Ratio	Lower	Upper
77	100		
123	56.0	37.3	55.9#
65	13.2	10.9	16.3

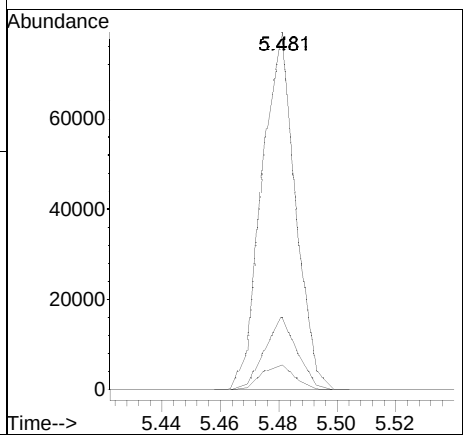


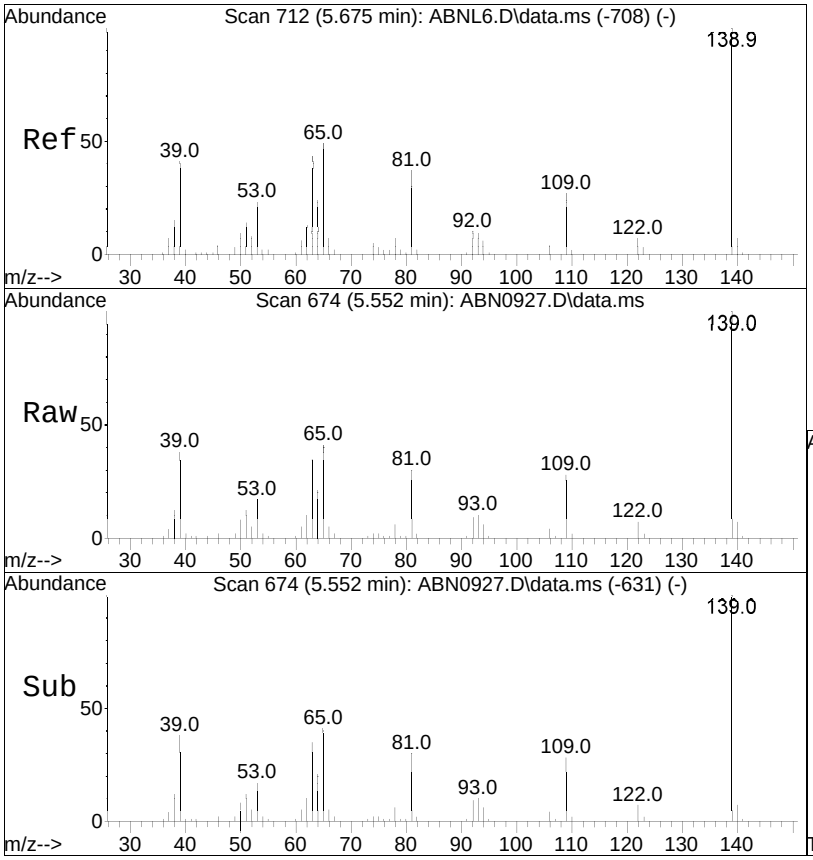


#21
Isophorone
Concen: 4.54 ug/ml
RT: 5.481 min Scan# 662
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 82 Resp: 62668

Ion	Ratio	Lower	Upper
82	100		
138	19.7	13.0	19.4#
95	7.1	5.5	8.3

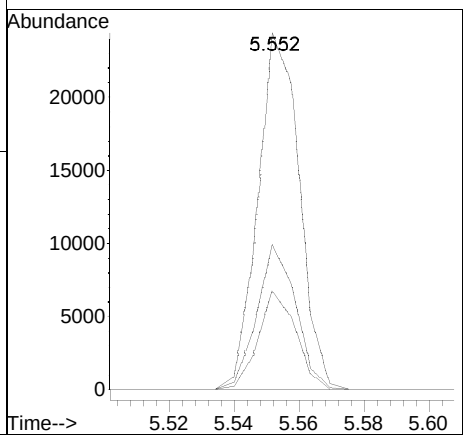


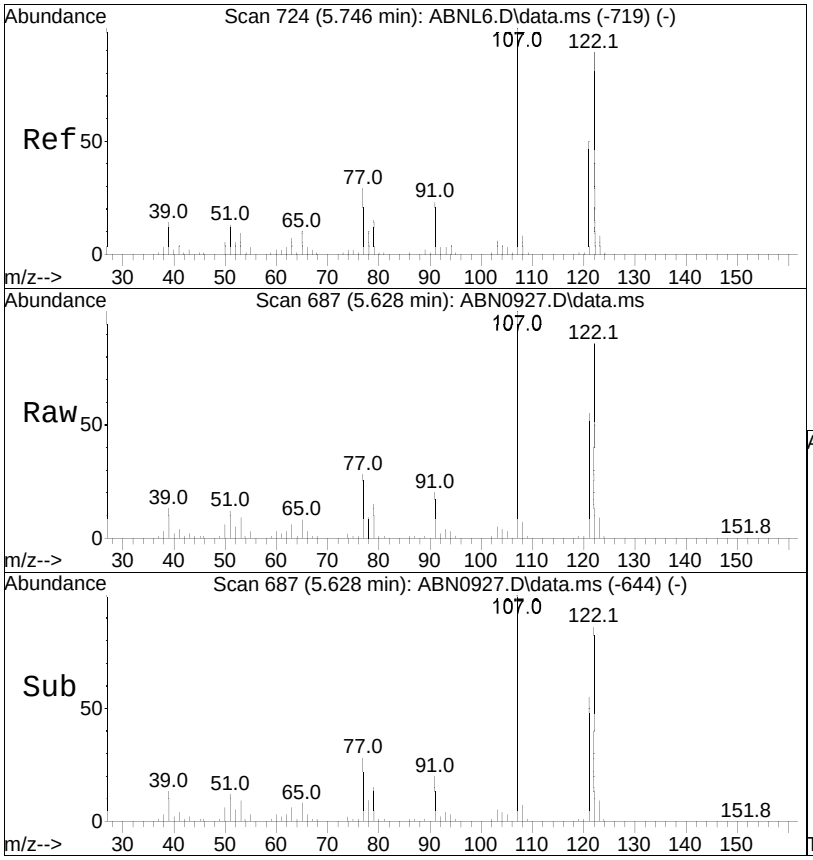


#22
2-Nitrophenol
Concen: 6.27 ug/ml
RT: 5.552 min Scan# 674
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:139 Resp: 21356

Ion	Ratio	Lower	Upper
139	100		
109	25.4	23.1	34.7
65	38.4	41.4	62.2#

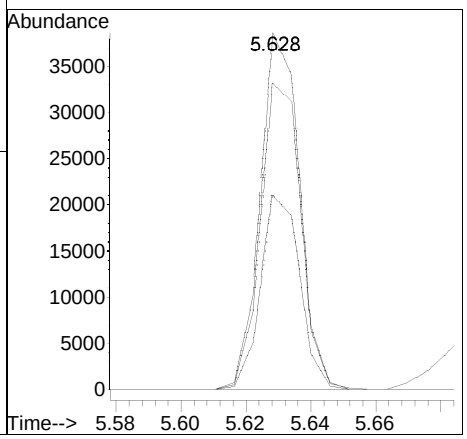


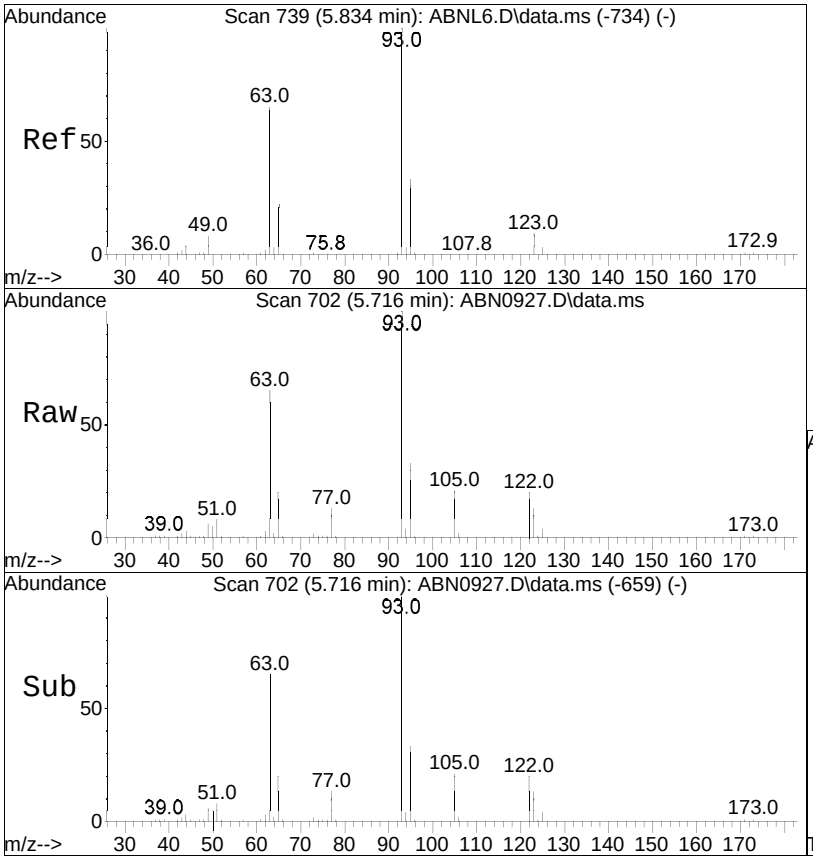


#23
2,4-Dimethylphenol
Concen: 4.93 ug/ml
RT: 5.628 min Scan# 687
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:107 Resp: 32203

Ion	Ratio	Lower	Upper
107	100		
121	54.5	41.3	61.9
122	88.6	69.3	103.9

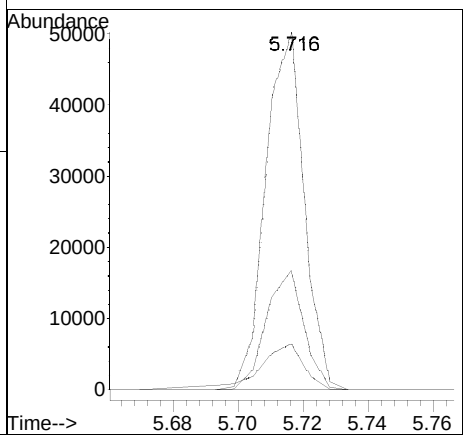


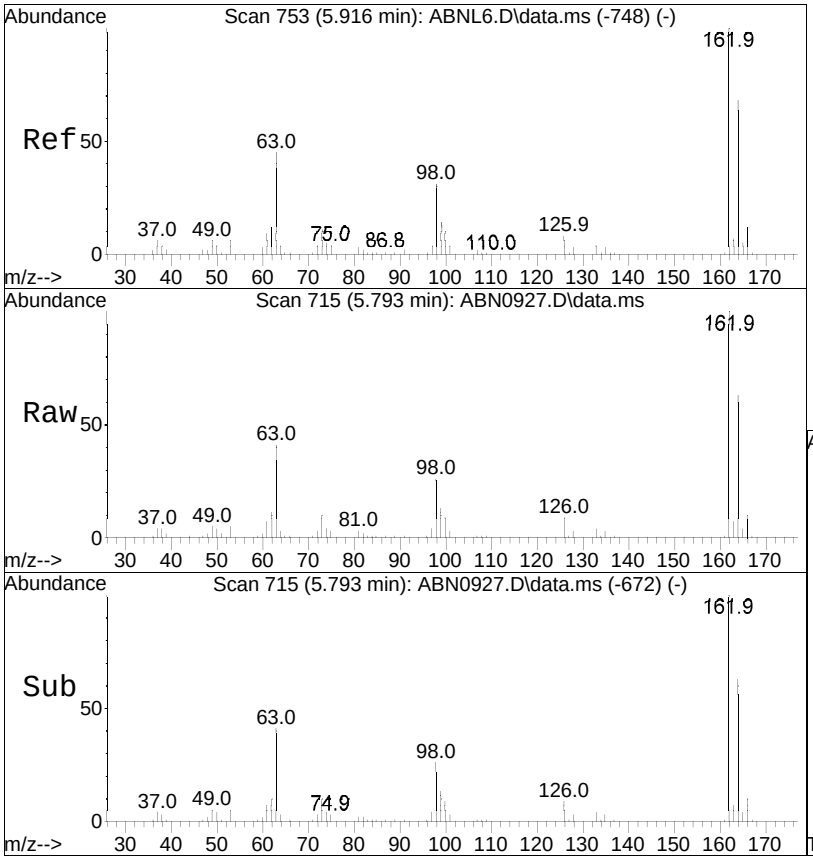


#24
Bis(2-chloroethoxy)methane
Concen: 4.39 ug/ml
RT: 5.716 min Scan# 702
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 93 Resp: 40806

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	15.6	9.6	14.4#

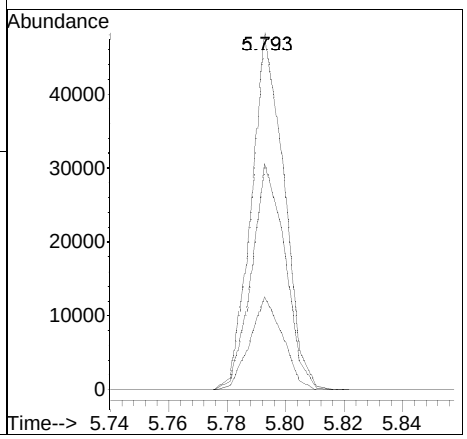


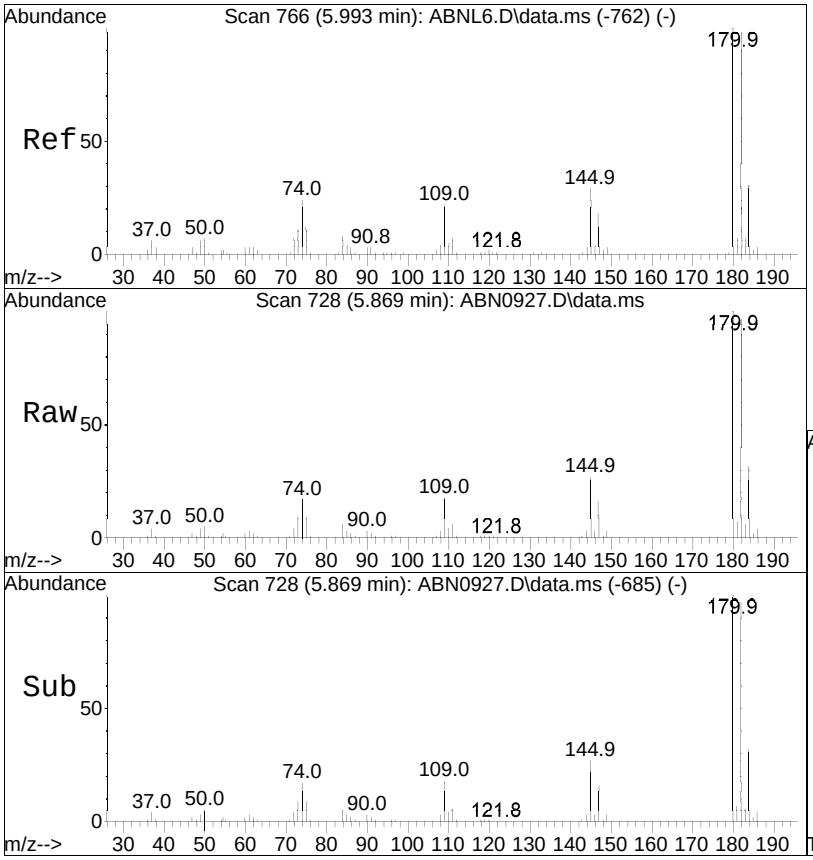


#25
2,4-Dichlorophenol
Concen: 5.43 ug/ml
RT: 5.793 min Scan# 715
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:162 Resp: 37120

Ion	Ratio	Lower	Upper
162	100		
164	65.2	51.1	76.7
98	26.2	32.2	48.2#

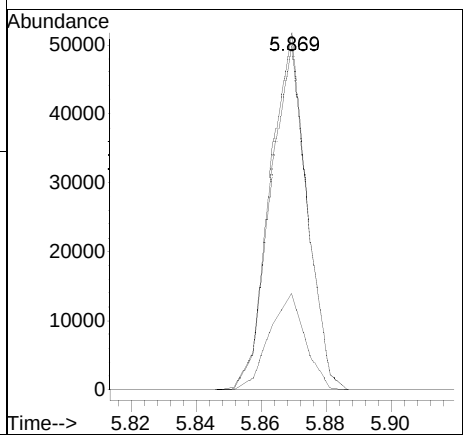


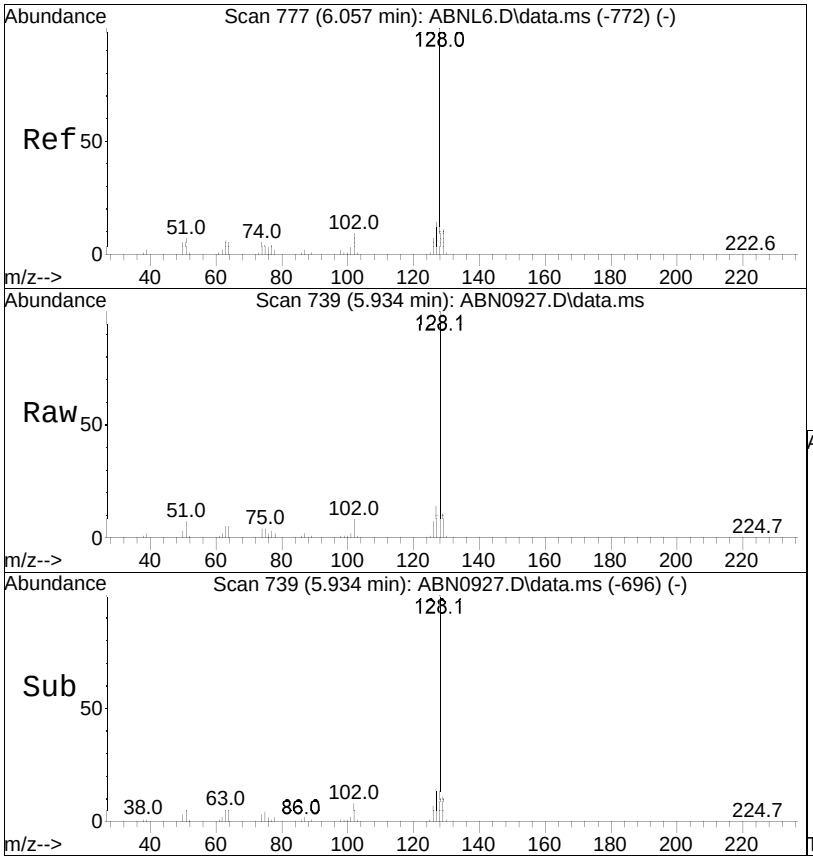


#26
1,2,4-Trichlorobenzene
Concen: 4.69 ug/ml
RT: 5.869 min Scan# 728
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:180 Resp: 40616

Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.8	113.8
145	26.4	26.3	39.5

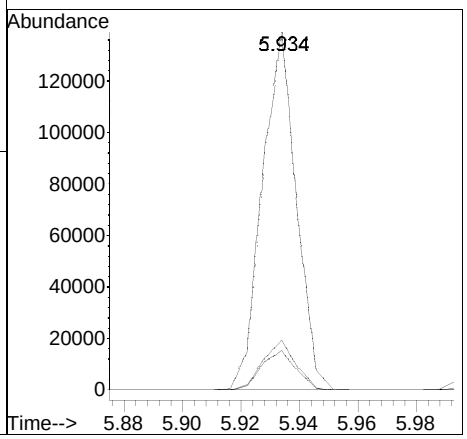


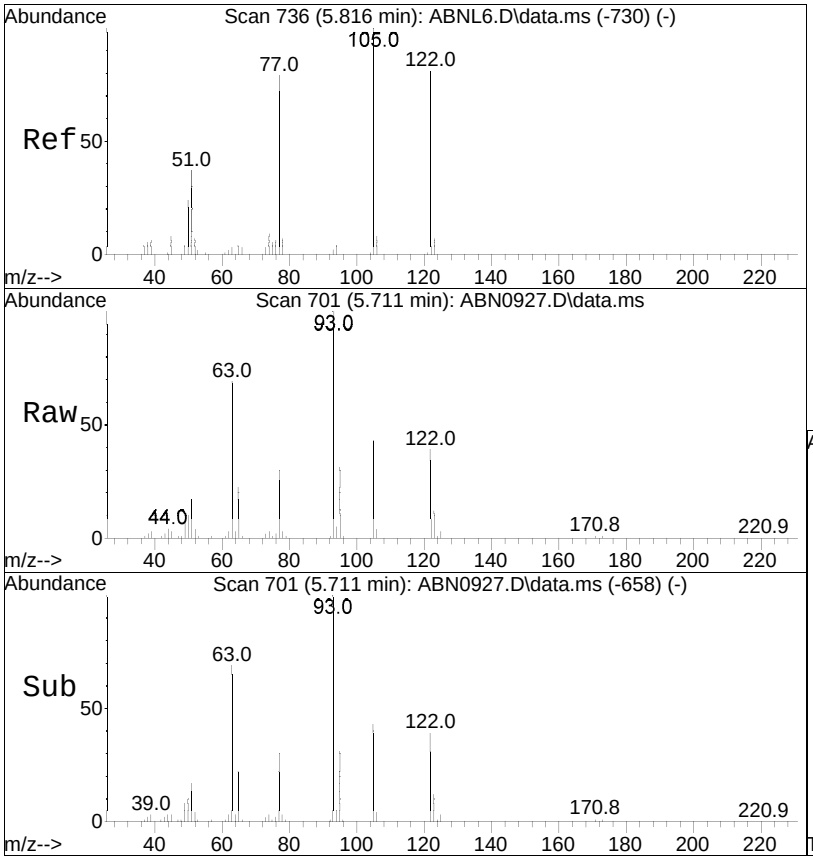


#36
Naphthalene
Concen: 4.81 ug/ml
RT: 5.934 min Scan# 739
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:128 Resp: 110876

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.6	10.6	15.8

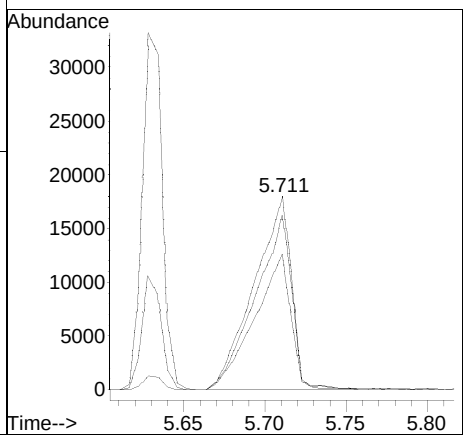


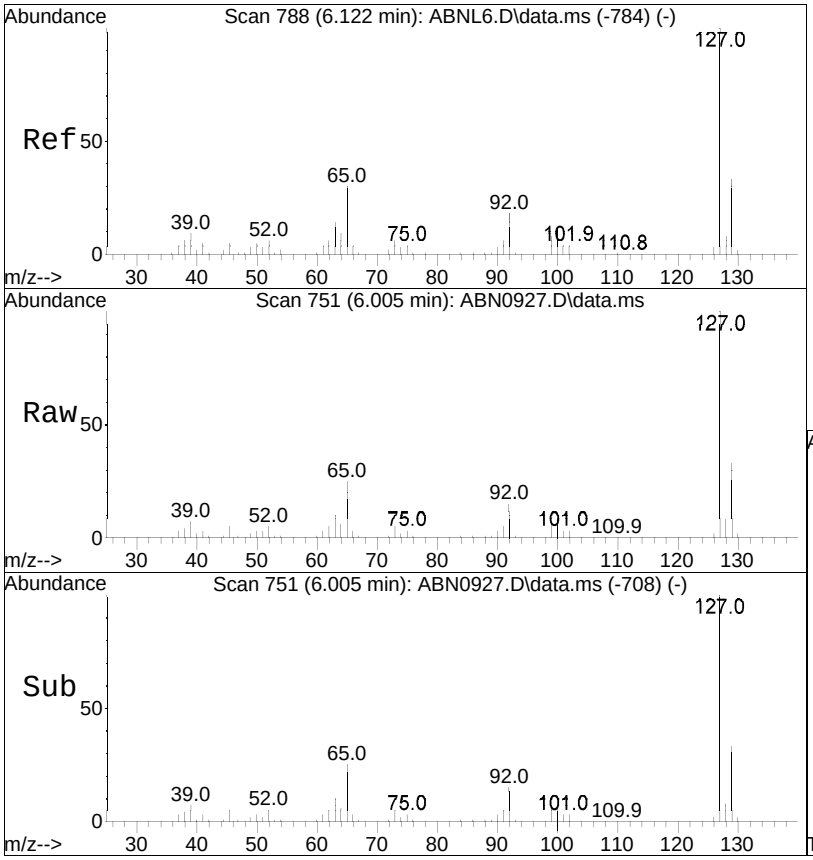


#37
Benzoic Acid
Concen: 6.58 ug/ml
RT: 5.711 min Scan# 701
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:105 Resp: 28997

Ion	Ratio	Lower	Upper
105	100		
122	87.6	62.6	93.8
77	68.4	59.1	88.7

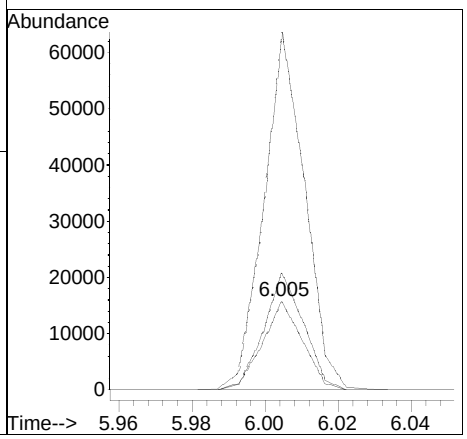


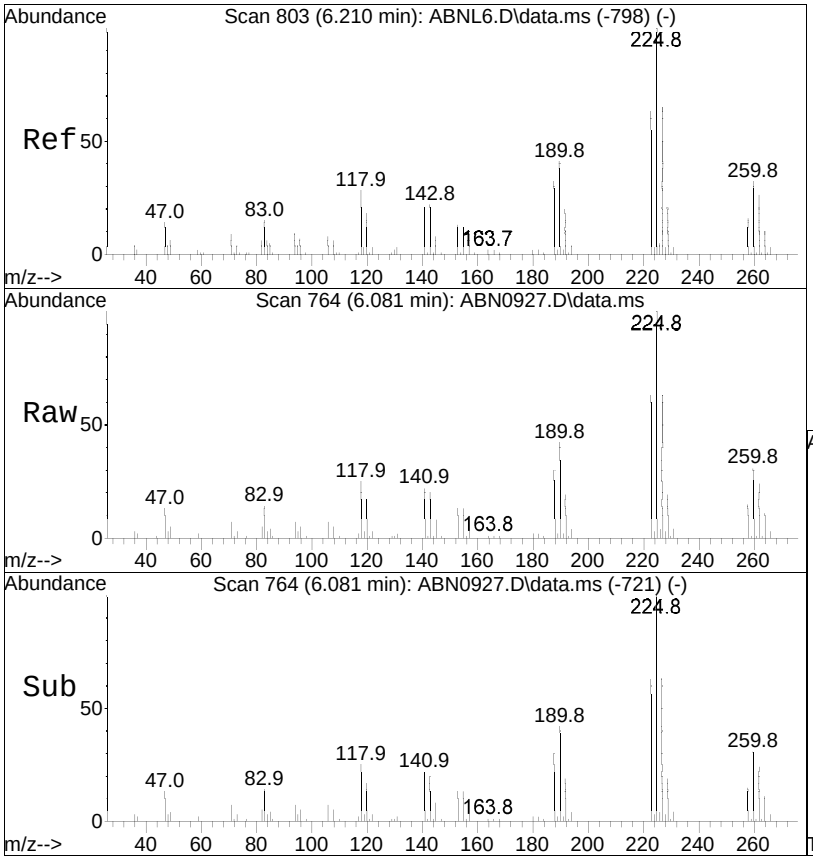


#38
4-Chloroaniline
Concen: 4.59 ug/ml
RT: 6.005 min Scan# 751
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 65 Resp: 11910

Ion	Ratio	Lower	Upper
65	100		
127	409.9	266.2	399.4#
129	130.9	85.0	127.4#

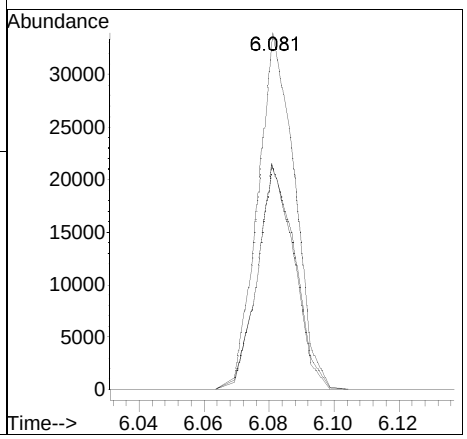


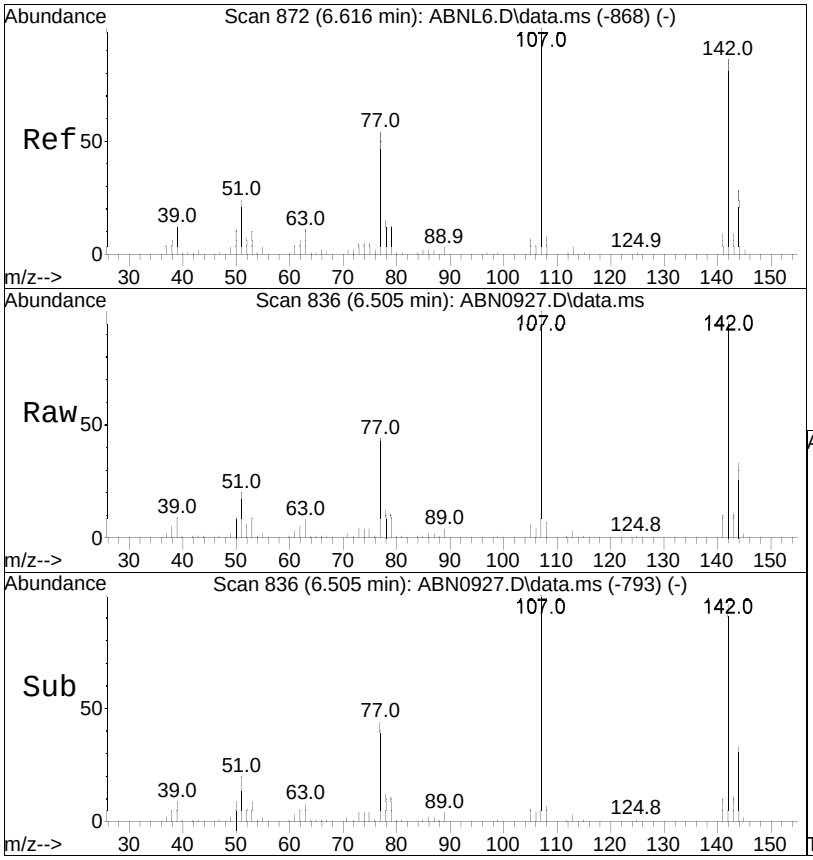


#39
Hexachlorobutadiene
Concen: 4.93 ug/ml
RT: 6.081 min Scan# 764
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:225 Resp: 26638

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.5	75.7
227	64.3	50.4	75.6

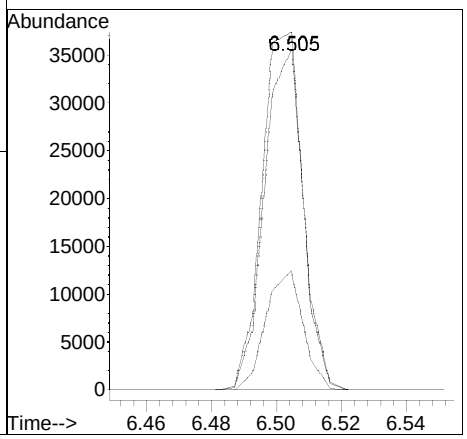


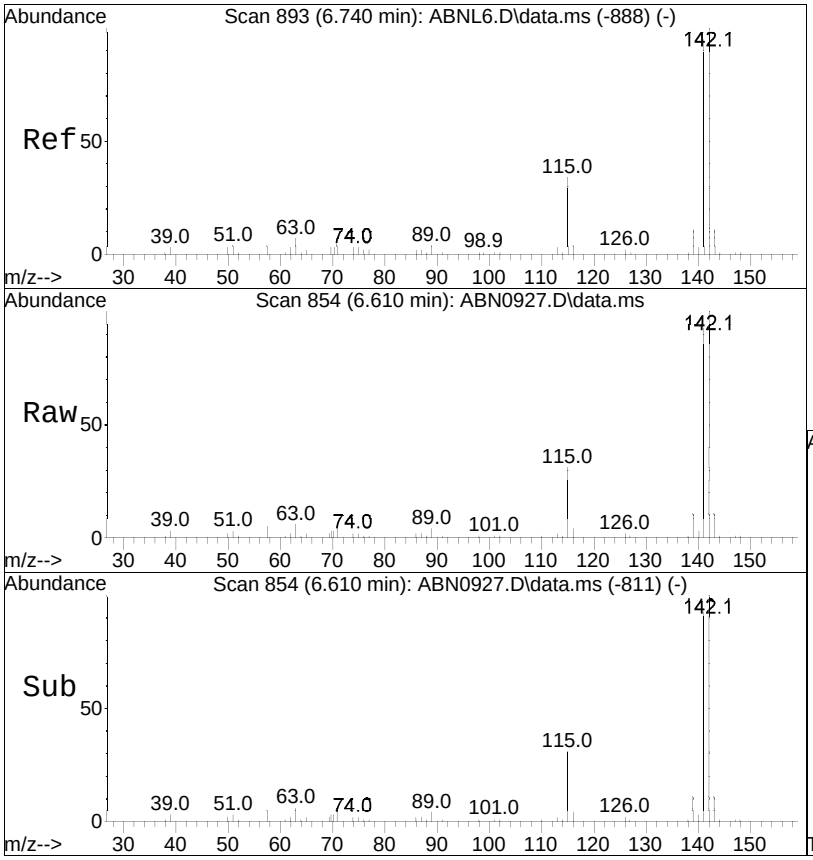


#40
p-Chloro-m-cresol
Concen: 5.28 ug/ml
RT: 6.505 min Scan# 836
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:107 Resp: 32176

Ion	Ratio	Lower	Upper
107	100		
144	30.8	20.3	30.5#
142	91.9	63.8	95.6

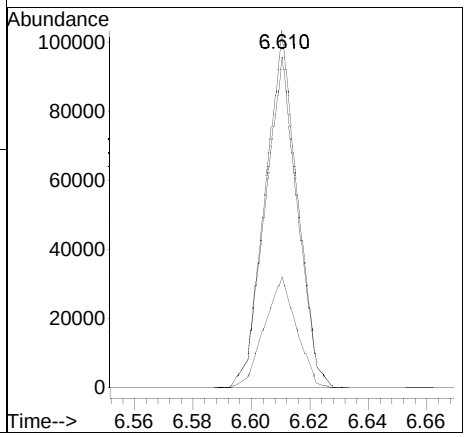


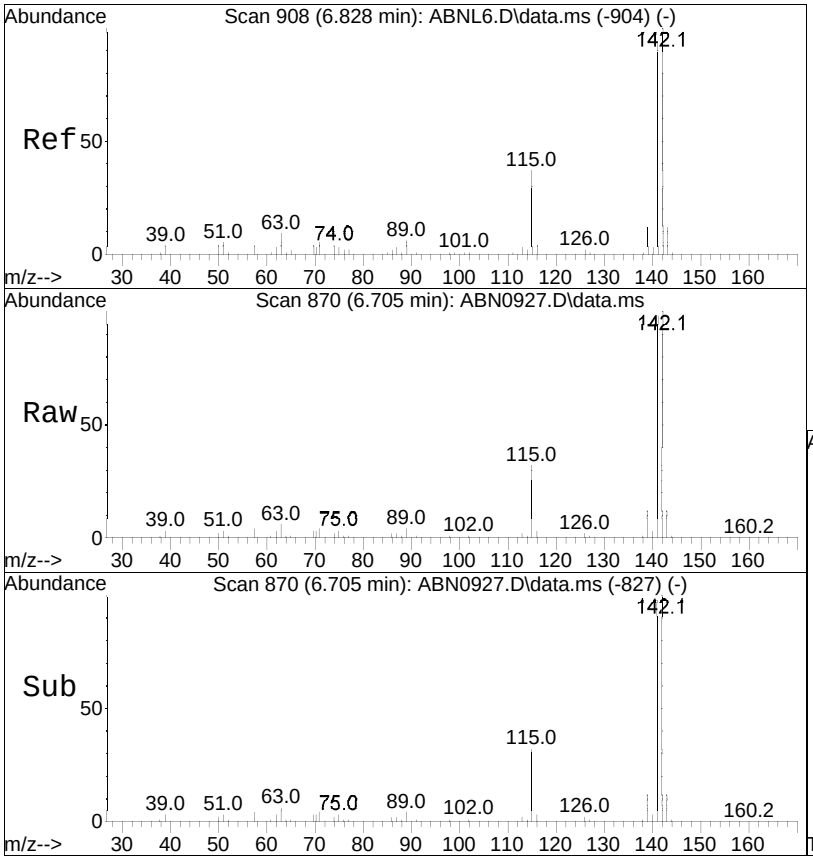


#41
2-Methylnaphthalene
Concen: 5.03 ug/ml
RT: 6.610 min Scan# 854
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:142 Resp: 78837

Ion	Ratio	Lower	Upper
142	100		
141	93.5	72.2	108.4
115	31.2	27.8	41.6

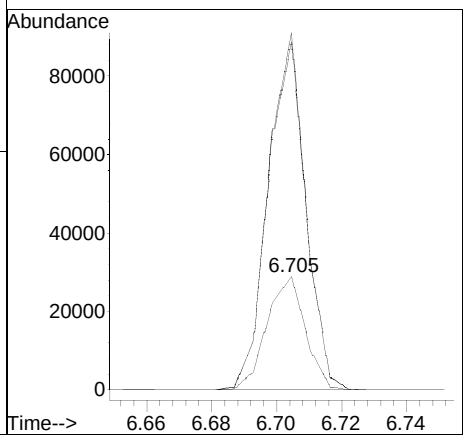


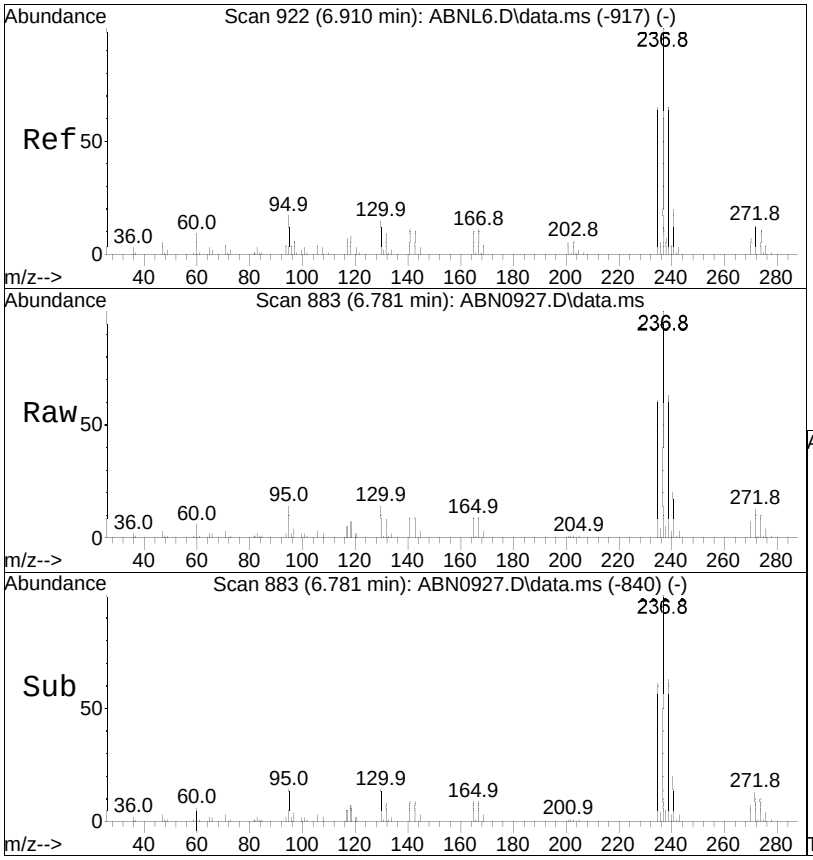


#42
1-Methylnaphthalene
Concen: 4.38 ug/ml
RT: 6.705 min Scan# 870
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:115 Resp: 23636

Ion	Ratio	Lower	Upper
115	100		
141	301.3	205.4	308.2
142	306.1	220.2	330.4

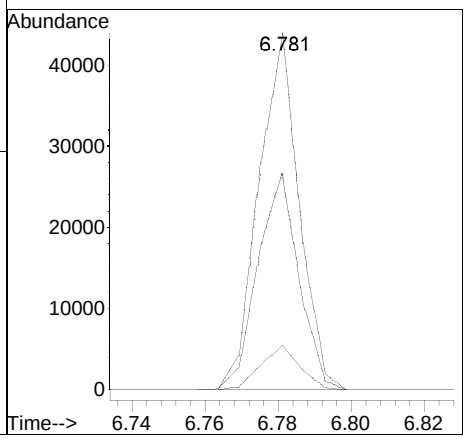


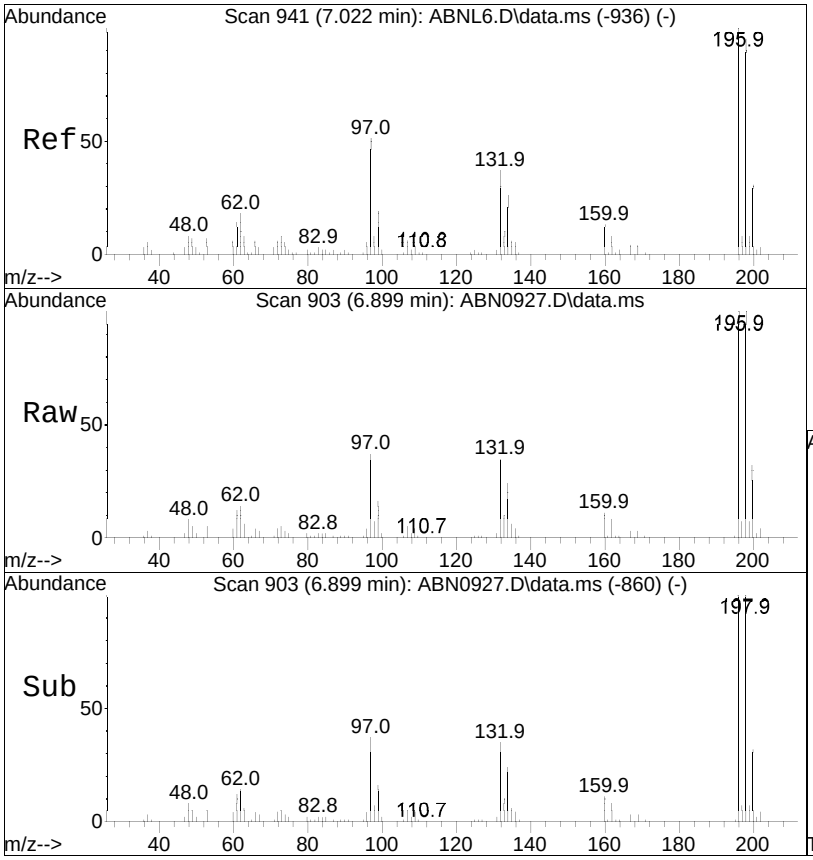


#43
Hexachlorocyclopentadiene
Concen: 6.05 ug/ml
RT: 6.781 min Scan# 883
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:237 Resp: 33364

Ion	Ratio	Lower	Upper
237	100		
235	62.0	50.9	76.3
272	12.2	10.1	15.1

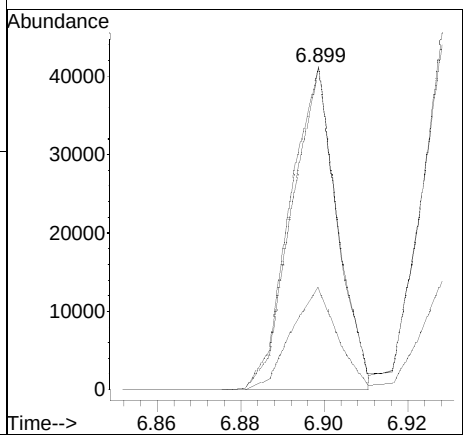


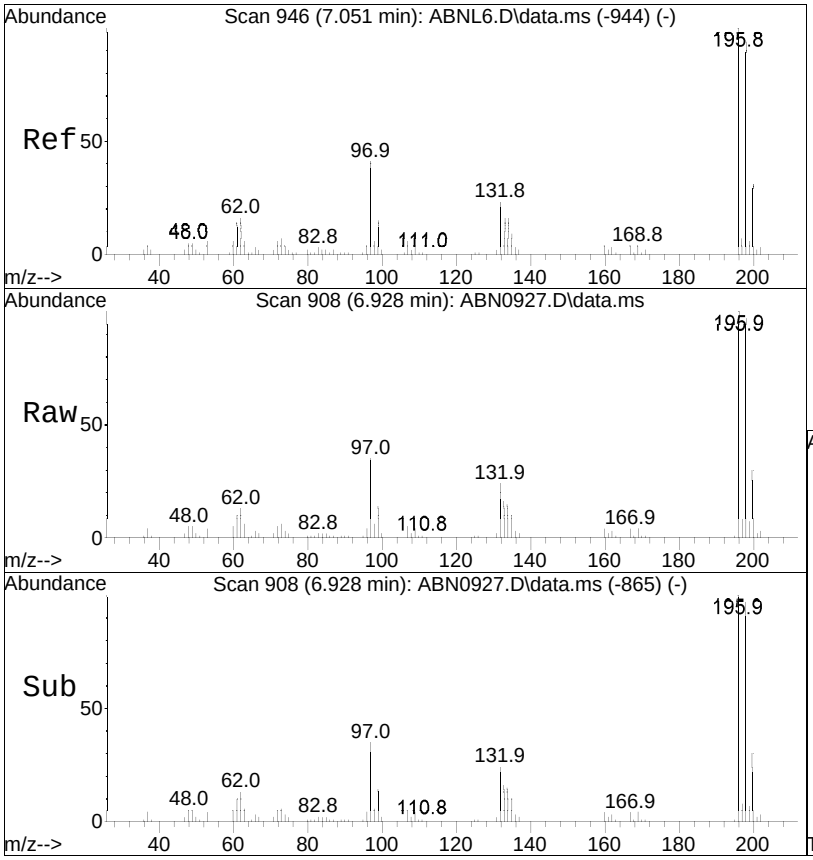


#44
2,4,6-Trichlorophenol
Concen: 5.71 ug/ml M3
RT: 6.899 min Scan# 903
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:196 Resp: 32243

Ion	Ratio	Lower	Upper
196	100		
198	96.0	76.4	114.6
200	31.0	24.4	36.6

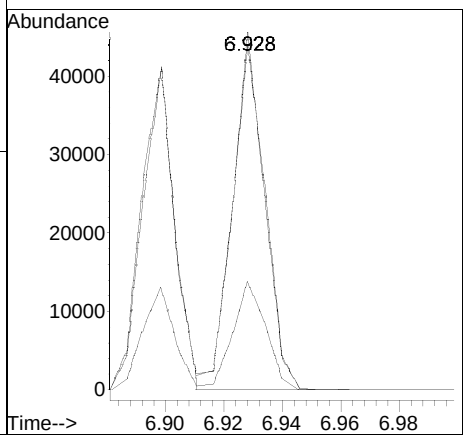


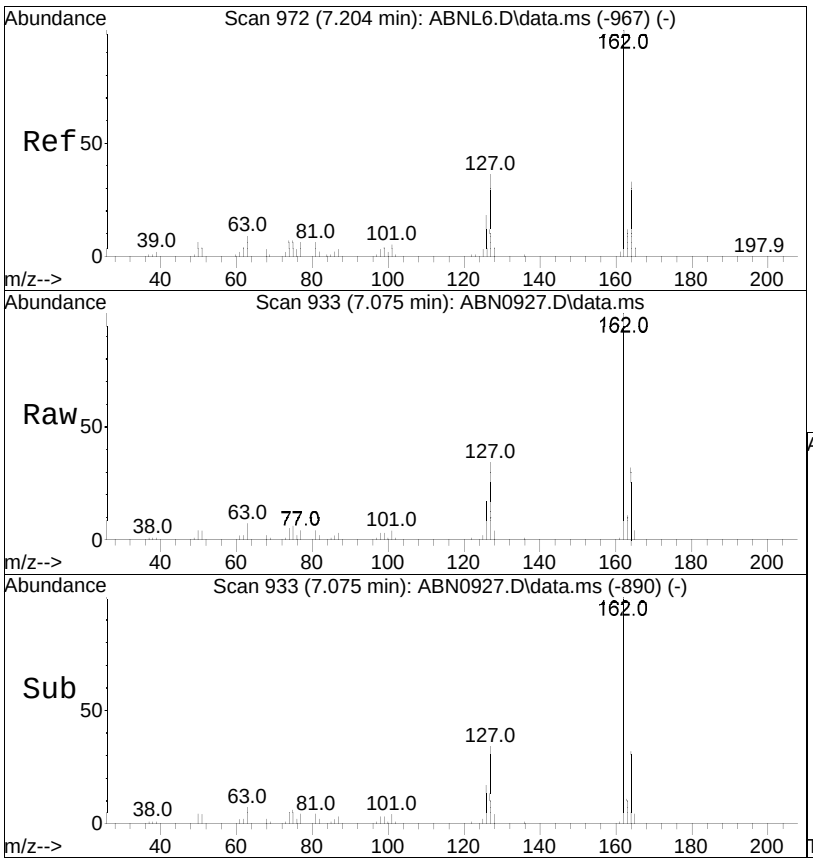


#45
2,4,5-Trichlorophenol
Concen: 5.92 ug/ml
RT: 6.928 min Scan# 908
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:196 Resp: 34157

Ion	Ratio	Lower	Upper
196	100		
200	31.7	24.2	36.4
198	100.2	76.2	114.2

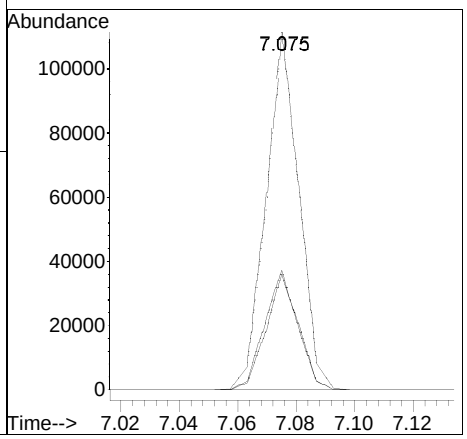


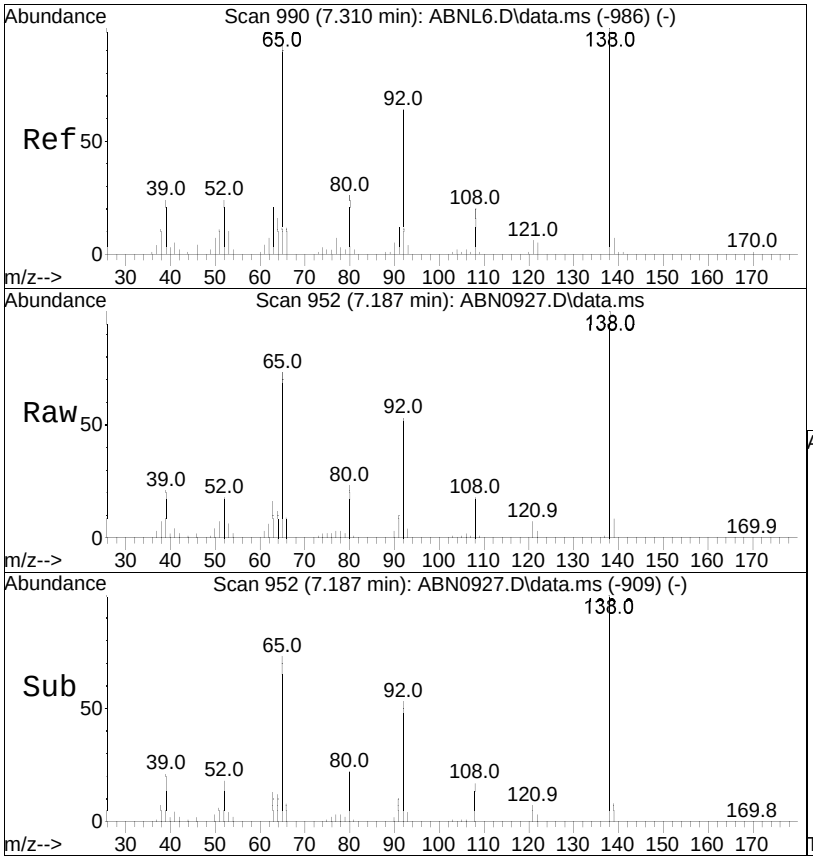


#47
2-Chloronaphthalene
Concen: 5.12 ug/ml
RT: 7.075 min Scan# 933
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:162 Resp: 85447

Ion	Ratio	Lower	Upper
162	100		
127	33.8	33.8	50.6#
164	32.2	25.8	38.6

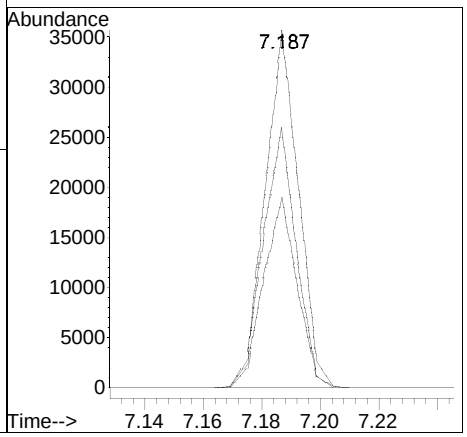


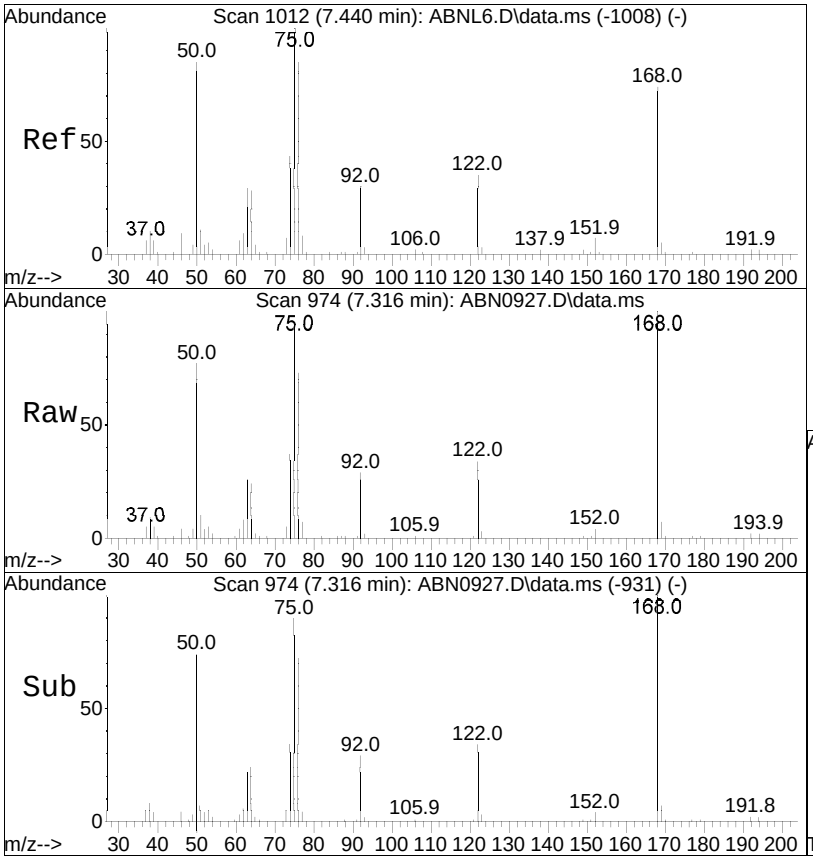


#48
2-Nitroaniline
Concen: 6.35 ug/ml
RT: 7.187 min Scan# 952
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:138 Resp: 28009

Ion	Ratio	Lower	Upper
138	100		
92	54.0	52.1	78.1
65	72.4	75.9	113.9#

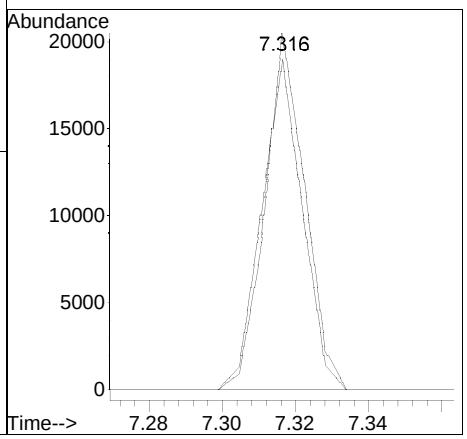


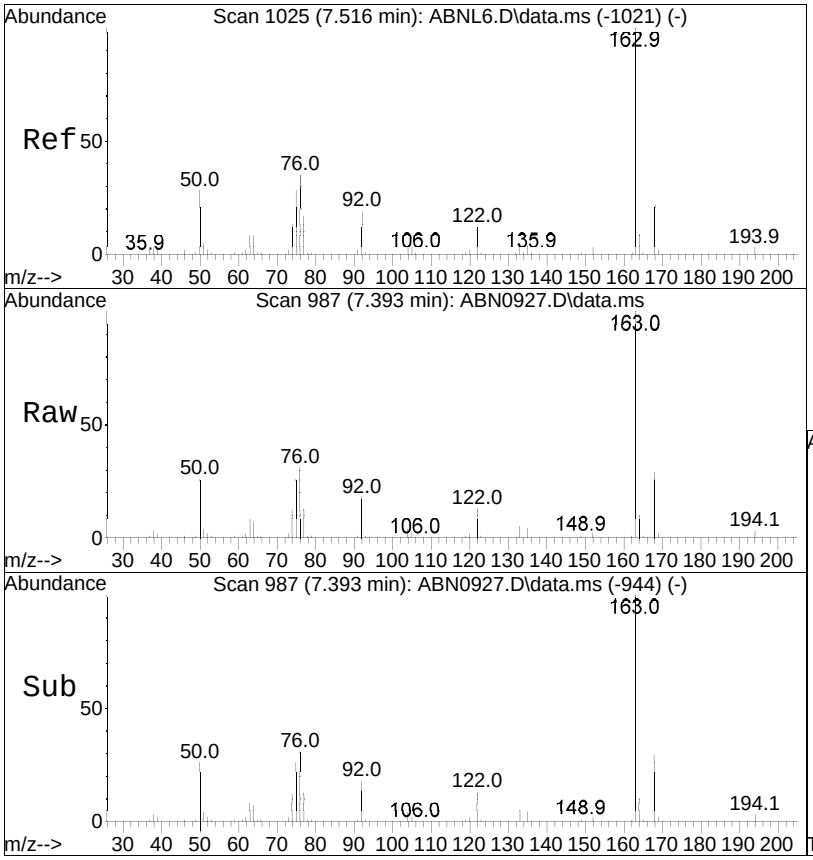


#49
1,4-Dinitrobenzene
Concen: 7.15 ug/ml
RT: 7.316 min Scan# 974
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:168 Resp: 15462

Ion	Ratio	Lower	Upper
168	100		
75	94.2	111.0	166.4#

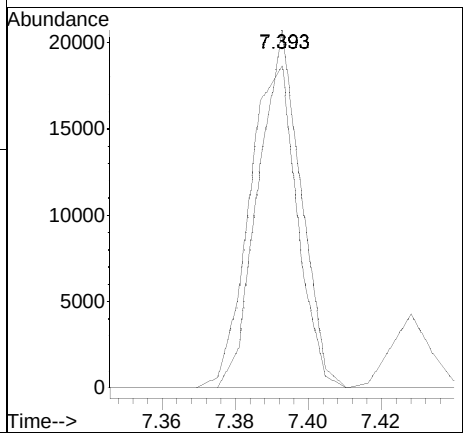


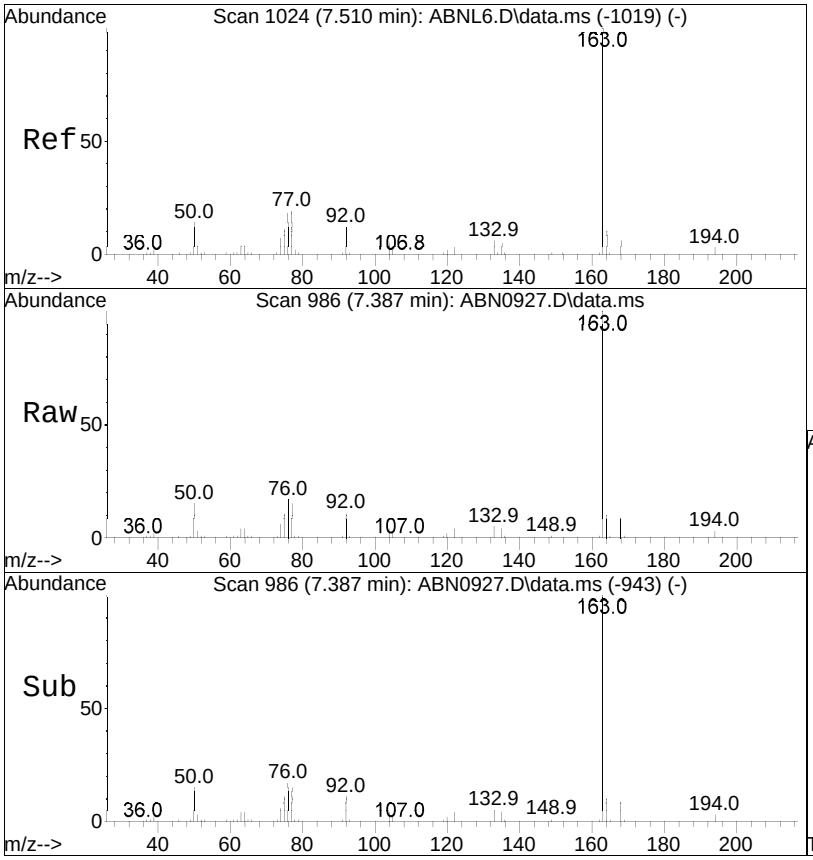


#50
1,3-Dinitrobenzene
Concen: 6.64 ug/ml
RT: 7.393 min Scan# 987
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:168 Resp: 16659

Ion	Ratio	Lower	Upper
168	100		
75	102.0	116.4	174.6#

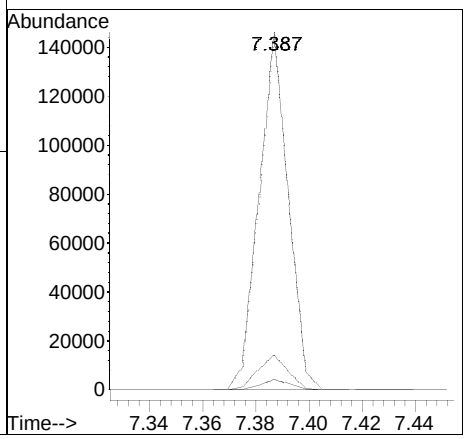


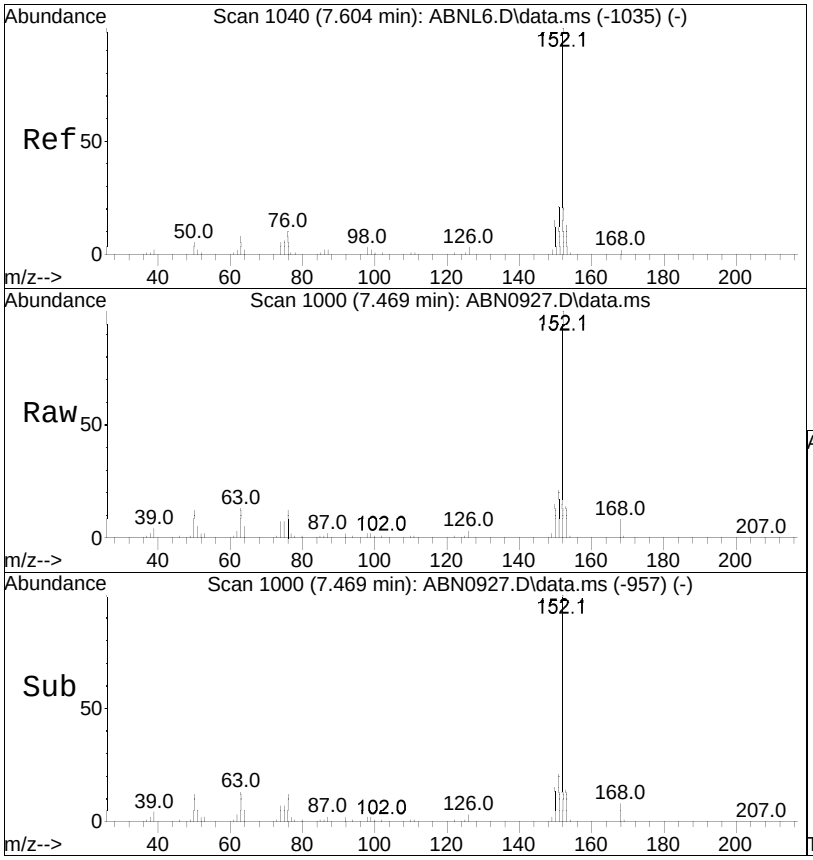


#51
Dimethyl phthalate
Concen: 5.40 ug/ml
RT: 7.387 min Scan# 986
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:163 Resp: 109532

Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.3	3.5
164	10.2	8.2	12.2

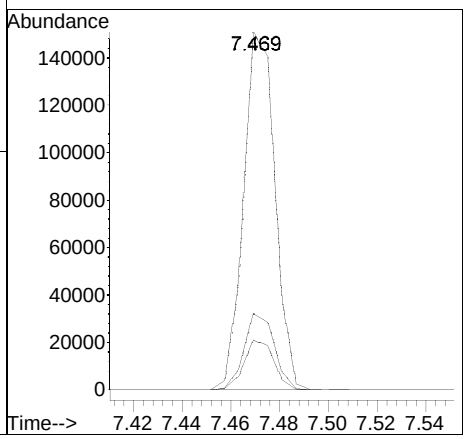


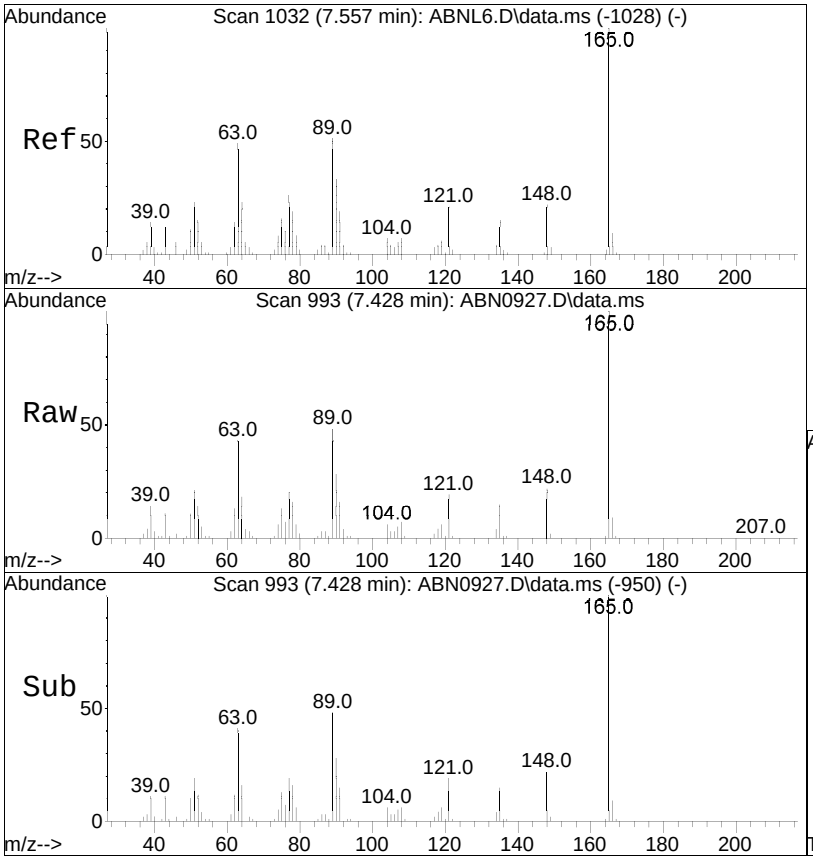


#52
Acenaphthylene
Concen: 5.43 ug/ml
RT: 7.469 min Scan# 1000
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:152 Resp: 133774

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.9	23.9
153	13.4	10.5	15.7

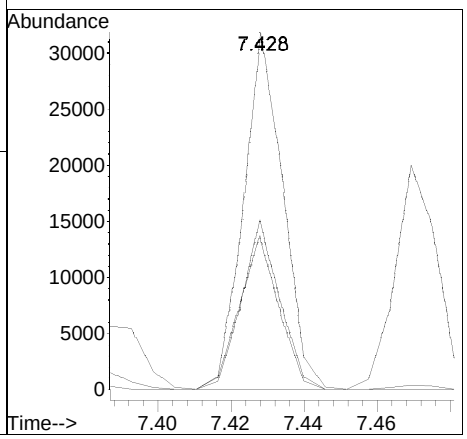


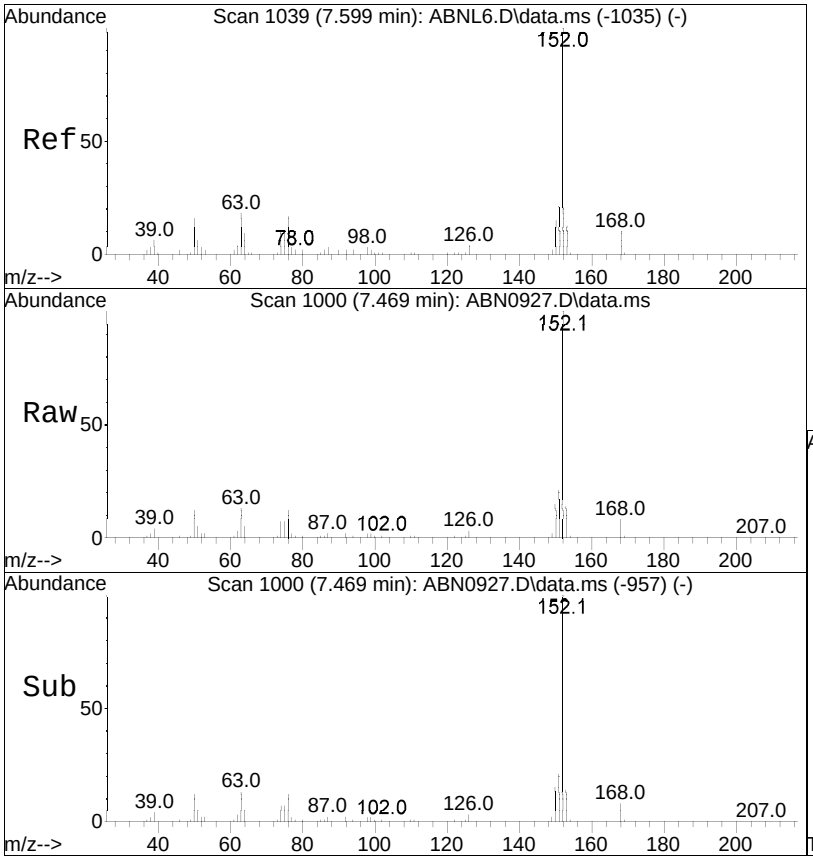


#53
2,6-Dinitrotoluene
Concen: 6.26 ug/ml
RT: 7.428 min Scan# 993
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:165 Resp: 23769

Ion	Ratio	Lower	Upper
165	100		
89	46.2	48.8	73.2#
63	43.3	50.5	75.7#

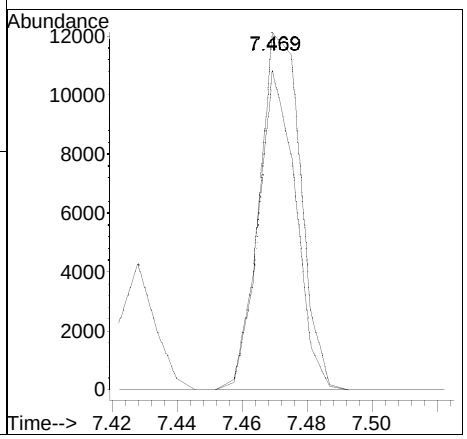


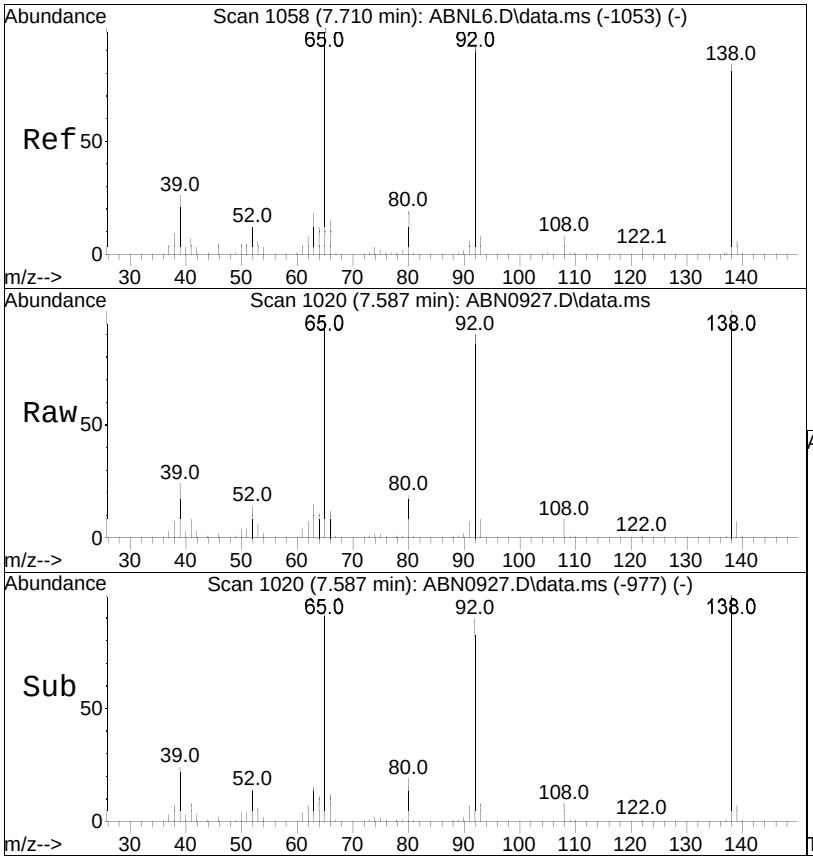


#54
1,2-Dinitrobenzene
Concen: 6.36 ug/ml
RT: 7.469 min Scan# 1000
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:168 Resp: 10629

Ion	Ratio	Lower	Upper
168	100		
75	81.4	32.2	48.2#

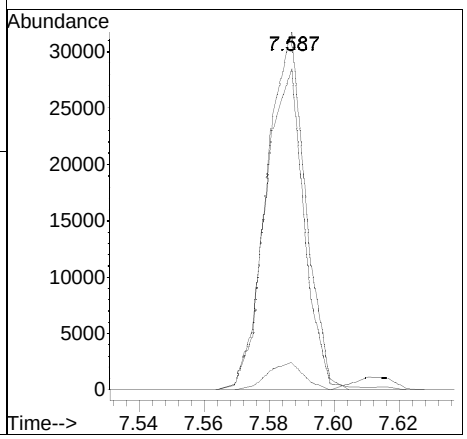


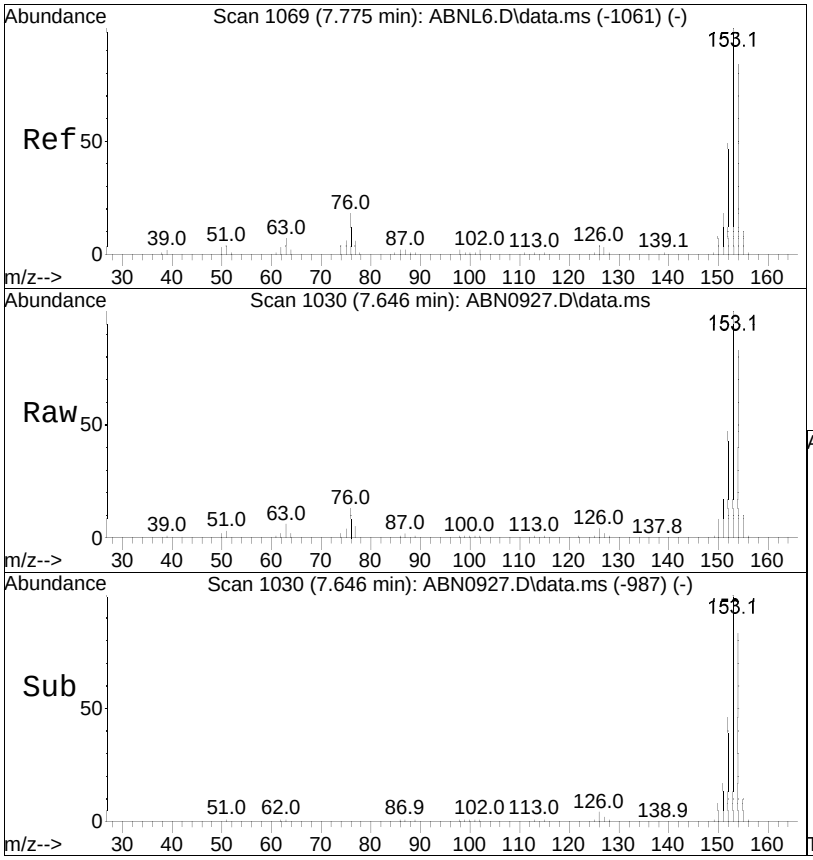


#64
3-Nitroaniline
Concen: 5.87 ug/ml
RT: 7.587 min Scan# 1020
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:138 Resp: 25943

Ion	Ratio	Lower	Upper
138	100		
92	90.7	92.8	139.2#
108	7.2	7.9	11.9#

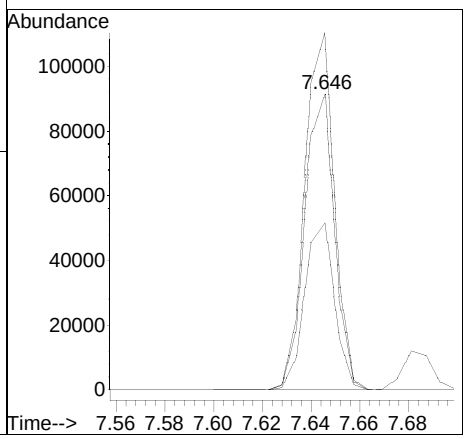


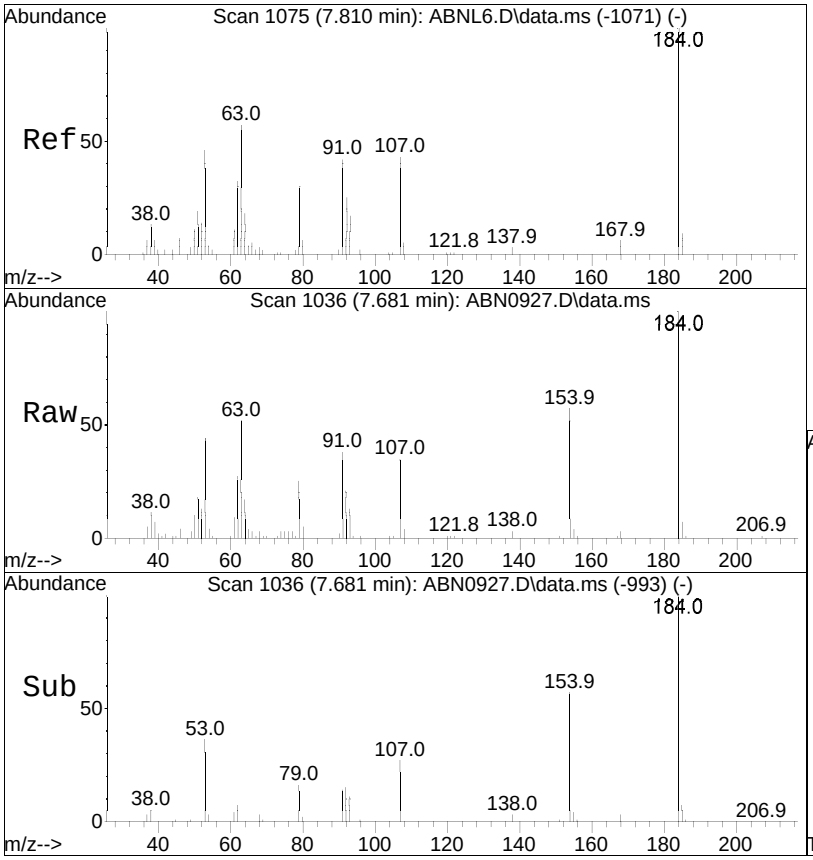


#65
Acenaphthene
Concen: 4.73 ug/ml
RT: 7.646 min Scan# 1030
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:154 Resp: 77924

Ion	Ratio	Lower	Upper
154	100		
153	119.8	93.0	139.4
152	56.8	43.3	64.9

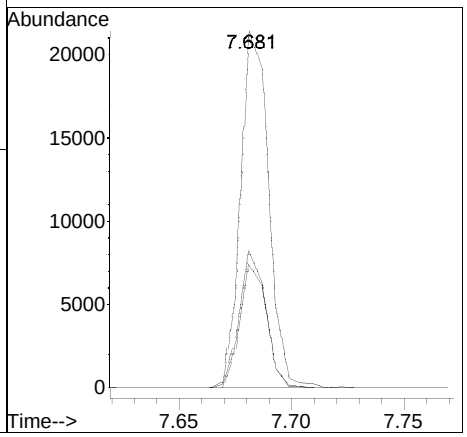


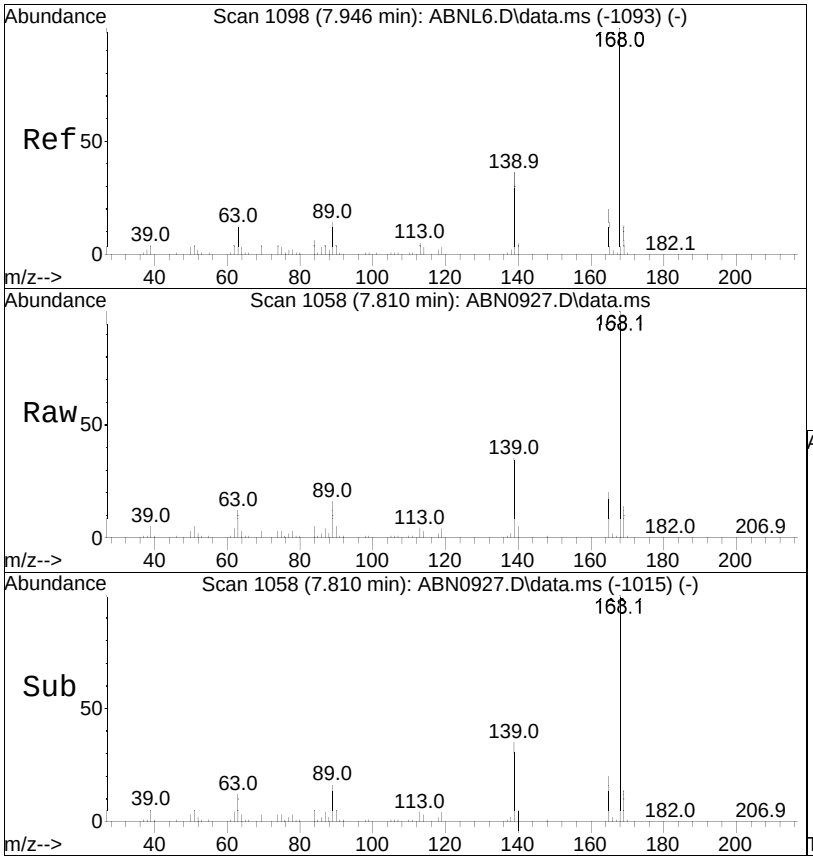


#66
2,4-Dinitrophenol
Concen: 7.48 ug/ml
RT: 7.681 min Scan# 1036
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:184 Resp: 18492

Ion	Ratio	Lower	Upper
184	100		
107	33.0	41.8	62.6#
91	36.3	44.2	66.2#

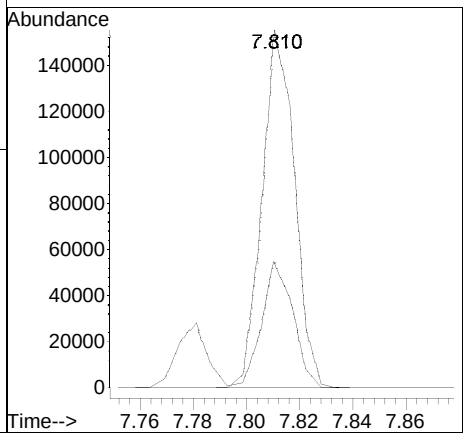


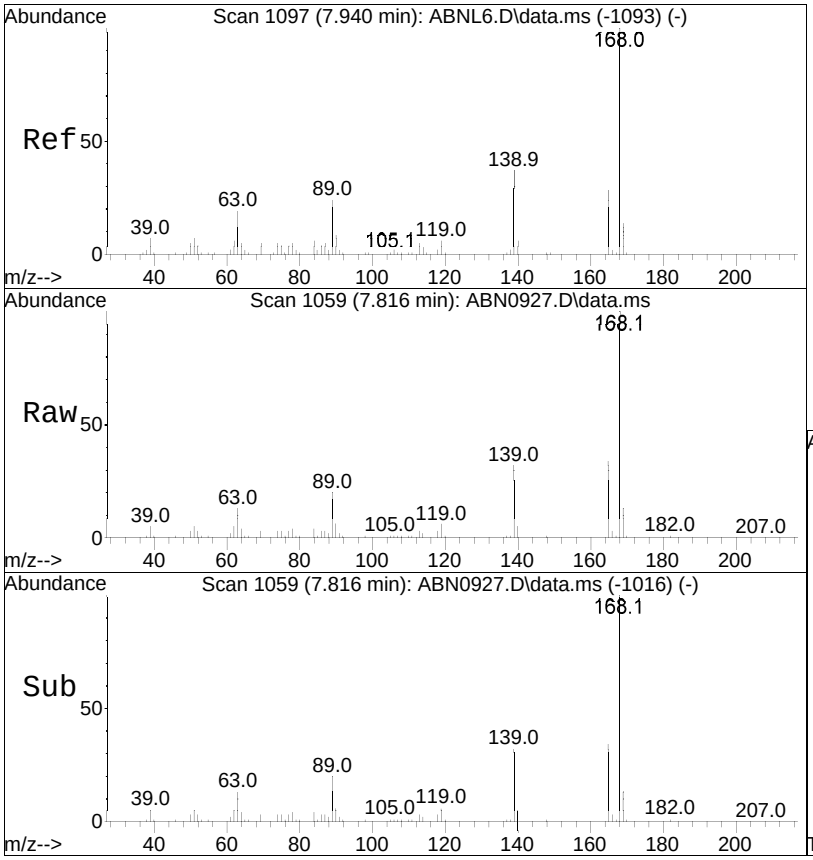


#67
Dibenzofuran
Concen: 4.80 ug/ml
RT: 7.810 min Scan# 1058
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:168 Resp: 130295

Ion	Ratio	Lower	Upper
168	100		
139	34.3	32.3	48.5

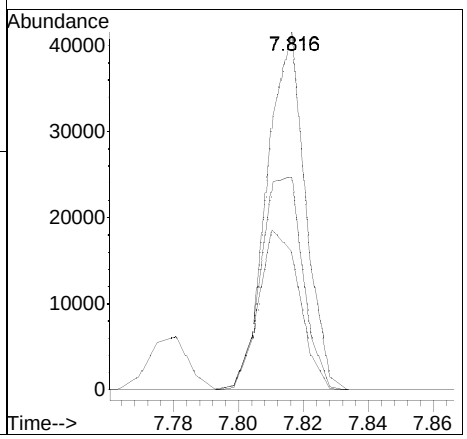


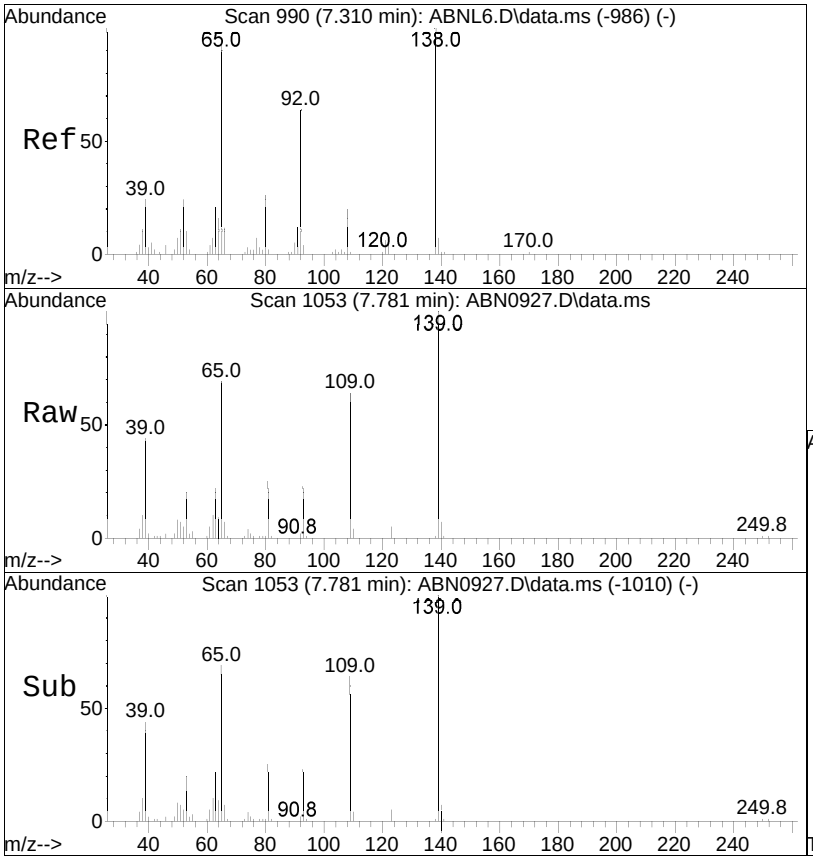


#68
2,4-Dinitrotoluene
Concen: 5.94 ug/ml
RT: 7.816 min Scan# 1059
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:165 Resp: 33695

Ion	Ratio	Lower	Upper
165	100		
89	65.7	73.0	109.4#
63	48.3	56.3	84.5#

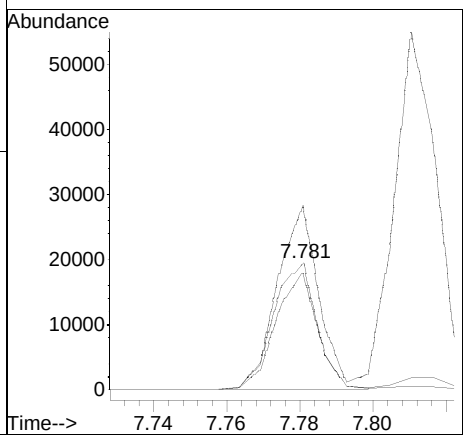


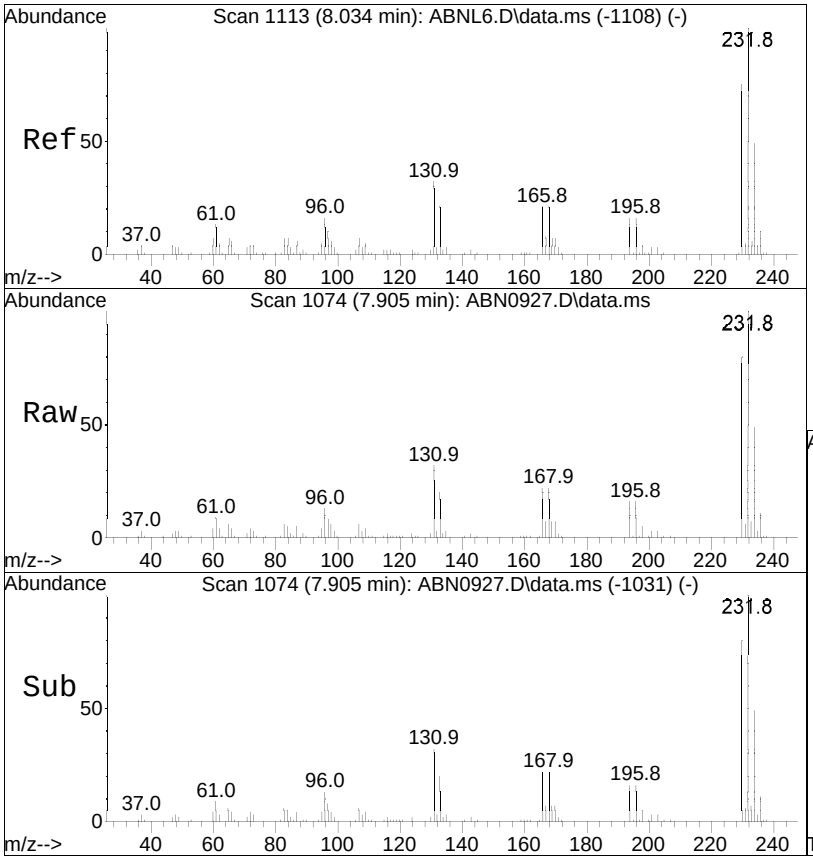


#69
4-Nitrophenol
Concen: 3.78 ug/ml
RT: 7.781 min Scan# 1053
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 65 Resp: 16205

Ion	Ratio	Lower	Upper
65	100		
109	88.1	60.2	90.2
139	136.6	81.1	121.7#

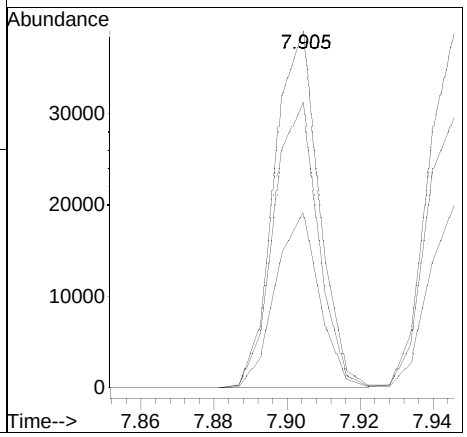


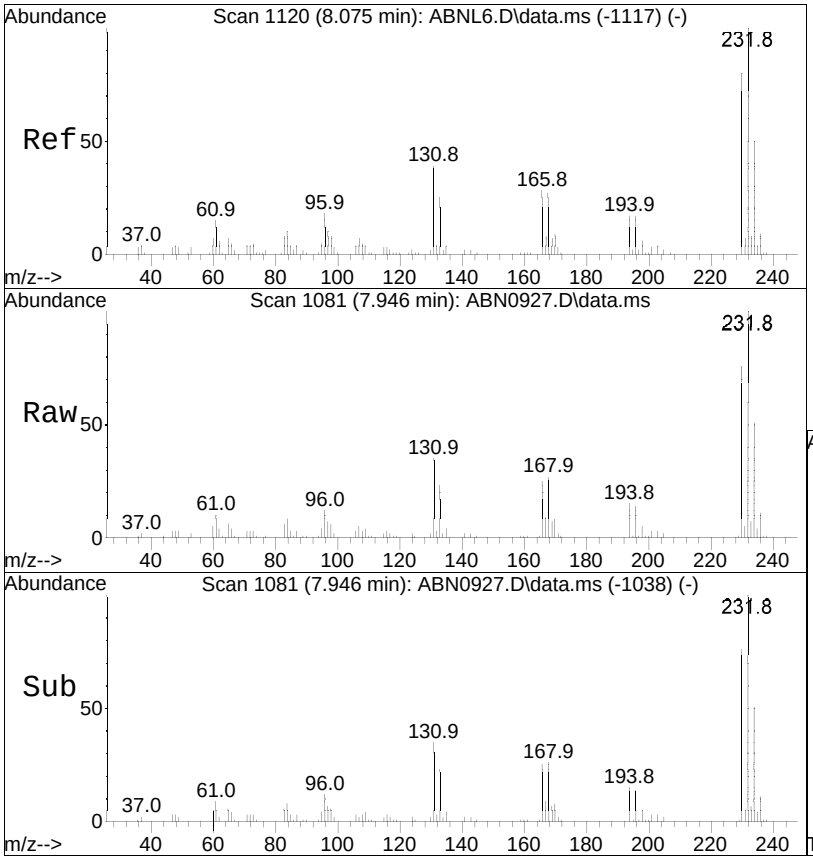


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.99 ug/ml
RT: 7.905 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:232 Resp: 33367

Ion	Ratio	Lower	Upper
232	100		
230	79.7	63.8	95.8
234	48.2	38.3	57.5

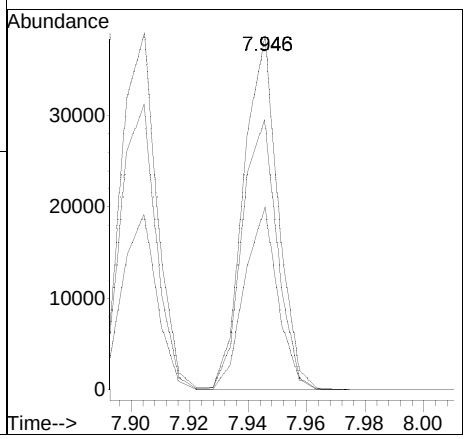


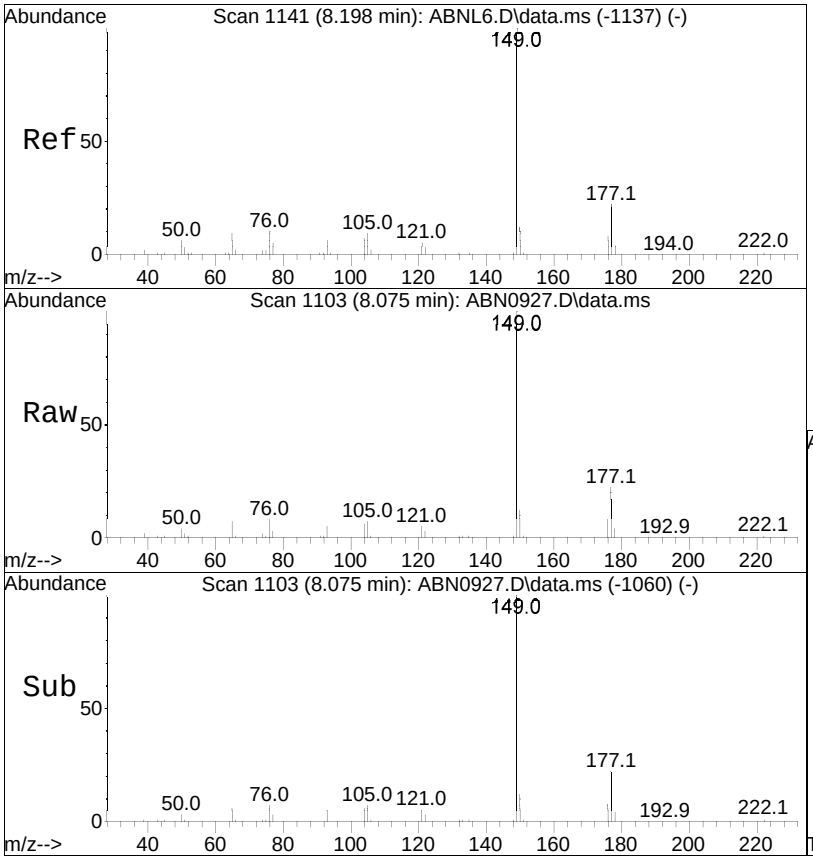


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.83 ug/ml
RT: 7.946 min Scan# 1081
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:232 Resp: 31879

Ion	Ratio	Lower	Upper
232	100		
230	78.1	63.8	95.8
234	50.0	39.0	58.6

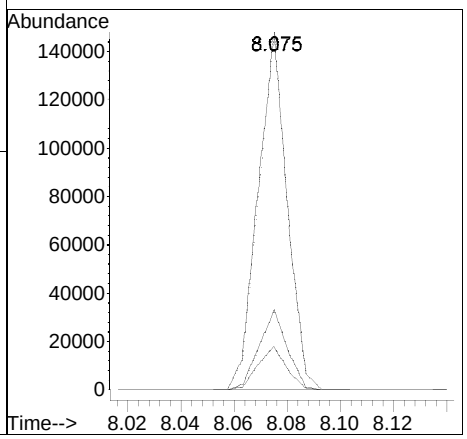


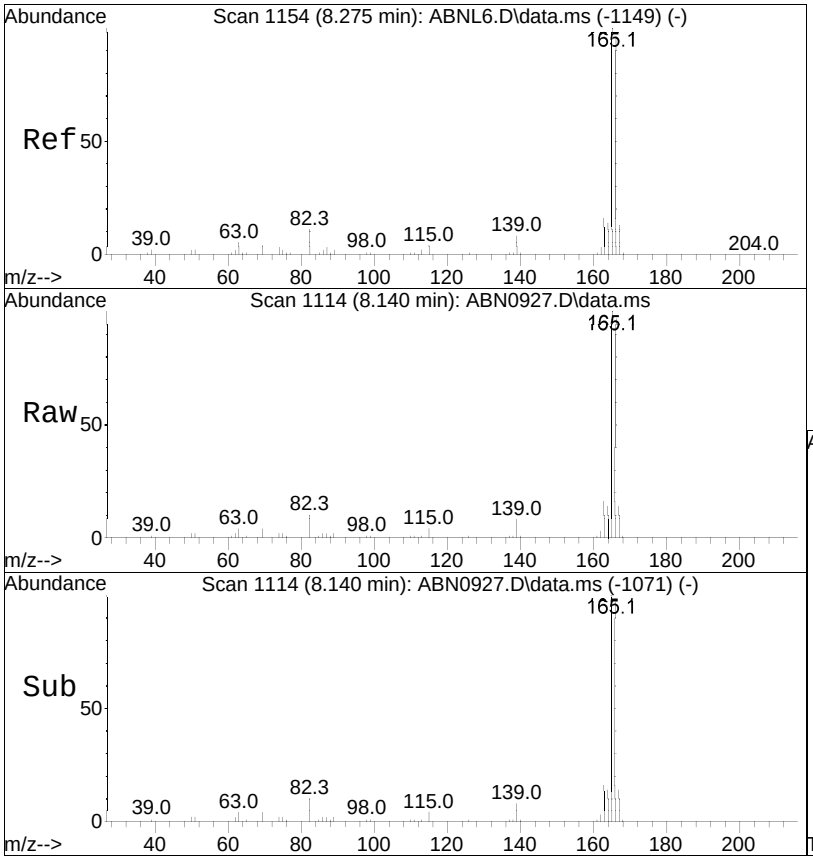


#72
Diethyl phthalate
Concen: 5.01 ug/ml
RT: 8.075 min Scan# 1103
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:149 Resp: 110241

Ion	Ratio	Lower	Upper
149	100		
177	21.7	15.0	22.6
150	12.1	9.8	14.6

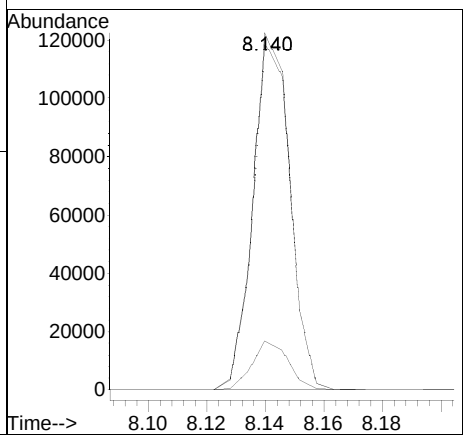


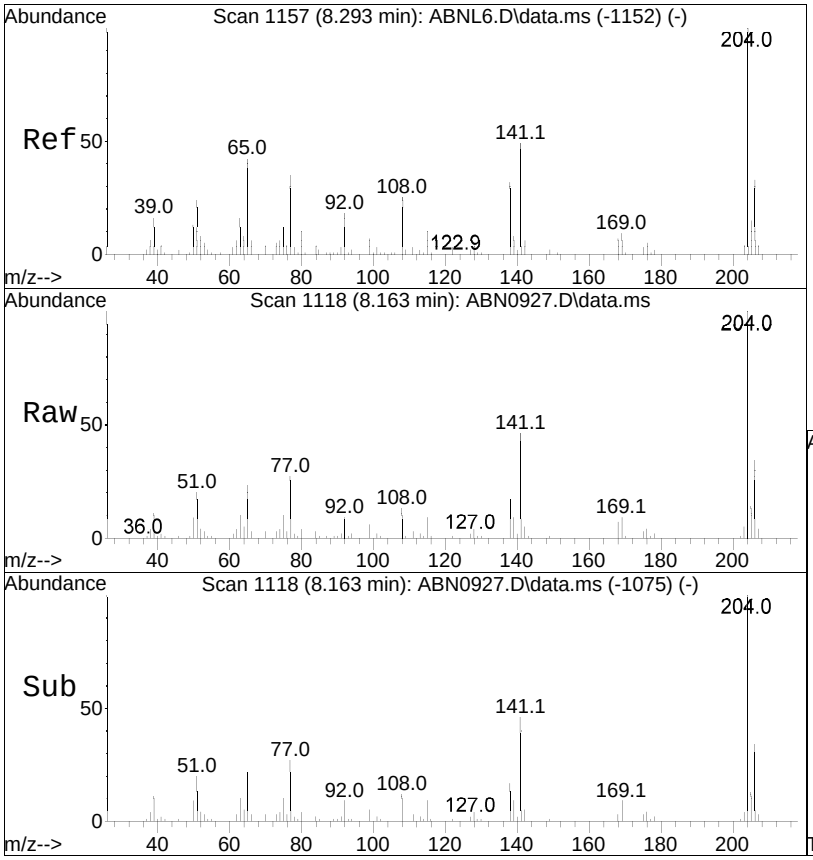


#73
Fluorene
Concen: 4.96 ug/ml
RT: 8.140 min Scan# 1114
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:166 Resp: 104960

Ion	Ratio	Lower	Upper
166	100		
165	102.5	80.0	120.0
167	13.9	10.7	16.1

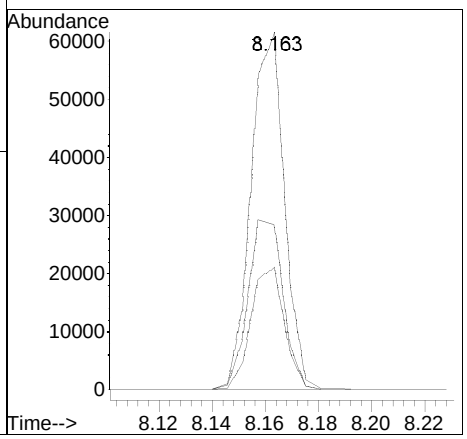


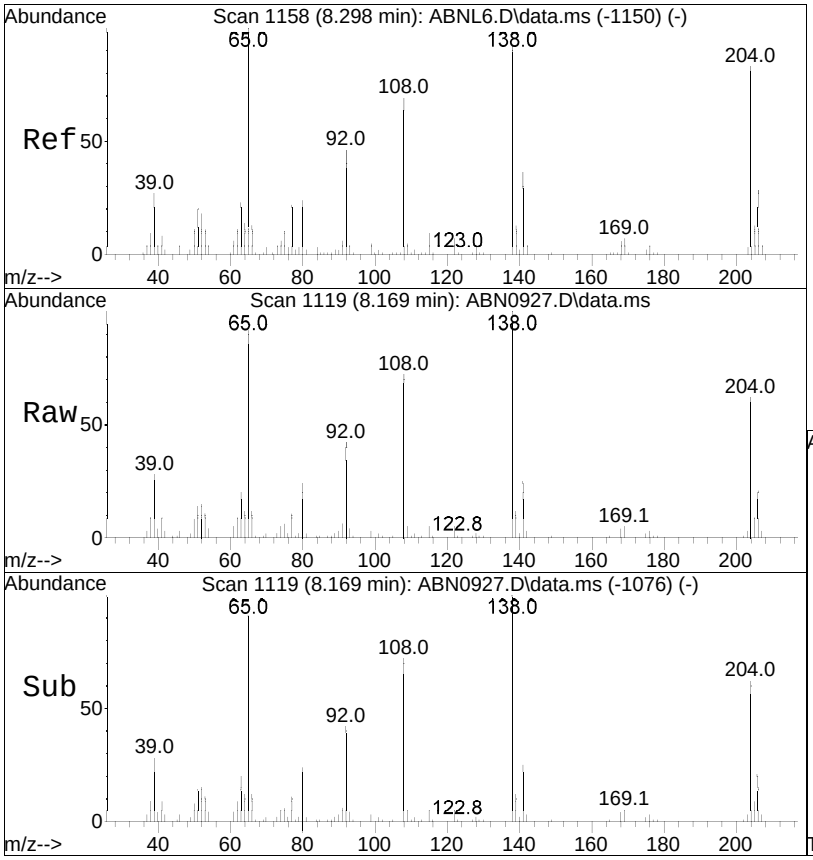


#74
4-Chlorophenyl phenyl ether
Concen: 4.62 ug/ml
RT: 8.163 min Scan# 1118
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:204 Resp: 53328

Ion	Ratio	Lower	Upper
204	100		
206	34.5	26.3	39.5
141	50.0	58.4	87.6#

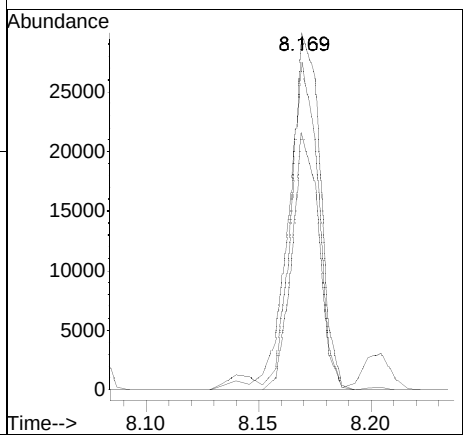


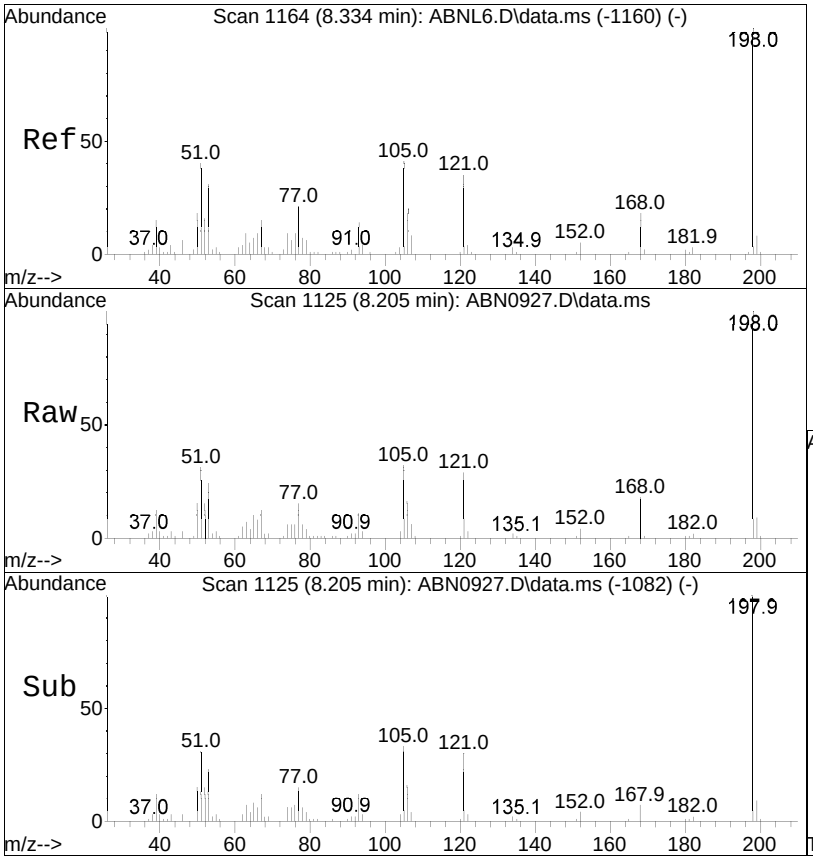


#75
4-Nitroaniline
Concen: 5.89 ug/ml
RT: 8.169 min Scan# 1119
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:138 Resp: 27407

Ion	Ratio	Lower	Upper
138	100		
108	65.5	59.2	88.8
65	94.1	97.6	146.4#

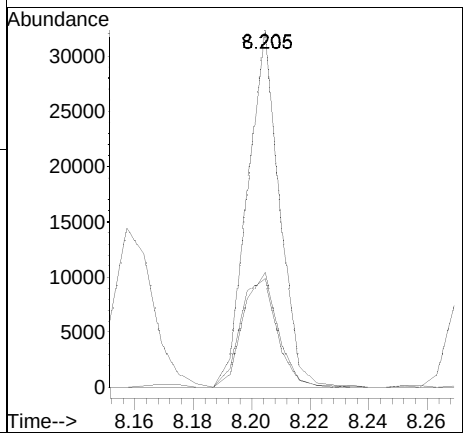


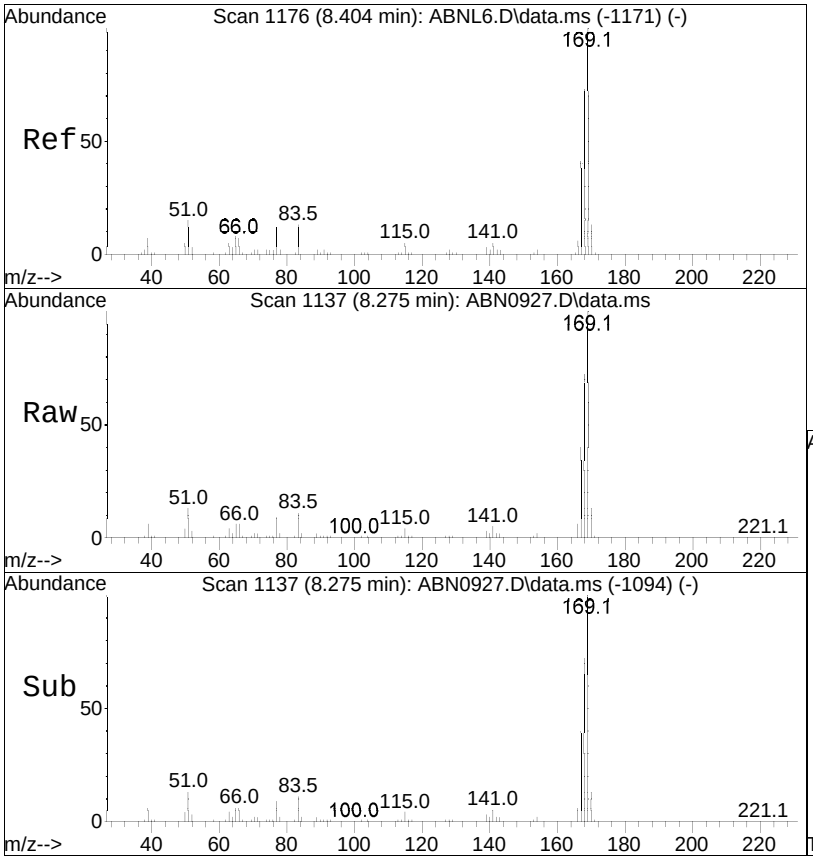


#76
4,6-Dinitro-o-cresol
Concen: 6.68 ug/ml
RT: 8.205 min Scan# 1125
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:198 Resp: 24552

Ion	Ratio	Lower	Upper
198	100		
51	35.4	49.9	74.9#
105	35.2	45.8	68.6#

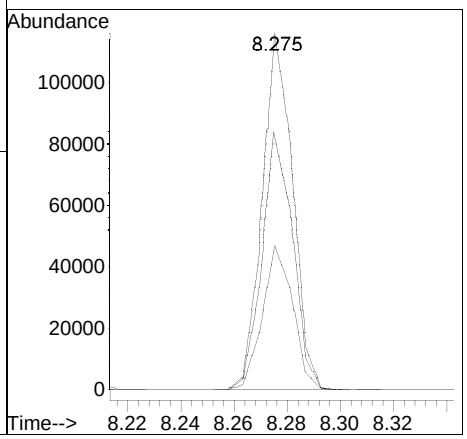


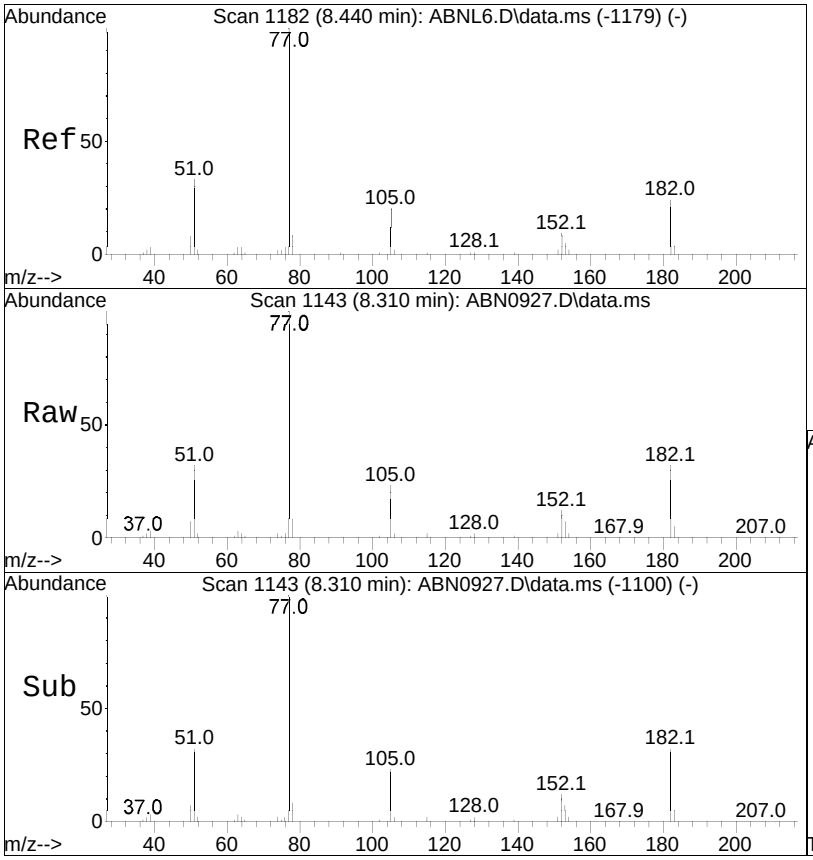


#77
NDPA/DPA
Concen: 5.04 ug/ml
RT: 8.275 min Scan# 1137
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:169 Resp: 91762

Ion	Ratio	Lower	Upper
169	100		
168	72.9	55.2	82.8
167	40.6	30.4	45.6

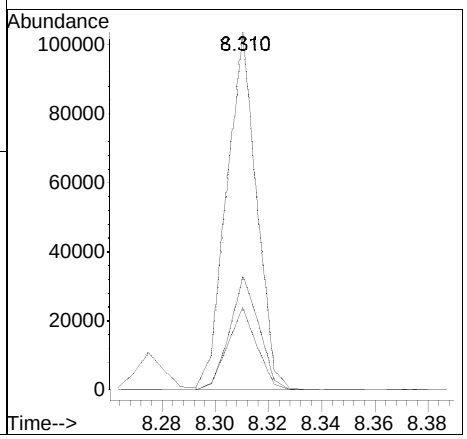


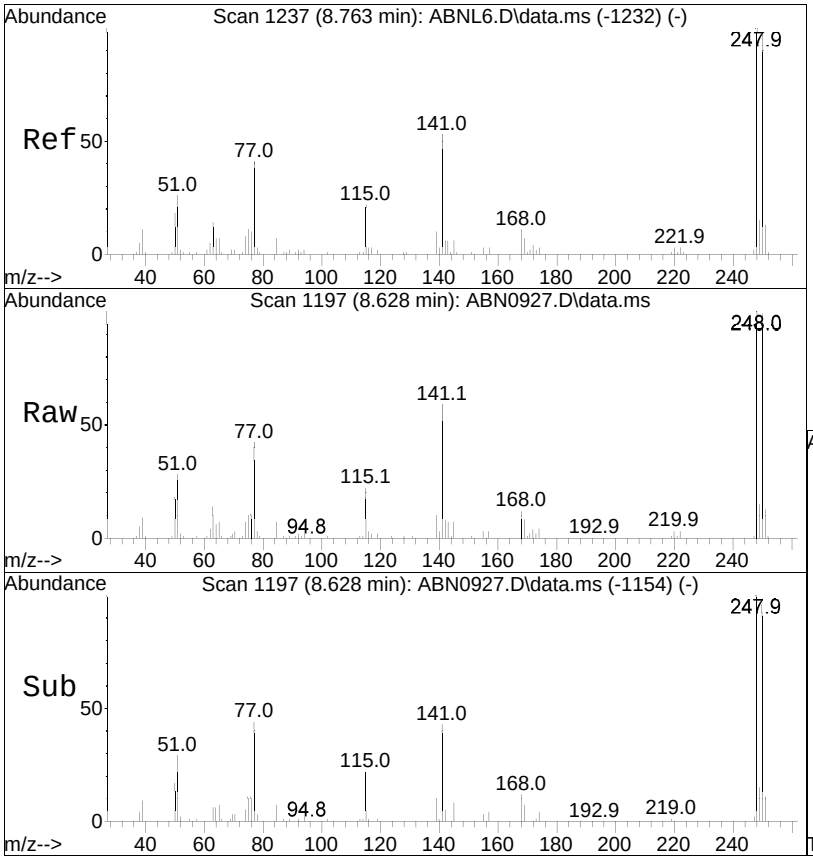


#78
Azobenzene
Concen: 4.18 ug/ml
RT: 8.310 min Scan# 1143
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion: 77 Resp: 80734

Ion	Ratio	Lower	Upper
77	100		
182	31.0	16.2	24.2#
105	22.6	17.9	26.9

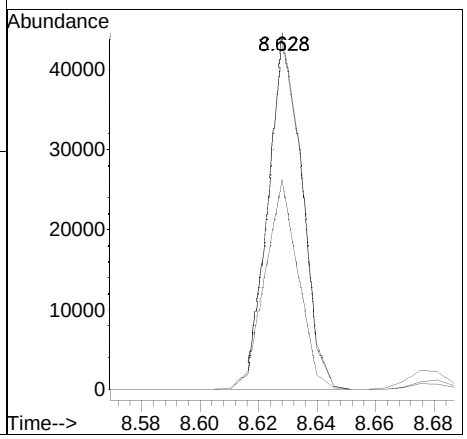


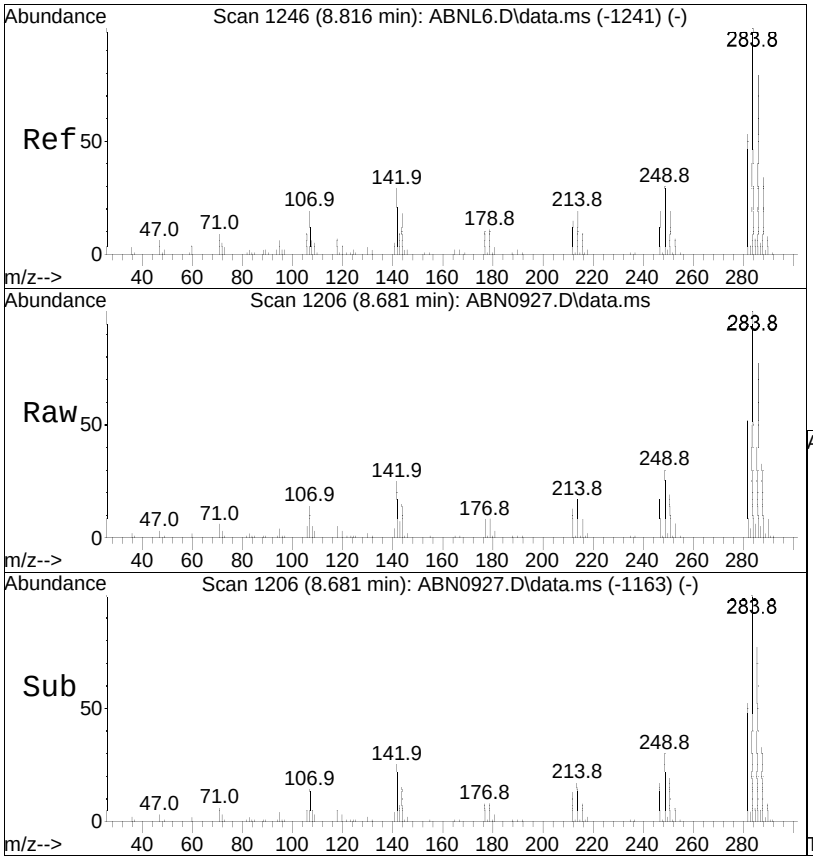


#80
4-Bromophenyl phenyl ether
Concen: 4.85 ug/ml
RT: 8.628 min Scan# 1197
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:248 Resp: 35867

Ion	Ratio	Lower	Upper
248	100		
141	57.1	74.6	111.8#
250	97.8	76.9	115.3

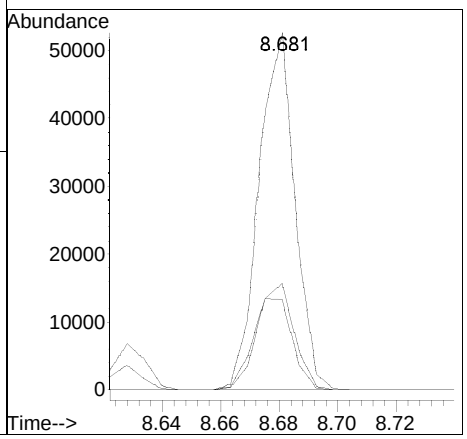


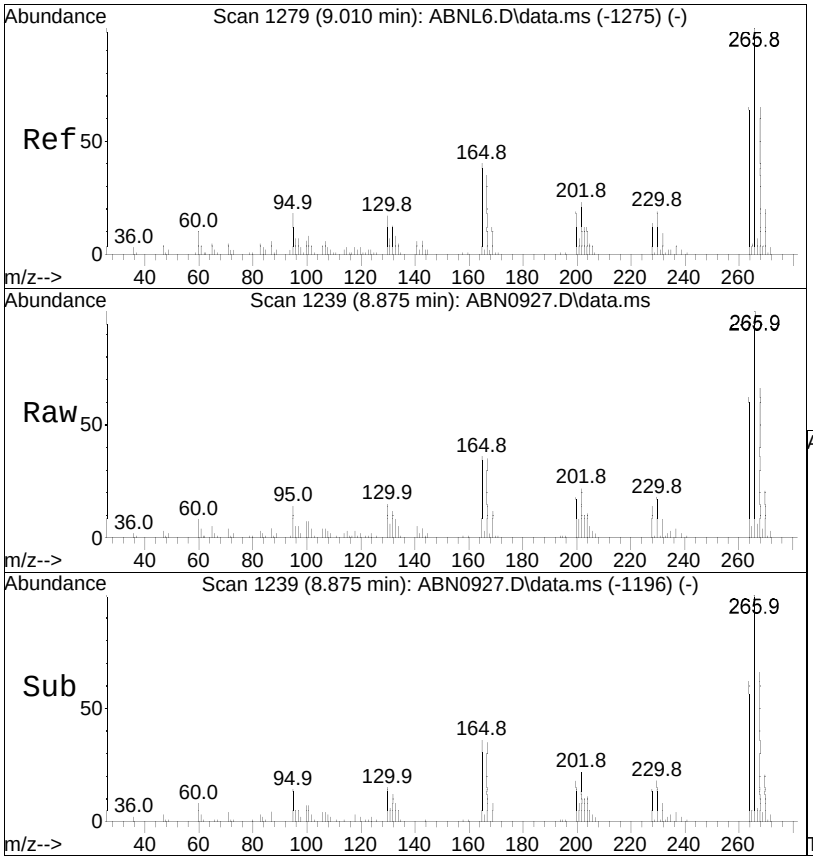


#81
Hexachlorobenzene
Concen: 4.83 ug/ml
RT: 8.681 min Scan# 1206
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:284 Resp: 44810

Ion	Ratio	Lower	Upper
284	100		
142	28.3	37.6	56.4#
249	30.7	25.4	38.2

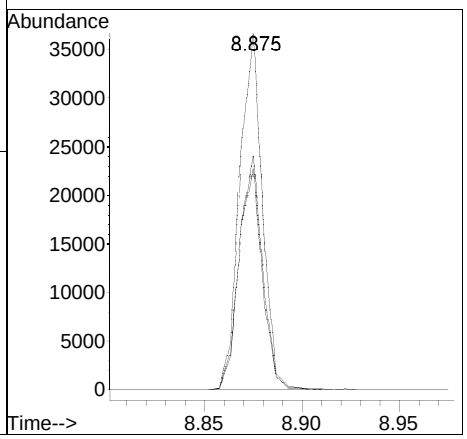


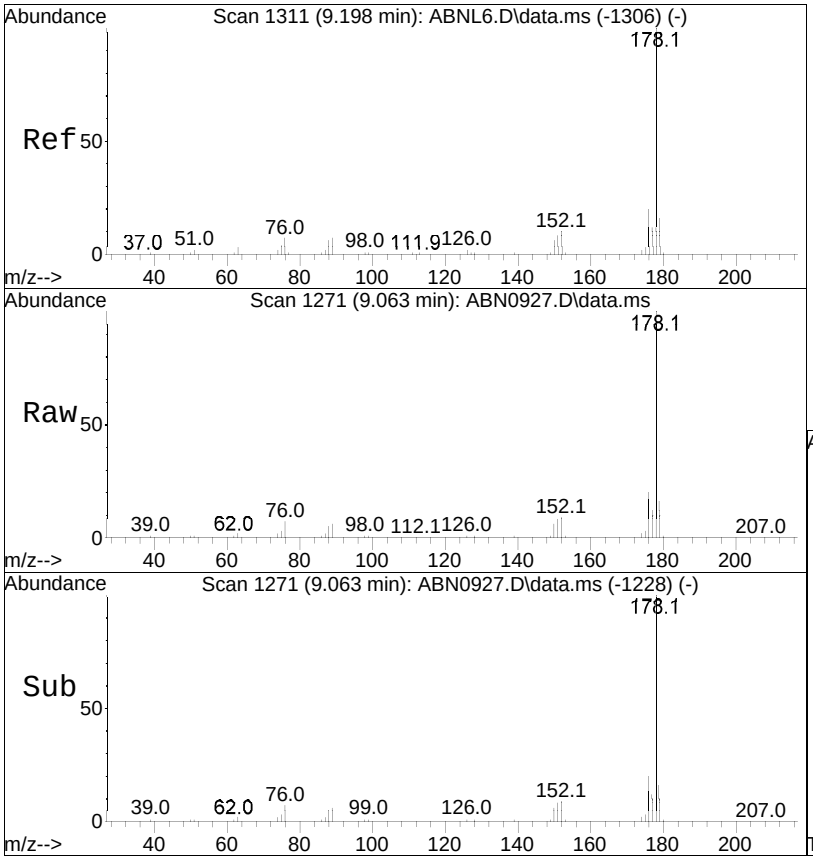


#82
Pentachlorophenol
Concen: 6.21 ug/ml
RT: 8.875 min Scan# 1239
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:266 Resp: 29615

Ion	Ratio	Lower	Upper
266	100		
264	64.8	50.7	76.1
268	66.9	52.5	78.7

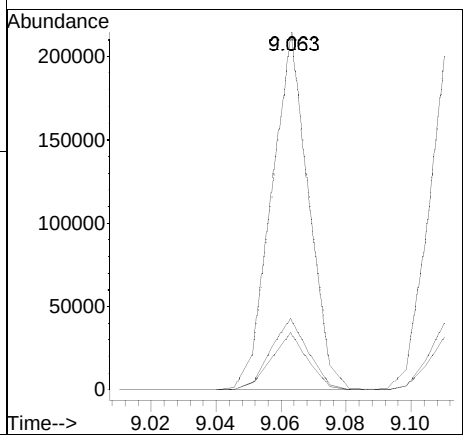


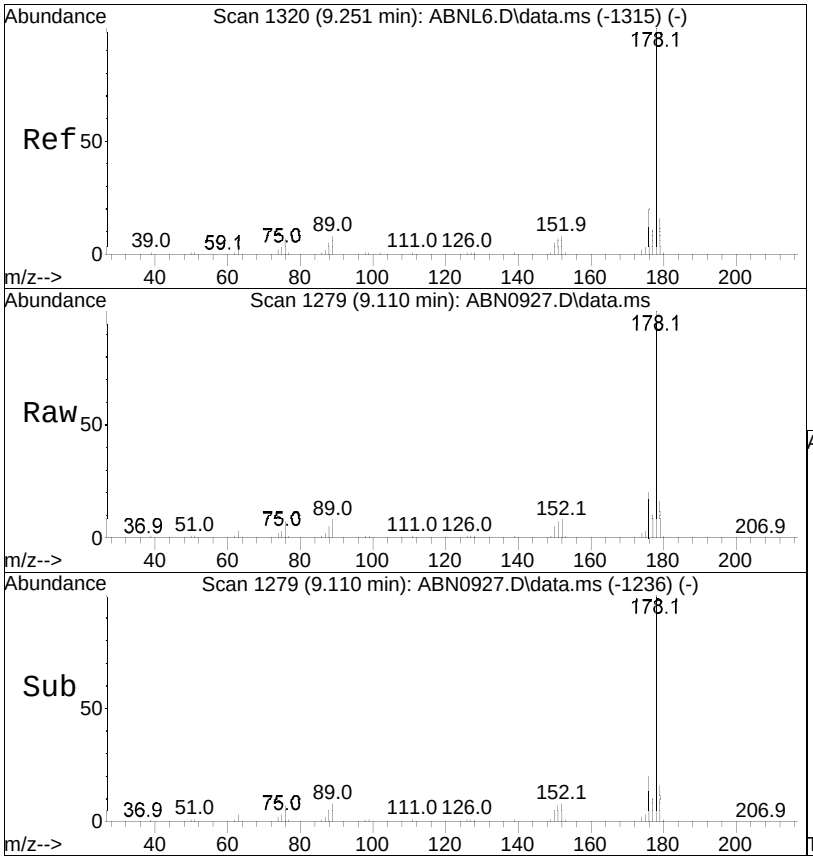


#89
Phenanthrene
Concen: 4.97 ug/ml
RT: 9.063 min Scan# 1271
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:178 Resp: 170041

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.3	18.5
176	20.1	15.4	23.2

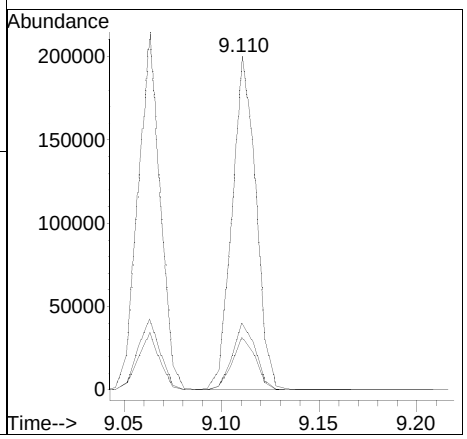


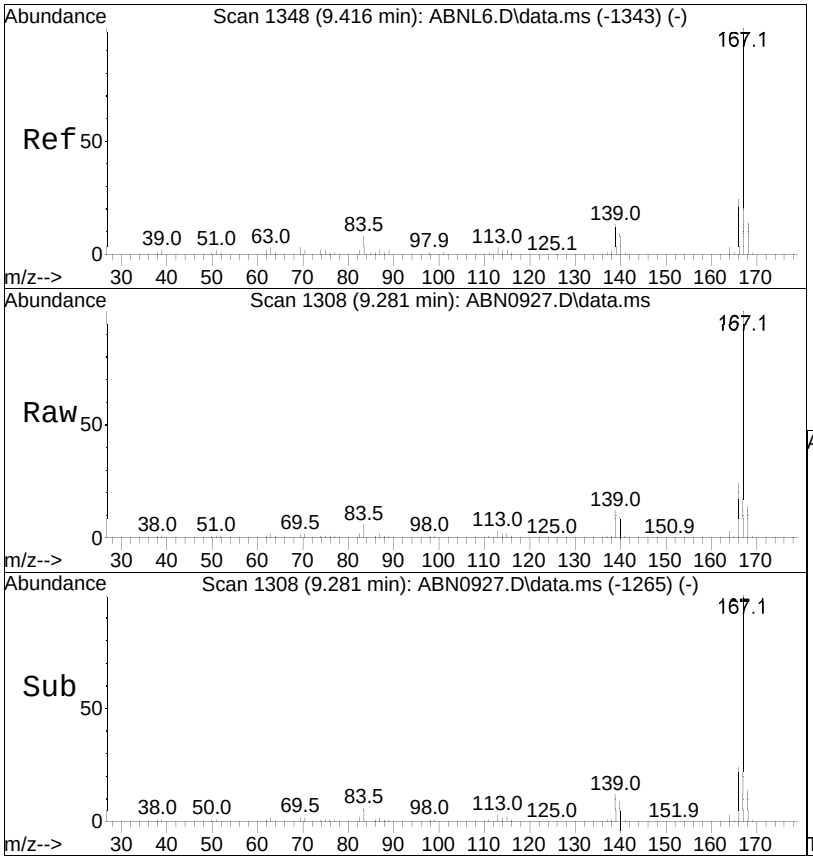


#90
Anthracene
Concen: 5.09 ug/ml
RT: 9.110 min Scan# 1279
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:178 Resp: 170114

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.2
176	19.6	15.1	22.7

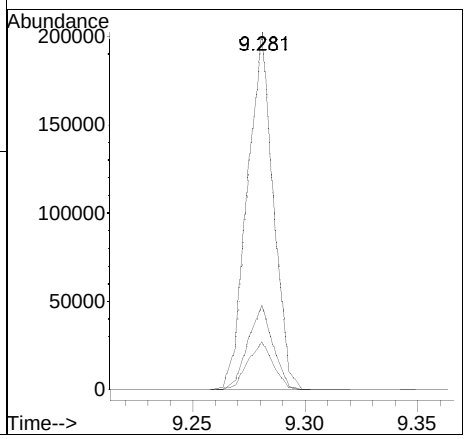


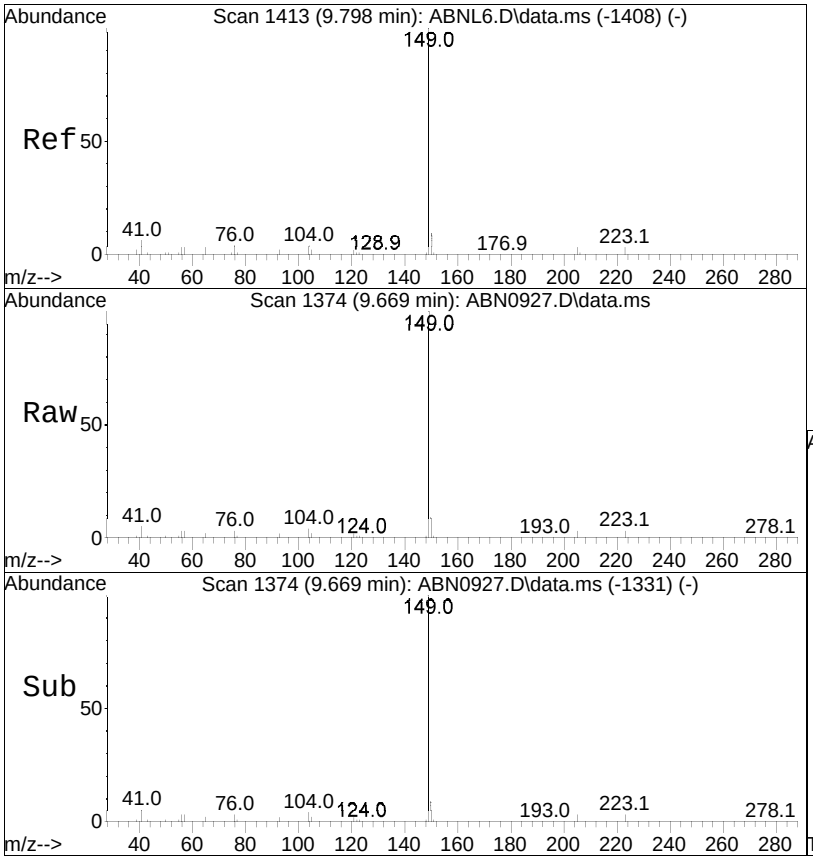


#91
Carbazole
Concen: 5.25 ug/ml
RT: 9.281 min Scan# 1308
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:167 Resp: 160759

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.8	16.2
166	23.2	17.7	26.5

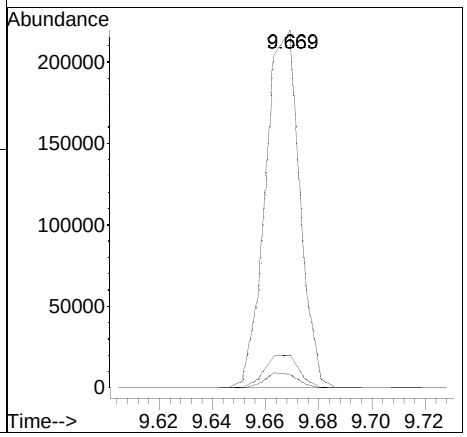


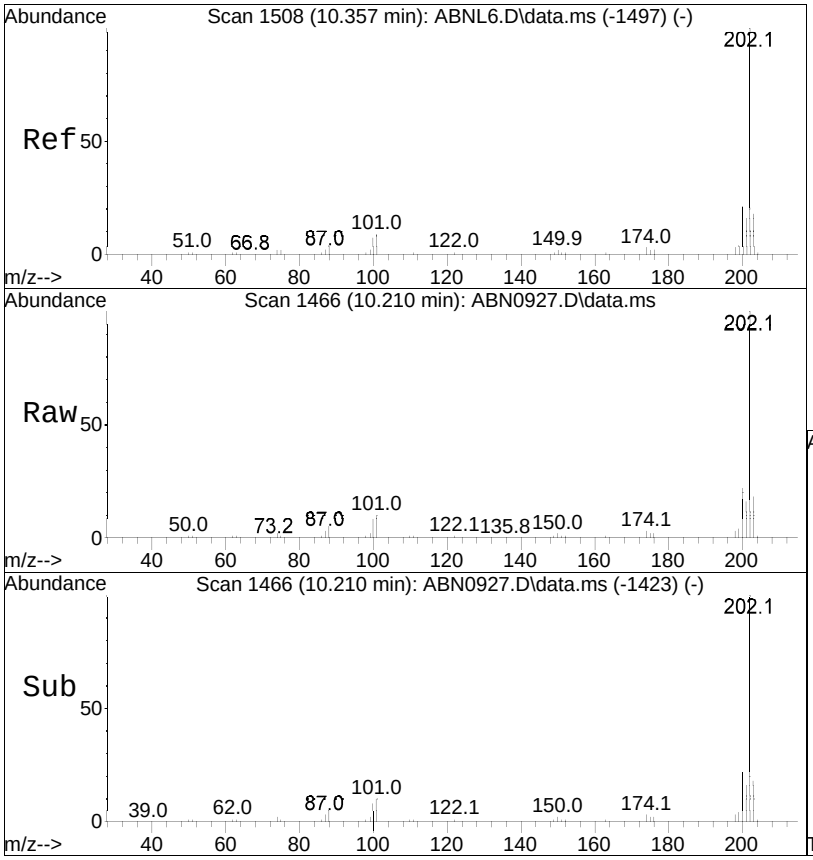


#92
Di-n-butylphthalate
Concen: 5.82 ug/ml
RT: 9.669 min Scan# 1374
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:149 Resp: 194417

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.1	4.0	6.0

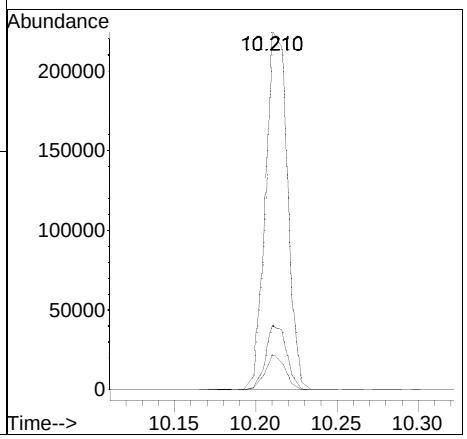


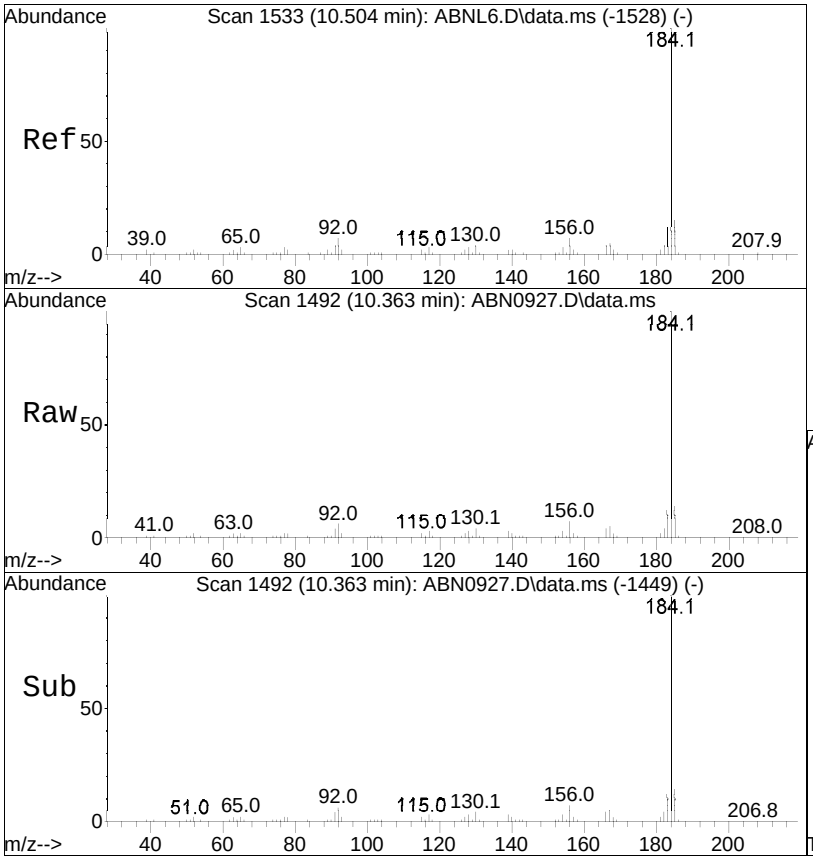


#93
Fluoranthene
Concen: 5.26 ug/ml
RT: 10.210 min Scan# 1466
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:202 Resp: 208702

Ion	Ratio	Lower	Upper
202	100		
101	9.1	11.2	16.8#
203	17.4	13.7	20.5

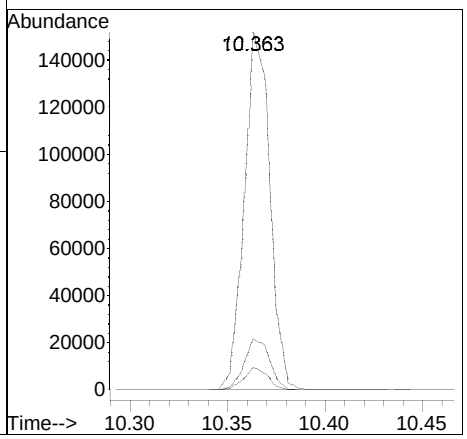


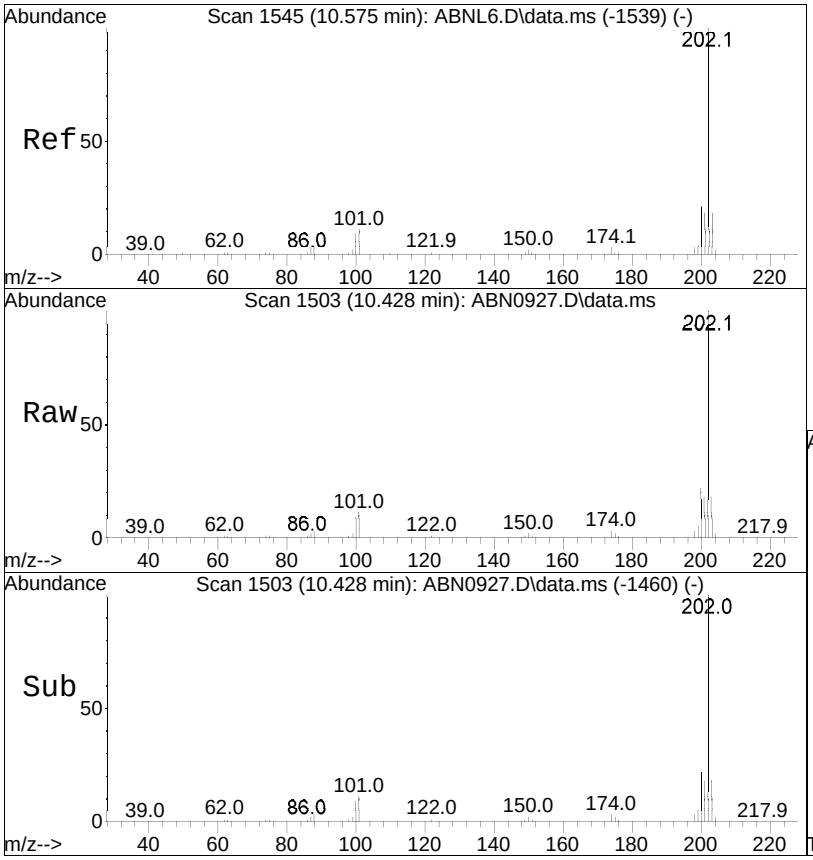


#94
Benzidine
Concen: 6.27 ug/ml
RT: 10.363 min Scan# 1492
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:184 Resp: 136646

Ion	Ratio	Lower	Upper
184	100		
92	6.0	7.3	10.9#
185	14.2	11.8	17.8

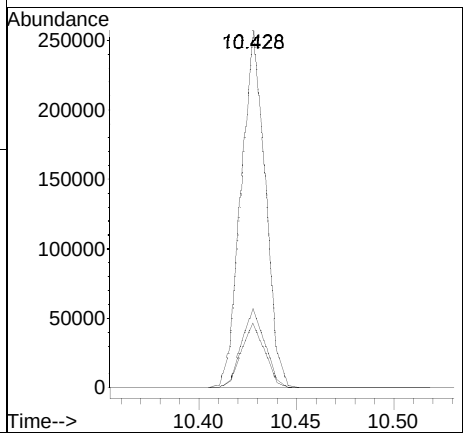


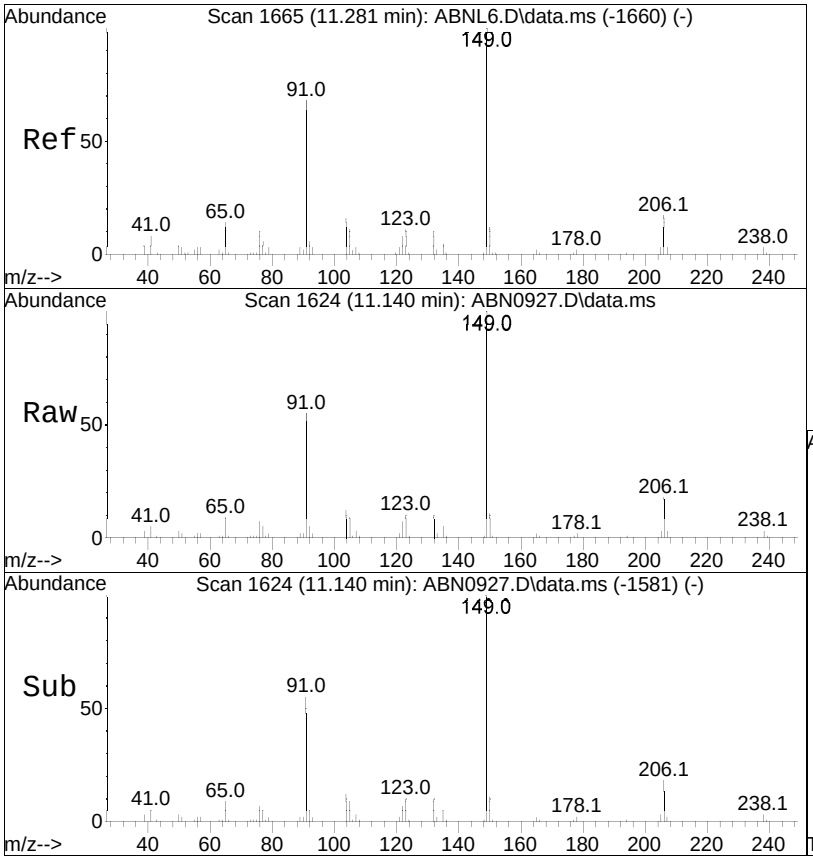


#95
Pyrene
Concen: 5.23 ug/ml
RT: 10.428 min Scan# 1503
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:202 Resp: 219819

Ion	Ratio	Lower	Upper
202	100		
200	21.8	16.9	25.3
203	17.9	14.3	21.5

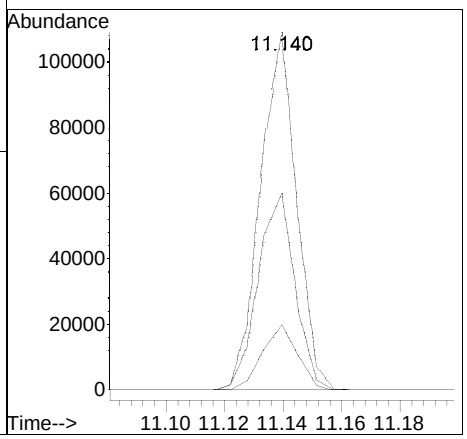


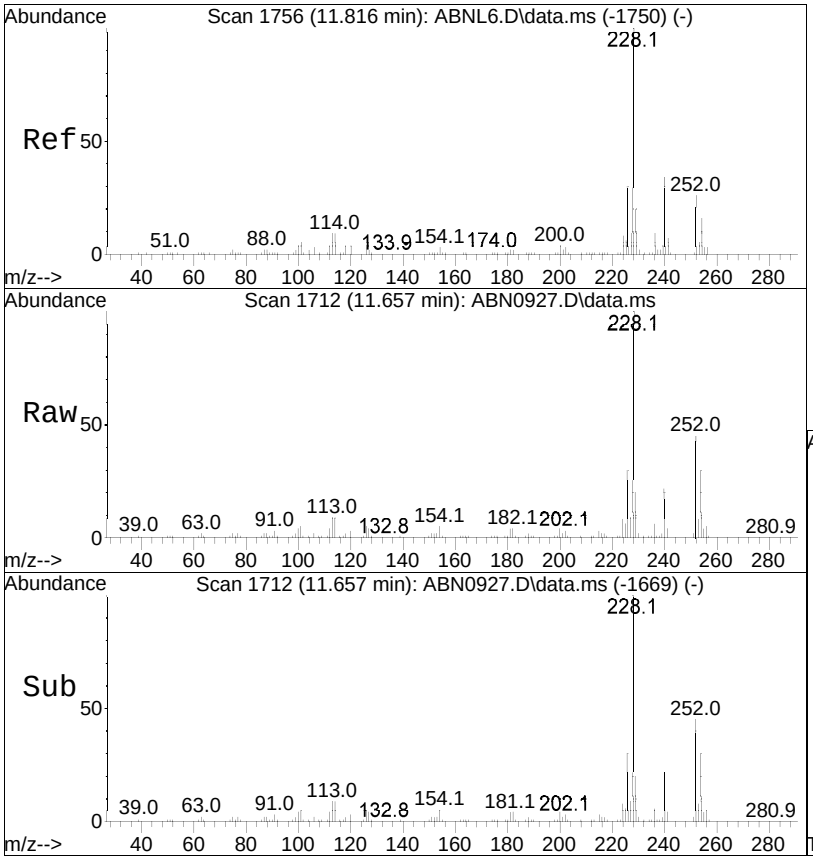


#97
Butyl benzyl phthalate
Concen: 6.26 ug/ml
RT: 11.140 min Scan# 1624
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:149 Resp: 92530

Ion	Ratio	Lower	Upper
149	100		
91	56.5	57.9	86.9#
206	17.9	11.9	17.9#

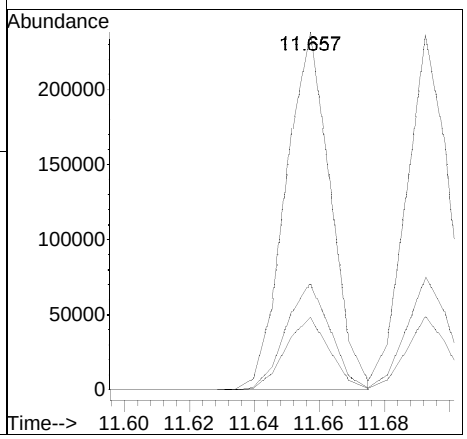


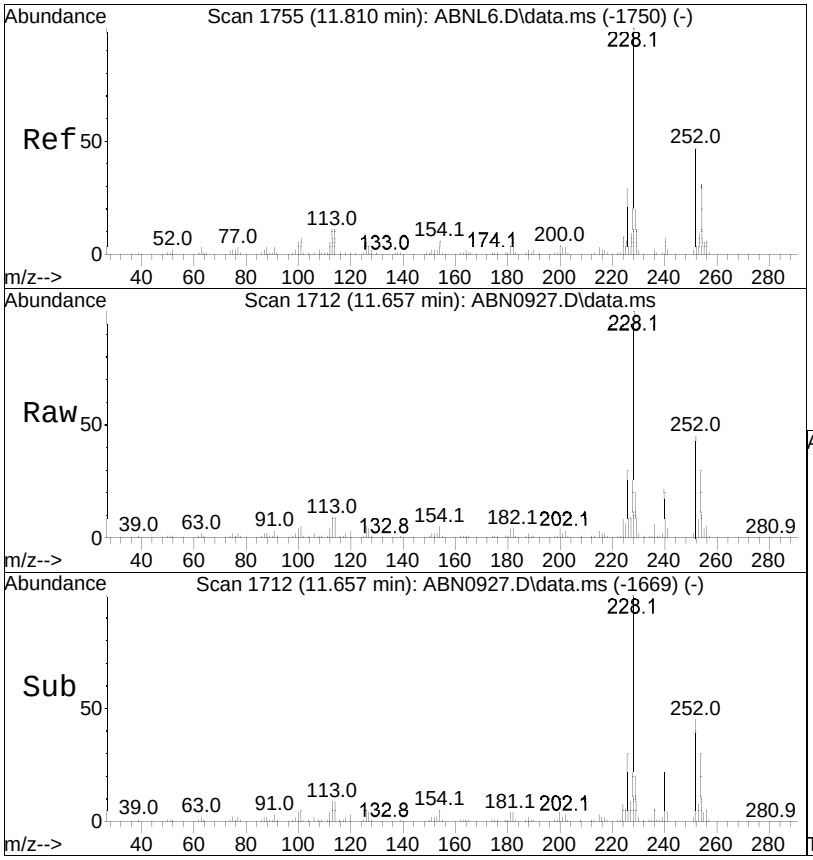


#105
Benzo(a)anthracene
Concen: 4.87 ug/ml
RT: 11.657 min Scan# 1712
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:228 Resp: 229254

Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	34.0
229	20.0	15.8	23.6

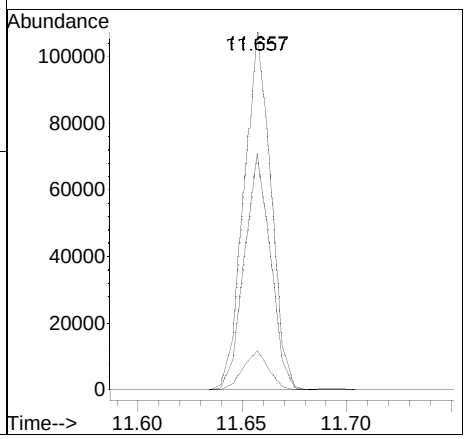


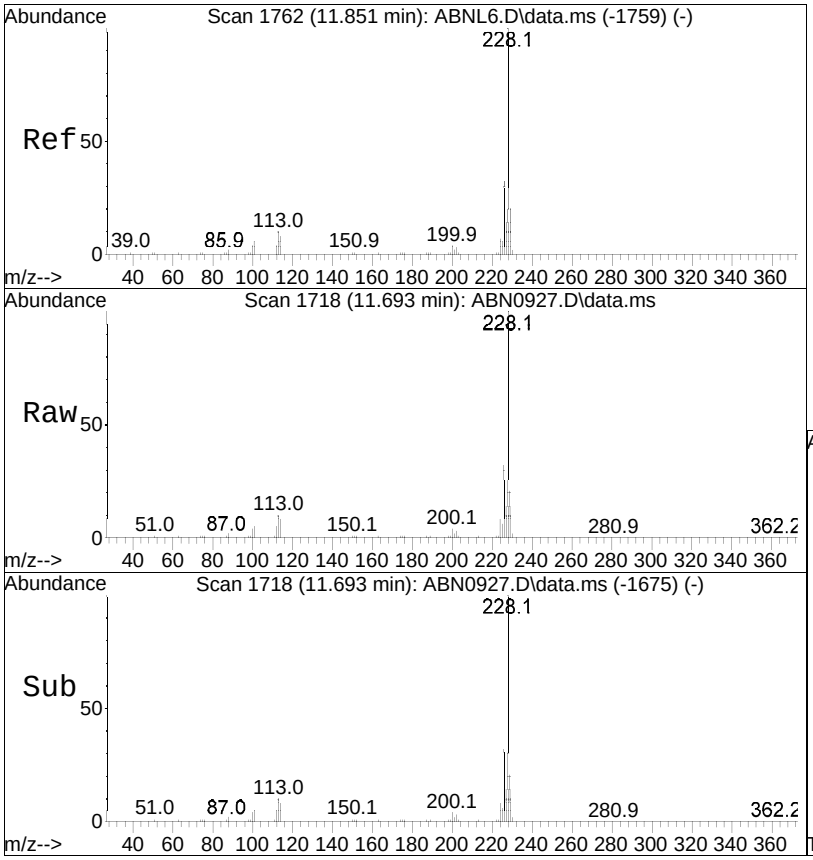


#106
3,3'-Dichlorobenzidine
Concen: 5.57 ug/ml
RT: 11.657 min Scan# 1712
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:252 Resp: 95544

Ion	Ratio	Lower	Upper
252	100		
126	10.7	12.6	19.0#
254	64.4	51.1	76.7

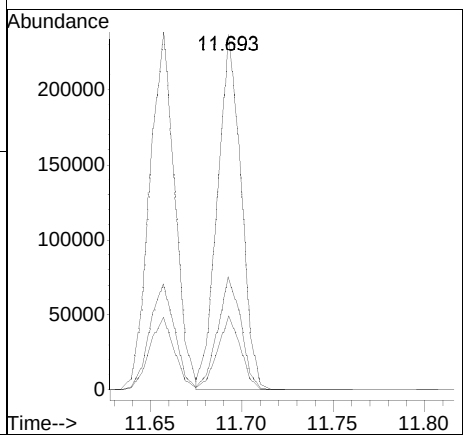


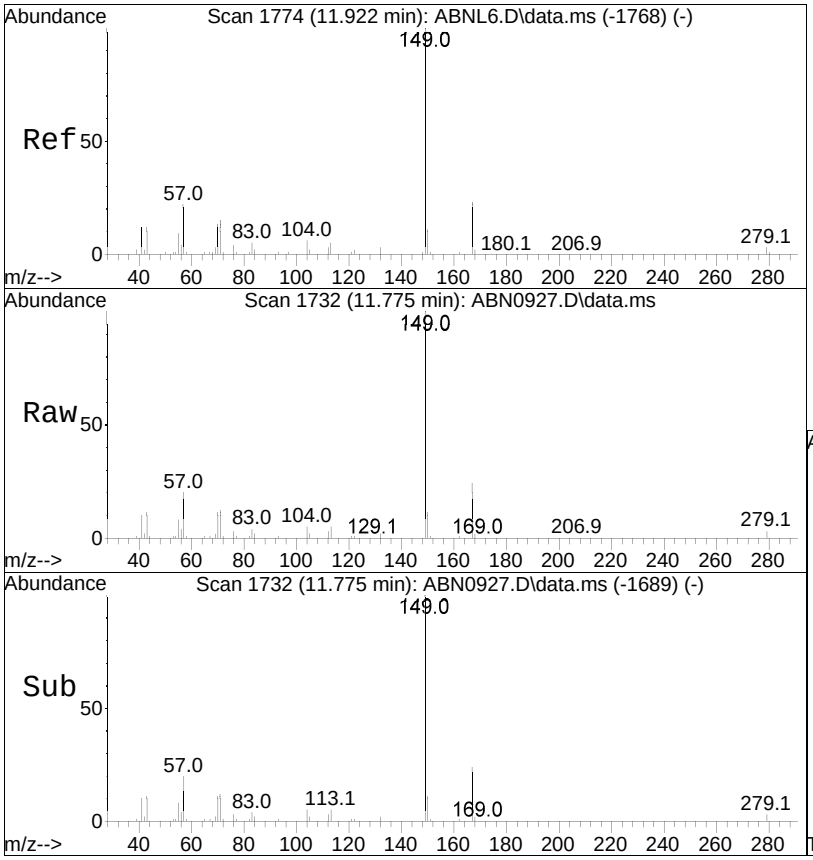


#107
Chrysene
Concen: 4.61 ug/ml
RT: 11.693 min Scan# 1718
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:228 Resp: 213038

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.7	37.1
229	20.2	15.5	23.3

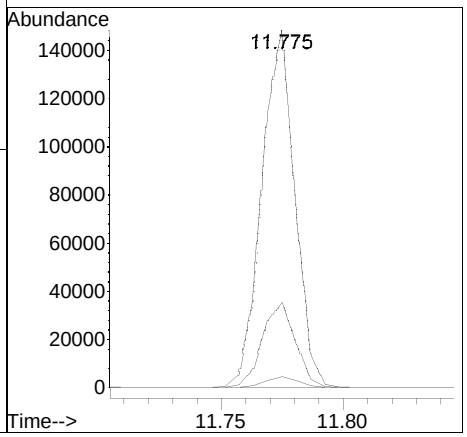


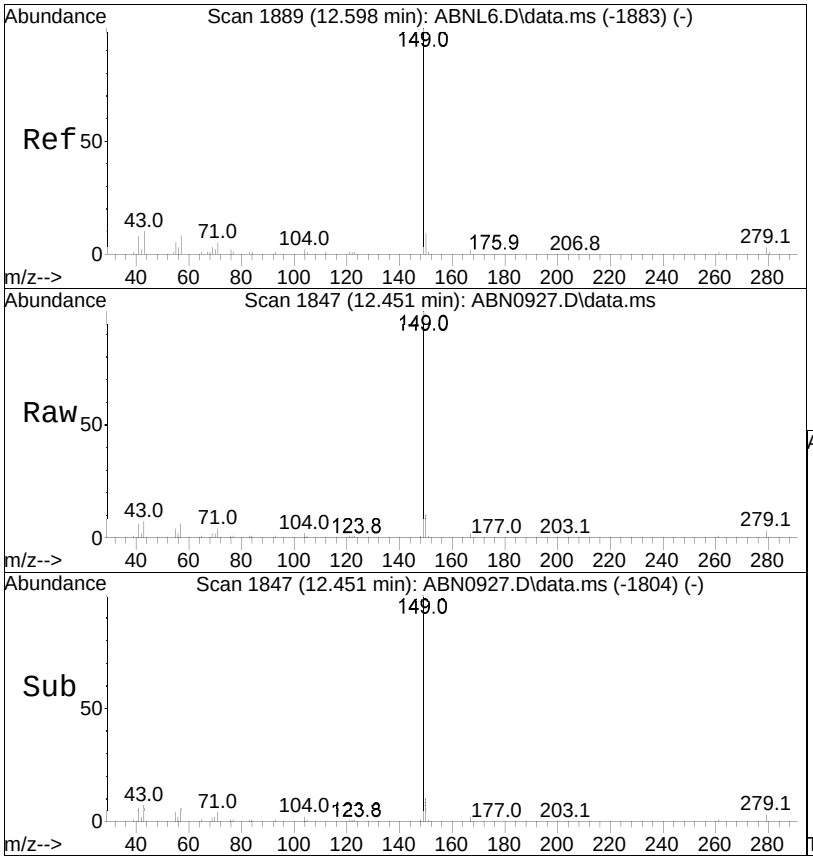


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.91 ug/ml
RT: 11.775 min Scan# 1732
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:149 Resp: 138337

Ion	Ratio	Lower	Upper
149	100		
167	24.0	18.4	27.6
279	2.8	1.7	2.5#

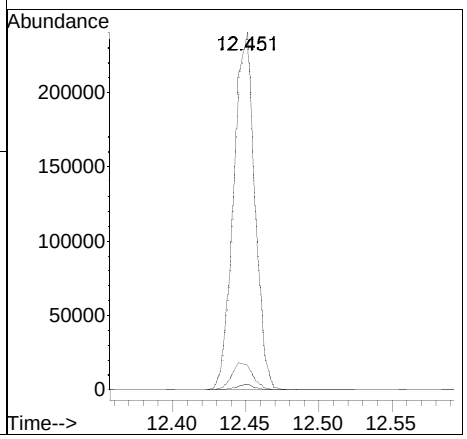


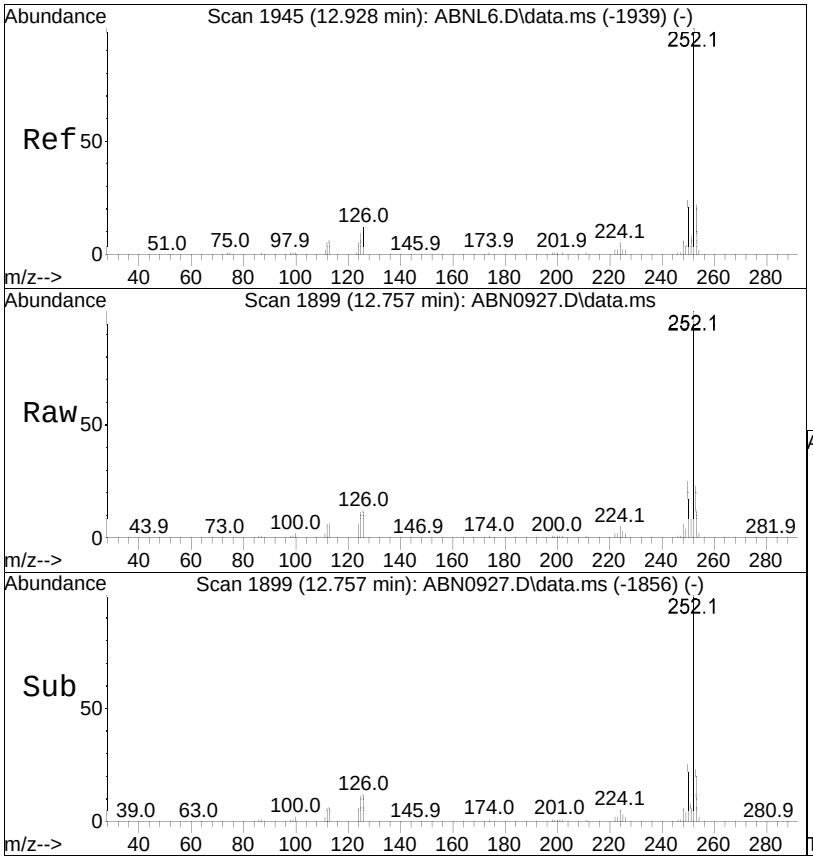


#109
Di-n-octylphthalate
Concen: 6.66 ug/ml
RT: 12.451 min Scan# 1847
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:149 Resp: 239009

Ion	Ratio	Lower	Upper
149	100		
43	7.7	8.2	12.2#
167	1.4	1.1	1.7

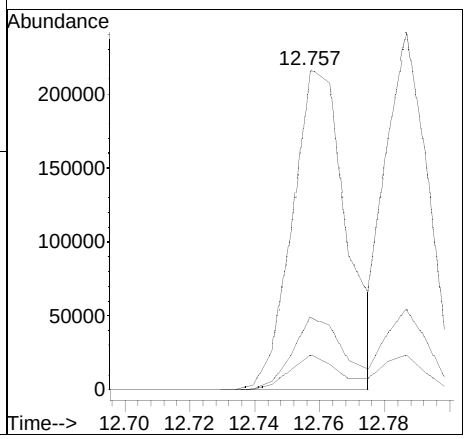


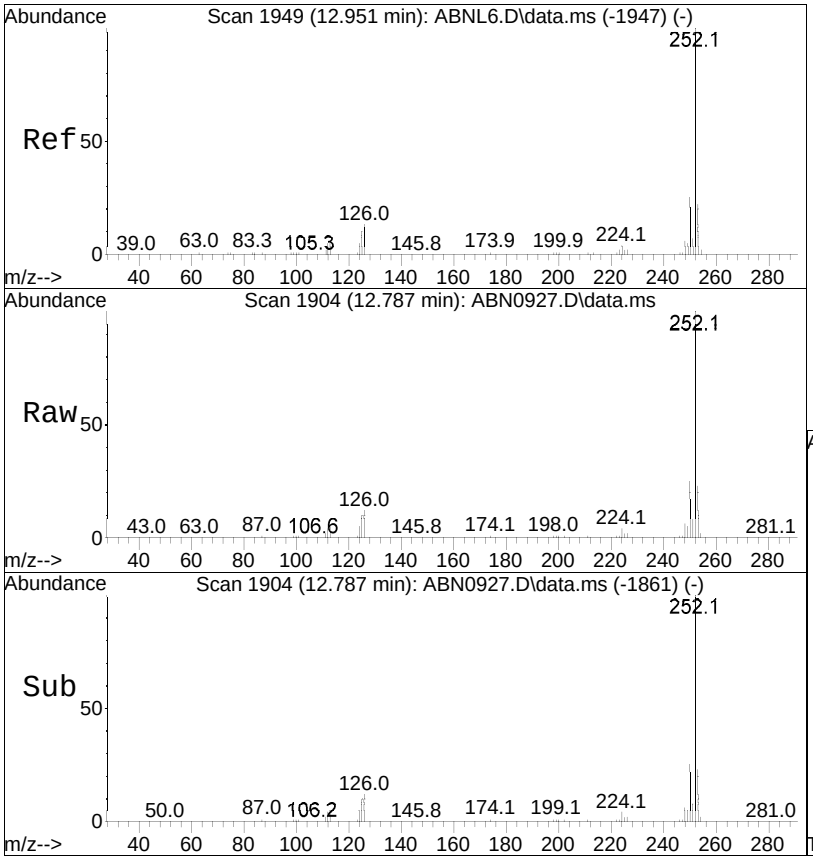


#110
Benzo(b)fluoranthene
Concen: 5.25 ug/ml
RT: 12.757 min Scan# 1899
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:252 Resp: 253551

Ion	Ratio	Lower	Upper
252	100		
125	9.3	11.3	16.9#
253	21.9	17.8	26.8

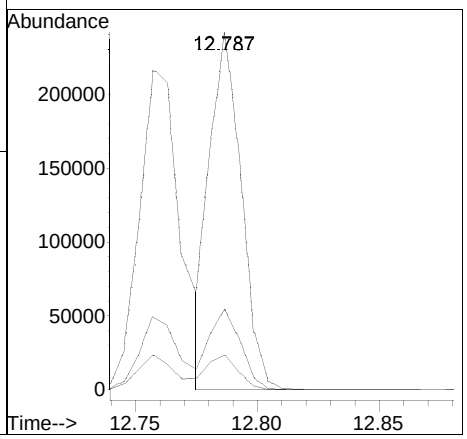


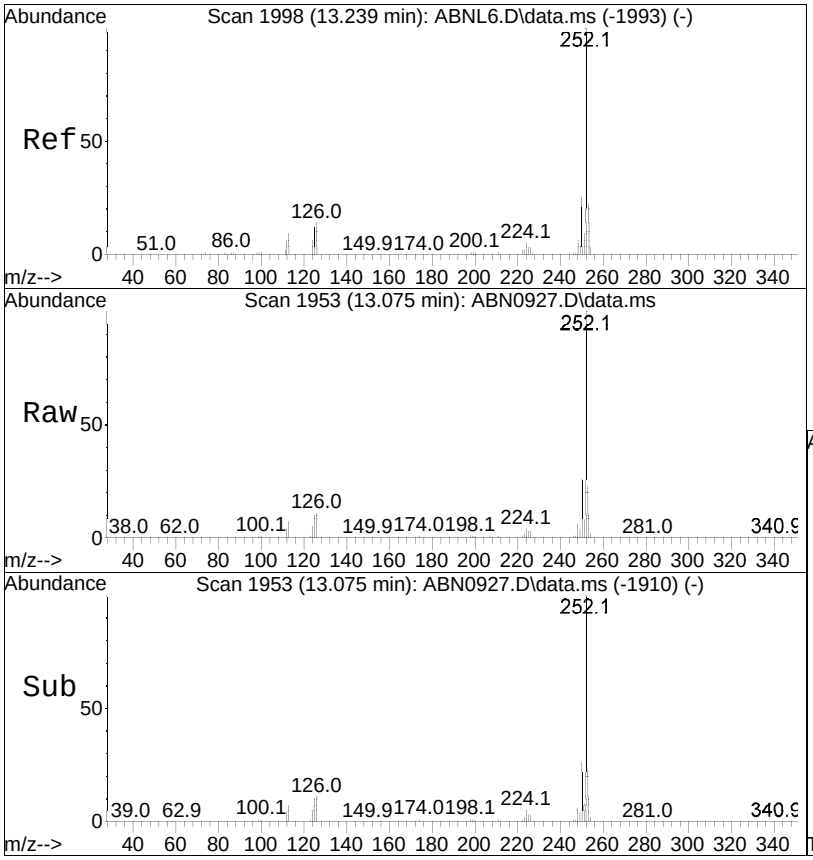


#111
Benzo(k)fluoranthene
Concen: 4.93 ug/ml M3
RT: 12.787 min Scan# 1904
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:252 Resp: 217351

Ion	Ratio	Lower	Upper
252	100		
125	10.8	11.5	17.3#
253	25.6	17.6	26.4

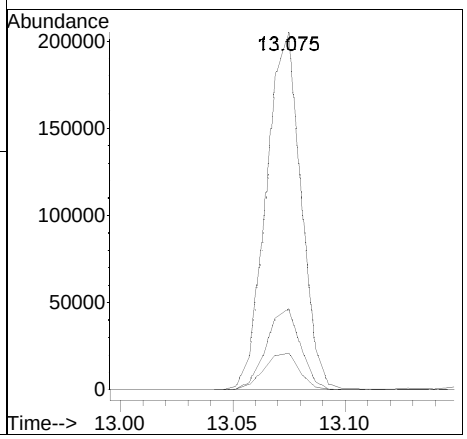


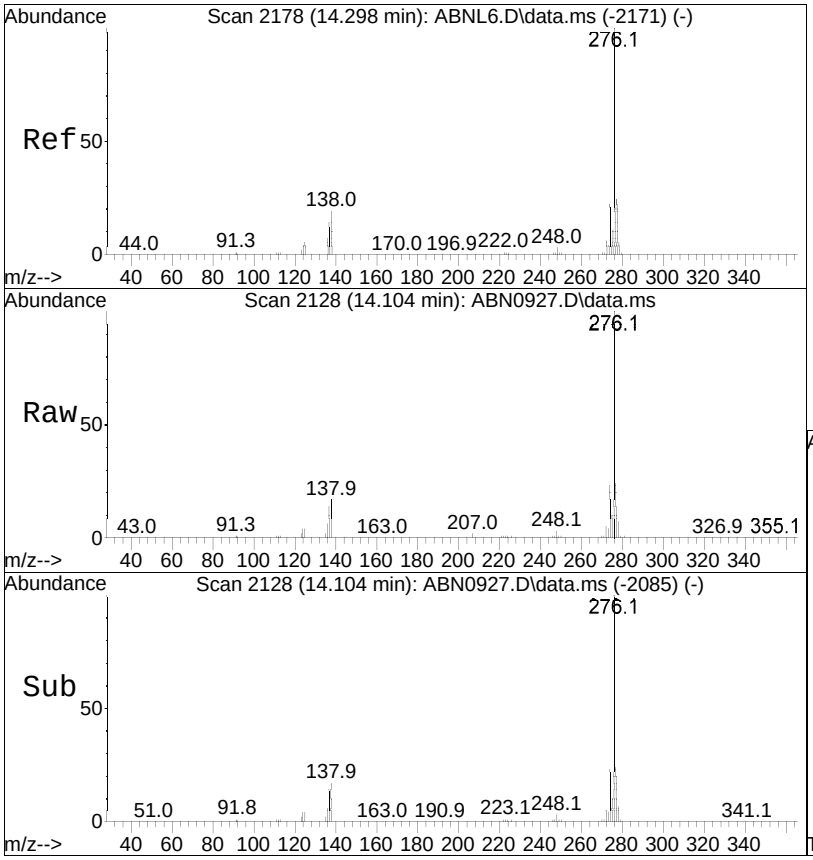


#112
Benzo(a)pyrene
Concen: 5.20 ug/ml
RT: 13.075 min Scan# 1953
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:252 Resp: 219264

Ion	Ratio	Lower	Upper
252	100		
125	10.7	12.6	18.8#
253	22.4	17.5	26.3

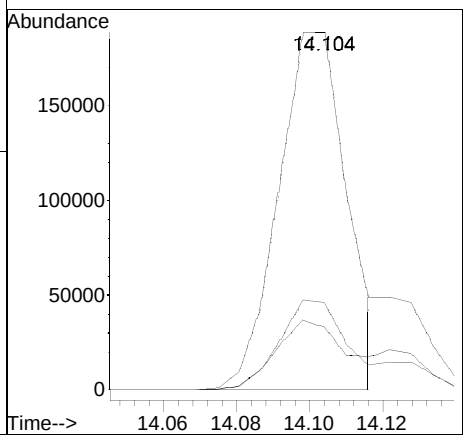


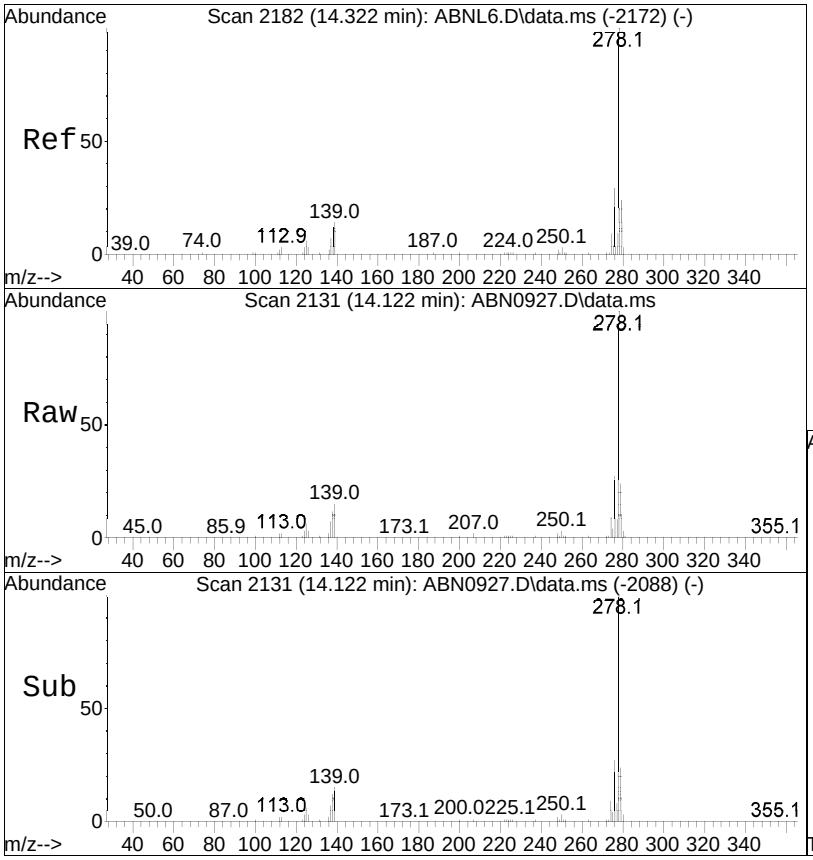


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.24 ug/mL M6
RT: 14.104 min Scan# 2128
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:276 Resp: 245831

Ion	Ratio	Lower	Upper
276	100		
138	28.0	22.1	33.1
277	30.4	19.0	28.6#

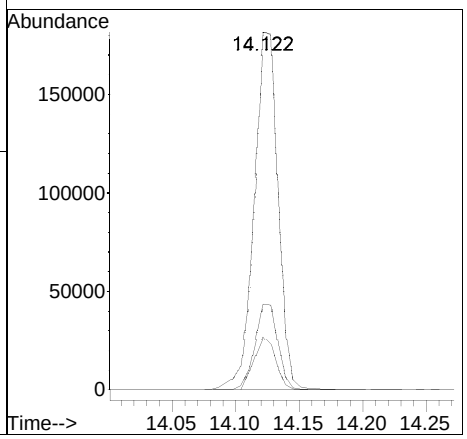


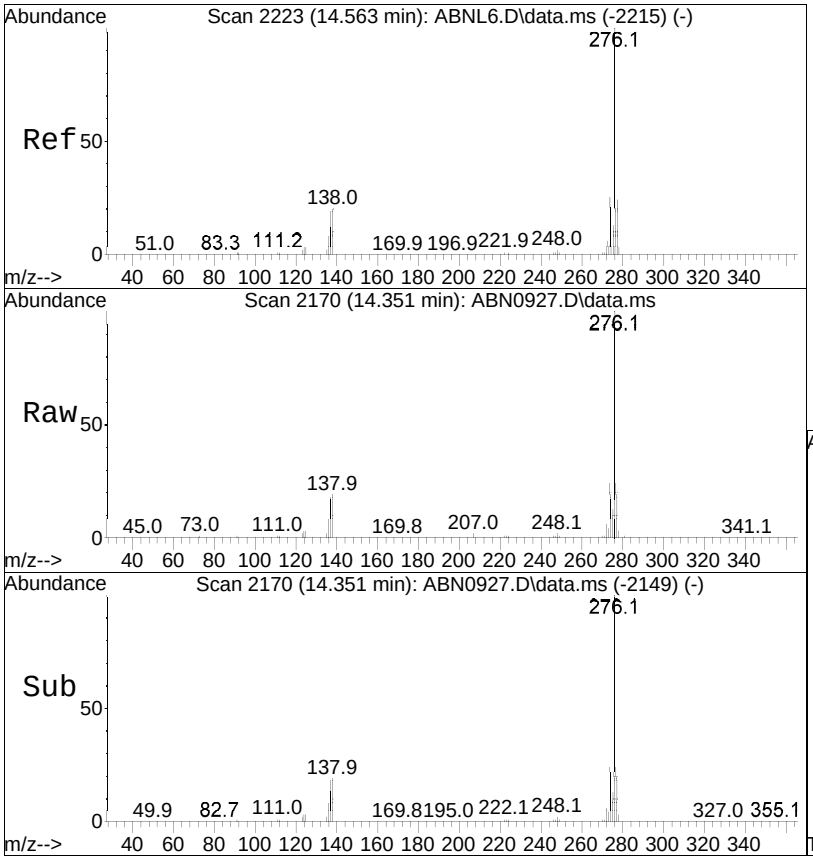


#115
Dibenzo(a,h)anthracene
Concen: 5.23 ug/ml
RT: 14.122 min Scan# 2131
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:278 Resp: 234338

Ion	Ratio	Lower	Upper
278	100		
139	13.6	17.8	26.8#
279	23.3	19.2	28.8

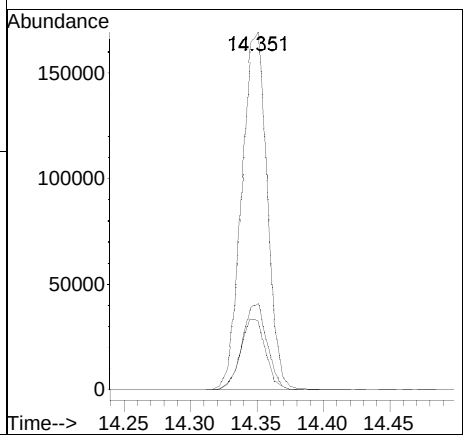




#116
Benzo(ghi)perylene
Concen: 4.93 ug/ml
RT: 14.351 min Scan# 2170
Delta R.T. 0.000 min
Lab File: ABN0927.D
Acq: 27 Sep 2024 11:20 am

Tgt Ion:276 Resp: 222906

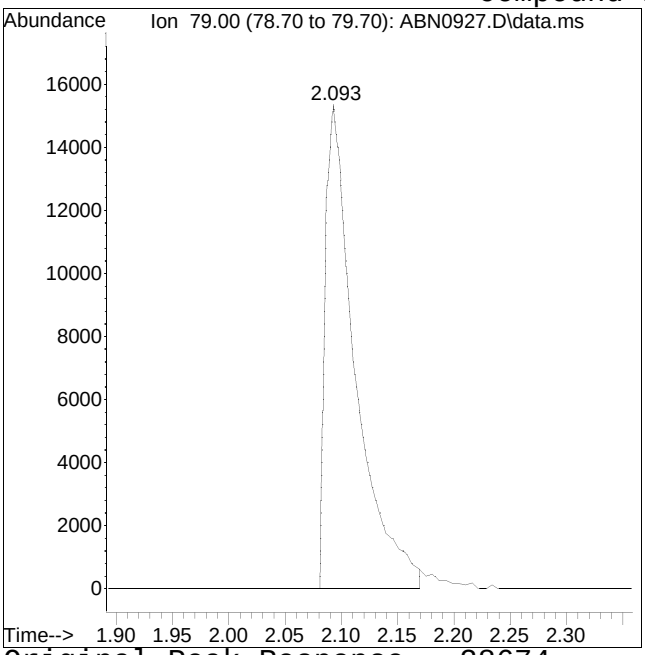
Ion	Ratio	Lower	Upper
276	100		
138	19.7	21.9	32.9#
277	23.8	18.4	27.6



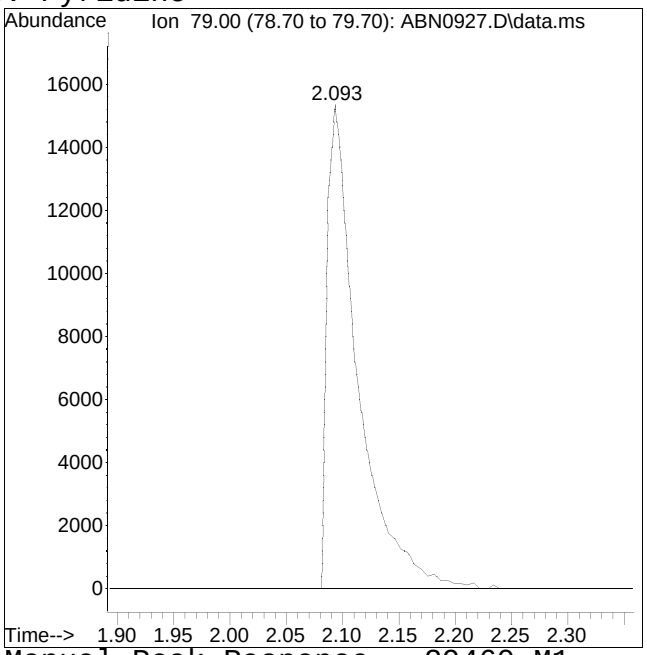
Manual Integration Report

Data Path : I:\8270\SV112\240927RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0927.D Operator : SV112:im
Date Inj'd : 9/27/2024 11:20 am Instrument : SV112
Sample : WG1977240-3,32,,ABN 10908 Quant Date : 9/27/2024 11:58 am

Compound #3: Pyridine



Original Peak Response = 28674



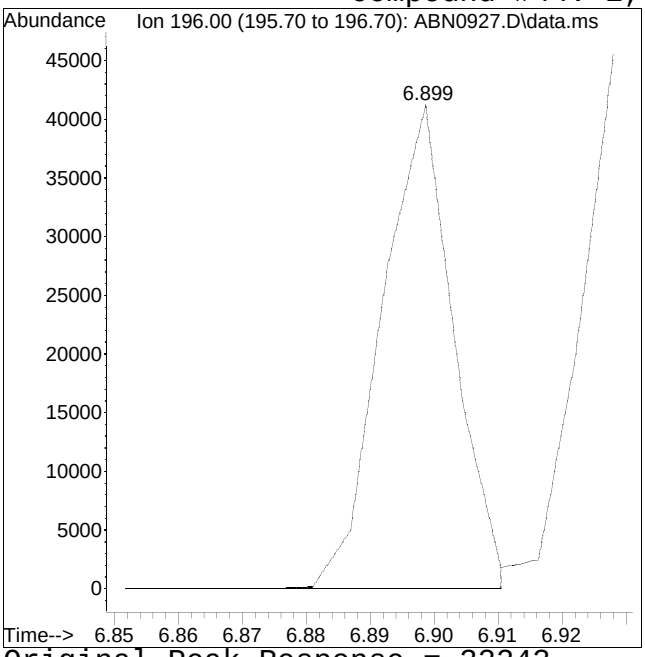
Manual Peak Response = 29460 M1

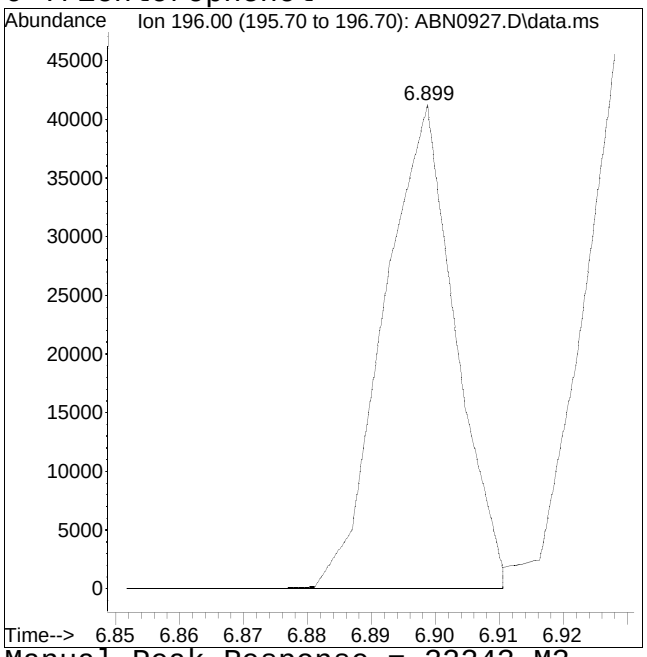
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV112\240927RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0927.D Operator : SV112:im
Date Inj'd : 9/27/2024 11:20 am Instrument : SV112
Sample : WG1977240-3,32,,ABN 10908 Quant Date : 9/27/2024 11:58 am

Compound #44: 2,4,6-Trichlorophenol





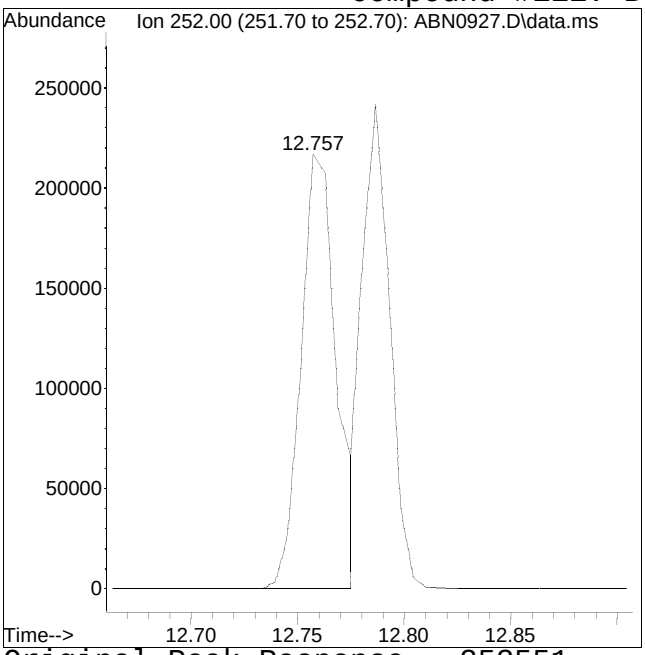
Original Peak Response = 32243 Manual Peak Response = 32243 M3

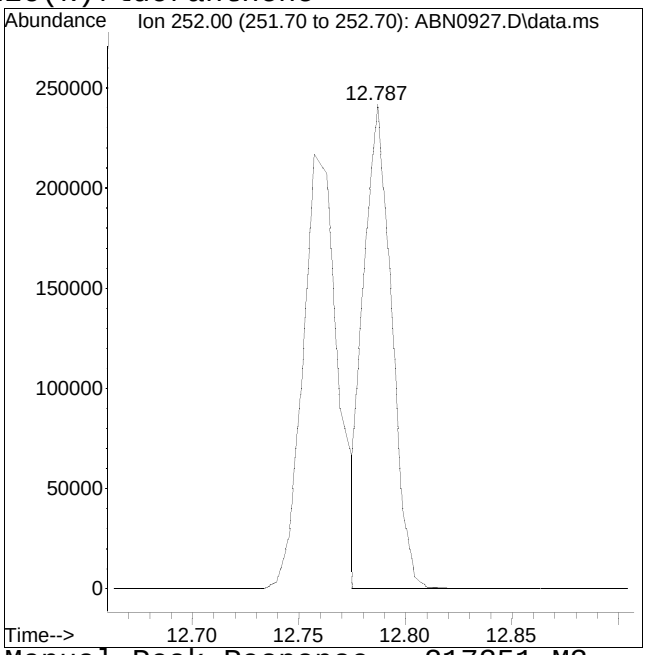
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240927RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0927.D Operator : SV112:im
Date Inj'd : 9/27/2024 11:20 am Instrument : SV112
Sample : WG1977240-3,32,,ABN 10908 Quant Date : 9/27/2024 11:58 am

Compound #111: Benzo(k)fluoranthene



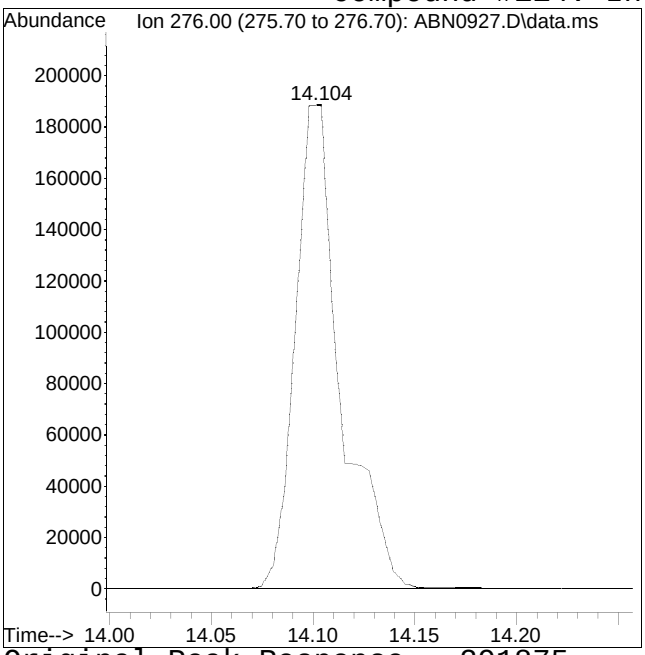


Original Peak Response = 253551 Manual Peak Response = 217351 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

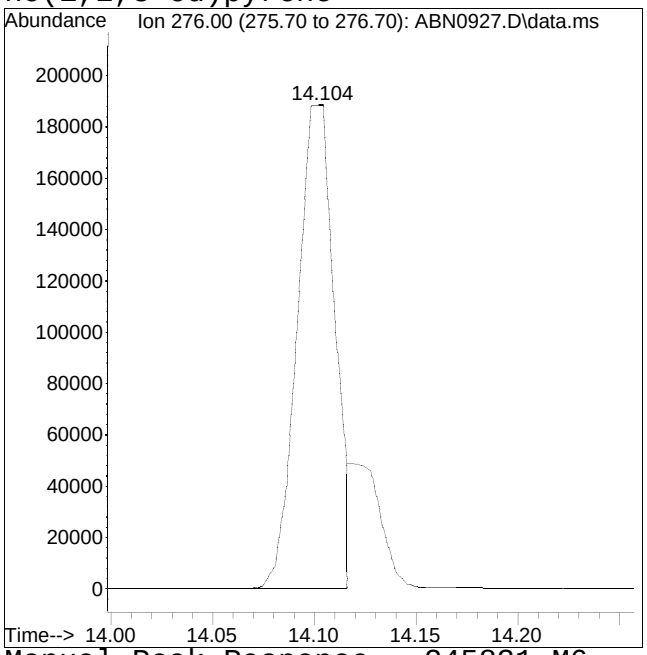
Manual Integration Report

Data Path : I:\8270\SV112\240927RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0927.D Operator : SV112:im
Date Inj'd : 9/27/2024 11:20 am Instrument : SV112
Sample : WG1977240-3,32,,ABN 10908 Quant Date : 9/27/2024 11:58 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 291875



Manual Peak Response = 245831 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240927RVT\
Data File : AP90927.D
Acq On : 27 Sep 2024 11:43 am
Operator : SV112:im
Sample : WG1977240-4,32,,AP9 10909 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 27 12:10:48 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:11:47 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	100	0.00
28	T	Benzaldehyde		1.094	0.939	14.2	87	0.00
29	T	Acetophenone		1.903	1.620	14.9	81	0.00
30	T	m-Toluidine		1.828	1.609	12.0	84	0.00
31	T	2-Chloroaniline		1.742	1.513	13.1	85	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	99	0.00
56	T	a-Terpineol		0.277	0.240	13.4	85	0.00
57	T	3-Chloroaniline		0.150	0.111	26.0#	74	0.00
58	T	2,6-Dichlorophenol		0.326	0.311	4.6	92	0.00
59	T	1-chloro-2-nitrobenzene		0.143	0.131	8.4	89	0.00
60	T	Caprolactam	*	5.000	4.448	11.0	93	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.479	0.405	15.4	84	0.00
62	T	Biphenyl		1.026	0.891	13.2	86	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	100	0.00
84	T	Dichloran	*	5.000	4.802	4.0	111	0.00
85	T	Pentachloronitrobenzene		0.235	0.217	7.7	96	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	97	0.00
99	T	Diphenamid		0.515	0.504	2.1	92	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : AP90927.D
Acq On : 27 Sep 2024 11:43 am
Operator : SV112:im
Sample : WG1977240-4,32,,AP9 10909 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 27 12:10:48 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:11:47 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.681	152	21185	4.000	ug/ml		0.00
55) IS2_Naphthalene-d8	5.910	136	80947	4.000	ug/ml		0.00
83) IS2_Acenaphthene-d10	7.610	164	51656	4.000	ug/ml		0.00
98) IS2_Phenanthrene-d10	9.040	188	114777	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.252	105	24869	4.294	ug/ml		90
29) Acetophenone	5.081	105	42910	4.257	ug/ml		96
30) m-Toluidine	5.163	106	42619	4.401	ug/ml		95
31) 2-Chloroaniline	5.522	127	40072	4.344	ug/ml	#	95
56) a-Terpineol	5.969	59	24236	4.320	ug/ml		99
57) 3-Chloroaniline	5.987	65	11248	3.701	ug/ml	#	67
58) 2,6-Dichlorophenol	6.010	162	31431	4.762	ug/ml	#	84
59) 1-chloro-2-nitrobenzene	6.263	111	13235	4.566	ug/ml	#	82
60) Caprolactam	6.299	55	14723	4.448	ug/ml		94
61) 1,2,4,5-Tetrachloroben...	6.781	216	40971	4.225	ug/ml		97
62) Biphenyl	7.069	154	90189	4.342	ug/ml		98
84) Dichloran	8.740	206	14247	4.802	ug/ml	#	61
85) Pentachloronitrobenzene	8.887	237	13999	4.618	ug/ml	#	78
99) Diphenamid	9.945	167	72305	4.893	ug/ml	#	74

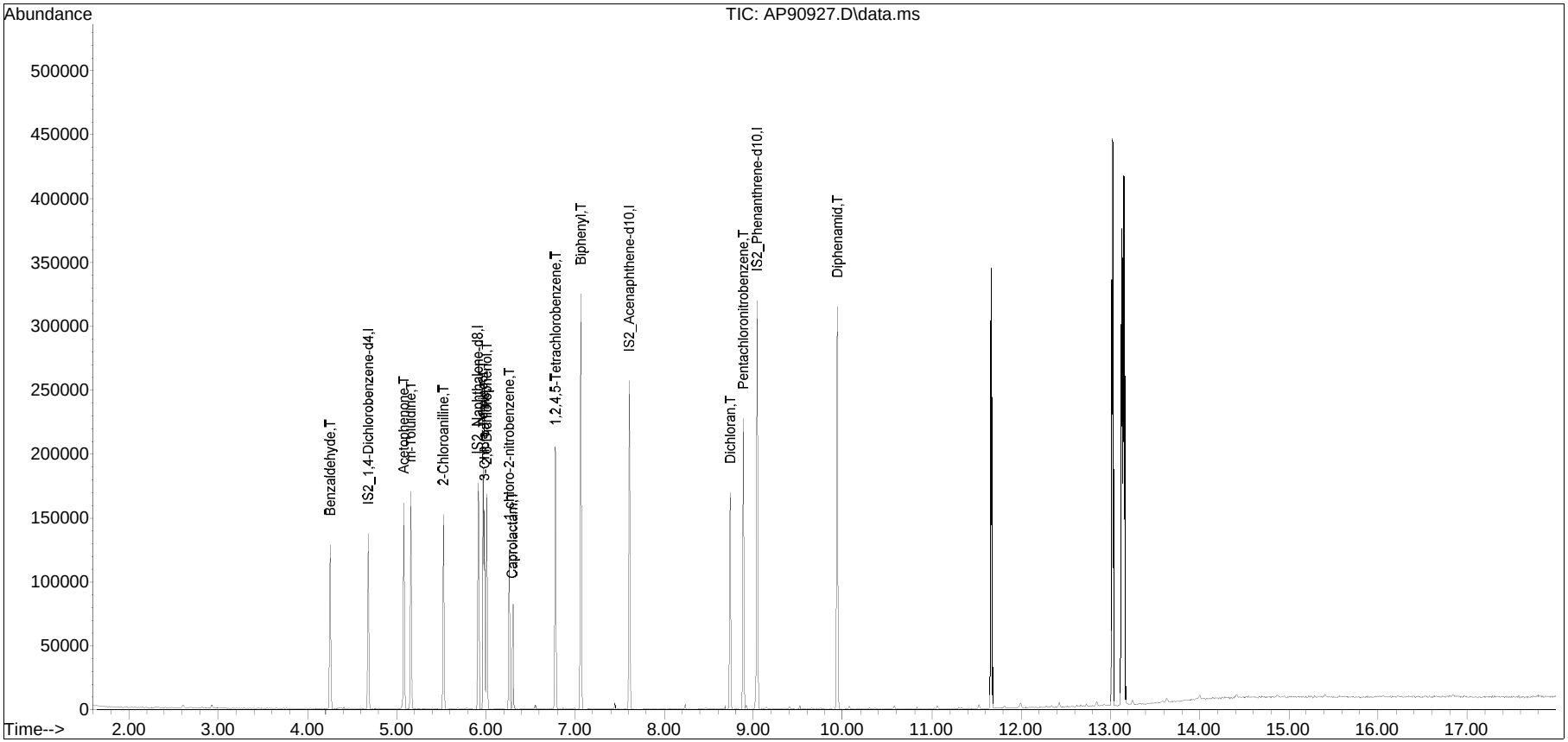
(#) = qualifier out of range (m) = manual integration (+) = signals summed

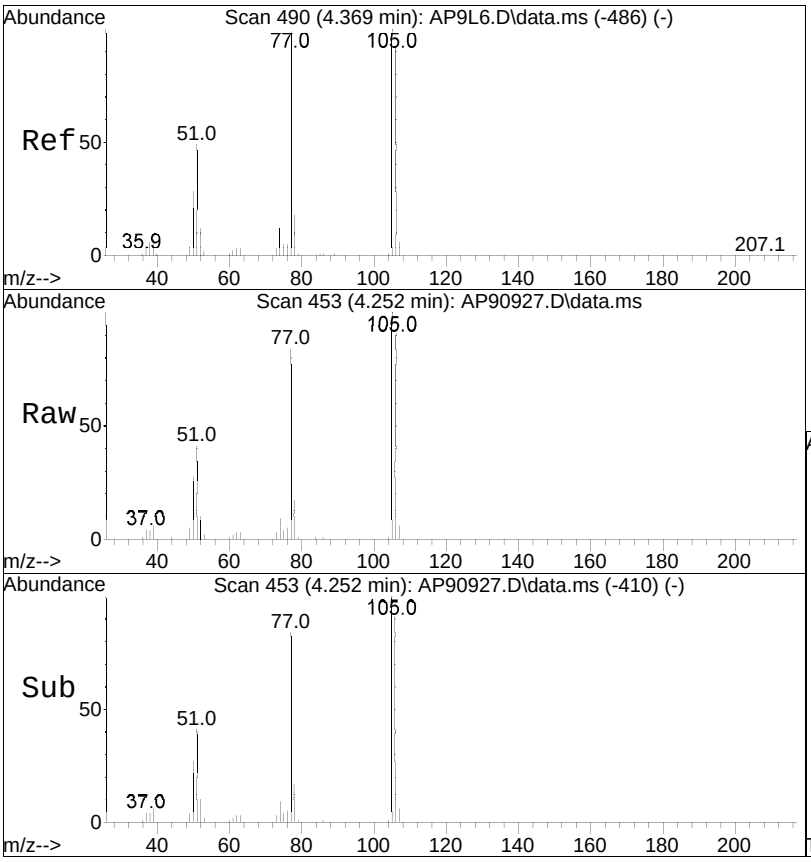
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : AP90927.D
Acq On : 27 Sep 2024 11:43 am
Operator : SV112:im
Sample : WG1977240-4,32,,AP9 10909 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 27 12:10:48 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:11:47 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

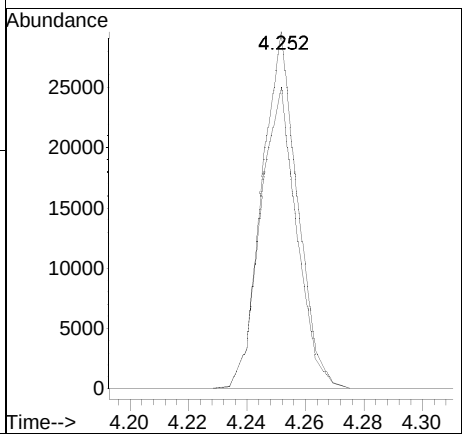


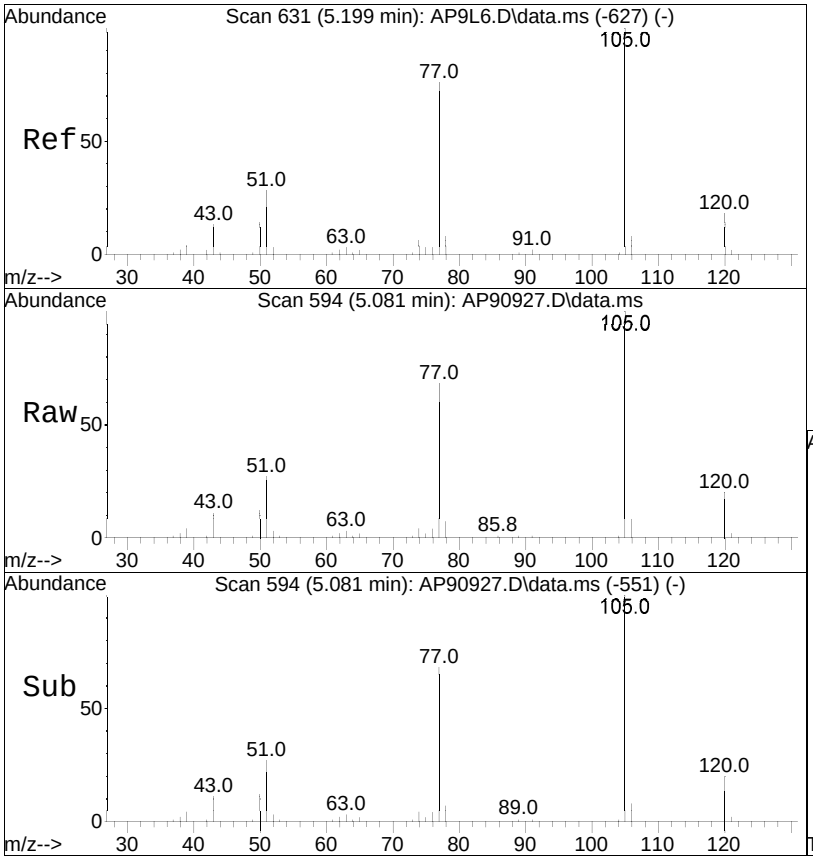


#28
Benzaldehyde
Concen: 4.29 ug/ml
RT: 4.252 min Scan# 453
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:105 Resp: 24869

Ion	Ratio	Lower	Upper
105	100		
77	86.4	77.0	115.6

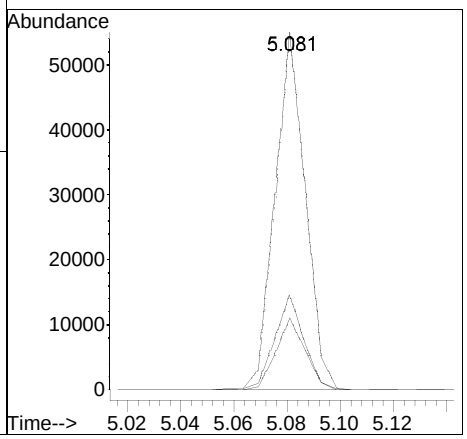


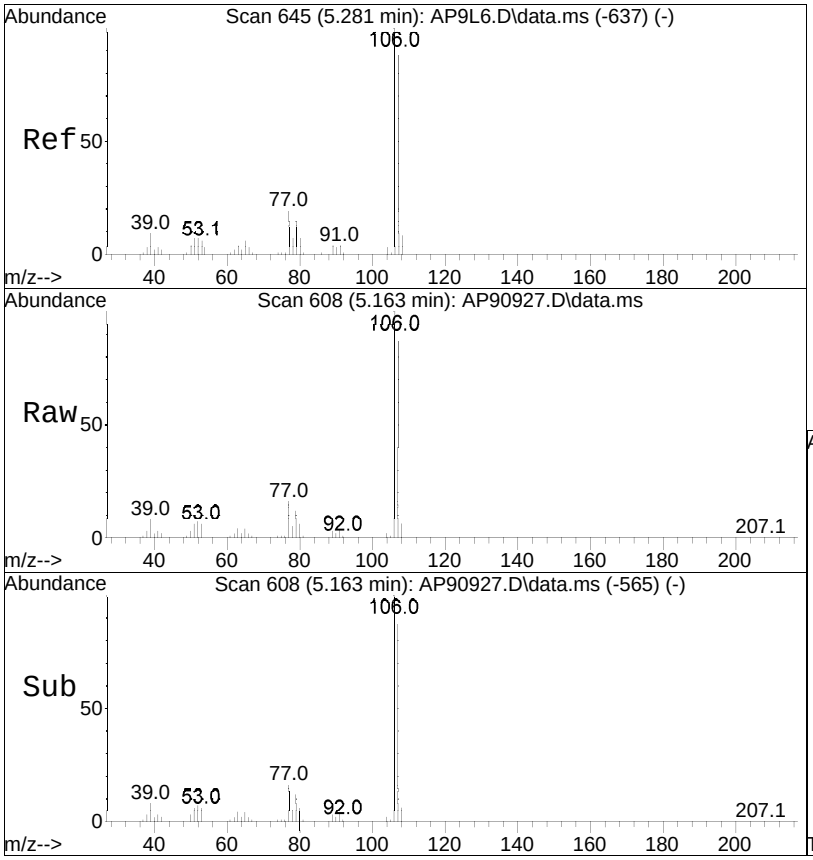


#29
Acetophenone
Concen: 4.26 ug/ml
RT: 5.081 min Scan# 594
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:105 Resp: 42910

Ion	Ratio	Lower	Upper
105	100		
120	19.6	15.2	22.8
51	26.1	23.1	34.7

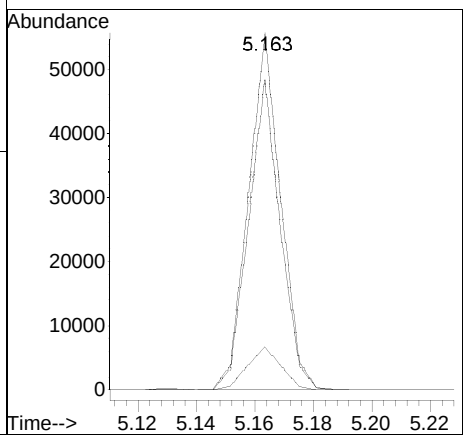


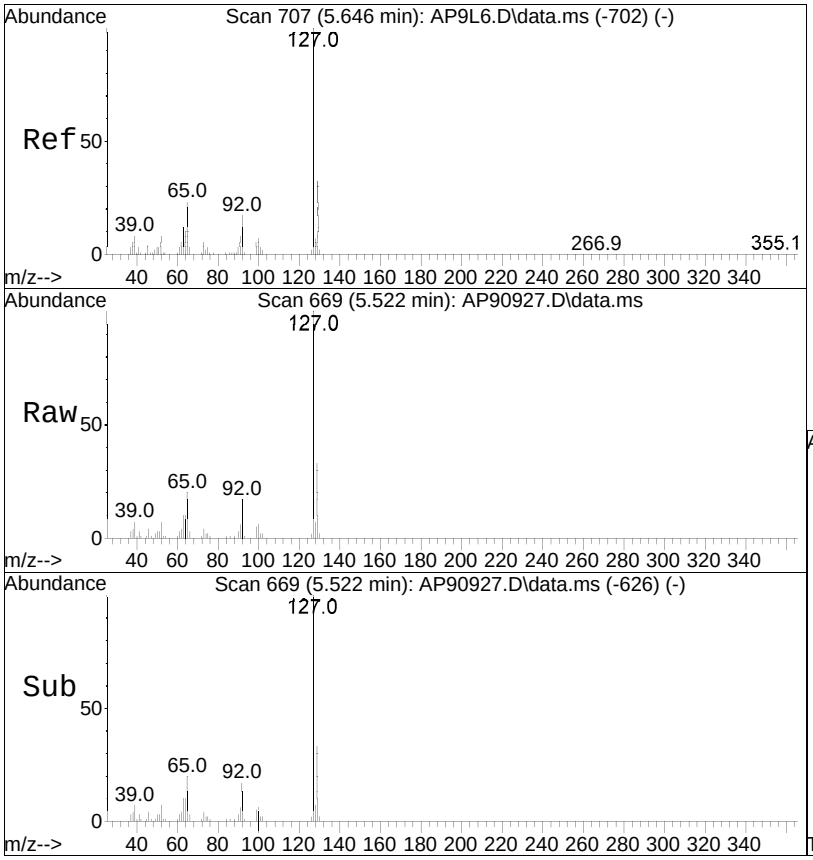


#30
m-Toluidine
Concen: 4.40 ug/ml
RT: 5.163 min Scan# 608
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:106 Resp: 42619

Ion	Ratio	Lower	Upper
106	100		
107	85.5	72.3	108.5
79	12.6	12.2	18.2

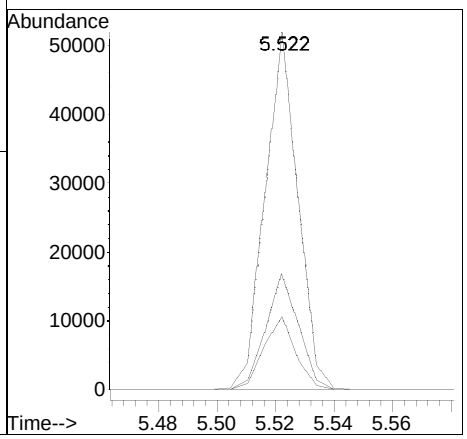


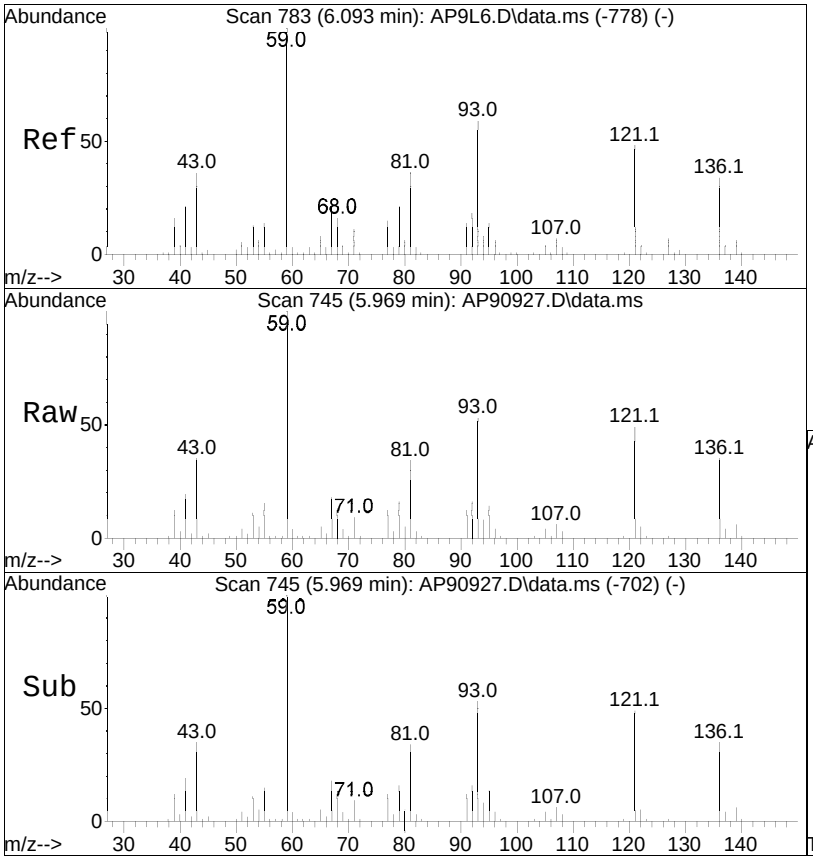


#31
2-Chloroaniline
Concen: 4.34 ug/ml
RT: 5.522 min Scan# 669
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:127 Resp: 40072

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.7	38.5
65	20.0	20.5	30.7#

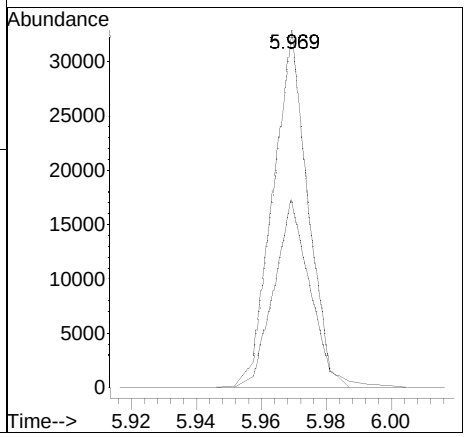


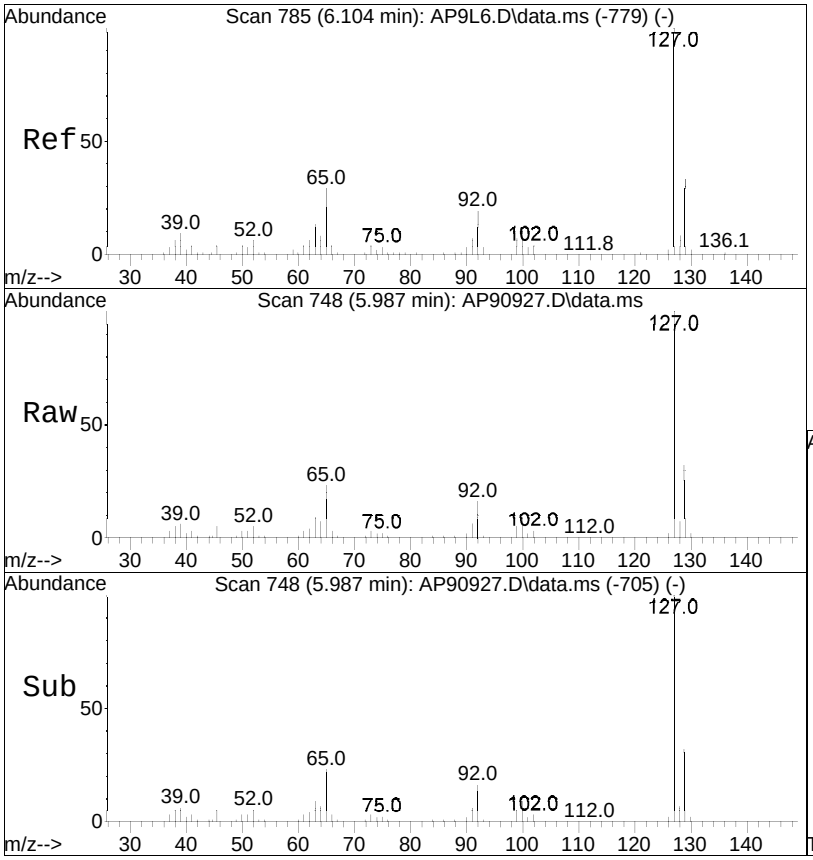


#56
a-Terpineol
Concen: 4.32 ug/ml
RT: 5.969 min Scan# 745
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion: 59 Resp: 24236

Ion	Ratio	Lower	Upper
59	100		
93	55.3	43.5	65.3

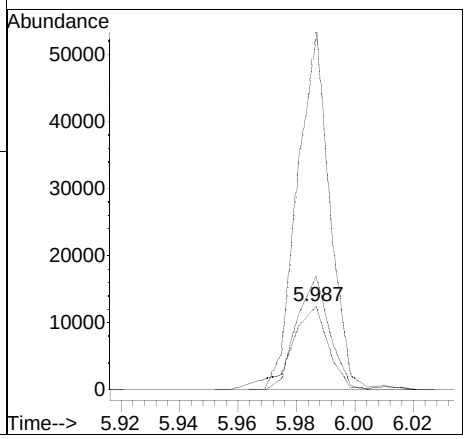


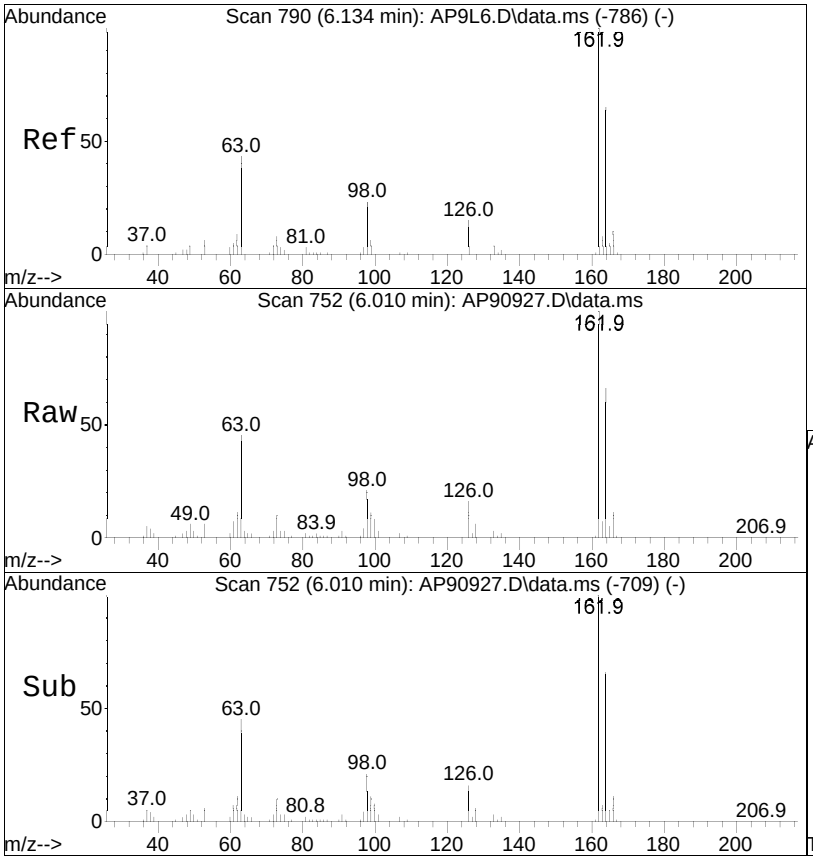


#57
3-Chloroaniline
Concen: 3.70 ug/ml
RT: 5.987 min Scan# 748
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion: 65 Resp: 11248

Ion	Ratio	Lower	Upper
65	100		
127	367.2	236.6	355.0#
129	118.6	76.6	115.0#

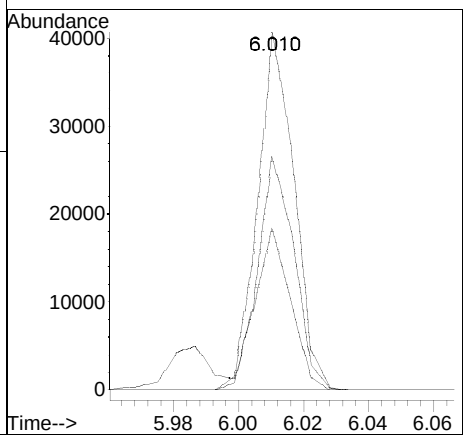


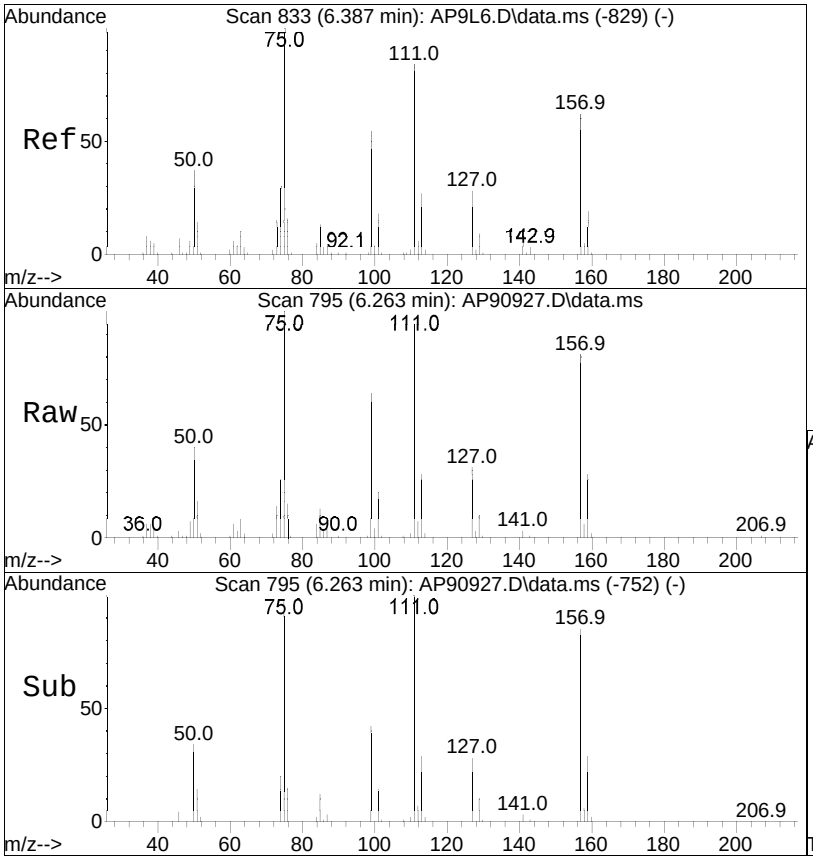


#58
2,6-Dichlorophenol
Concen: 4.76 ug/ml
RT: 6.010 min Scan# 752
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:162 Resp: 31431

Ion	Ratio	Lower	Upper
162	100		
164	64.9	50.8	76.2
63	43.3	53.6	80.4#

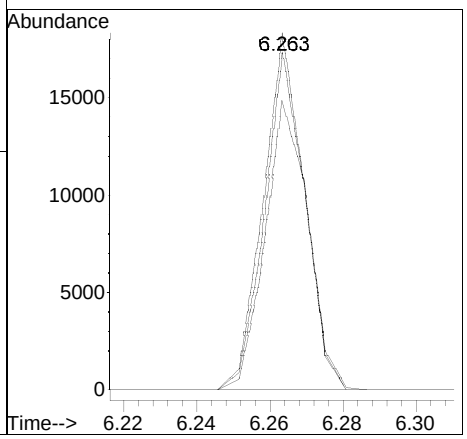


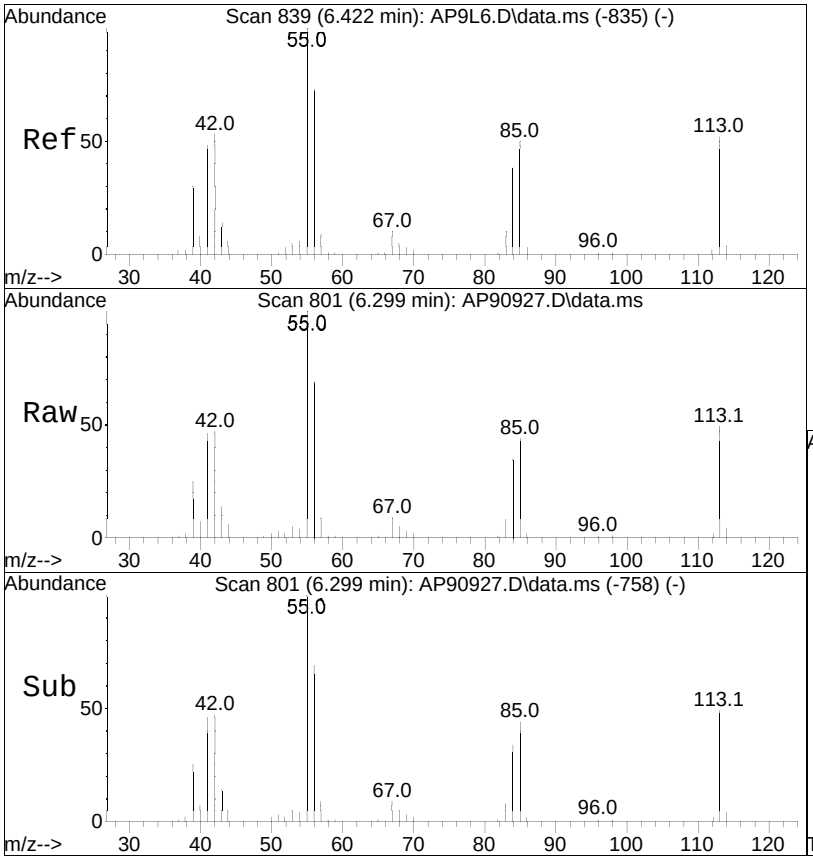


#59
1-chloro-2-nitrobenzene
Concen: 4.57 ug/ml
RT: 6.263 min Scan# 795
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:111 Resp: 13235

Ion	Ratio	Lower	Upper
111	100		
157	90.9	56.2	84.2#
75	106.6	97.8	146.6

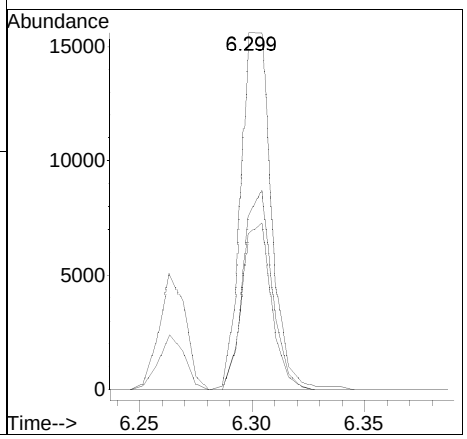


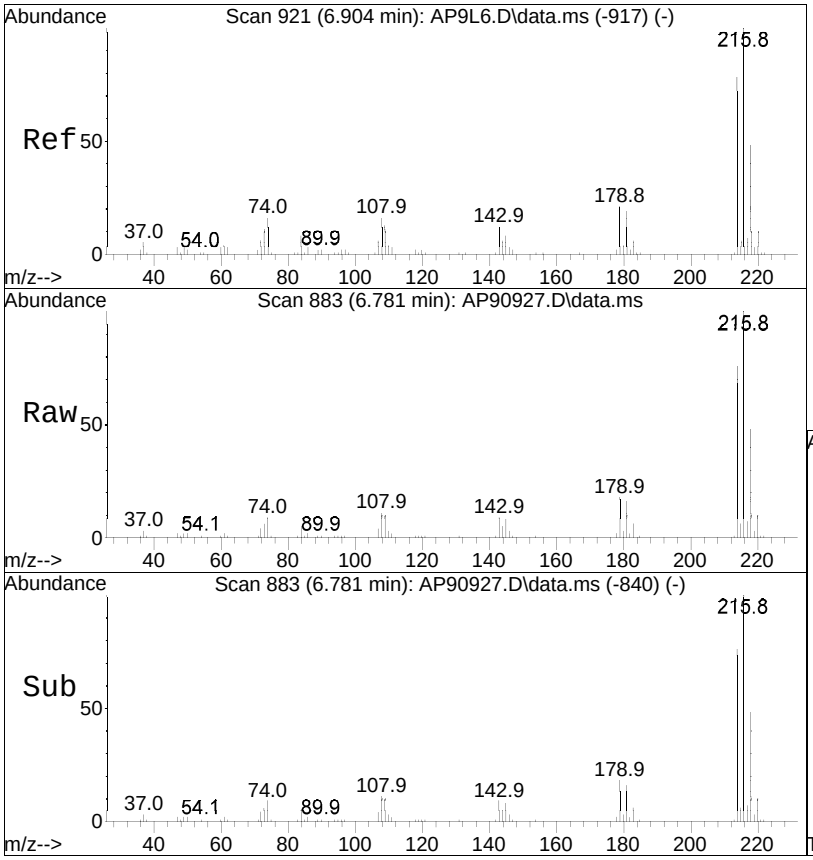


#60
Caprolactam
Concen: 4.45 ug/ml
RT: 6.299 min Scan# 801
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion: 55 Resp: 14723

Ion	Ratio	Lower	Upper
55	100		
85	45.3	35.2	52.8
113	52.5	36.6	55.0

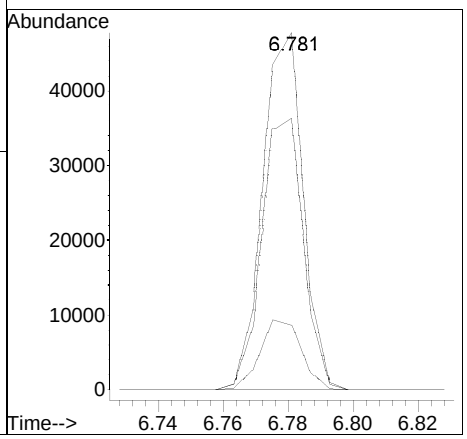


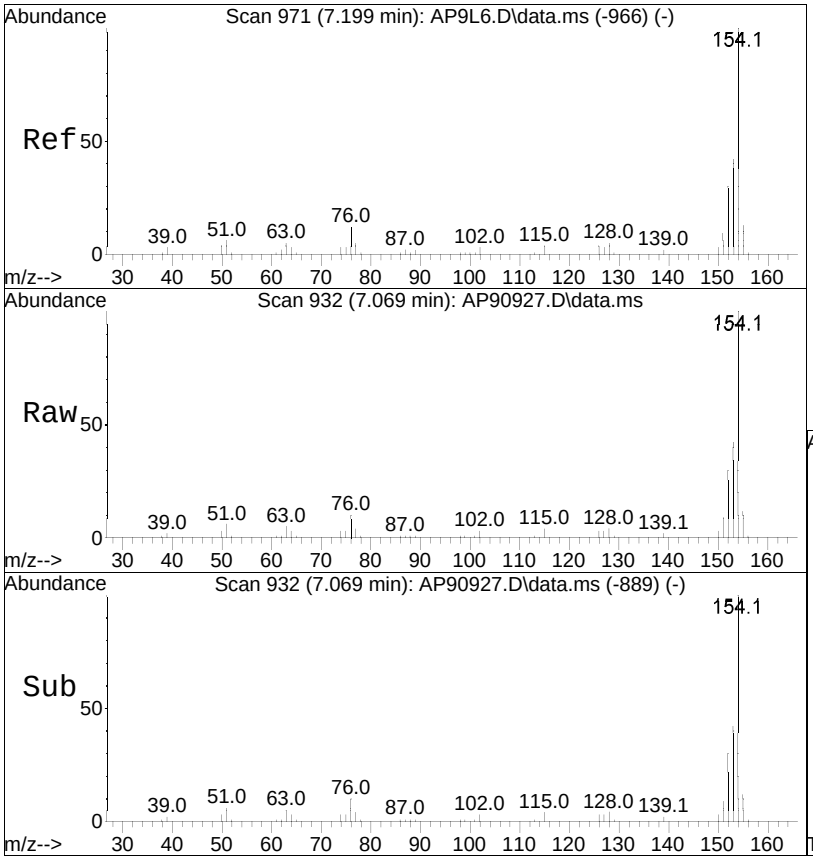


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.23 ug/ml
RT: 6.781 min Scan# 883
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:216 Resp: 40971

Ion	Ratio	Lower	Upper
216	100		
214	78.4	64.0	96.0
179	20.2	18.7	28.1

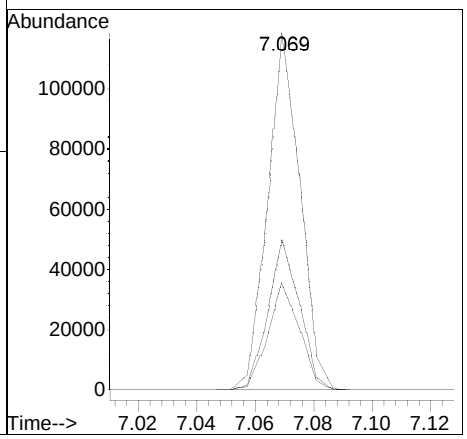


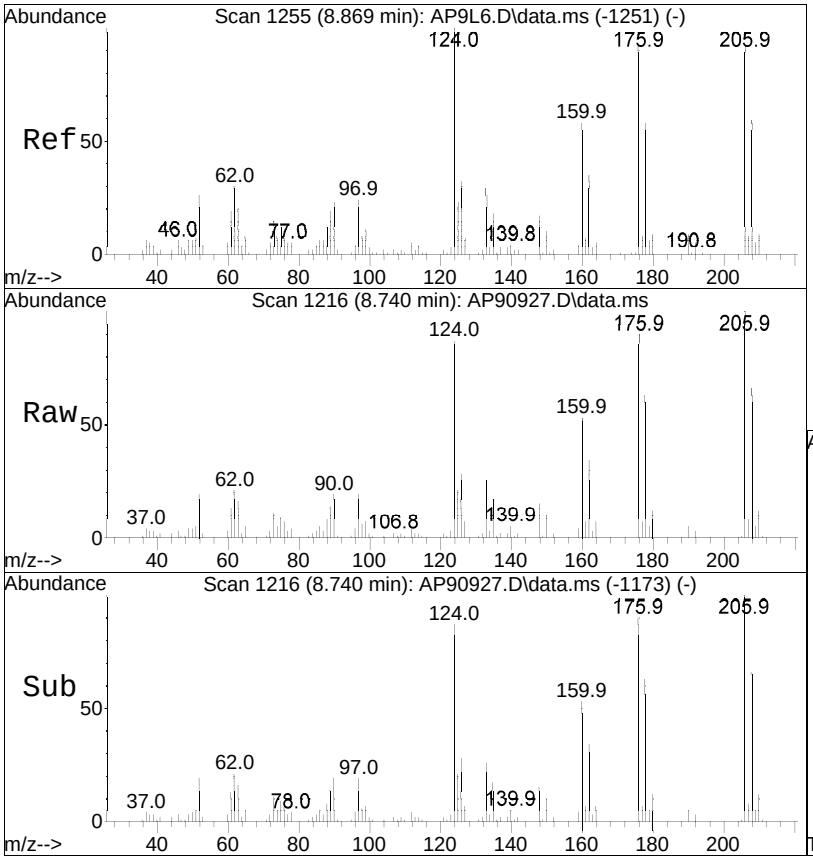


#62
Biphenyl
Concen: 4.34 ug/ml
RT: 7.069 min Scan# 932
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:154 Resp: 90189

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.5	48.7
152	29.6	22.6	34.0

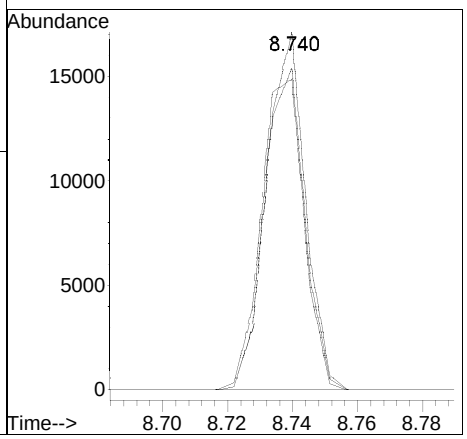


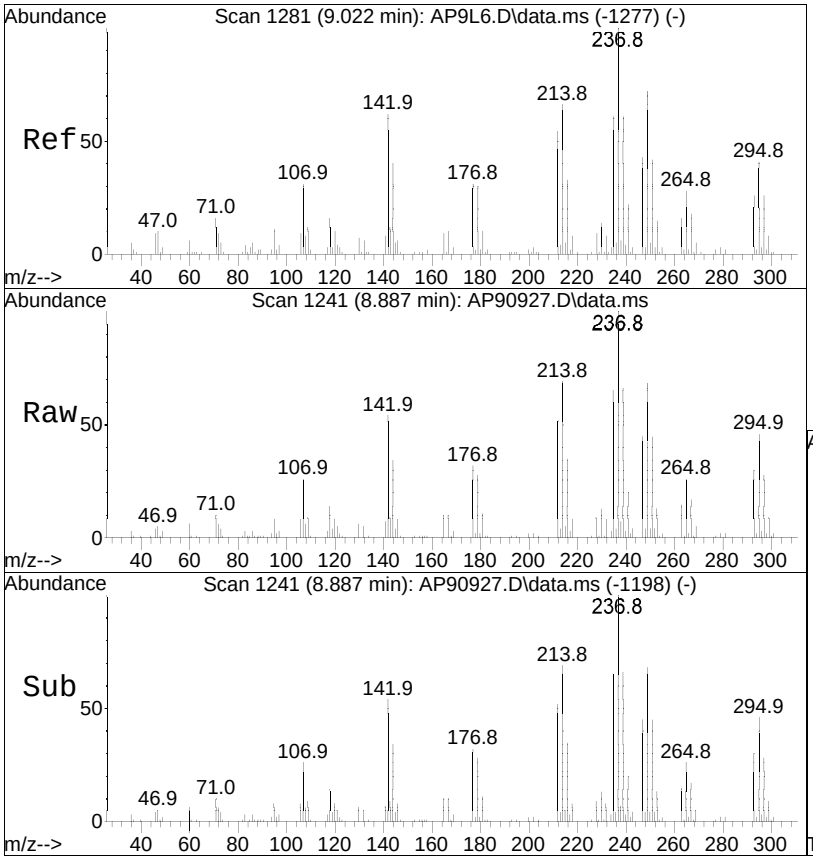


#84
Dichloran
Concen: 4.80 ug/ml
RT: 8.740 min Scan# 1216
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:206 Resp: 14247

Ion	Ratio	Lower	Upper
206	100		
176	92.5	98.8	148.2#
124	95.2	125.8	188.6#

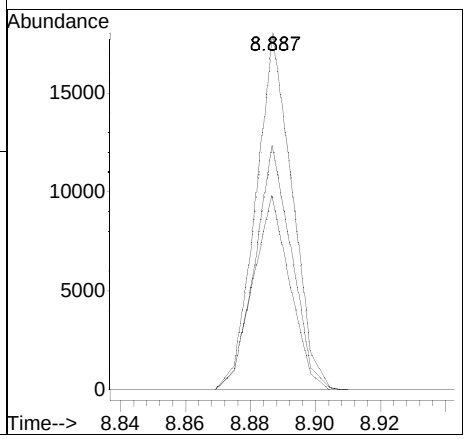


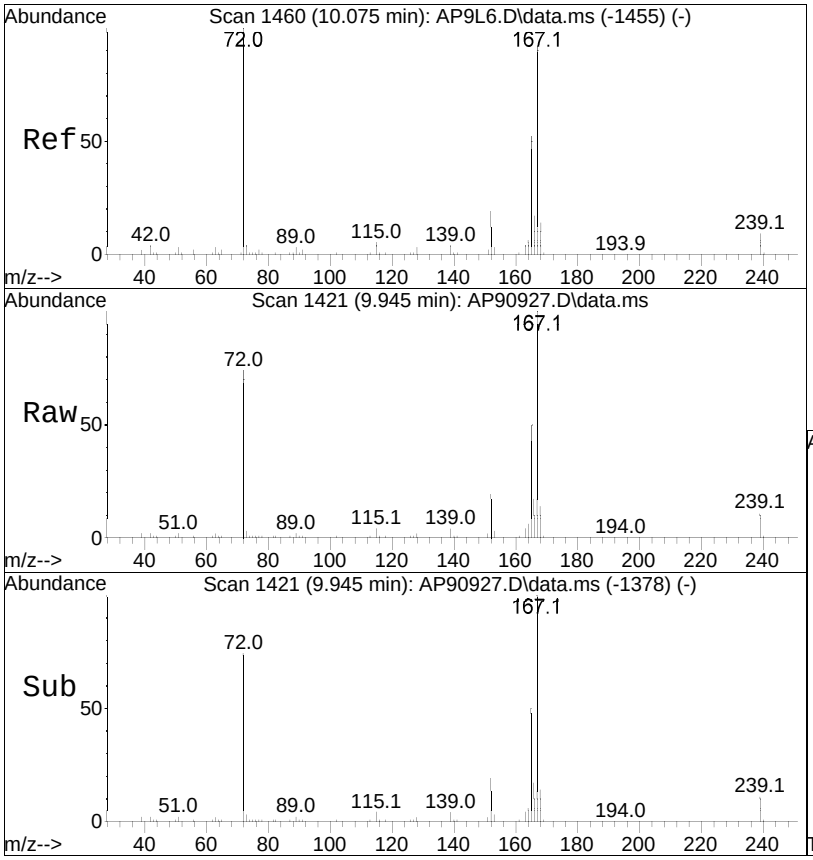


#85
Pentachloronitrobenzene
Concen: 4.62 ug/ml
RT: 8.887 min Scan# 1241
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:237 Resp: 13999

Ion	Ratio	Lower	Upper
237	100		
142	55.8	70.3	105.5#
214	68.9	59.4	89.2

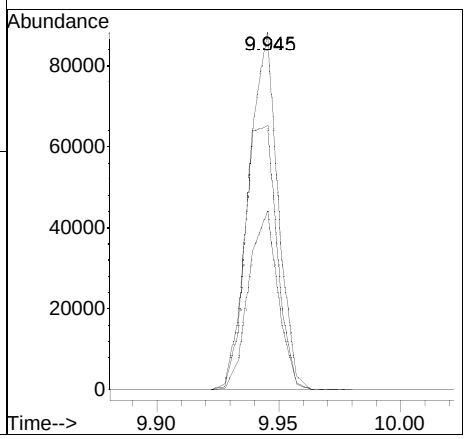




#99
Diphenamid
Concen: 4.89 ug/ml
RT: 9.945 min Scan# 1421
Delta R.T. 0.000 min
Lab File: AP90927.D
Acq: 27 Sep 2024 11:43 am

Tgt Ion:167 Resp: 72305

Ion	Ratio	Lower	Upper
167	100		
72	82.8	98.9	148.3#
165	51.0	40.4	60.6



Manual Integration Report

Data Path	: I:\8270\SV112\240927RVT\	QMethod	: FS240625SV112RVT.m
Data File	: AP90927.D	Operator	: SV112:im
Date Inj'd	: 9/27/2024 11:43 am	Instrument	: SV112
Sample	: WG1977240-4,32,,AP9 10909	Quant Date	: 9/27/2024 12:11 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240927RVT\
Data File : ADP0927.D
Acq On : 27 Sep 2024 12:06 pm
Operator : SV112:im
Sample : WG1977240-5,32,,ADP 10751 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 27 12:27:43 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:42 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	100	0.00
33	T	1,4-Dioxane		0.470	0.443	5.7	106	0.00
34	T	n-Decane		1.145	1.172	-2.4	110	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	110	0.00
87	T	Atrazine		0.441	0.504	-14.3	140	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	107	0.00
101	T	n-Octadecane		0.315	0.359	-14.0	137	0.00
102	T	Parathion	*	5.000	6.615	-32.3#	174	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	5.833	-16.7	147	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : ADP0927.D
Acq On : 27 Sep 2024 12:06 pm
Operator : SV112:im
Sample : WG1977240-5,32,,ADP 10751 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 27 12:27:43 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:42 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.681	152	20154	4.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	7.610	164	49766	4.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	9.040	188	115148	4.000	ug/ml	# 0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.793	88	11160	4.708	ug/ml#	84
34) n-Decane	4.569	57	29518	5.114	ug/ml	95
87) Atrazine	8.810	200	31336	5.707	ug/ml	98
101) n-Octadecane	9.016	57	51715	5.709	ug/ml	97
102) Parathion	9.822	109	17325	6.615	ug/ml#	86
103) 3,3'-Dimethylbenzidine	11.098	212	133919	5.833	ug/ml	99

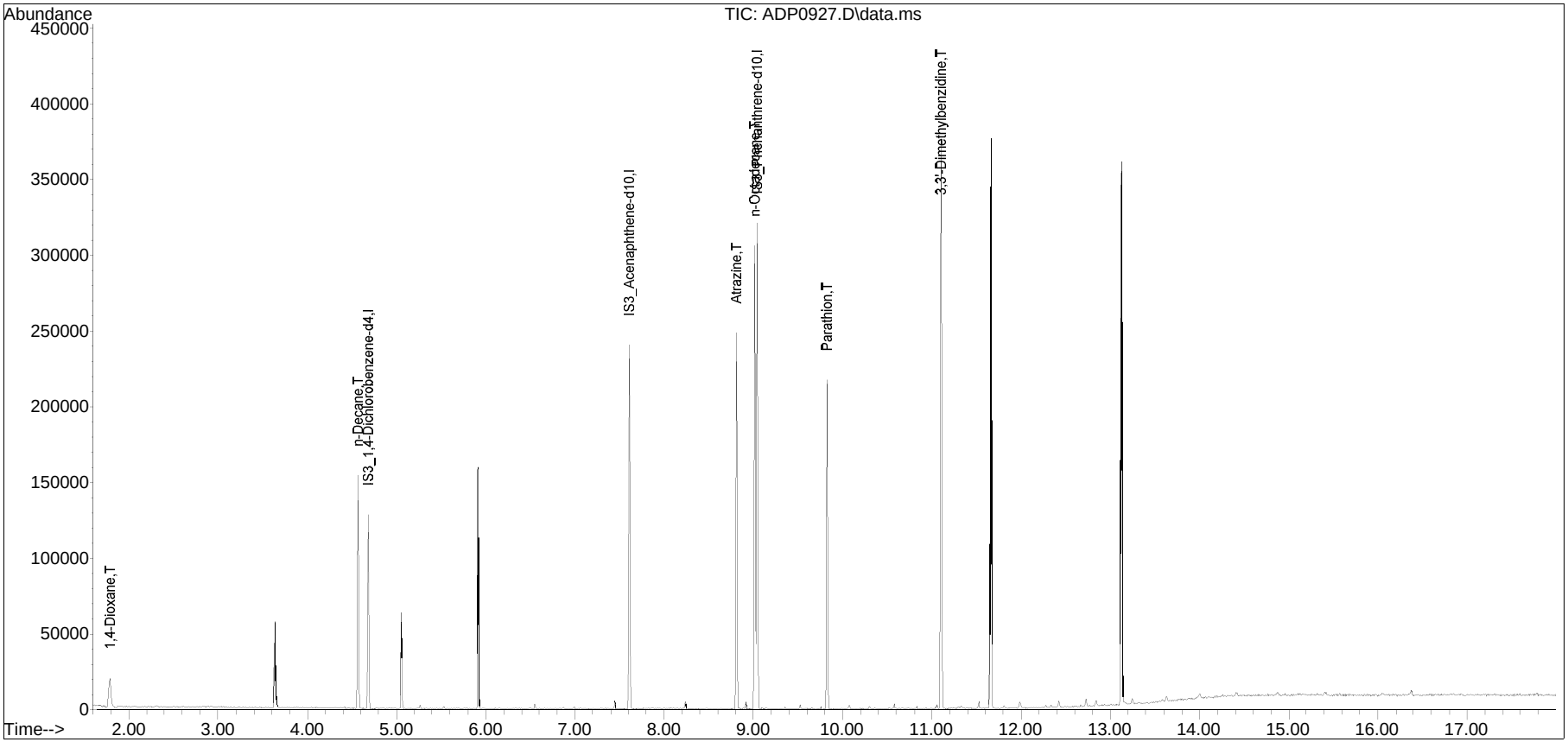
(#) = qualifier out of range (m) = manual integration (+) = signals summed

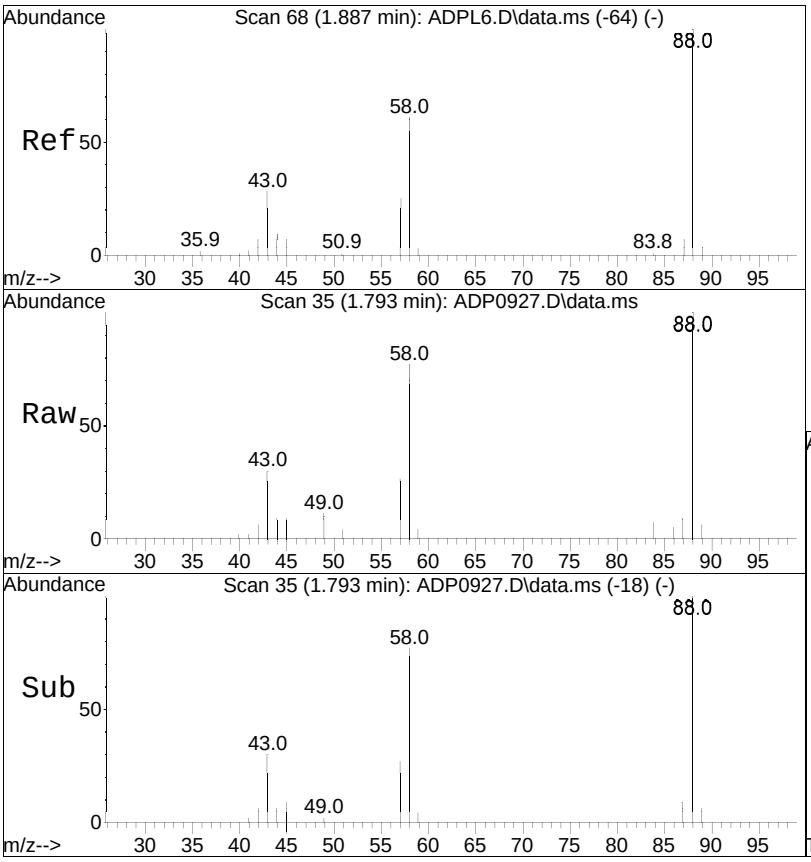
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : ADP0927.D
Acq On : 27 Sep 2024 12:06 pm
Operator : SV112:im
Sample : WG1977240-5,32,,ADP 10751 HNY0924A
Misc : WG1977240,,ical21241
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 27 12:27:43 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:42 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

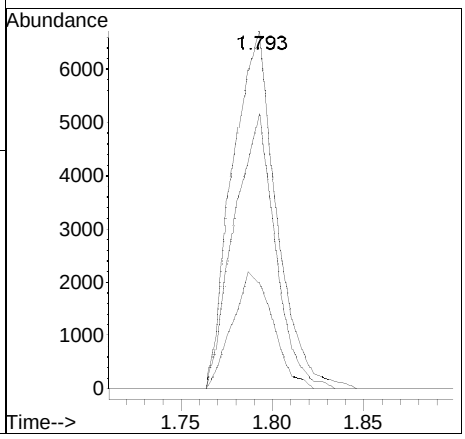


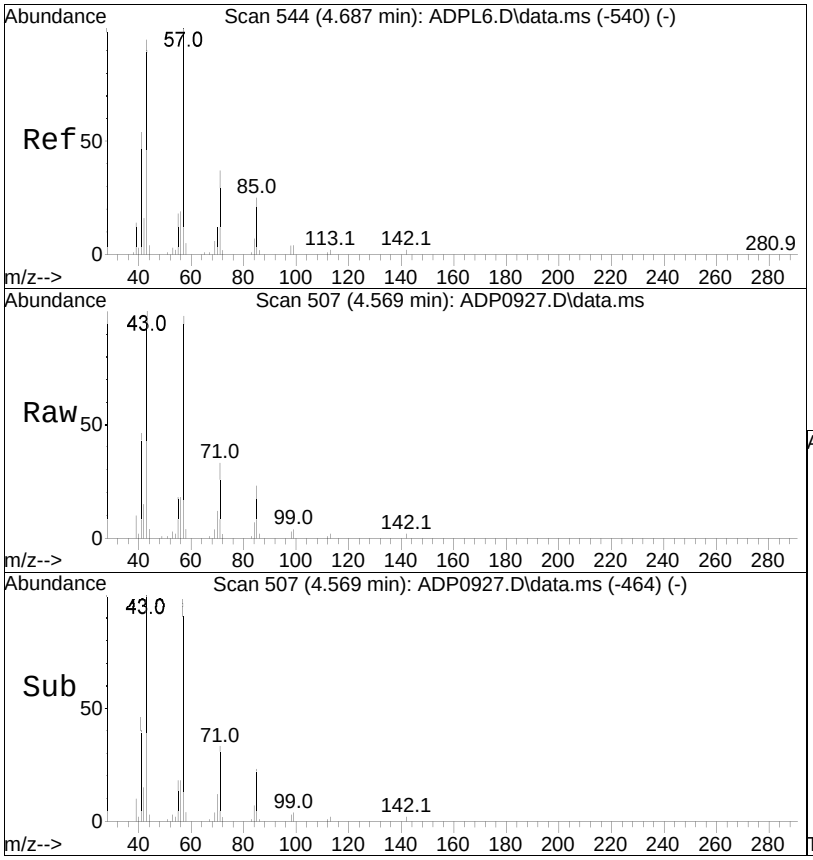


#33
1,4-Dioxane
Concen: 4.71 ug/ml
RT: 1.793 min Scan# 35
Delta R.T. 0.000 min
Lab File: ADP0927.D
Acq: 27 Sep 2024 12:06 pm

Tgt Ion: 88 Resp: 11160

Ion	Ratio	Lower	Upper
88	100		
58	72.1	44.8	67.2#
43	30.3	22.4	33.6

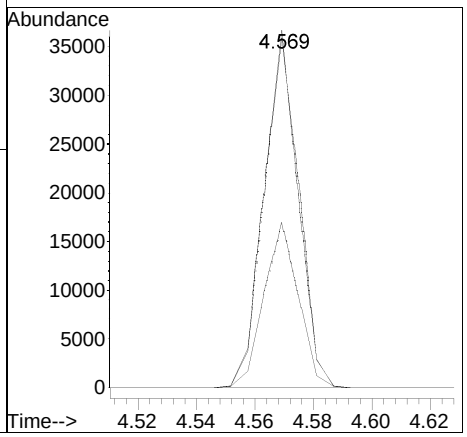


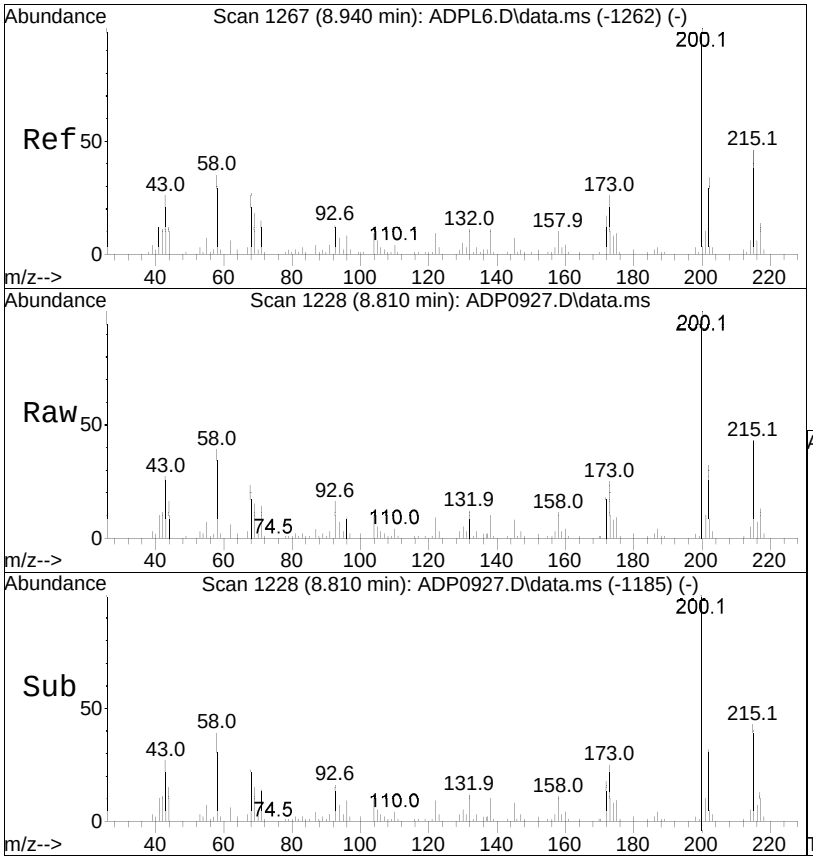


#34
n-Decane
Concen: 5.11 ug/ml
RT: 4.569 min Scan# 507
Delta R.T. 0.000 min
Lab File: ADP0927.D
Acq: 27 Sep 2024 12:06 pm

Tgt Ion: 57 Resp: 29518

Ion	Ratio	Lower	Upper
57	100		
43	99.2	75.4	113.2
41	46.9	35.0	52.6

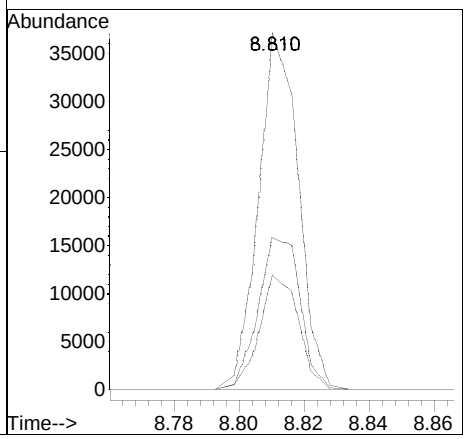


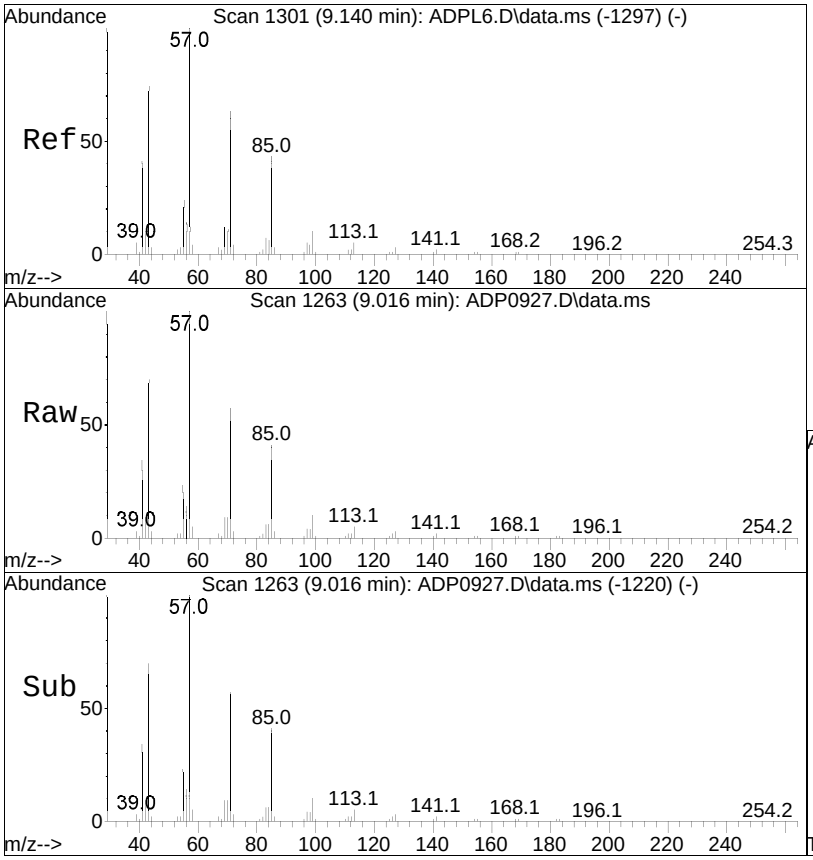


#87
Atrazine
Concen: 5.71 ug/ml
RT: 8.810 min Scan# 1228
Delta R.T. 0.000 min
Lab File: ADP0927.D
Acq: 27 Sep 2024 12:06 pm

Tgt Ion:200 Resp: 31336

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.0	37.6
215	45.2	34.5	51.7

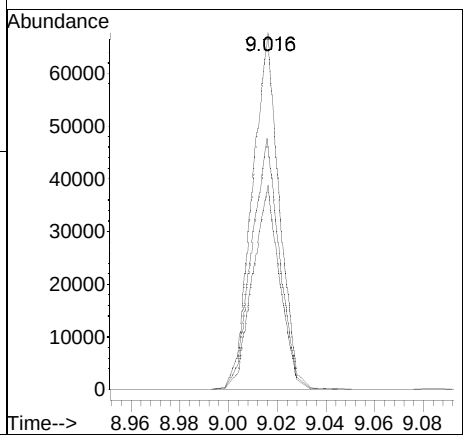


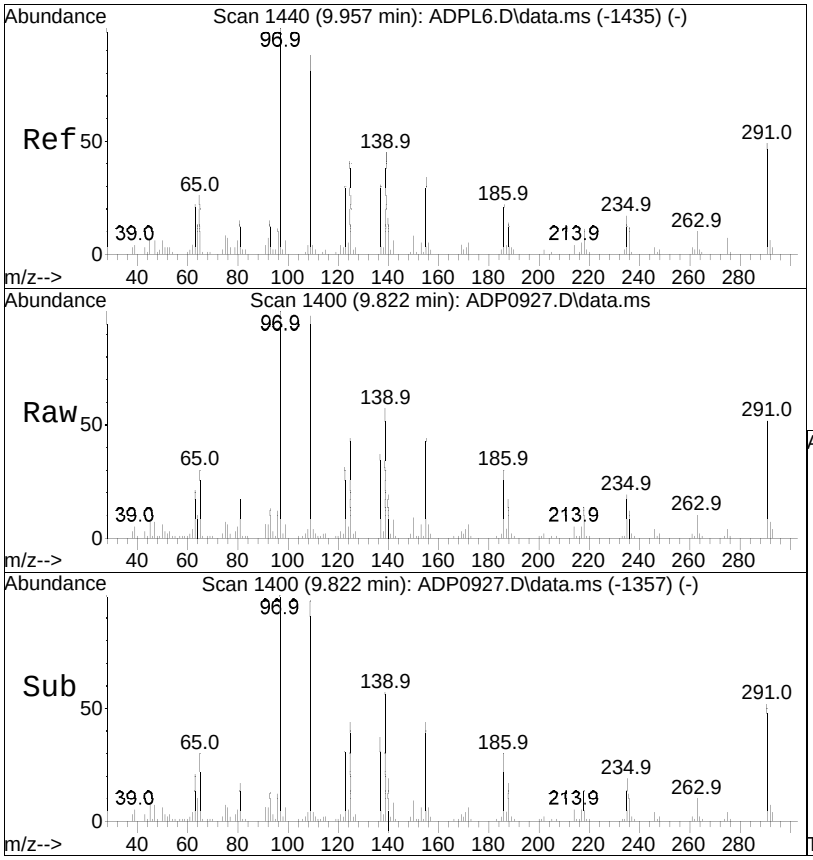


#101
n-Octadecane
Concen: 5.71 ug/ml
RT: 9.016 min Scan# 1263
Delta R.T. 0.000 min
Lab File: ADP0927.D
Acq: 27 Sep 2024 12:06 pm

Tgt Ion: 57 Resp: 51715

Ion	Ratio	Lower	Upper
57	100		
43	71.7	54.3	81.5
71	57.2	45.1	67.7

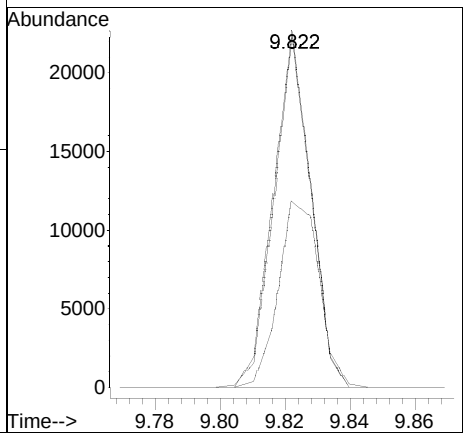


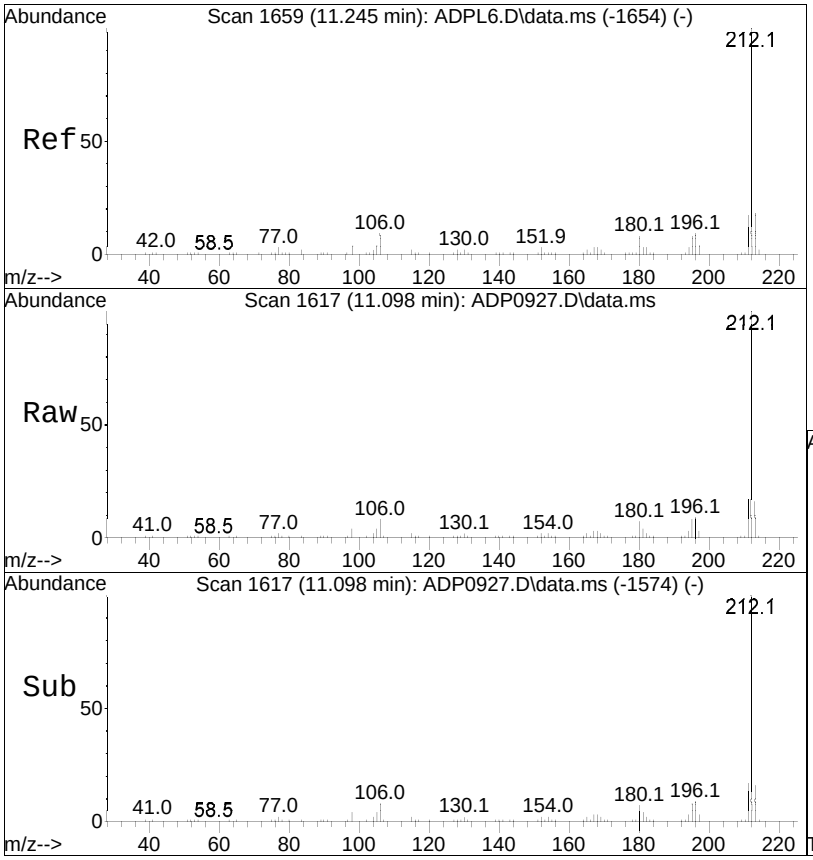


#102
Parathion
Concen: 6.61 ug/ml
RT: 9.822 min Scan# 1400
Delta R.T. 0.000 min
Lab File: ADP0927.D
Acq: 27 Sep 2024 12:06 pm

Tgt Ion:109 Resp: 17325

Ion	Ratio	Lower	Upper
109	100		
97	103.9	85.4	128.2
291	59.6	25.4	38.2#

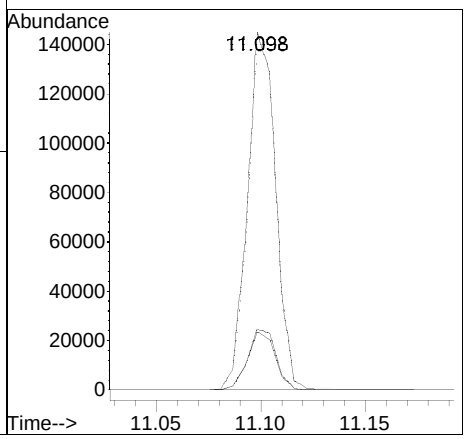




#103
3,3'-Dimethylbenzidine
Concen: 5.83 ug/ml
RT: 11.098 min Scan# 1617
Delta R.T. 0.000 min
Lab File: ADP0927.D
Acq: 27 Sep 2024 12:06 pm

Tgt Ion:212 Resp: 133919

Ion	Ratio	Lower	Upper
212	100		
211	17.1	13.3	19.9
213	16.1	13.4	20.2



Manual Integration Report

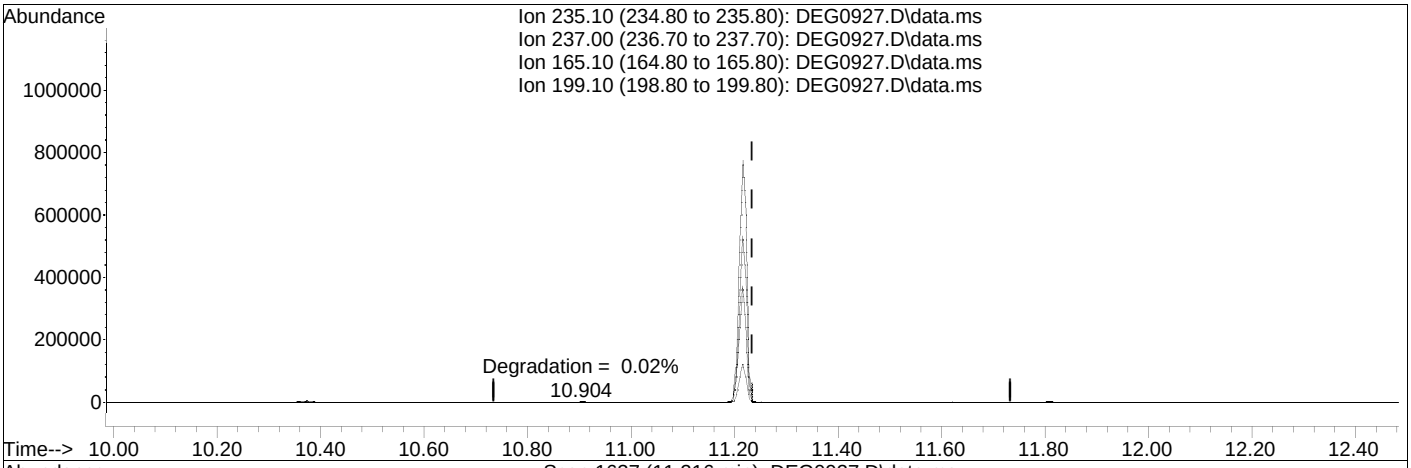
Data Path	: I:\8270\SV112\240927RVT\	QMethod	: FS240625SV112RVT.m
Data File	: ADP0927.D	Operator	: SV112:im
Date Inj'd	: 9/27/2024 12:06 pm	Instrument	: SV112
Sample	: WG1977240-5,32,,ADP 10751	Quant Date	: 9/27/2024 12:28 pm

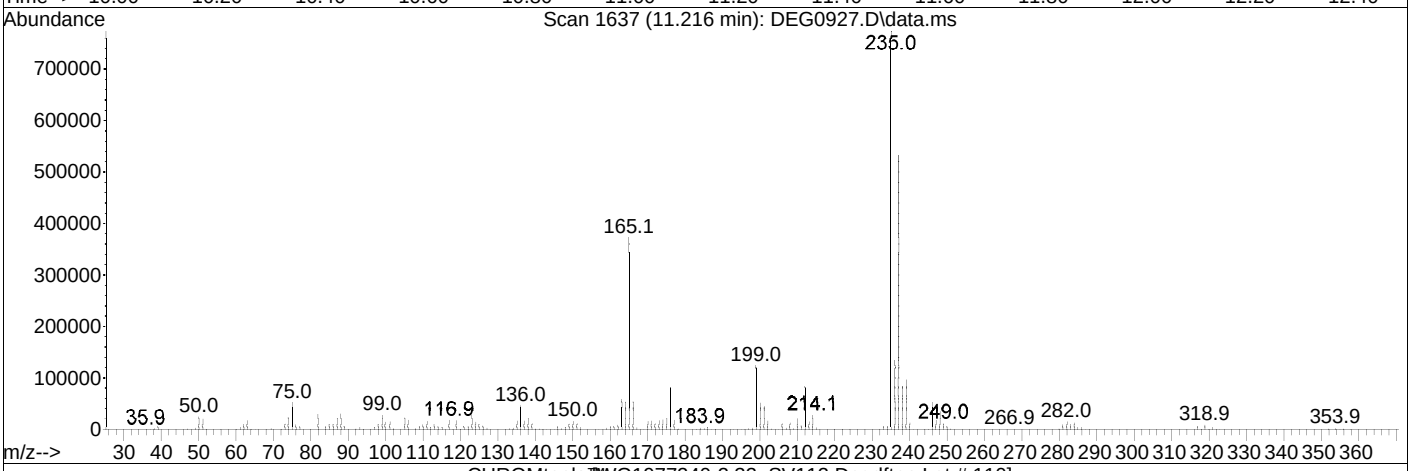
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240927RVT\
Data File : DEG0927.D
Acq On : 27 Sep 2024 10:58 am
Operator : SV112:im
Sample : WG1977240-2,32,,SV112 Degdftpp Lot # 110
Misc : WG1977240,,ical21241
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 11:20:27 2024
Quant Method : I:\8270\SV112\240927RVT\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 26 22:00:01 2024
Response via : Initial Calibration





CHROMtools [WG1977240-2,32,,SV112 Degdftpp Lot # 110]

(6) DDT (T)

11.216min (-0.018) 118.73

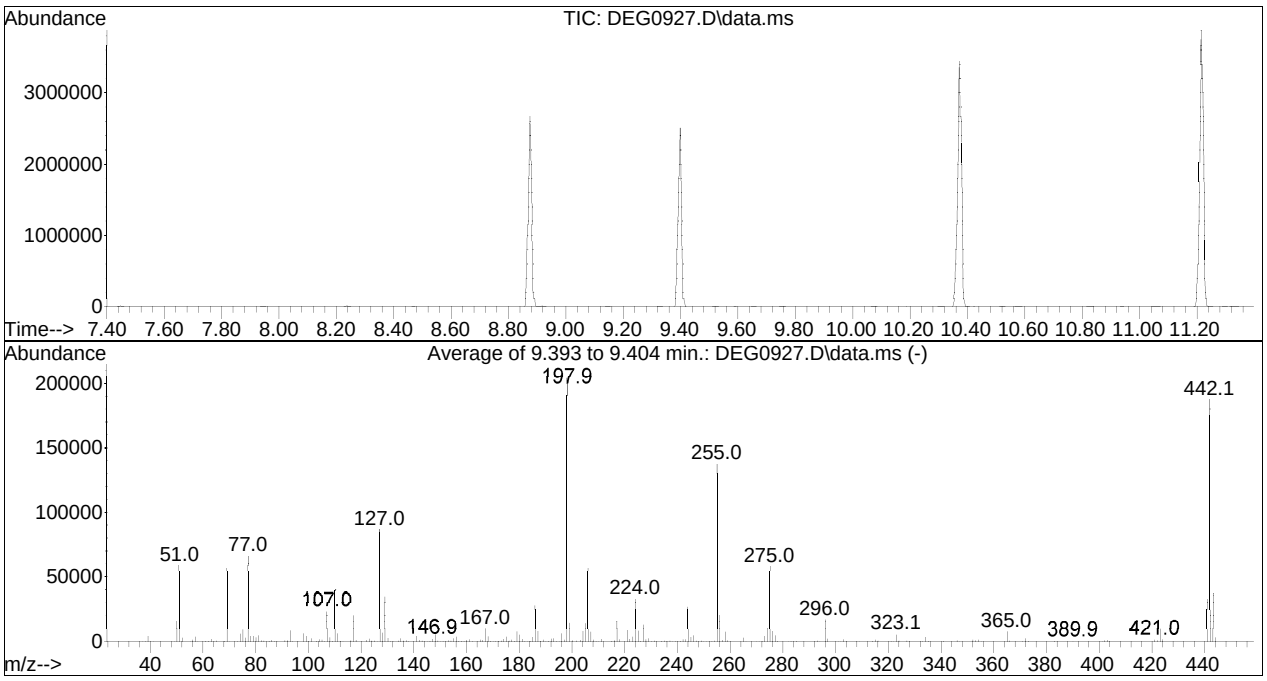
response 723753

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	67.45
165.10	42.20	45.54
199.10	13.70	15.08

Data Path : I:\8270\SV112\240927RVT\
Data File : DEG0927.D
Acq On : 27 Sep 2024 10:58 am
Operator : SV112:gmr
Sample : WG1977240-1,32,,SV112 Degdftpp Lot # 11038
Misc : WG1977240,,ical21241
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Sep 27 12:11:46 2024



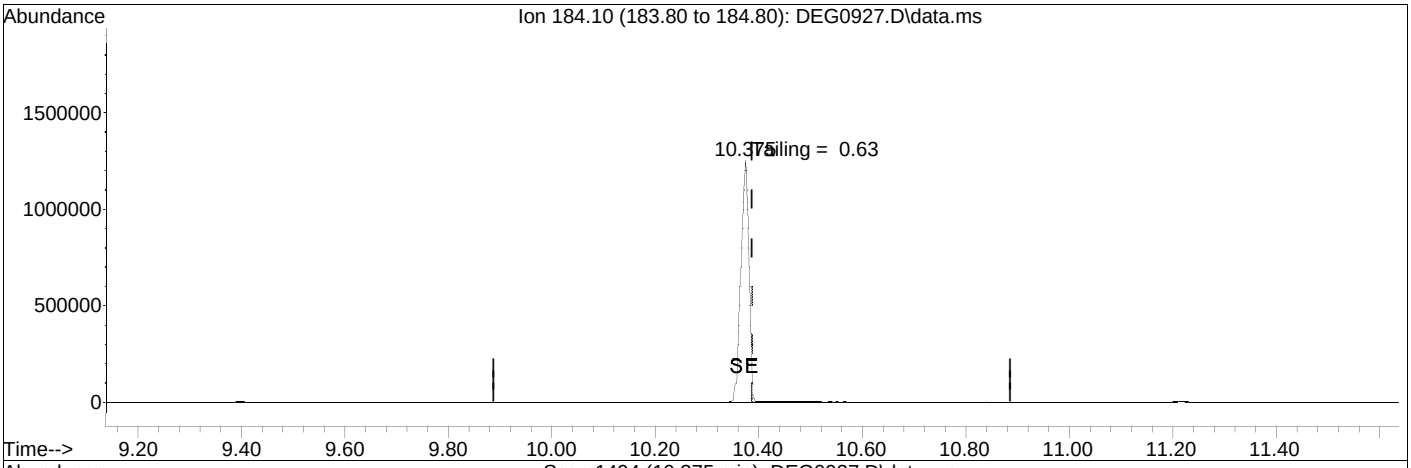
Spectrum Information: Average of 9.393 to 9.404 min.

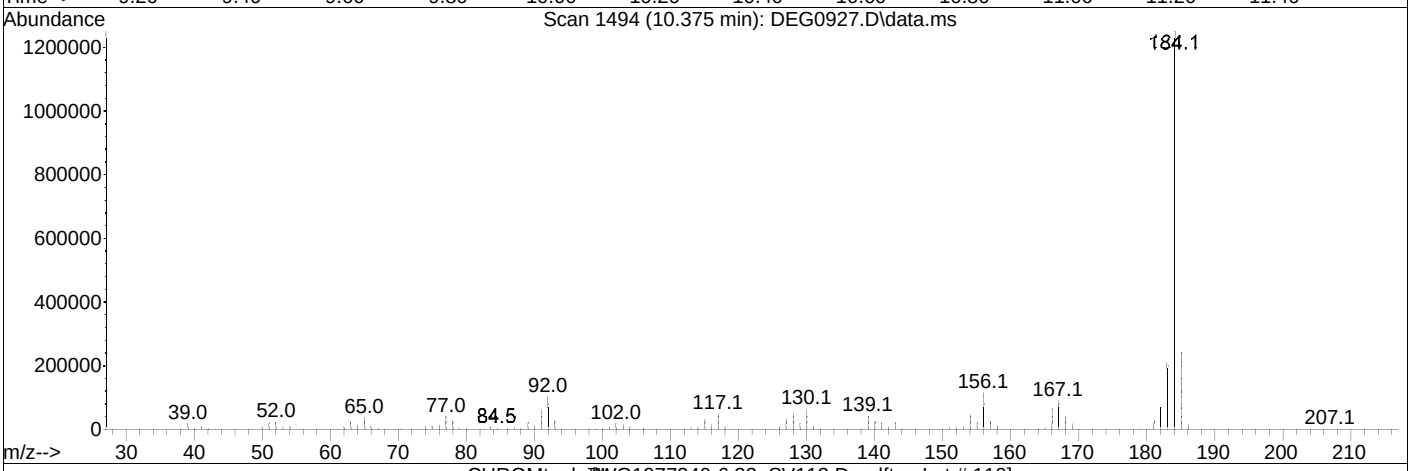
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	28.7	58701	PASS
68	69	0.00	2	1.4	818	PASS
69	69	100	100	100.0	56709	PASS
70	69	0.00	2	0.5	286	PASS
127	198	10	80	42.5	86755	PASS
197	198	0.00	2	0.8	1678	PASS
198	198	100	100	100.0	204333	PASS
199	198	5	9	6.8	13993	PASS
275	198	10	60	28.4	57963	PASS
365	198	1	100	3.7	7529	PASS
441	442	0.01	24	17.5	32771	PASS
442	198	50	100	91.6	187141	PASS
443	442	15	24	20.1	37645	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240927RVT\
Data File : DEG0927.D
Acq On : 27 Sep 2024 10:58 am
Operator : SV112:im
Sample : WG1977240-6,32,,SV112 Degdftpp Lot # 110
Misc : WG1977240,,ical21241
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 11:20:27 2024
Quant Method : I:\8270\SV112\240927RVT\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 26 22:00:01 2024
Response via : Initial Calibration





CHROMtools TM [WG1977240-6,32,,SV112 Degdftpp Lot # 110]

(3) Benzidine (T)

10.375min (-0.012) 126.04

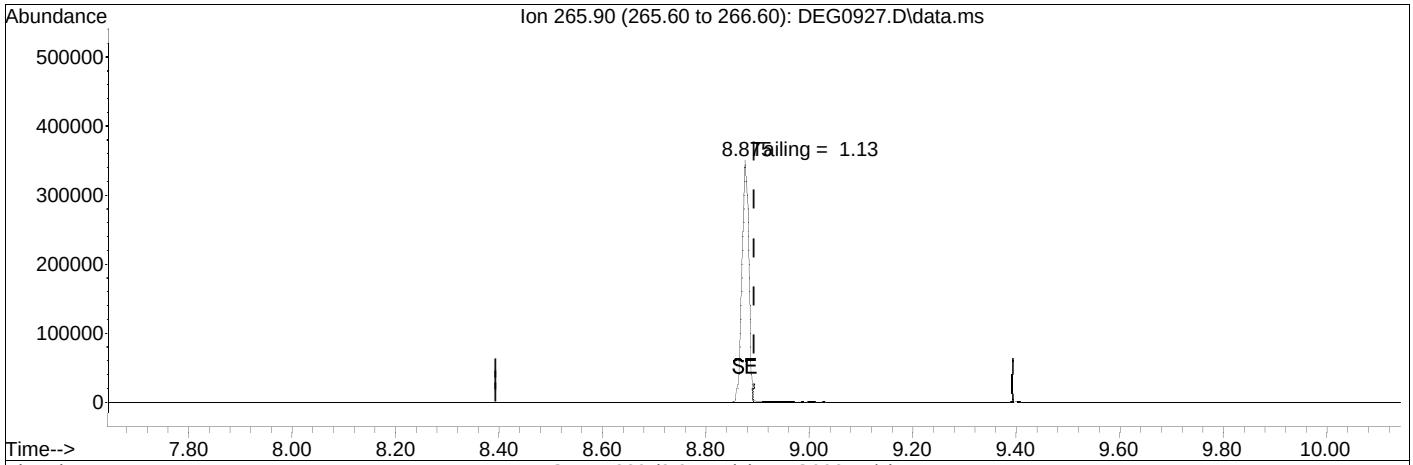
response 1283120

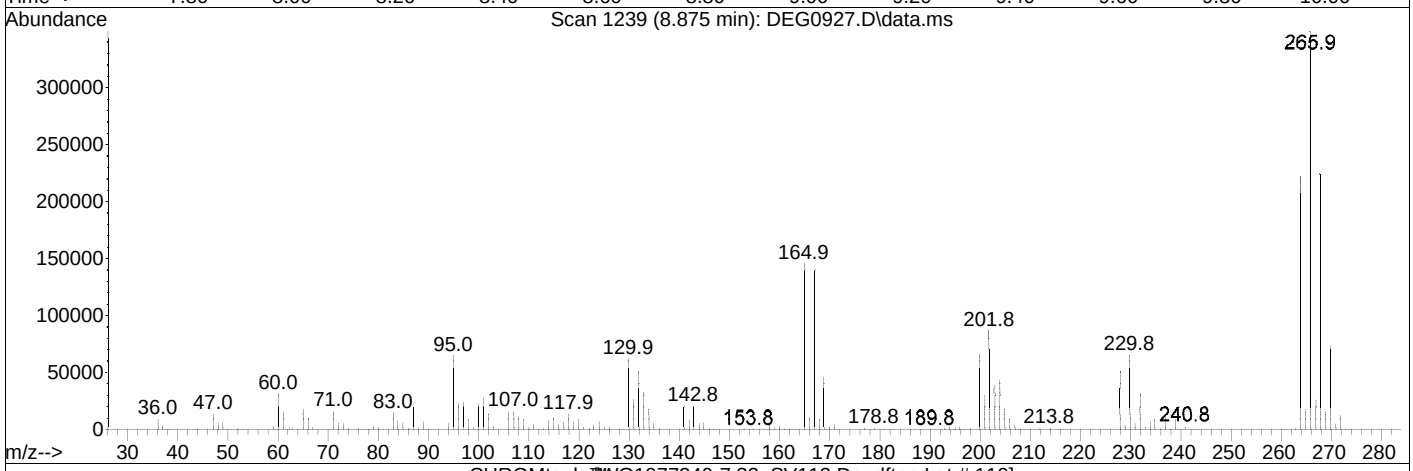
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240927RVT\
Data File : DEG0927.D
Acq On : 27 Sep 2024 10:58 am
Operator : SV112:im
Sample : WG1977240-7,32,,SV112 Degdftpp Lot # 110
Misc : WG1977240,,ical21241
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 11:20:27 2024
Quant Method : I:\8270\SV112\240927RVT\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 26 22:00:01 2024
Response via : Initial Calibration





CHROMtools [WG1977240-7,32,,SV112 Degdftpp Lot # 110]

(1) Pentachlorophenol (T)

8.875min (-0.018) 143.56

response 301538

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 11:20		
Lab File ID	: ABN0927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
n-Nitrosodimethylamine	0.657	0.605	-	7.9	20	94	0
Pyridine	1.043	0.993	-	4.8	20	93	0
2-Fluorophenol	1.05	1.034	-	1.5	20	108	0
Aniline	1.811	1.593	-	12	20	101	0
2-Chlorophenol	1.251	1.219	-	2.6	20	111	0
Phenol-d6	1.357	1.244	-	8.3	20	101	0
Phenol	1.577	1.414	-	10.3	20	101	0
Bis(2-chloroethyl)ether	1.167	1.026	-	12.1	20	102	0
1,3-Dichlorobenzene	1.508	1.434	-	4.9	20	108	0
1,4-Dichlorobenzene	1.575	1.444	-	8.3	20	108	0
1,2-Dichlorobenzene	1.475	1.417	-	3.9	20	111	0
Benzyl alcohol	0.945	0.846	-	10.5	20	100	0
Bis(2-chloroisopropyl)ethe	1.475	1.522	-	-3.2	20	119	0
2-Methylphenol	1.056	1.006	-	4.7	20	107	0
Hexachloroethane	0.558	0.492	-	11.8	20	101	0
n-Nitrosodi-n-propylamine	0.865	0.741	-	14.3	20	98	0
3-Methylphenol/4-Methylphe	1.15	1.13	-	1.7	20	108	0
Nitrobenzene-d5	1.294	1.143	-	11.7	20	99	0
Nitrobenzene	1.289	1.096	-	15	20	95	0
Isophorone	2.328	2.113	-	9.2	20	104	0
2-Nitrophenol	0.574	0.72	-	-25.4*	20	140	0
2,4-Dimethylphenol	1.101	1.086	-	1.4	20	121	0
Bis(2-chloroethoxy)methane	1.567	1.376	-	12.2	20	105	0
2,4-Dichlorophenol	1.153	1.252	-	-8.6	20	124	0
1,2,4-Trichlorobenzene	1.46	1.37	-	6.2	20	115	0
IS1_Naphthalene-d8	1	1	-	0	20	108	0
Naphthalene	1.049	1.008	-	3.9	20	109	0
Benzoic Acid	5	6.579	-	-31.6*	20	175	0
4-Chloroaniline	0.118	0.108	-	8.5	20	99	0
Hexachlorobutadiene	0.246	0.242	-	1.6	20	116	0
p-Chloro-m-cresol	0.277	0.293	-	-5.8	20	117	0
2-Methylnaphthalene	0.713	0.717	-	-0.6	20	119	0
1-Methylnaphthalene	0.245	0.215	-	12.2	20	106	0
Hexachlorocyclopentadiene	0.251	0.303	-	-20.7*	20	145	0
2,4,6-Trichlorophenol	0.256	0.293	-	-14.5	20	127	0
2,4,5-Trichlorophenol	0.262	0.311	-	-18.7	20	130	0
2-Fluorobiphenyl	0.904	0.923	-	-2.1	20	121	0
2-Chloronaphthalene	0.759	0.777	-	-2.4	20	120	0
2-Nitroaniline	0.2	0.255	-	-27.5*	20	144	0
1,4-Dinitrobenzene	0.098	0.141	-	-43.9*	20	159	0
1,3-Dinitrobenzene	0.114	0.151	-	-32.5*	20	148	0
Dimethyl phthalate	0.923	0.996	-	-7.9	20	130	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 11:20		
Lab File ID	: ABN0927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.12	1.216	-	-8.6	20	124	0
2,6-Dinitrotoluene	0.173	0.216	-	-24.9*	20	143	0
1,2-Dinitrobenzene	0.076	0.097	-	-27.6*	20	148	0
IS1_Acenaphthene-d10	1	1	-	0	20	120	0
3-Nitroaniline	0.299	0.351	-	-17.4	20	137	0
Acenaphthene	1.115	1.054	-	5.5	20	122	0
2,4-Dinitrophenol	5	7.482	-	-49.6*	20	205	0
Dibenzofuran	1.837	1.762	-	4.1	20	123	0
2,4-Dinitrotoluene	0.383	0.456	-	-19.1	20	141	0
4-Nitrophenol	0.29	0.219	-	24.5*	20	92	0
2,3,5,6-Tetrachlorophenol	0.377	0.451	-	-19.6	20	140	0
2,3,4,6-Tetrachlorophenol	0.37	0.431	-	-16.5	20	142	0
Diethyl phthalate	1.487	1.491	-	-0.3	20	134	0
Fluorene	1.431	1.419	-	0.8	20	127	0
4-Chlorophenyl phenyl ethe	0.78	0.721	-	7.6	20	125	0
4-Nitroaniline	0.314	0.371	-	-18.2	20	134	0
4,6-Dinitro-o-cresol	5	6.676	-	-33.5*	20	196	0
NDPA/DPA	1.231	1.241	-	-0.8	20	130	0
Azobenzene	1.305	1.092	-	16.3	20	104	0
2,4,6-Tribromophenol	0.257	0.295	-	-14.8	20	151	0
4-Bromophenyl phenyl ether	0.5	0.485	-	3	20	132	0
Hexachlorobenzene	0.628	0.606	-	3.5	20	138	0
Pentachlorophenol	0.322	0.4	-	-24.2*	20	160	0
IS1_Phenanthrene-d10	1	1	-	0	20	124	0
Phenanthrene	1.058	1.053	-	0.5	20	129	0
Anthracene	1.035	1.053	-	-1.7	20	132	0
Carbazole	0.948	0.995	-	-5	20	131	0
Di-n-butylphthalate	1.034	1.204	-	-16.4	20	153	0
Fluoranthene	1.228	1.292	-	-5.2	20	136	0
Benzidine	0.675	0.846	-	-25.3*	20	150	0
Pyrene	1.301	1.361	-	-4.6	20	131	0
4-Terphenyl-d14	1.029	1.048	-	-1.8	20	136	0
Butyl benzyl phthalate	0.458	0.573	-	-25.1*	20	169	0
IS1_Chrysene-d12	1	1	-	0	20	132	0
Benzo(a)anthracene	1.284	1.25	-	2.6	20	133	0
3,3'-Dichlorobenzidine	0.468	0.521	-	-11.3	20	147	0
Chrysene	1.259	1.162	-	7.7	20	127	0
Bis(2-ethylhexyl)phthalate	0.639	0.755	-	-18.2	20	163	0
Di-n-octylphthalate	0.979	1.304	-	-33.2*	20	173	0
Benzo(b)fluoranthene	1.317	1.383	-	-5	20	140	0
Benzo(k)fluoranthene	1.202	1.185	-	1.4	20	122	0
Benzo(a)pyrene	1.149	1.196	-	-4.1	20	134	0
IS1_Perylene-d12	1	1	-	0	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 11:20		
Lab File ID	: ABN0927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.118	1.172	-	-4.8	20	131	0
Dibenzo(a,h)anthracene	1.068	1.117	-	-4.6	20	132	0
Benzo(ghi)perylene	1.078	1.062	-	1.5	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 11:43		
Lab File ID	: AP90927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-4	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Benzaldehyde	1.094	0.939	-	14.2	20	87	0
Acetophenone	1.903	1.62	-	14.9	20	81	0
m-Toluidine	1.828	1.609	-	12	20	84	0
2-Chloroaniline	1.742	1.513	-	13.1	20	85	0
IS2_Naphthalene-d8	1	1	-	0	20	99	0
a-Terpineol	0.277	0.24	-	13.4	20	85	0
3-Chloroaniline	0.15	0.111	-	26*	20	74	0
2,6-Dichlorophenol	0.326	0.311	-	4.6	20	92	0
1-chloro-2-nitrobenzene	0.143	0.131	-	8.4	20	89	0
Caprolactam	5	4.448	-	11	20	93	0
1,2,4,5-Tetrachlorobenzene	0.479	0.405	-	15.4	20	84	0
Biphenyl	1.026	0.891	-	13.2	20	86	0
IS2_Acenaphthene-d10	1	1	-	0	20	100	0
Dichloran	5	4.802	-	4	20	111	0
Pentachloronitrobenzene	0.235	0.217	-	7.7	20	96	0
IS2_Phenanthrene-d10	1	1	-	0	20	97	0
Diphenamid	0.515	0.504	-	2.1	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/27/24 12:06		
Lab File ID	: ADP0927	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1977240-5	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
1,4-Dioxane	0.47	0.443	-	5.7	20	106	0
n-Decane	1.145	1.172	-	-2.4	20	110	0
IS3_Acenaphthene-d10	1	1	-	0	20	110	0
Atrazine	0.441	0.504	-	-14.3	20	140	0
IS3_Phenanthrene-d10	1	1	-	0	20	107	0
n-Octadecane	0.315	0.359	-	-14	20	137	0
Parathion	5	6.615	-	-32.3*	20	174	0
3,3'-Dimethylbenzidine	5	5.833	-	-16.7	20	147	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	102	0
n-Nitrosodimethylamine	0.71	0.651	-	8.3	20	93	0
Pyridine	1.086	1.036	-	4.6	20	88	0
2-Fluorophenol	1.08	1.058	-	2	20	99	0
Aniline	1.765	1.599	-	9.4	20	99	0
2-Chlorophenol	1.294	1.192	-	7.9	20	98	0
Phenol-d6	1.413	1.274	-	9.8	20	98	0
Phenol	1.566	1.391	-	11.2	20	97	0
Bis(2-chloroethyl)ether	1.247	1.119	-	10.3	20	102	0
1,3-Dichlorobenzene	1.587	1.382	-	12.9	20	96	0
1,4-Dichlorobenzene	1.599	1.392	-	12.9	20	96	0
1,2-Dichlorobenzene	1.562	1.319	-	15.6	20	94	0
Benzyl alcohol	1.01	0.98	-	3	20	109	0
Bis(2-chloroisopropyl)ethe	1.617	1.963	-	-21.4*	20	137	0
2-Methylphenol	1.126	1.033	-	8.3	20	105	0
Hexachloroethane	0.563	0.55	-	2.3	20	103	0
n-Nitrosodi-n-propylamine	0.862	0.86	-	0.2	20	113	0
3-Methylphenol/4-Methylphe	1.241	1.138	-	8.3	20	106	0
Nitrobenzene-d5	1.368	1.29	-	5.7	20	106	0
Nitrobenzene	1.312	1.269	-	3.3	20	107	0
Isophorone	2.344	2.316	-	1.2	20	111	0
2-Nitrophenol	0.667	0.632	-	5.2	20	108	0
2,4-Dimethylphenol	1.081	1.173	-	-8.5	20	180	0
Bis(2-chloroethoxy)methane	1.585	1.506	-	5	20	112	0
2,4-Dichlorophenol	1.18	1.092	-	7.5	20	104	0
1,2,4-Trichlorobenzene	1.405	1.229	-	12.5	20	100	0
IS1_Naphthalene-d8	1	1	-	0	20	103	0
Naphthalene	1.132	0.98	-	13.4	20	102	0
Benzoic Acid	5	5.557	-	-11.1	20	136	0
4-Chloroaniline	0.126	0.131	-	-4	20	111	0
Hexachlorobutadiene	0.224	0.214	-	4.5	20	107	0
p-Chloro-m-cresol	0.283	0.301	-	-6.4	20	120	0
2-Methylnaphthalene	0.737	0.684	-	7.2	20	107	0
1-Methylnaphthalene	0.238	0.241	-	-1.3	20	114	0
Hexachlorocyclopentadiene	0.212	0.241	-	-13.7	20	125	0
2,4,6-Trichlorophenol	0.234	0.236	-	-0.9	20	111	0
2,4,5-Trichlorophenol	0.249	0.252	-	-1.2	20	110	0
2-Fluorobiphenyl	0.9	0.802	-	10.9	20	108	0
2-Chloronaphthalene	0.763	0.693	-	9.2	20	110	0
2-Nitroaniline	0.204	0.205	-	-0.5	20	116	0
1,4-Dinitrobenzene	0.11	0.109	-	0.9	20	126	0
1,3-Dinitrobenzene	0.129	0.122	-	5.4	20	120	0
Dimethyl phthalate	0.863	0.846	-	2	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.063	-	6.1	20	111	0
2,6-Dinitrotoluene	0.169	0.173	-	-2.4	20	116	0
1,2-Dinitrobenzene	0.077	0.079	-	-2.6	20	120	0
IS1_Acenaphthene-d10	1	1	-	0	20	112	0
3-Nitroaniline	0.32	0.31	-	3.1	20	112	0
Acenaphthene	1.138	1.007	-	11.5	20	110	0
2,4-Dinitrophenol	5	5.211	-	-4.2	20	162	0
Dibenzofuran	1.879	1.612	-	14.2	20	110	0
2,4-Dinitrotoluene	0.408	0.402	-	1.5	20	121	0
4-Nitrophenol	0.253	0.262	-	-3.6	20	122	0
2,3,5,6-Tetrachlorophenol	0.341	0.346	-	-1.5	20	114	0
2,3,4,6-Tetrachlorophenol	0.325	0.336	-	-3.4	20	113	0
Diethyl phthalate	1.327	1.454	-	-9.6	20	141	0
Fluorene	1.404	1.321	-	5.9	20	118	0
4-Chlorophenyl phenyl ethe	0.713	0.654	-	8.3	20	116	0
4-Nitroaniline	0.32	0.306	-	4.4	20	114	0
4,6-Dinitro-o-cresol	5	4.997	-	0.1	20	152	0
NDPA/DPA	1.166	1.121	-	3.9	20	119	0
Azobenzene	1.226	1.326	-	-8.2	20	131	0
2,4,6-Tribromophenol	0.187	0.146	-	21.9*	20	96	0
4-Bromophenyl phenyl ether	0.385	0.354	-	8.1	20	116	0
Hexachlorobenzene	0.425	0.346	-	18.6	20	101	0
Pentachlorophenol	5	4.223	-	15.5	20	116	0
IS1_Phenanthrene-d10	1	1	-	0	20	127	0
Phenanthrene	1.151	0.965	-	16.2	20	120	0
Anthracene	1.089	0.985	-	9.6	20	126	0
Carbazole	0.994	0.919	-	7.5	20	127	0
Di-n-butylphthalate	1.094	1.247	-	-14	20	167	0
Fluoranthene	1.261	1.164	-	7.7	20	130	0
Benzidine	5	4.846	-	3.1	20	170	0
Pyrene	1.372	1.22	-	11.1	20	126	0
4-Terphenyl-d14	0.946	0.819	-	13.4	20	126	0
Butyl benzyl phthalate	5	4.912	-	1.8	20	184	0
IS1_Chrysene-d12	1	1	-	0	20	125	0
Benzo(a)anthracene	1.453	1.323	-	8.9	20	124	0
3,3'-Dichlorobenzidine	5	4.205	-	15.9	20	130	0
Chrysene	1.403	1.227	-	12.5	20	120	0
Bis(2-ethylhexyl)phthalate	5	6.463	-	-29.3*	20	193	0
Di-n-octylphthalate	5	6.041	-	-20.8*	20	212	0
Benzo(b)fluoranthene	1.251	1.182	-	5.5	20	124	0
Benzo(k)fluoranthene	1.251	1.17	-	6.5	20	115	0
Benzo(a)pyrene	1.101	1.047	-	4.9	20	118	0
IS1_Perylene-d12	1	1	-	0	20	122	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	0.969	-	11.7	20	111	0
Dibenzo(a,h)anthracene	1.056	0.929	-	12	20	109	0
Benzo(ghi)perylene	0.977	0.908	-	7.1	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:54		
Lab File ID	: AP90927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	79	0
Benzaldehyde	1.145	1.163	-	-1.6	20	84	0
Acetophenone	2.032	1.99	-	2.1	20	82	0
m-Toluidine	1.86	1.922	-	-3.3	20	80	0
2-Chloroaniline	1.773	1.725	-	2.7	20	77	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.297	0.33	-	-11.1	20	88	0
3-Chloroaniline	0.163	0.168	-	-3.1	20	83	0
2,6-Dichlorophenol	0.319	0.317	-	0.6	20	78	0
1-chloro-2-nitrobenzene	0.155	0.158	-	-1.9	20	84	0
Caprolactam	5	5.286	-	-5.7	20	98	0
1,2,4,5-Tetrachlorobenzene	0.444	0.381	-	14.2	20	73	0
Biphenyl	1.036	0.889	-	14.2	20	74	0
IS2_Acenaphthene-d10	1	1	-	0	20	83	0
Dichloran	5	4.621	-	7.6	20	96	0
Pentachloronitrobenzene	5	5.213	-	-4.3	20	103	0
IS2_Phenanthrene-d10	1	1	-	0	20	88	0
Diphenamid	0.507	0.545	-	-7.5	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/28/24 00:19		
Lab File ID	: ADP0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	72	0
1,4-Dioxane	0.459	0.432	-	5.9	20	78	0
n-Decane	1.388	1.578	-	-13.7	20	90	0
IS3_Acenaphthene-d10	1	1	-	0	20	79	0
Atrazine	0.315	0.372	-	-18.1	20	93	0
IS3_Phenanthrene-d10	1	1	-	0	20	82	0
n-Octadecane	0.381	0.516	-	-35.4*	20	114	0
Parathion	5	6.955	-	-39.1*	20	142	0
3,3'-Dimethylbenzidine	5	4.48	-	10.4	20	96	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	102	0.00
2	t	n-Nitrosodimethylamine		0.710	0.651	8.3	93	0.00
3	t	Pyridine		1.086	1.036	4.6	88	0.00
4	S	2-Fluorophenol		1.080	1.058	2.0	99	0.00
5	T	Aniline		1.765	1.599	9.4	99	0.00
6	t	2-Chlorophenol		1.294	1.192	7.9	98	0.00
7	S	Phenol-d6		1.413	1.274	9.8	98	0.00
8	T	Phenol		1.566	1.391	11.2	97	0.00
9	T	Bis(2-chloroethyl)ether		1.247	1.119	10.3	102	0.00
10	T	1,3-Dichlorobenzene		1.587	1.382	12.9	96	0.00
11	T	1,4-Dichlorobenzene		1.599	1.392	12.9	96	0.00
12	T	1,2-Dichlorobenzene		1.562	1.319	15.6	94	0.00
13	t	Benzyl alcohol		1.010	0.980	3.0	109	0.00
14	T	Bis(2-chloroisopropyl)ether		1.617	1.963	-21.4#	137	0.00
15	T	2-Methylphenol		1.126	1.033	8.3	105	0.00
16	T	Hexachloroethane		0.563	0.550	2.3	103	0.00
17	T	n-Nitrosodi-n-propylamine		0.862	0.860	0.2	113	0.00
18	T	3-Methylphenol/4-Methylphen		1.241	1.138	8.3	106	0.00
19	S	Nitrobenzene-d5		1.368	1.290	5.7	106	0.00
20	T	Nitrobenzene		1.312	1.269	3.3	107	0.00
21	T	Isophorone		2.344	2.316	1.2	111	0.00
22	T	2-Nitrophenol		0.667	0.632	5.2	108	0.00
23	T	2,4-Dimethylphenol		1.081	1.173	-8.5	180	0.00
24	T	Bis(2-chloroethoxy)methane		1.585	1.506	5.0	112	0.00
25	T	2,4-Dichlorophenol		1.180	1.092	7.5	104	0.00
26	T	1,2,4-Trichlorobenzene		1.405	1.229	12.5	100	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	103	0.00
36	T	Naphthalene		1.132	0.980	13.4	102	0.00
37	T	Benzoic Acid	*	5.000	5.557	-11.1	136	0.00
38	T	4-Chloroaniline		0.126	0.131	-4.0	111	0.00
39	T	Hexachlorobutadiene		0.224	0.214	4.5	107	0.00
40	T	p-Chloro-m-cresol		0.283	0.301	-6.4	120	0.00
41	T	2-Methylnaphthalene		0.737	0.684	7.2	107	0.00
42	T	1-Methylnaphthalene		0.238	0.241	-1.3	114	0.00
43	T	Hexachlorocyclopentadiene		0.212	0.241	-13.7	125	0.00
44	T	2,4,6-Trichlorophenol		0.234	0.236	-0.9	111	0.00
45	T	2,4,5-Trichlorophenol		0.249	0.252	-1.2	110	0.00
46	S	2-Fluorobiphenyl		0.900	0.802	10.9	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.763	0.693	9.2	110	0.00
48	T	2-Nitroaniline		0.204	0.205	-0.5	116	0.00
49	T	1,4-Dinitrobenzene		0.110	0.109	0.9	126	0.00
50	T	1,3-Dinitrobenzene		0.129	0.122	5.4	120	0.00
51	T	Dimethyl phthalate		0.863	0.846	2.0	118	0.00
52	T	Acenaphthylene		1.132	1.063	6.1	111	0.00
53	T	2,6-Dinitrotoluene		0.169	0.173	-2.4	116	0.00
54	T	1,2-Dinitrobenzene		0.077	0.079	-2.6	120	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	112	0.00
64	T	3-Nitroaniline		0.320	0.310	3.1	112	0.00
65	T	Acenaphthene		1.138	1.007	11.5	110	0.00
66	T	2,4-Dinitrophenol	*	5.000	5.211	-4.2	162	0.00
67	T	Dibenzofuran		1.879	1.612	14.2	110	0.00
68	T	2,4-Dinitrotoluene		0.408	0.402	1.5	121	0.00
69	T	4-Nitrophenol		0.253	0.262	-3.6	122	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.341	0.346	-1.5	114	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.325	0.336	-3.4	113	0.00
72	T	Diethyl phthalate		1.327	1.454	-9.6	141	0.00
73	T	Fluorene		1.404	1.321	5.9	118	0.00
74	T	4-Chlorophenyl phenyl ether		0.713	0.654	8.3	116	0.00
75	T	4-Nitroaniline		0.320	0.306	4.4	114	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.997	0.1	152	0.00
77	T	NDPA/DPA		1.166	1.121	3.9	119	0.00
78	T	Azobenzene		1.226	1.326	-8.2	131	0.00
79	S	2,4,6-Tribromophenol		0.187	0.146	21.9#	96	0.00
80	T	4-Bromophenyl phenyl ether		0.385	0.354	8.1	116	0.00
81	T	Hexachlorobenzene		0.425	0.346	18.6	101	0.00
82	T	Pentachlorophenol	*	5.000	4.223	15.5	116	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	127	0.00
89	T	Phenanthrene		1.151	0.965	16.2	120	0.00
90	T	Anthracene		1.089	0.985	9.6	126	0.00
91	T	Carbazole		0.994	0.919	7.5	127	0.00
92	T	Di-n-butylphthalate		1.094	1.247	-14.0	167	0.00
93	T	Fluoranthene		1.261	1.164	7.7	130	0.00
94	T	Benzidine	*	5.000	4.846	3.1	170	0.00
95	T	Pyrene		1.372	1.220	11.1	126	0.00
96	S	4-Terphenyl-d14		0.946	0.819	13.4	126	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	*	5.000	4.912	1.8	184	0.00
104	I	IS1_Chrysene-d12		1.000	1.000	0.0	125	0.00
105	T	Benzo(a)anthracene		1.453	1.323	8.9	124	0.00
106	T	3,3'-Dichlorobenzidine	*	5.000	4.205	15.9	130	0.00
107	T	Chrysene		1.403	1.227	12.5	120	0.00
108	T	Bis(2-ethylhexyl)phthalate	*	5.000	6.463	-29.3#	193	0.00
109	T	Di-n-octylphthalate	*	5.000	6.041	-20.8#	212	0.00
110	T	Benzo(b)fluoranthene		1.251	1.182	5.5	124	0.00
111	T	Benzo(k)fluoranthene		1.251	1.170	6.5	115	0.00
112	T	Benzo(a)pyrene		1.101	1.047	4.9	118	0.00
113	I	IS1_Perylene-d12		1.000	1.000	0.0	122	0.00
114	T	Indeno(1,2,3-cd)pyrene		1.098	0.969	11.7	111	0.00
115	T	Dibenzo(a,h)anthracene		1.056	0.929	12.0	109	0.00
116	T	Benzo(ghi)perylene		0.977	0.908	7.1	108	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.475	152	14778	4.000	ug/ml	0.00
35) IS1_Naphthalene-d8	7.892	136	54938	4.000	ug/ml	0.00
63) IS1_Acenaphthene-d10	9.651	164	33659	4.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	11.092	188	70037	4.000	ug/ml	0.00
104) IS1_Chrysene-d12	13.727	240	61504	4.000	ug/ml	0.00
113) IS1_Perylene-d12	15.198	264	65134	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.616	112	19544	4.899	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 244.95%#			
7) Phenol-d6	6.098	99	23526	4.507	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 225.35%#			
19) Nitrobenzene-d5	7.122	82	23832	4.717	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 471.70%#			
46) 2-Fluorobiphenyl	9.010	172	55107	4.458	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 445.80%#			
79) 2,4,6-Tribromophenol	10.422	330	6153	3.904	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 195.20%#			
96) 4-Terphenyl-d14	12.669	244	71695	4.330	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 433.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.205	74	12027	4.583	ug/ml#	70
3) Pyridine	2.240	79	19146	4.770	ug/ml#	75
5) Aniline	6.069	93	29545	4.531	ug/ml	99
6) 2-Chlorophenol	6.210	128	22022	4.605	ug/ml	95
8) Phenol	6.116	94	25692	4.440	ug/ml	97
9) Bis(2-chloroethyl)ether	6.193	93	20669	4.485	ug/ml#	79
10) 1,3-Dichlorobenzene	6.398	146	25534	4.354	ug/ml	99
11) 1,4-Dichlorobenzene	6.493	146	25716	4.352	ug/ml	99
12) 1,2-Dichlorobenzene	6.669	146	24365	4.223	ug/ml	99
13) Benzyl alcohol	6.675	79	18100	4.852	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.851	45	36255	6.068	ug/ml#	61
15) 2-Methylphenol	6.845	108	19078	4.584	ug/ml	97
16) Hexachloroethane	7.057	117	10165	4.889	ug/ml#	70
17) n-Nitrosodi-n-propylamine	6.998	70	15895	4.991	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.028	108	21023	4.585	ug/ml	98
20) Nitrobenzene	7.145	77	23442	4.836	ug/ml	99
21) Isophorone	7.422	82	42775	4.940	ug/ml	95
22) 2-Nitrophenol	7.498	139	11666	4.738	ug/ml#	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.598	107	21675	5.425	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.692	93	27824	4.752	ug/ml	99
25) 2,4-Dichlorophenol	7.763	162	20168	4.624	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.845	180	22708	4.375	ug/ml	99
36) Naphthalene	7.910	128	67320	4.330	ug/ml	99
37) Benzoic Acid	7.687	105	15261	5.557	ug/ml	98
38) 4-Chloroaniline	7.992	65	9019	5.196	ug/ml	96
39) Hexachlorobutadiene	8.081	225	14664	4.771	ug/ml	98
40) p-Chloro-m-cresol	8.516	107	20683	5.324	ug/ml	96
41) 2-Methylnaphthalene	8.628	142	46978	4.639	ug/ml	95
42) 1-Methylnaphthalene	8.722	115	16583	5.069	ug/ml	90
43) Hexachlorocyclopentadiene	8.804	237	16577	5.702	ug/ml	98
44) 2,4,6-Trichlorophenol	8.928	196	16190	5.036	ug/ml	100
45) 2,4,5-Trichlorophenol	8.951	196	17325	5.073	ug/ml	96
47) 2-Chloronaphthalene	9.104	162	47581	4.540	ug/ml	97
48) 2-Nitroaniline	9.222	138	14050	5.012	ug/ml	92
49) 1,4-Dinitrobenzene	9.351	168	7514	4.980	ug/ml	82
50) 1,3-Dinitrobenzene	9.428	168	8399	4.740	ug/ml#	1
51) Dimethyl phthalate	9.422	163	58082	4.903	ug/ml#	99
52) Acenaphthylene	9.510	152	73023	4.695	ug/ml	99
53) 2,6-Dinitrotoluene	9.469	165	11887	5.127	ug/ml	87
54) 1,2-Dinitrobenzene	9.510	168	5433	5.157	ug/ml#	1
64) 3-Nitroaniline	9.622	138	13061	4.850	ug/ml	98
65) Acenaphthene	9.681	154	42349	4.422	ug/ml	90
66) 2,4-Dinitrophenol	9.722	184	8137	5.211	ug/ml	91
67) Dibenzofuran	9.857	168	67837	4.290	ug/ml	100
68) 2,4-Dinitrotoluene	9.857	165	16905	4.919	ug/ml	95
69) 4-Nitrophenol	9.810	65	11016	5.173	ug/ml#	88
70) 2,3,5,6-Tetrachlorophenol	9.945	232	14561	5.073	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	9.986	232	14129	5.162	ug/ml	97
72) Diethyl phthalate	10.116	149	61158	5.477	ug/ml	99
73) Fluorene	10.186	166	55576	4.703	ug/ml	97
74) 4-Chlorophenyl phenyl ...	10.204	204	27503	4.585	ug/ml	96
75) 4-Nitroaniline	10.216	138	12881	4.781	ug/ml#	84
76) 4,6-Dinitro-o-cresol	10.251	198	10543	4.997	ug/ml#	69
77) NDPA/DPA	10.322	169	47165	4.808	ug/ml	94
78) Azobenzene	10.357	77	55790	5.406	ug/ml	98
80) 4-Bromophenyl phenyl e...	10.675	248	14912	4.604	ug/ml	95
81) Hexachlorobenzene	10.728	284	14542	4.069	ug/ml#	92
82) Pentachlorophenol	10.922	266	10148	4.223	ug/ml	100
89) Phenanthrene	11.110	178	84478	4.191	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90)	Anthracene	11.163	178	86207	4.521	ug/ml	99
91)	Carbazole	11.327	167	80433	4.623	ug/ml	98
92)	Di-n-butylphthalate	11.716	149	109135	5.697	ug/ml	99
93)	Fluoranthene	12.263	202	101932	4.617	ug/ml#	92
94)	Benzidine	12.416	184	62544	4.846	ug/ml#	95
95)	Pyrene	12.480	202	106811	4.447	ug/ml	99
97)	Butyl benzyl phthalate	13.192	149	48879	4.912	ug/ml	88
105)	Benzo(a)anthracene	13.716	228	101732	4.552	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.716	252	33603	4.205	ug/ml#	97
107)	Chrysene	13.757	228	94369	4.373	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.833	149	78881	6.463	ug/ml#	92
109)	Di-n-octylphthalate	14.510	149	130918	6.041	ug/ml#	72
110)	Benzo(b)fluoranthene	14.827	252	90890	4.723	ug/ml#	96
111)	Benzo(k)fluoranthene	14.857	252	89970	4.676	ug/ml#	94
112)	Benzo(a)pyrene	15.139	252	80514	4.757	ug/ml#	96
114)	Indeno(1,2,3-cd)pyrene	16.186	276	78868M6	4.411	ug/mL	
115)	Dibenzo(a,h)anthracene	16.210	278	75671	4.402	ug/ml#	94
116)	Benzo(ghi)perylene	16.451	276	73941	4.646	ug/ml#	92

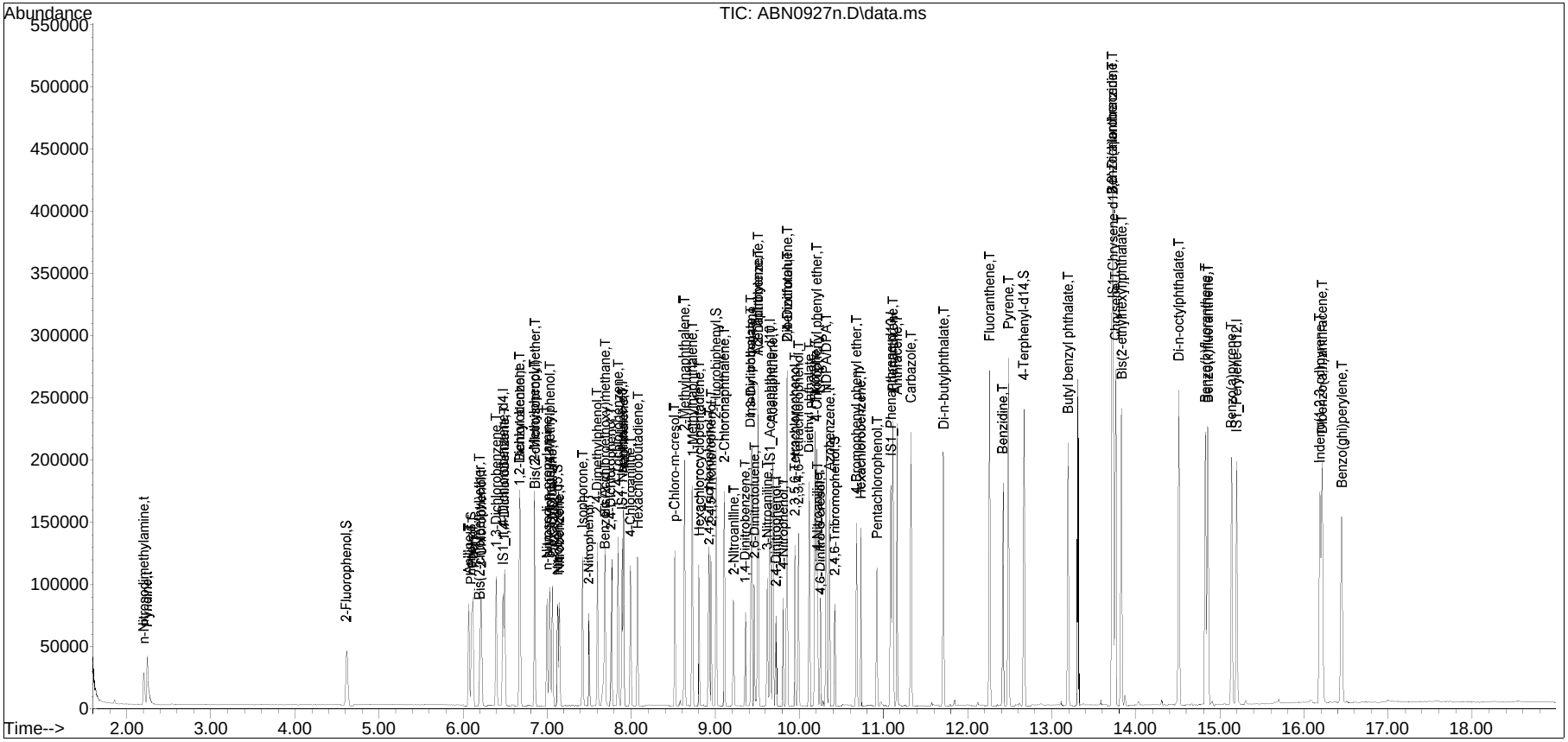
(#) = qualifier out of range (m) = manual integration (+) = signals summed

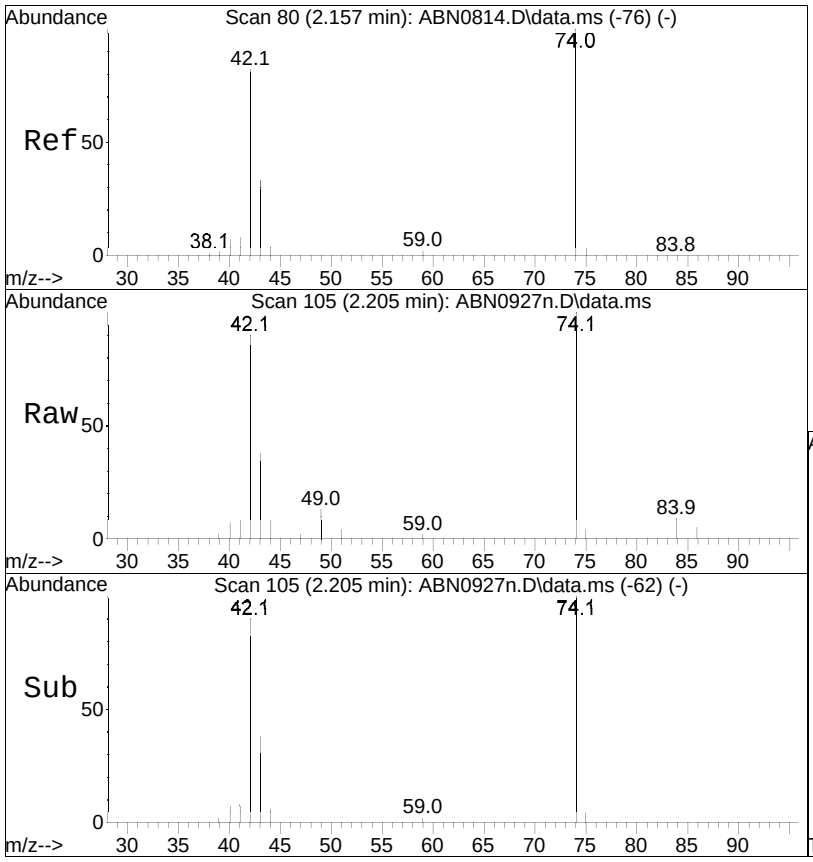
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

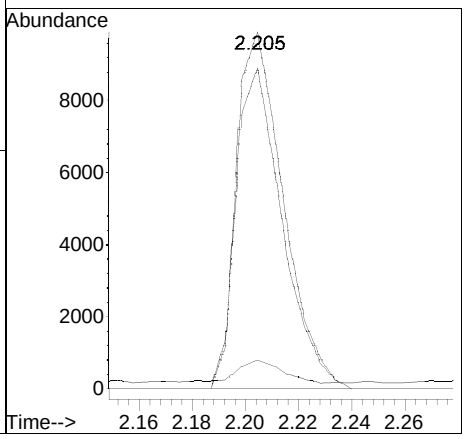


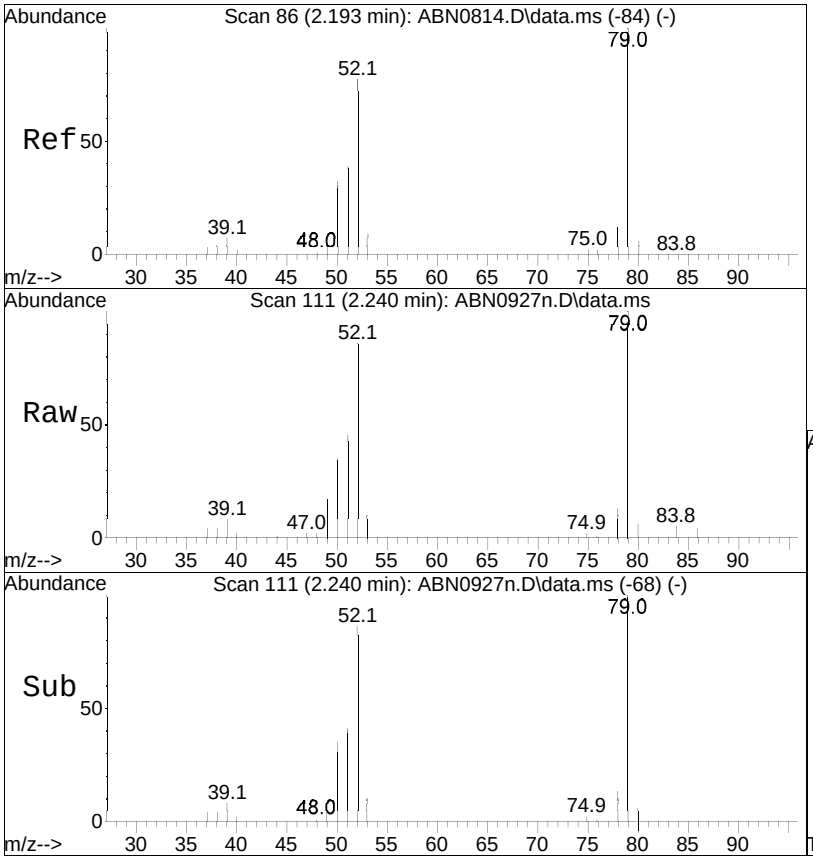


#2
n-Nitrosodimethylamine
Concen: 4.58 ug/ml
RT: 2.205 min Scan# 105
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 74 Resp: 12027

Ion	Ratio	Lower	Upper
74	100		
42	89.1	100.0	150.0#
44	6.6	6.7	10.1#

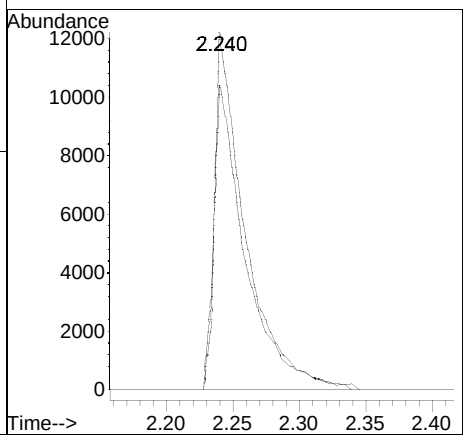


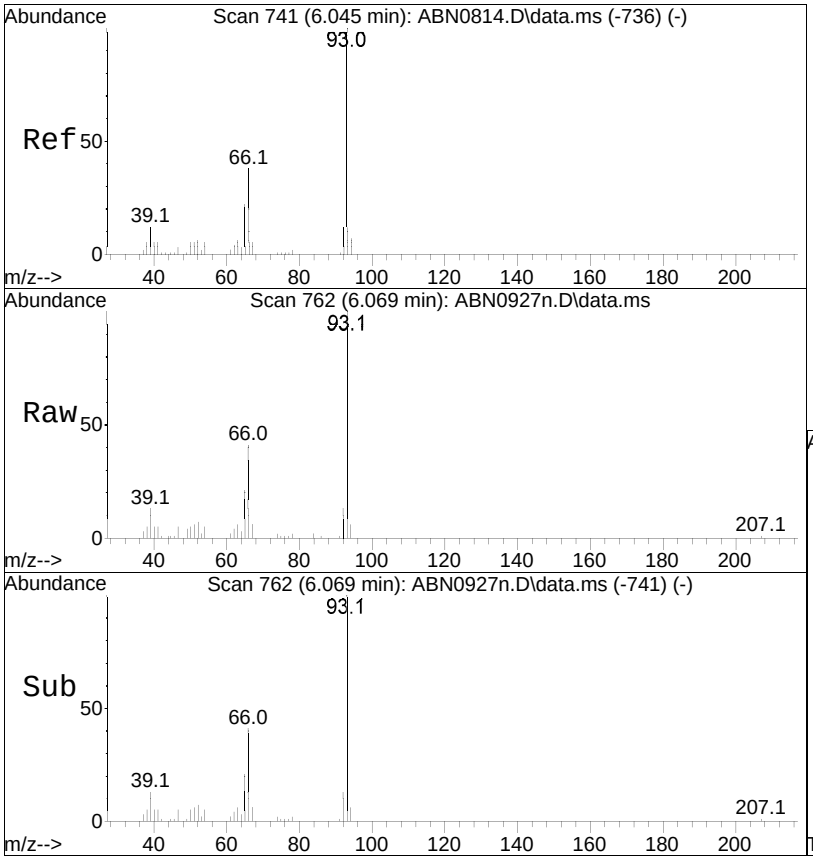


#3
Pyridine
Concen: 4.77 ug/ml
RT: 2.240 min Scan# 111
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 79 Resp: 19146

Ion	Ratio	Lower	Upper
79	100		
52	89.1	93.1	139.7#

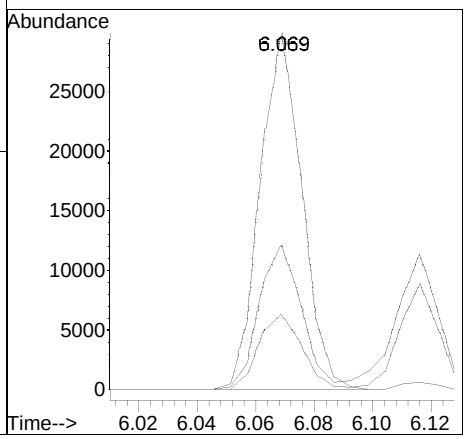


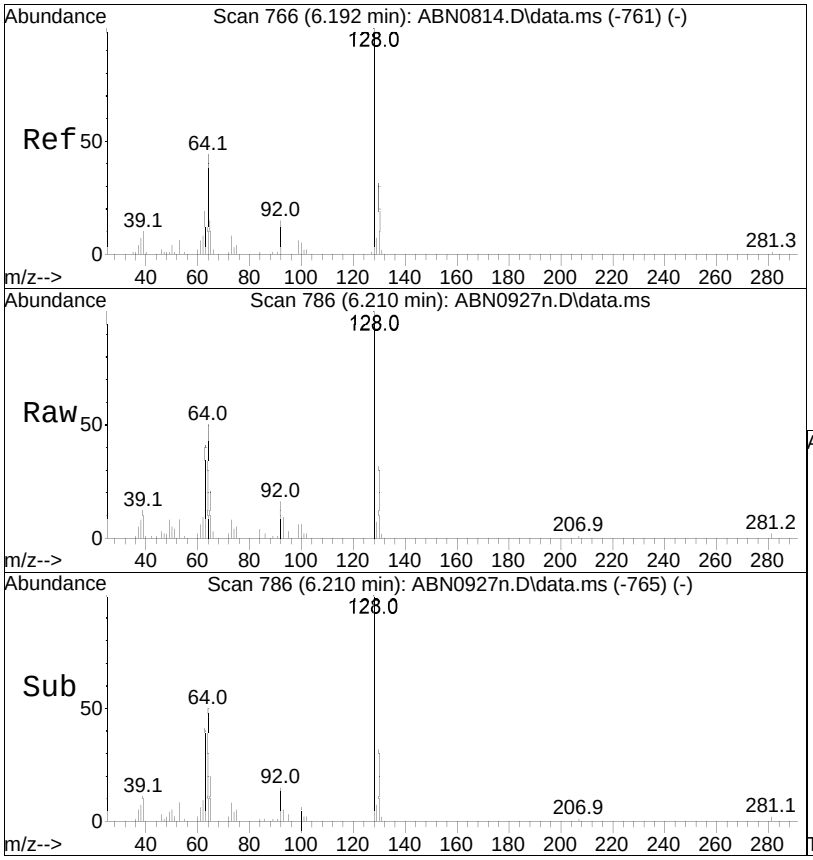


#5
Aniline
Concen: 4.53 ug/ml
RT: 6.069 min Scan# 762
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 93 Resp: 29545

Ion	Ratio	Lower	Upper
93	100		
66	41.4	32.6	49.0
65	22.1	17.6	26.4

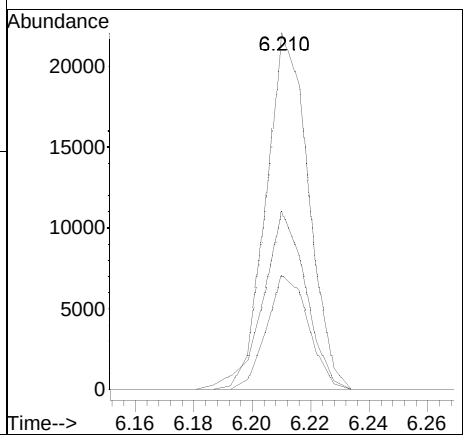


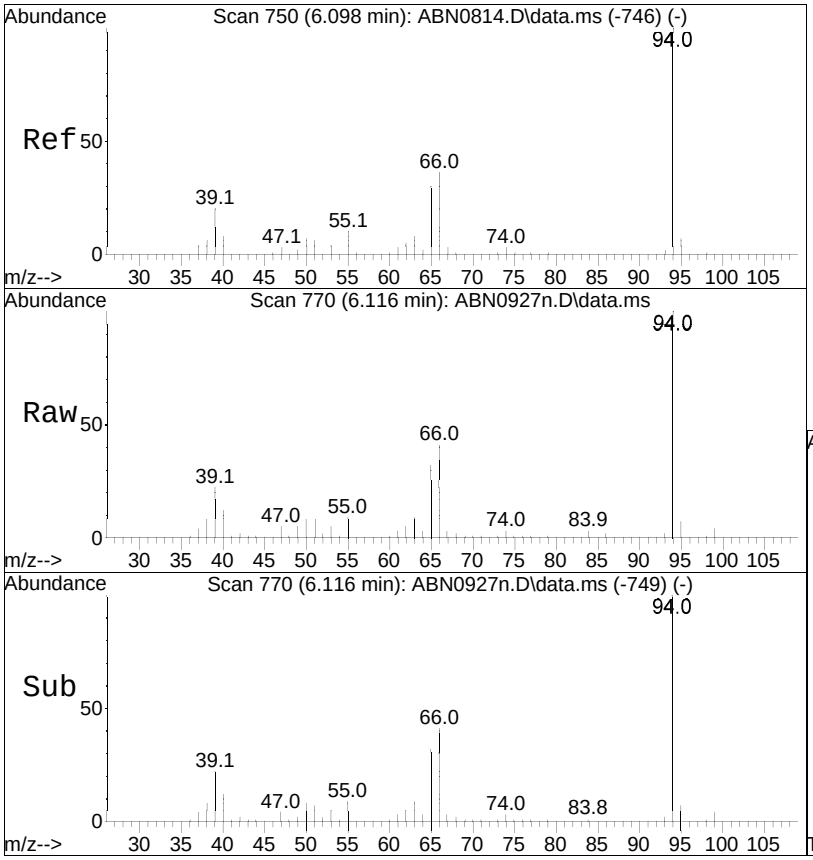


#6
2-Chlorophenol
Concen: 4.61 ug/ml
RT: 6.210 min Scan# 786
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:128 Resp: 22022

Ion	Ratio	Lower	Upper
128	100		
64	50.8	45.1	67.7
130	31.8	26.2	39.4

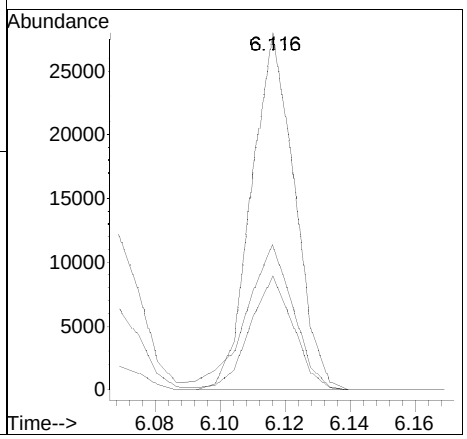


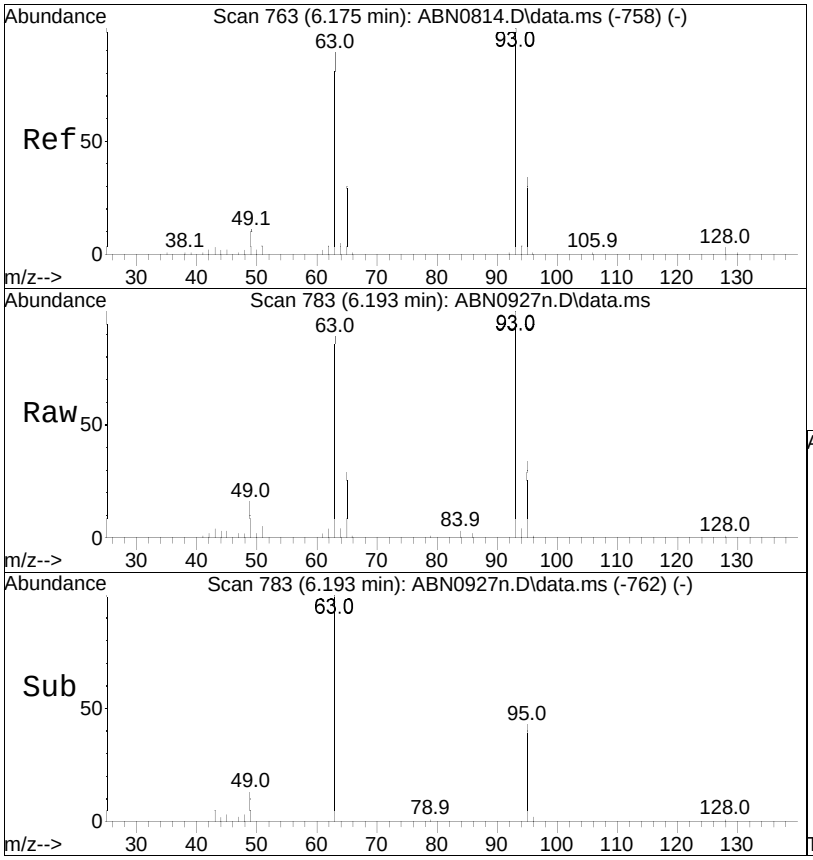


#8
Phenol
Concen: 4.44 ug/ml
RT: 6.116 min Scan# 770
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 94 Resp: 25692

Ion	Ratio	Lower	Upper
94	100		
65	32.3	26.0	39.0
66	45.7	33.8	50.8

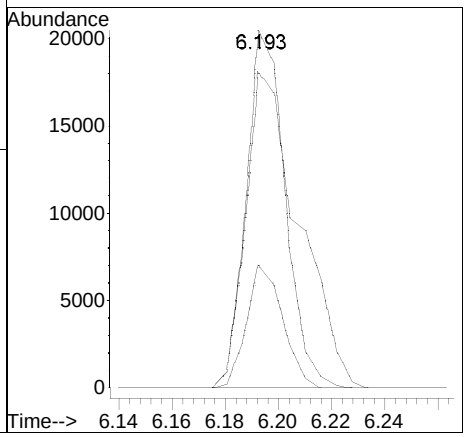


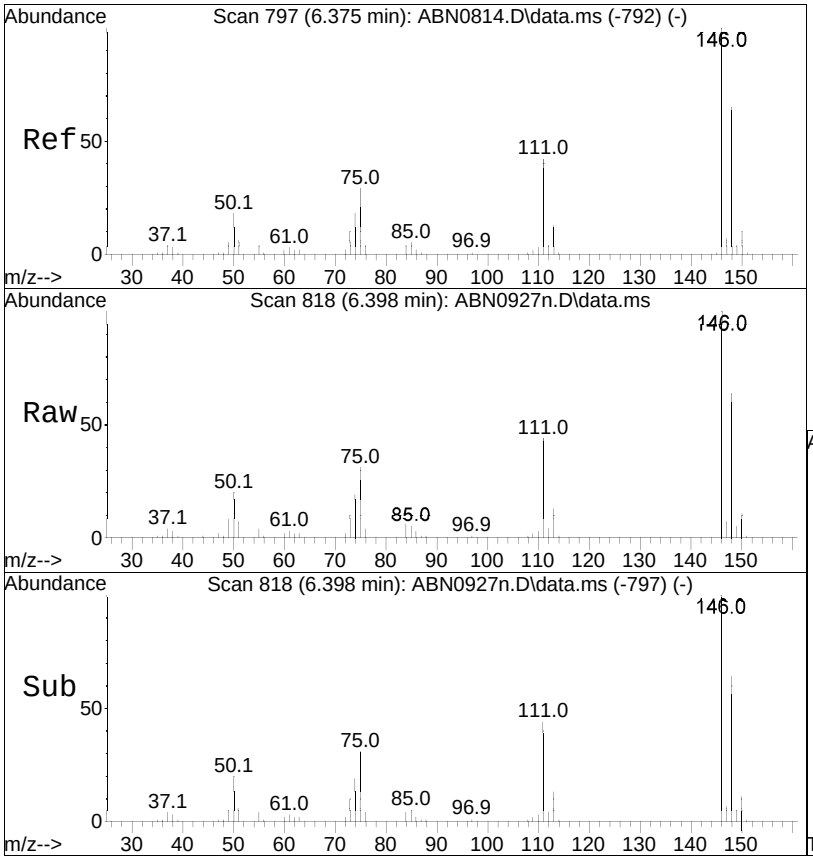


#9
Bis(2-chloroethyl)ether
Concen: 4.49 ug/ml
RT: 6.193 min Scan# 783
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 93 Resp: 20669

Ion	Ratio	Lower	Upper
93	100		
63	120.6	74.6	111.8#
95	32.0	25.9	38.9

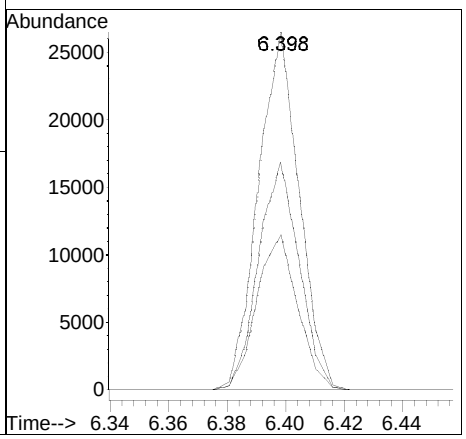


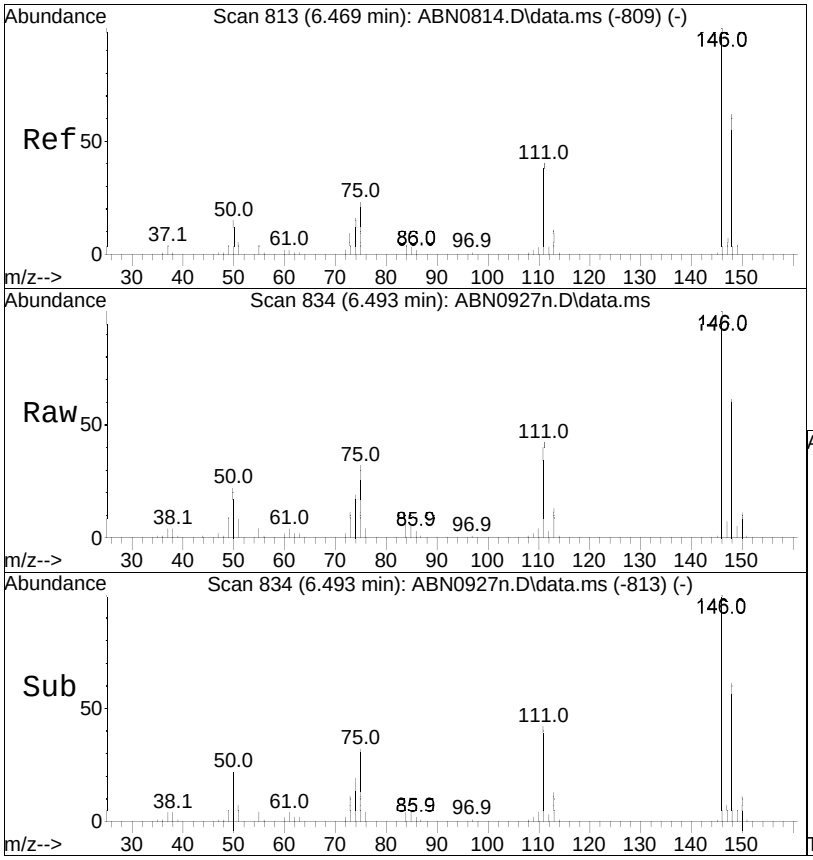


#10
1,3-Dichlorobenzene
Concen: 4.35 ug/ml
RT: 6.398 min Scan# 818
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:146 Resp: 25534

Ion	Ratio	Lower	Upper
146	100		
111	43.7	34.3	51.5
148	63.2	50.8	76.2

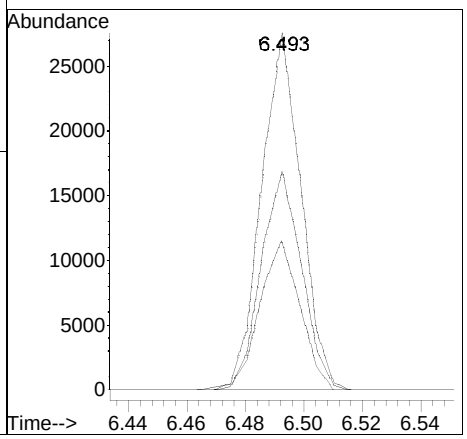


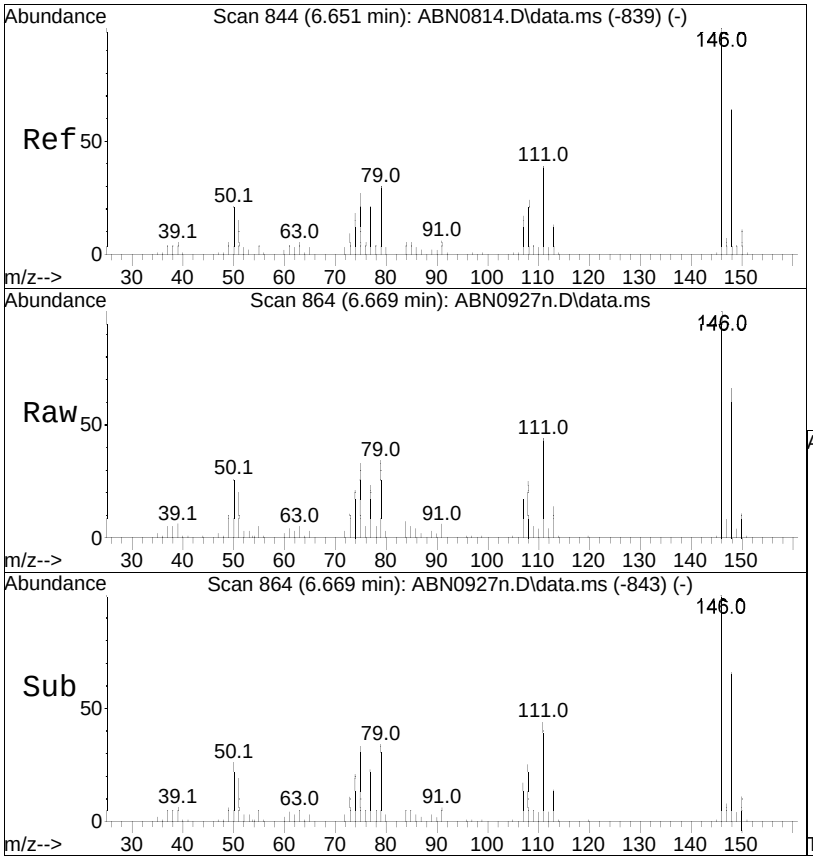


#11
1,4-Dichlorobenzene
Concen: 4.35 ug/ml
RT: 6.493 min Scan# 834
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:146 Resp: 25716

Ion	Ratio	Lower	Upper
146	100		
148	62.5	50.7	76.1
111	43.0	33.4	50.0

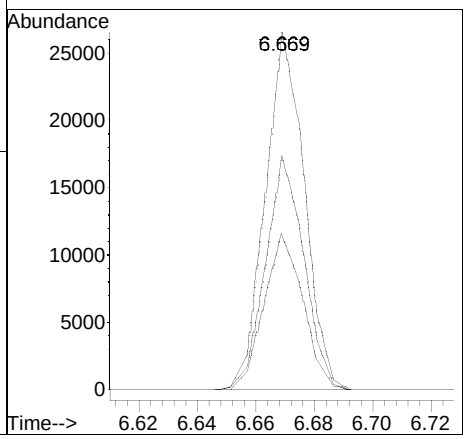


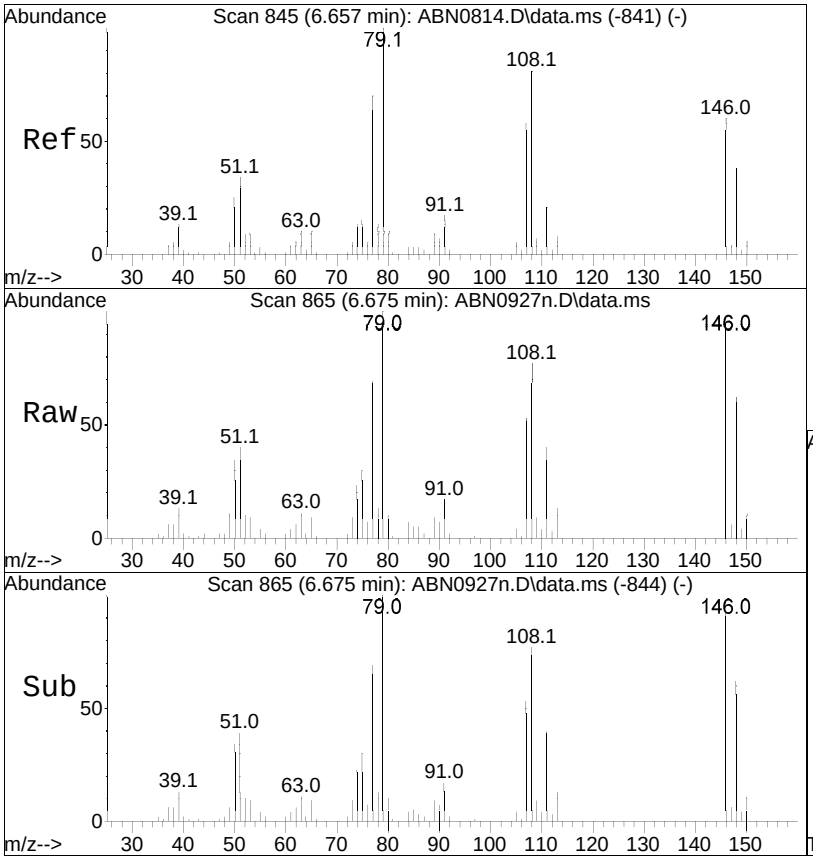


#12
1,2-Dichlorobenzene
Concen: 4.22 ug/ml
RT: 6.669 min Scan# 864
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:146 Resp: 24365

Ion	Ratio	Lower	Upper
146	100		
111	43.7	34.6	52.0
148	64.3	50.2	75.4

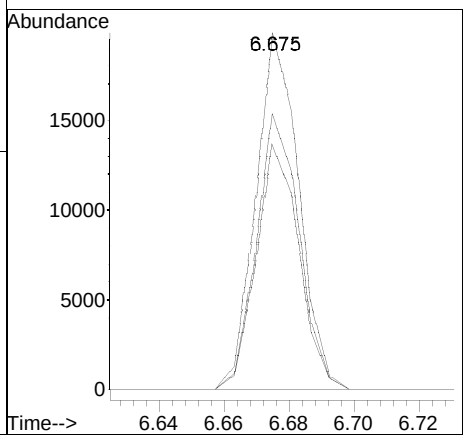


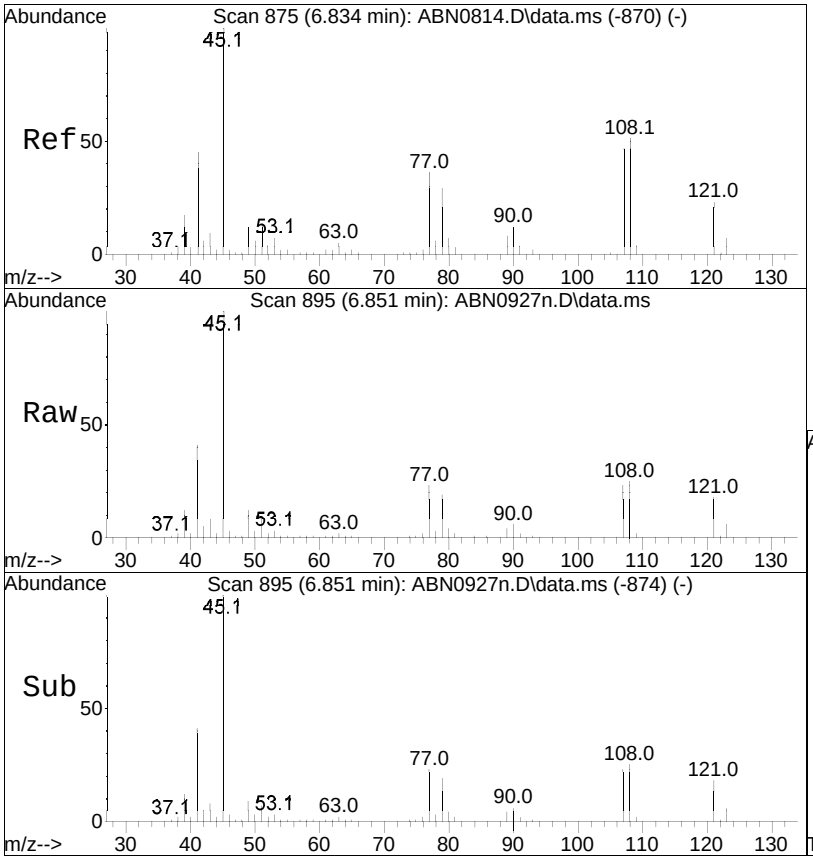


#13
Benzyl alcohol
Concen: 4.85 ug/ml
RT: 6.675 min Scan# 865
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 79 Resp: 18100

Ion	Ratio	Lower	Upper
79	100		
77	68.7	54.9	82.3
108	76.9	63.1	94.7

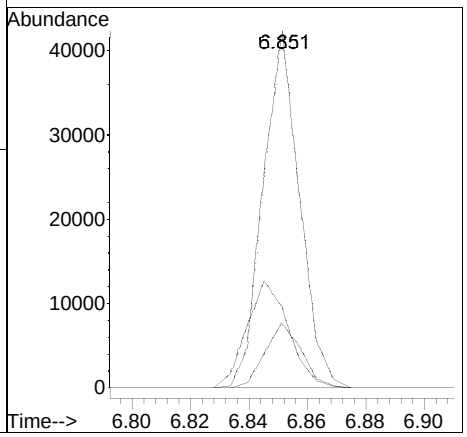


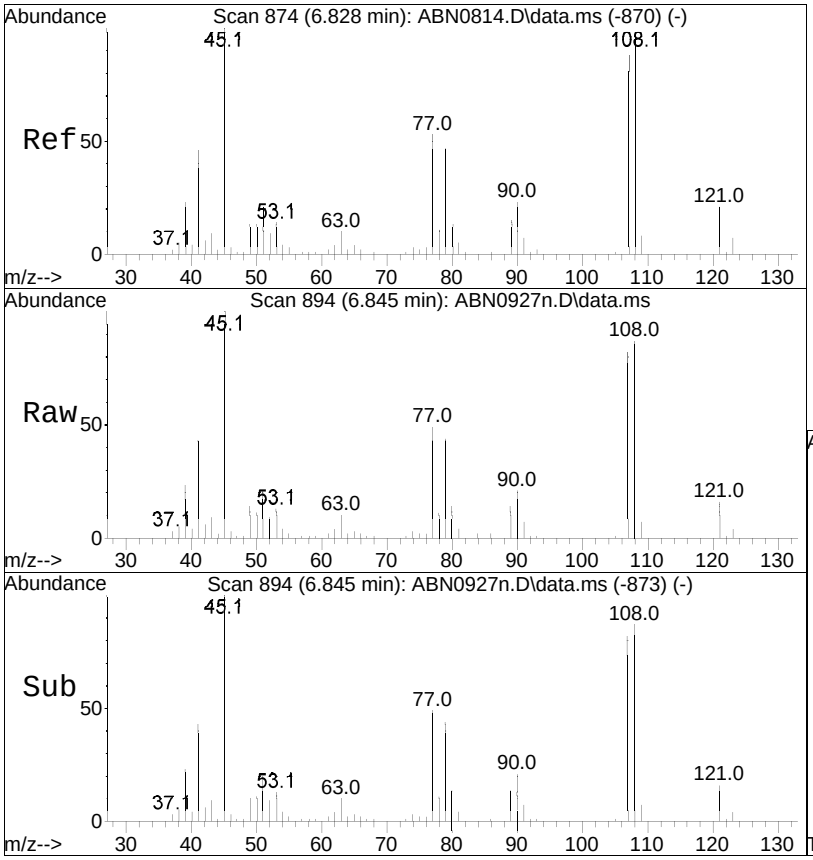


#14
Bis(2-chloroisopropyl)ether
Concen: 6.07 ug/ml
RT: 6.851 min Scan# 895
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 45 Resp: 36255

Ion	Ratio	Lower	Upper
45	100		
121	18.3	9.8	14.6#
77	34.8	6.1	9.1#

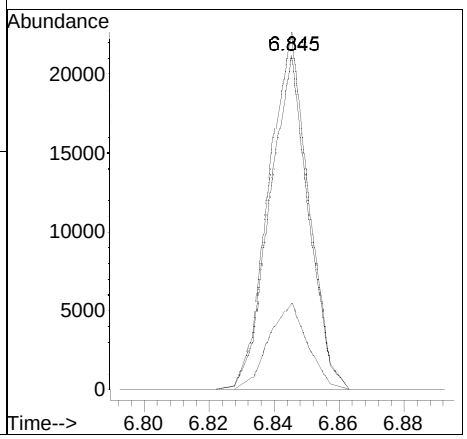


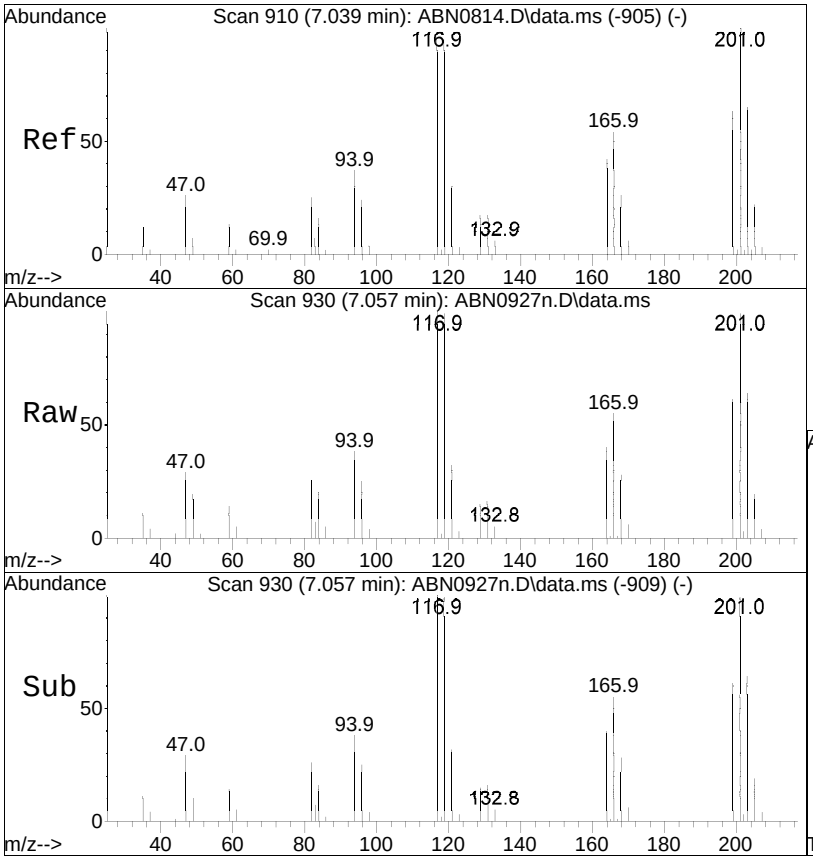


#15
2-Methylphenol
Concen: 4.58 ug/ml
RT: 6.845 min Scan# 894
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:108 Resp: 19078

Ion	Ratio	Lower	Upper
108	100		
107	91.3	70.7	106.1
90	23.8	18.7	28.1

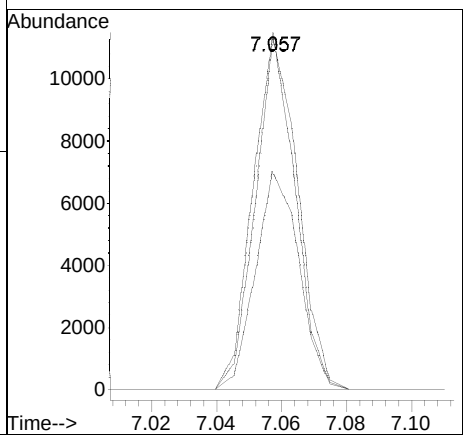


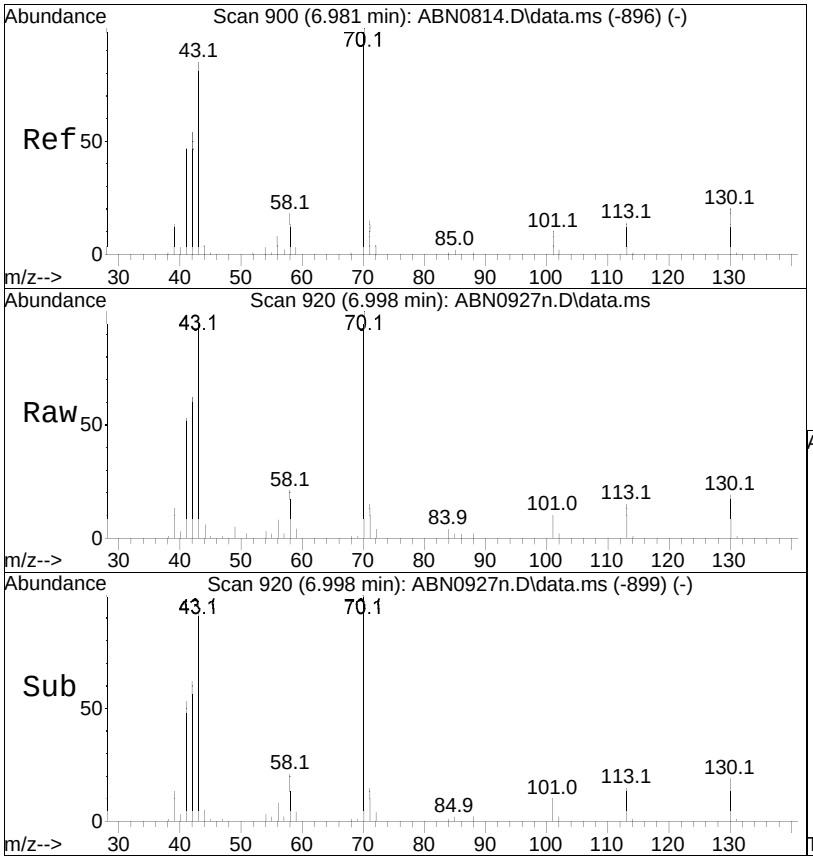


#16
Hexachloroethane
Concen: 4.89 ug/ml
RT: 7.057 min Scan# 930
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:117 Resp: 10165

Ion	Ratio	Lower	Upper
117	100		
201	100.4	58.6	87.8#
199	63.8	36.9	55.3#

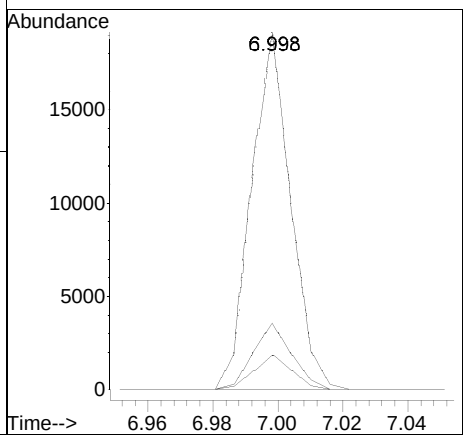


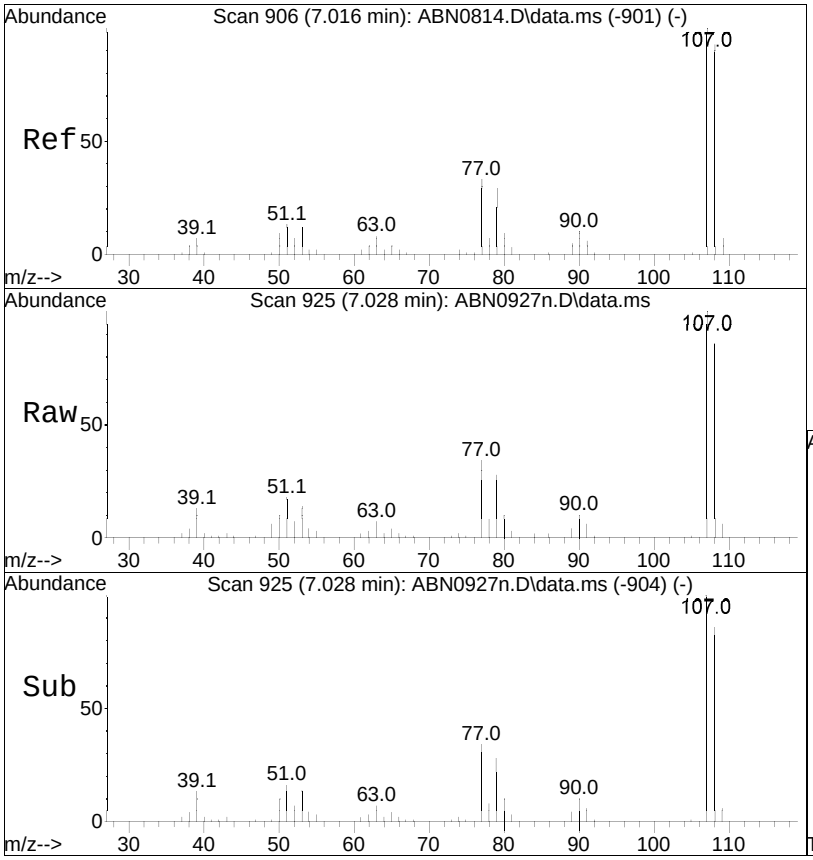


#17
n-Nitrosodi-n-propylamine
Concen: 4.99 ug/ml
RT: 6.998 min Scan# 920
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 70 Resp: 15895

Ion	Ratio	Lower	Upper
70	100		
130	18.4	18.2	27.4
101	9.5	7.8	11.8

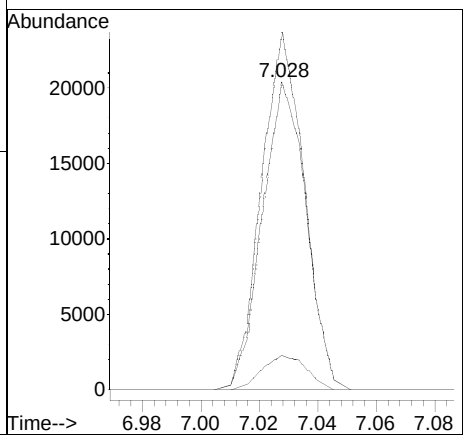


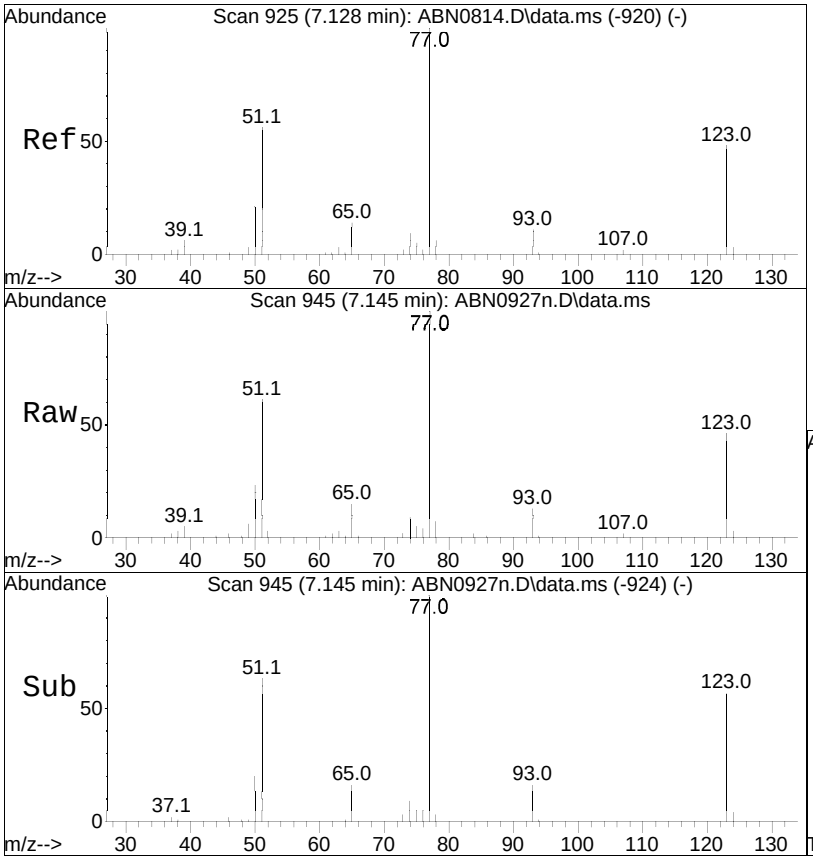


#18
3-Methylphenol/4-Methylphenol
Concen: 4.58 ug/ml
RT: 7.028 min Scan# 925
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:108 Resp: 21023

Ion	Ratio	Lower	Upper
108	100		
107	113.3	88.6	132.8
90	11.4	8.8	13.2

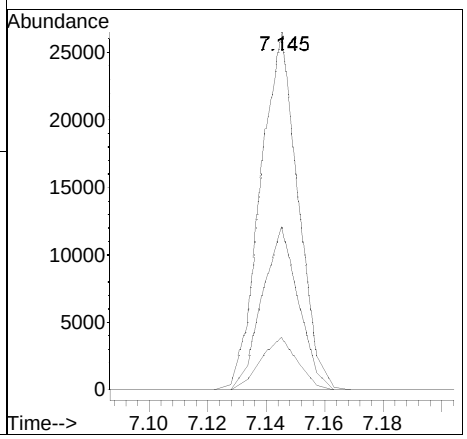


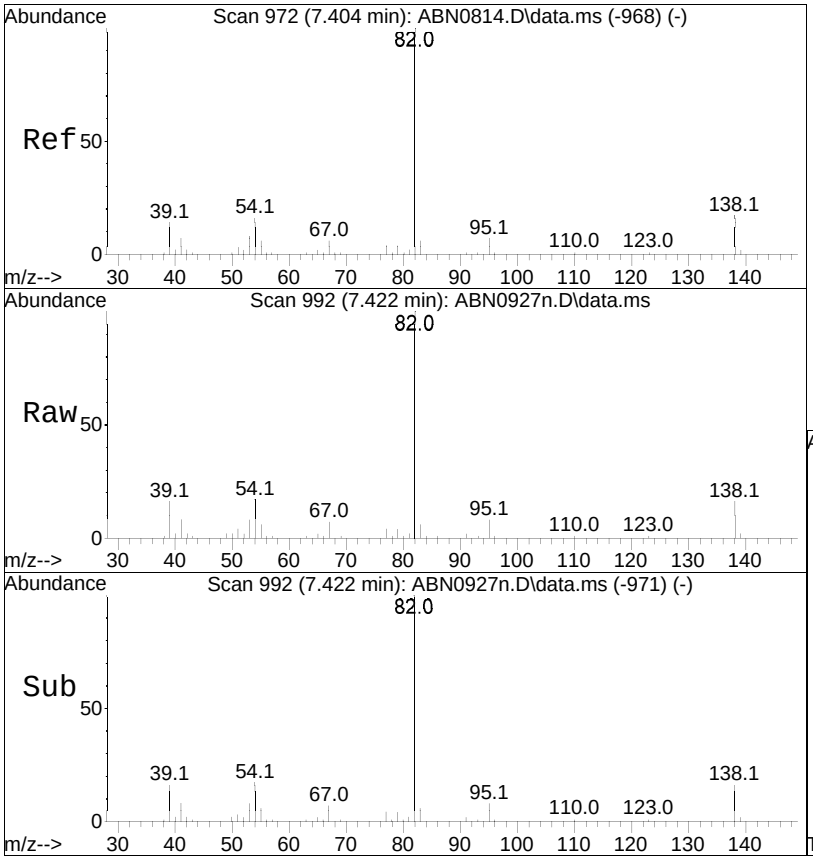


#20
Nitrobenzene
Concen: 4.84 ug/ml
RT: 7.145 min Scan# 945
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 77 Resp: 23442

Ion	Ratio	Lower	Upper
77	100		
123	44.2	36.3	54.5
65	14.4	11.6	17.4

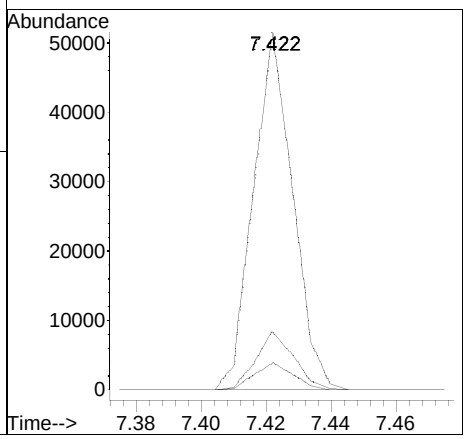


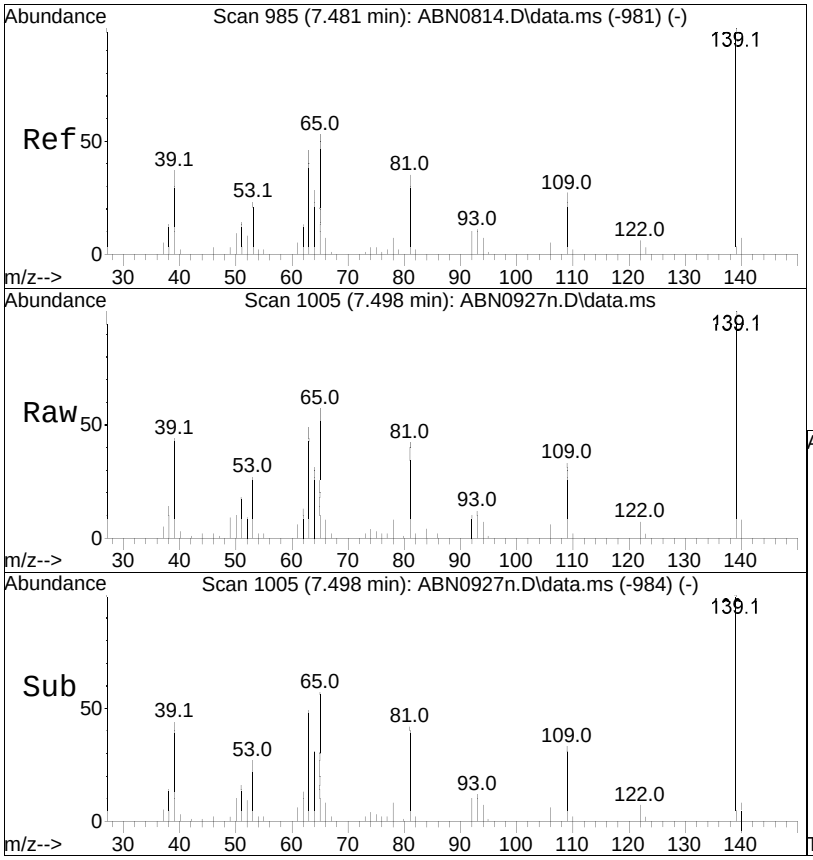


#21
Isophorone
Concen: 4.94 ug/ml
RT: 7.422 min Scan# 992
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 82 Resp: 42775

Ion	Ratio	Lower	Upper
82	100		
138	15.9	14.7	22.1
95	7.6	5.2	7.8

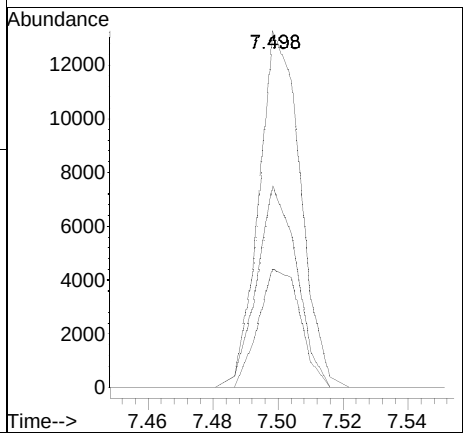


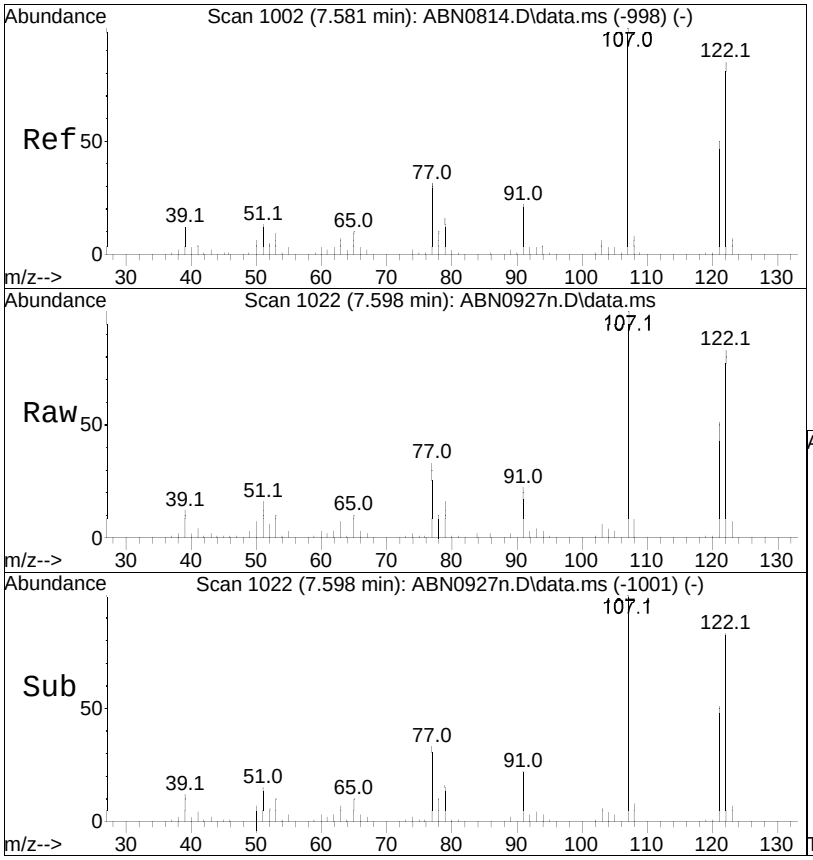


#22
2-Nitrophenol
Concen: 4.74 ug/ml
RT: 7.498 min Scan# 1005
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:139 Resp: 11666

Ion	Ratio	Lower	Upper
139	100		
109	33.9	19.4	29.0#
65	54.6	46.1	69.1

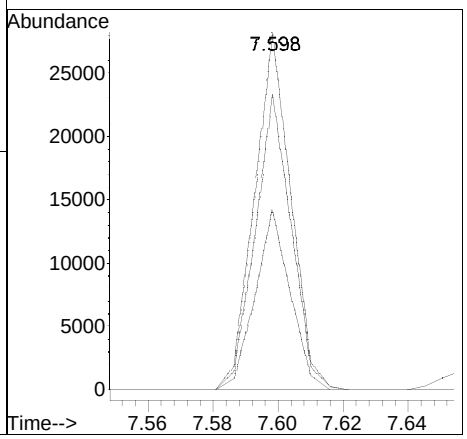


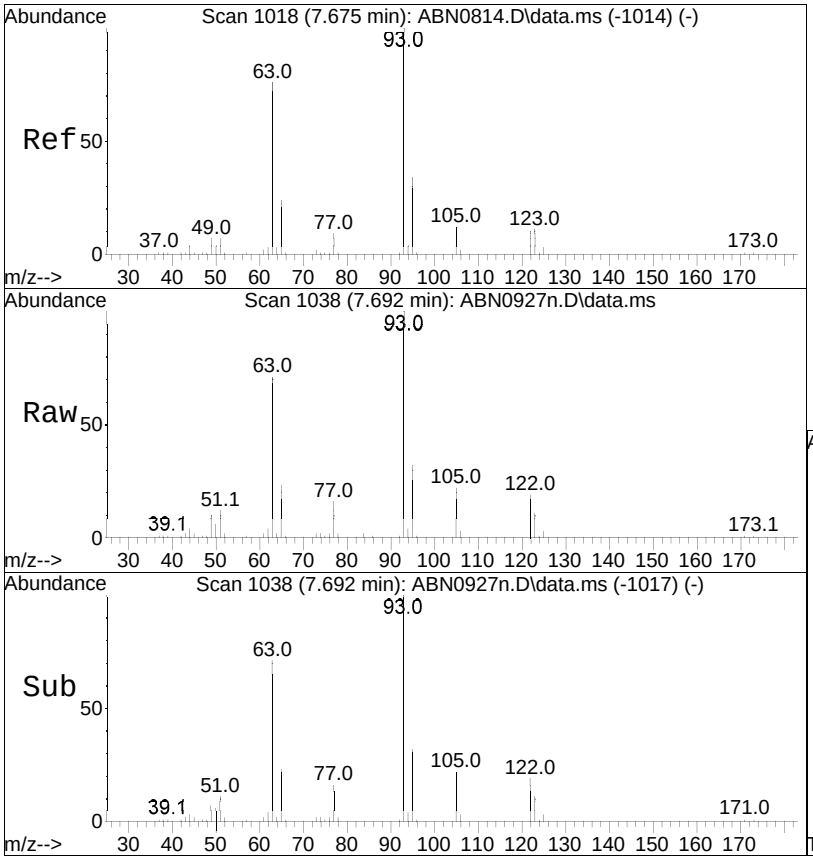


#23
2,4-Dimethylphenol
Concen: 5.43 ug/ml
RT: 7.598 min Scan# 1022
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:107 Resp: 21675

Ion	Ratio	Lower	Upper
107	100		
121	48.9	40.0	60.0
122	82.2	70.2	105.4

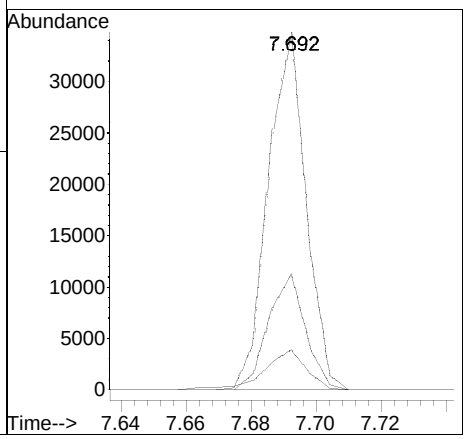


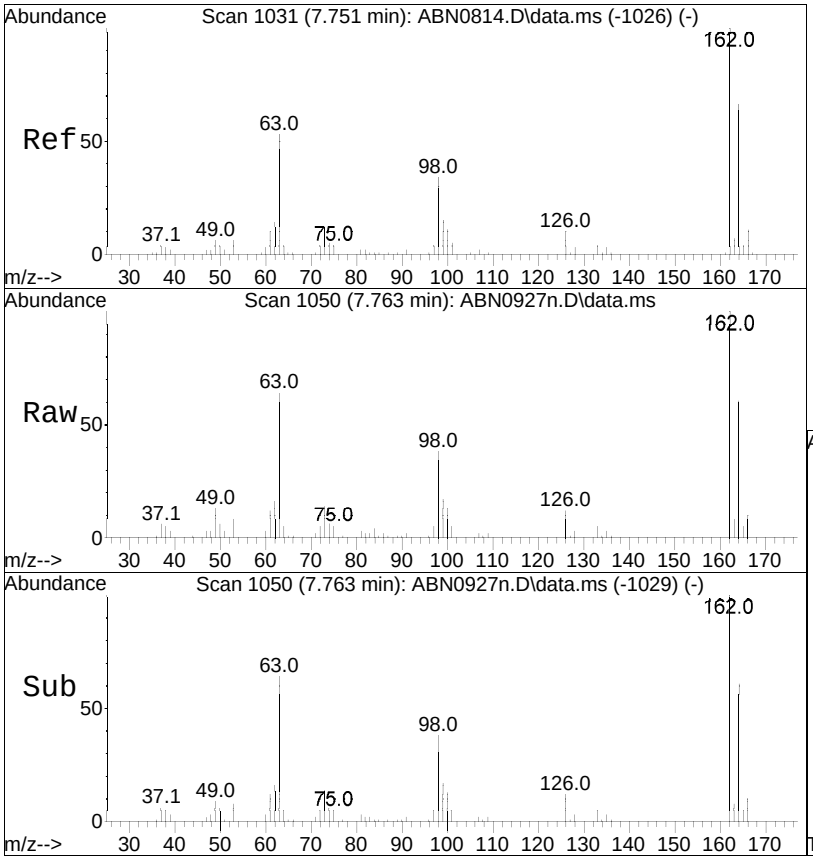


#24
Bis(2-chloroethoxy)methane
Concen: 4.75 ug/ml
RT: 7.692 min Scan# 1038
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 93 Resp: 27824

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.8	38.8
123	12.6	10.1	15.1

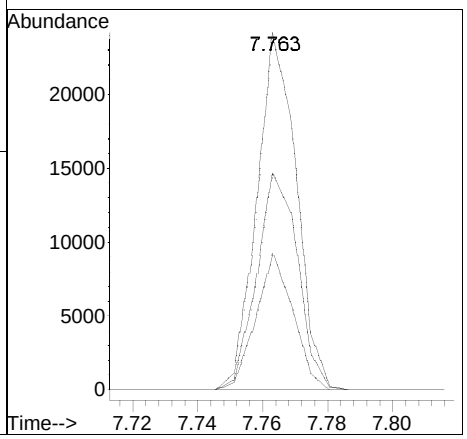


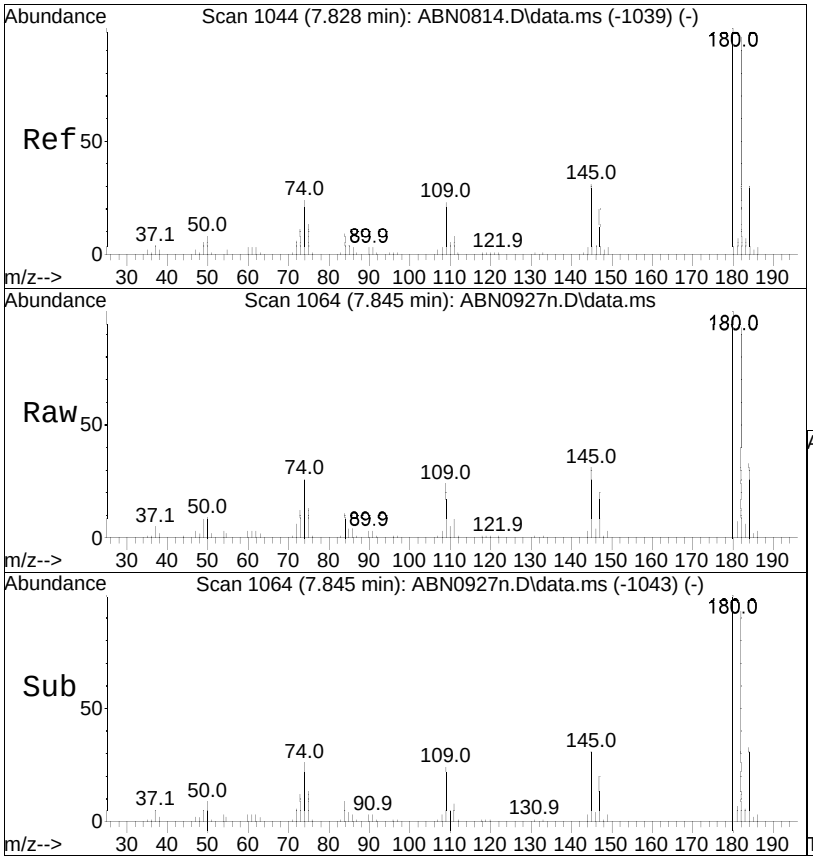


#25
2,4-Dichlorophenol
Concen: 4.62 ug/ml
RT: 7.763 min Scan# 1050
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:162 Resp: 20168

Ion	Ratio	Lower	Upper
162	100		
164	63.0	51.0	76.4
98	36.2	32.2	48.2

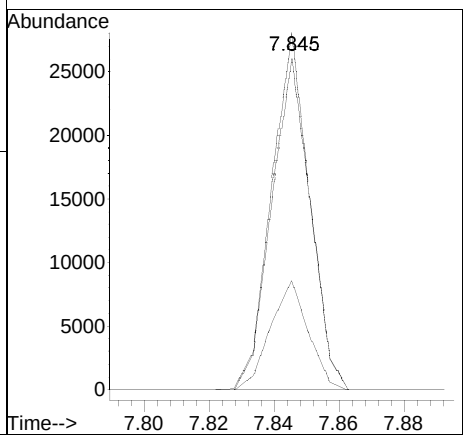


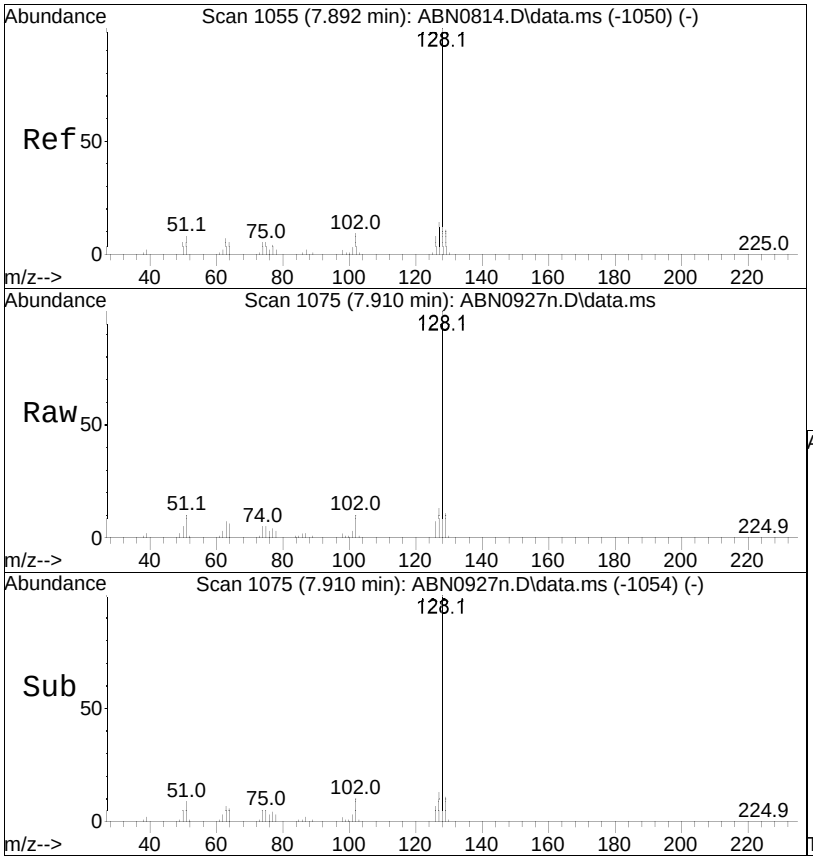


#26
1,2,4-Trichlorobenzene
Concen: 4.37 ug/ml
RT: 7.845 min Scan# 1064
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:180 Resp: 22708

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.0	114.0
145	30.6	25.7	38.5

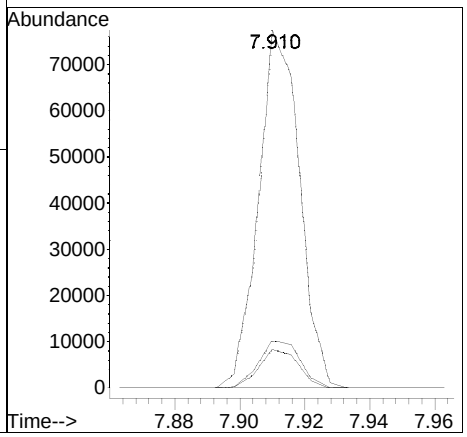


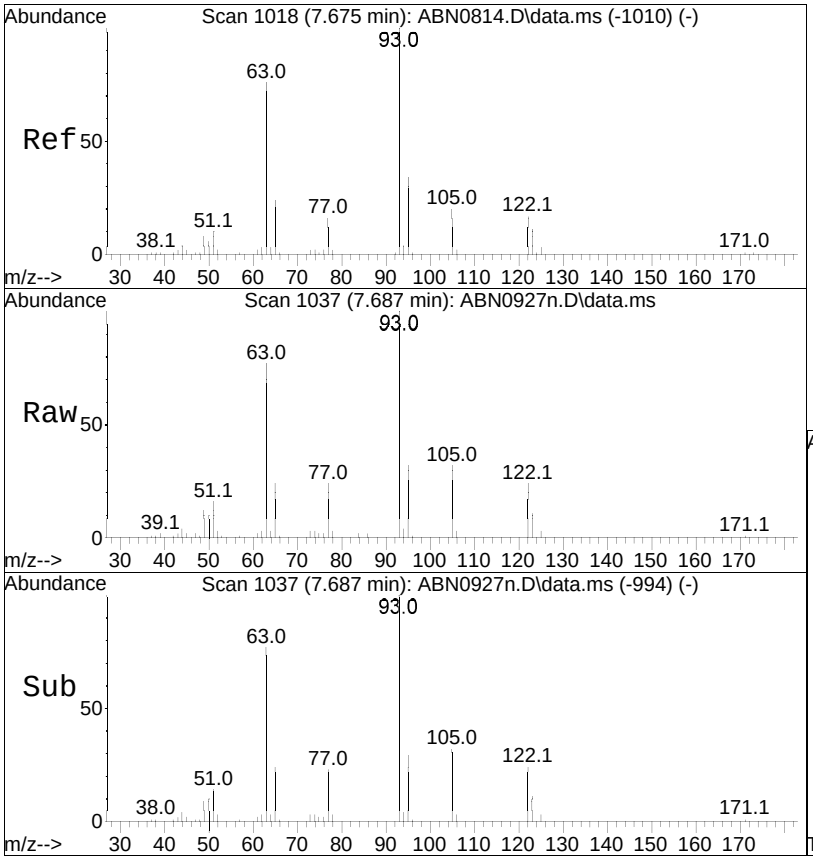


#36
Naphthalene
Concen: 4.33 ug/ml
RT: 7.910 min Scan# 1075
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:128 Resp: 67320

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.7	13.1
127	13.5	10.3	15.5

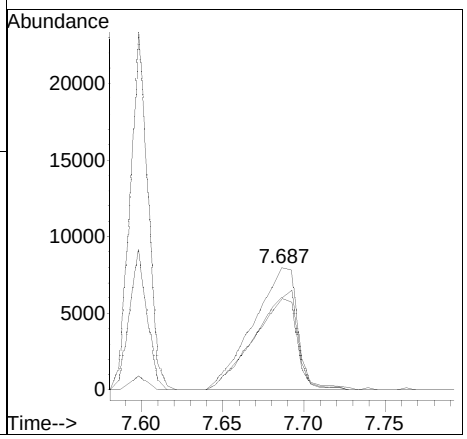


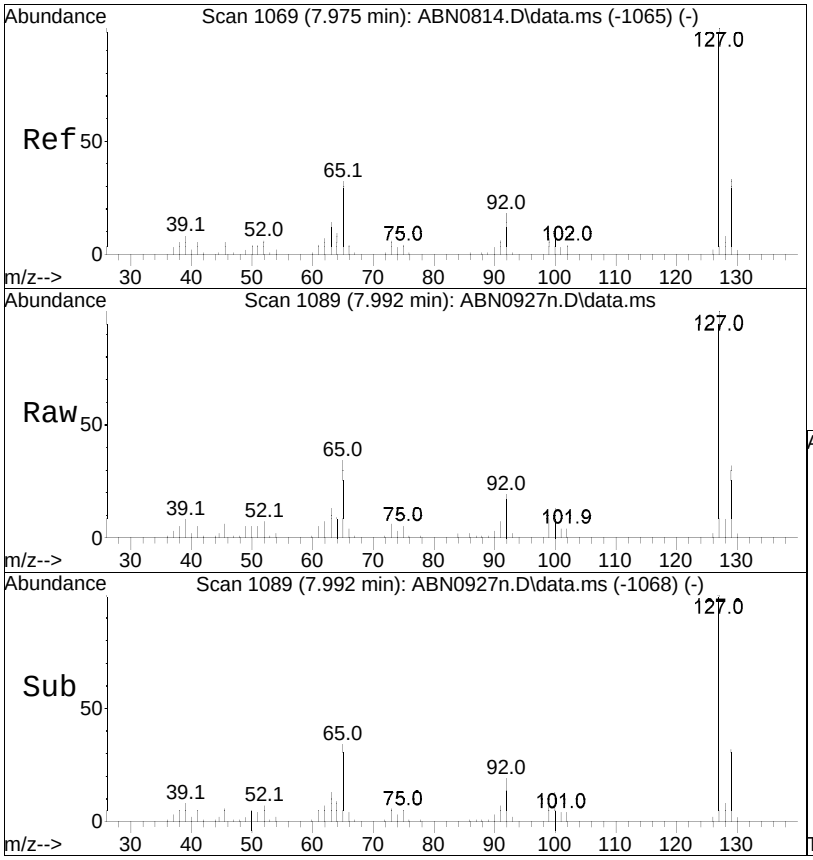


#37
Benzoic Acid
Concen: 5.56 ug/ml
RT: 7.687 min Scan# 1037
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:105 Resp: 15261

Ion	Ratio	Lower	Upper
105	100		
122	77.9	59.9	89.9
77	74.5	60.1	90.1

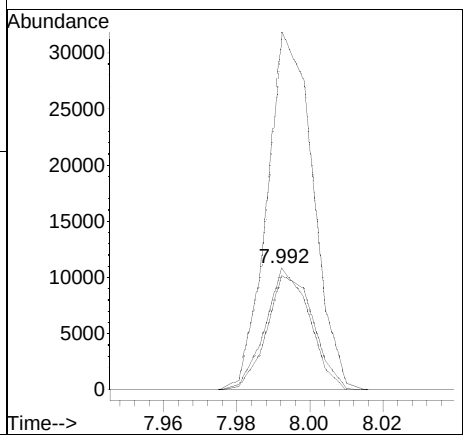


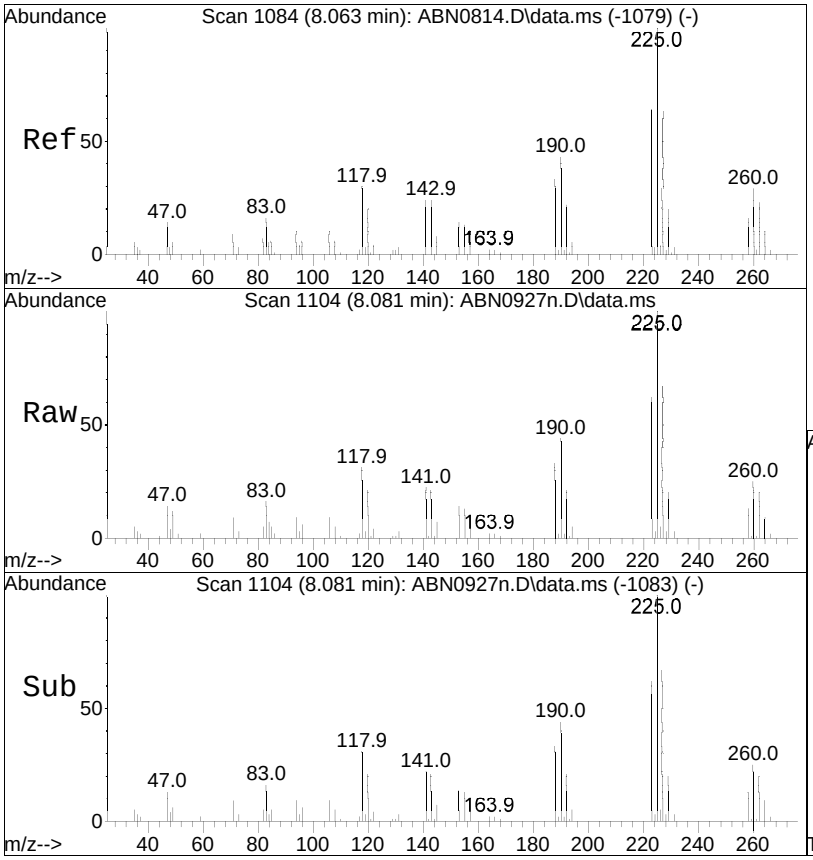


#38
4-Chloroaniline
Concen: 5.20 ug/ml
RT: 7.992 min Scan# 1089
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 65 Resp: 9019

Ion	Ratio	Lower	Upper
65	100		
127	305.2	237.6	356.4
129	100.0	76.3	114.5

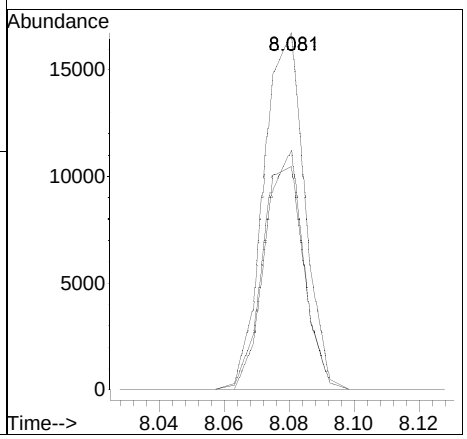


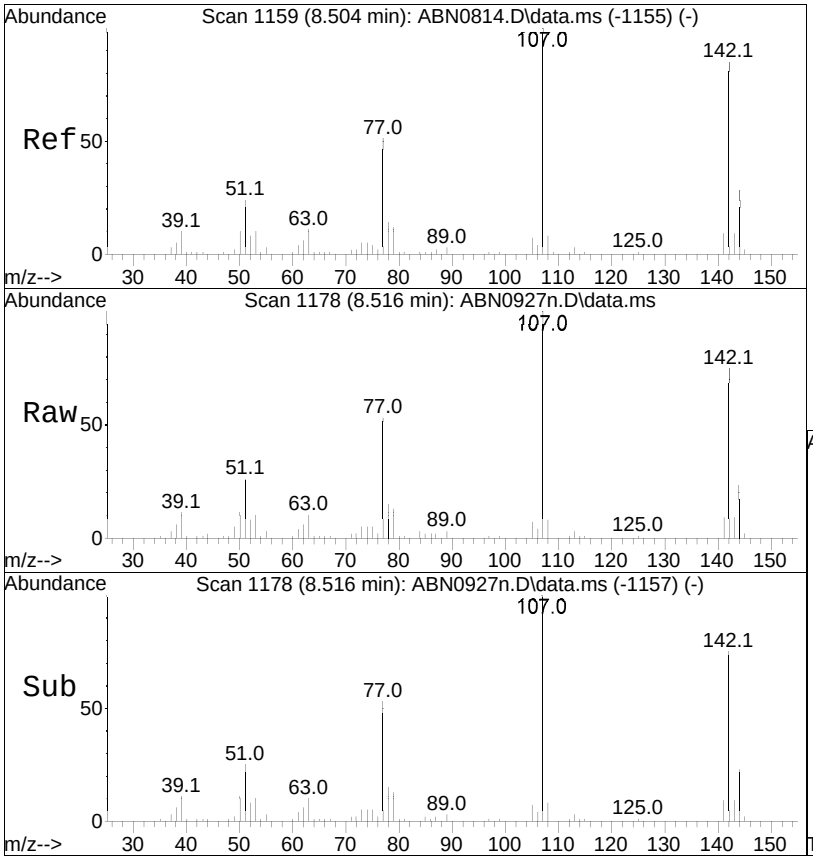


#39
Hexachlorobutadiene
Concen: 4.77 ug/ml
RT: 8.081 min Scan# 1104
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:225 Resp: 14664

Ion	Ratio	Lower	Upper
225	100		
223	64.4	50.3	75.5
227	63.1	52.2	78.2

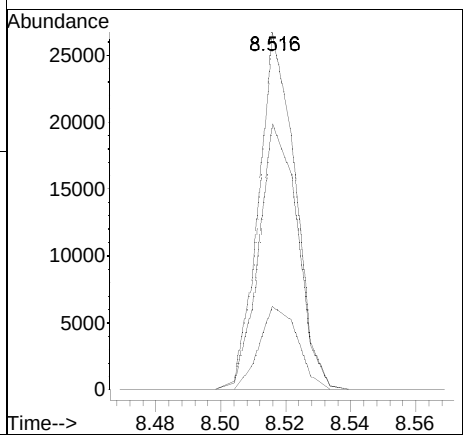


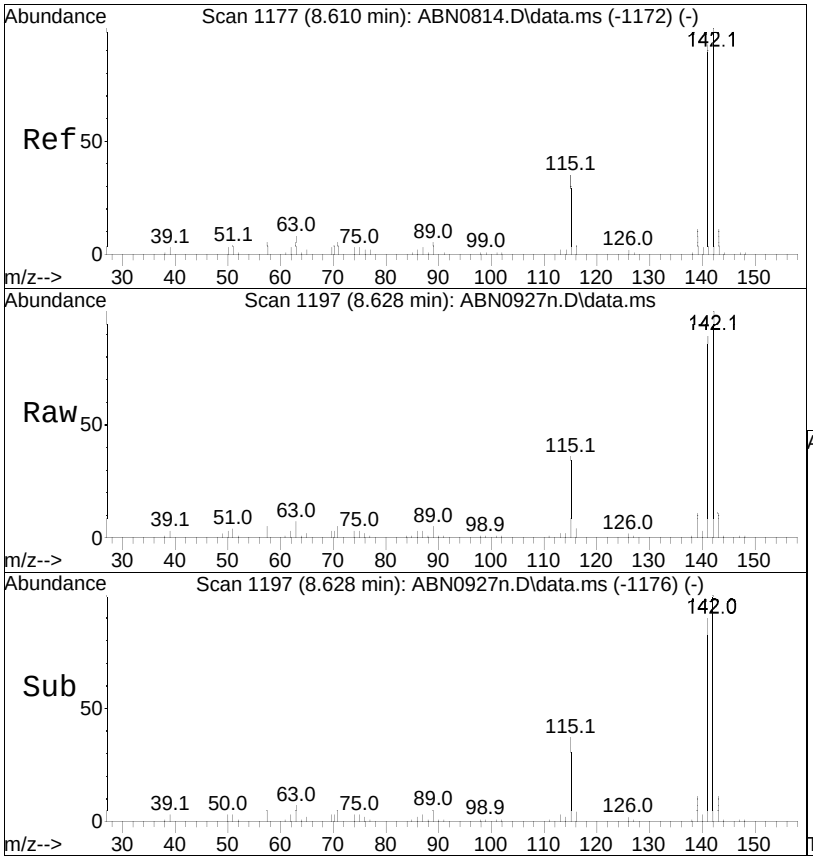


#40
p-Chloro-m-cresol
Concen: 5.32 ug/ml
RT: 8.516 min Scan# 1178
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:107 Resp: 20683

Ion	Ratio	Lower	Upper
107	100		
144	24.5	20.9	31.3
142	79.0	66.1	99.1

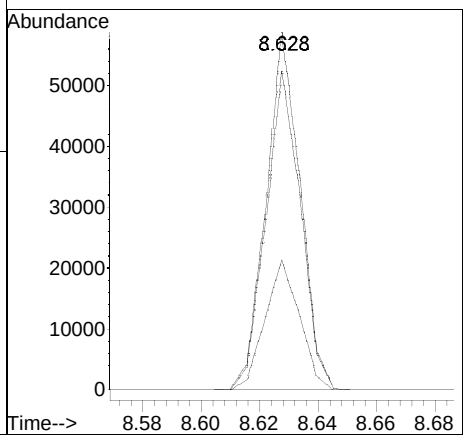


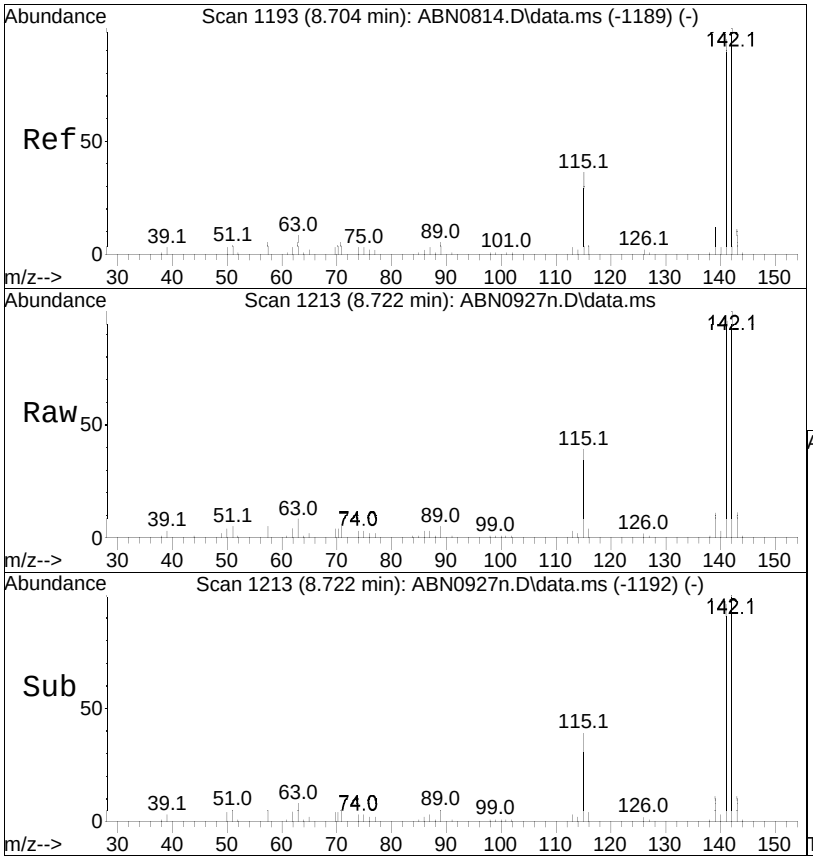


#41
2-Methylnaphthalene
Concen: 4.64 ug/ml
RT: 8.628 min Scan# 1197
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:142 Resp: 46978

Ion	Ratio	Lower	Upper
142	100		
141	90.6	69.6	104.4
115	36.8	26.6	40.0

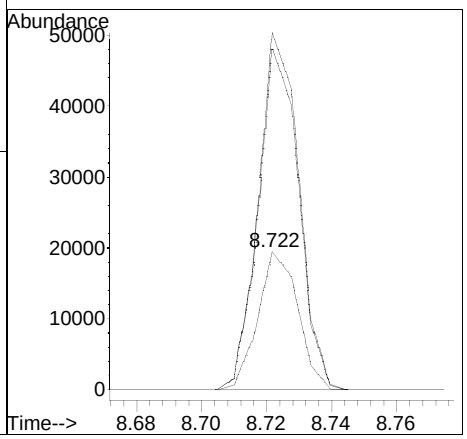


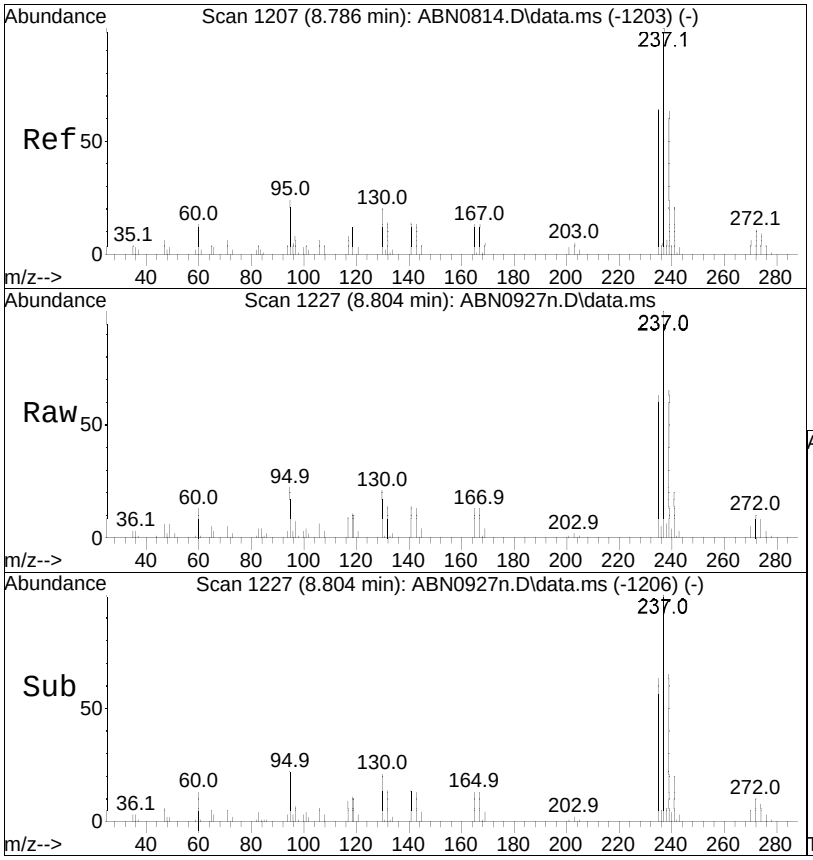


#42
1-Methylnaphthalene
Concen: 5.07 ug/ml
RT: 8.722 min Scan# 1213
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:115 Resp: 16583

Ion	Ratio	Lower	Upper
115	100		
141	247.7	207.8	311.6
142	259.9	226.8	340.2

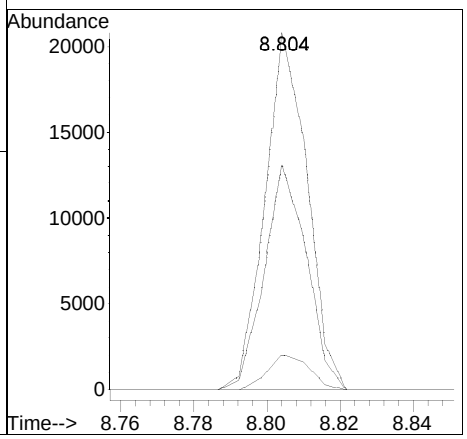


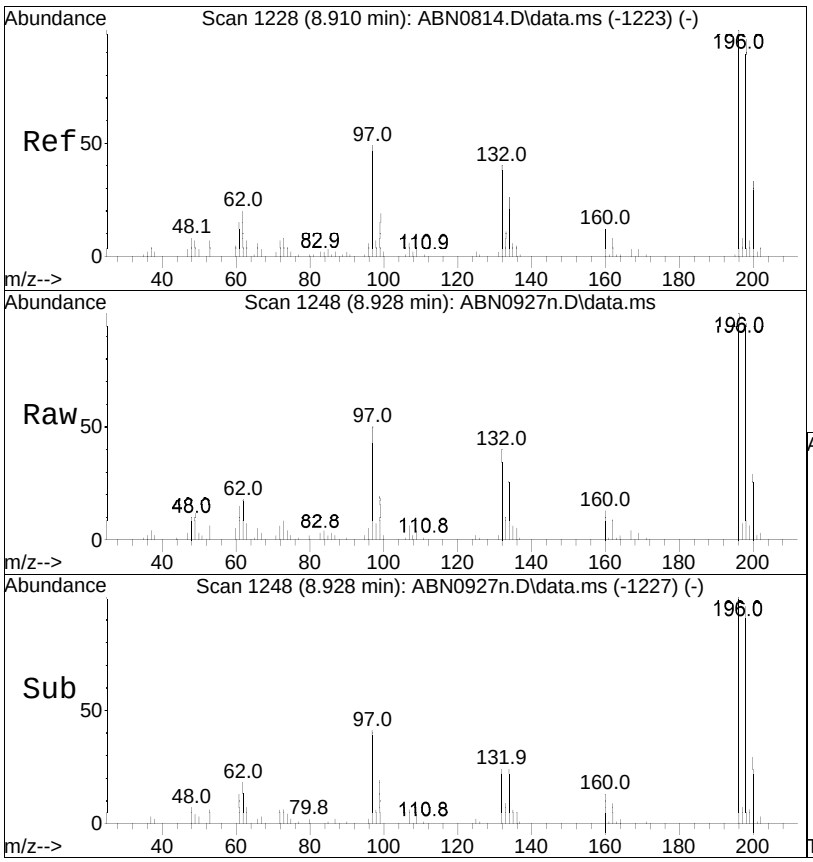


#43
Hexachlorocyclopentadiene
Concen: 5.70 ug/ml
RT: 8.804 min Scan# 1227
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:237 Resp: 16577

Ion	Ratio	Lower	Upper
237	100		
235	63.4	49.7	74.5
272	9.9	9.8	14.6

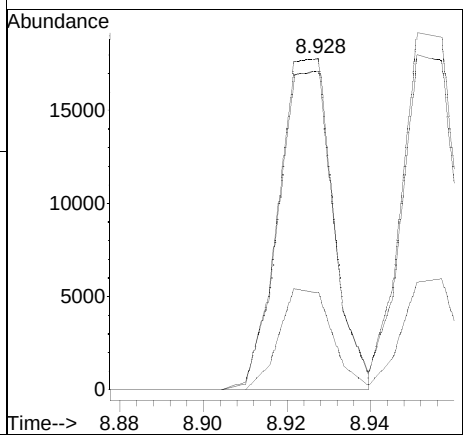


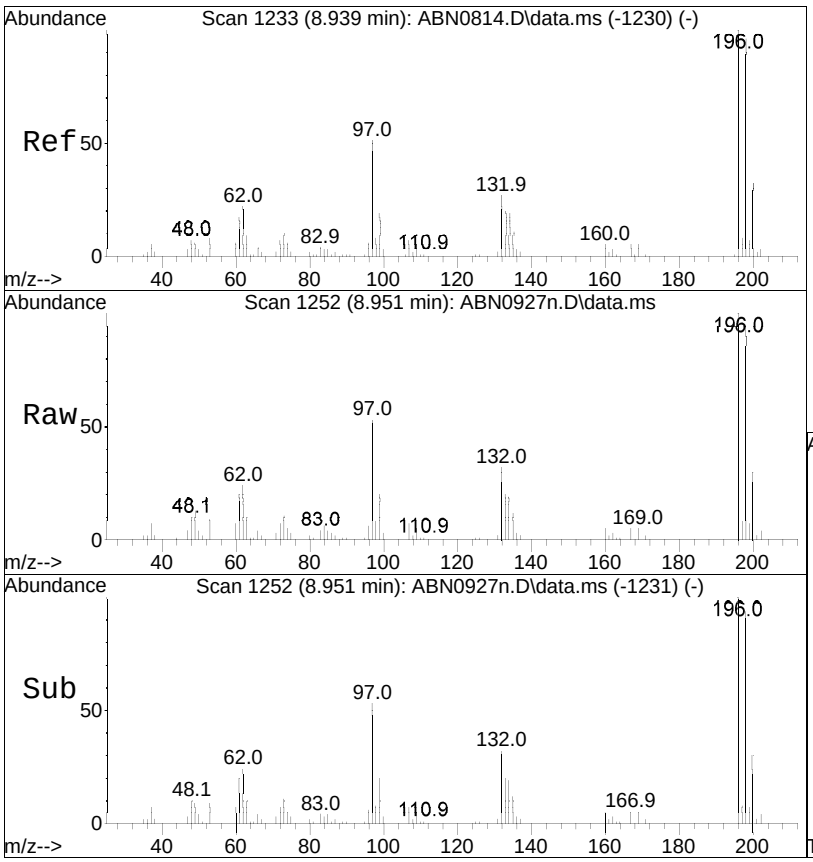


#44
2,4,6-Trichlorophenol
Concen: 5.04 ug/ml
RT: 8.928 min Scan# 1248
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:196 Resp: 16190

Ion	Ratio	Lower	Upper
196	100		
198	96.9	77.5	116.3
200	29.4	23.8	35.6

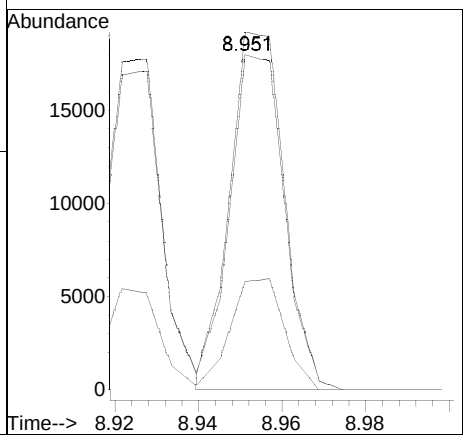


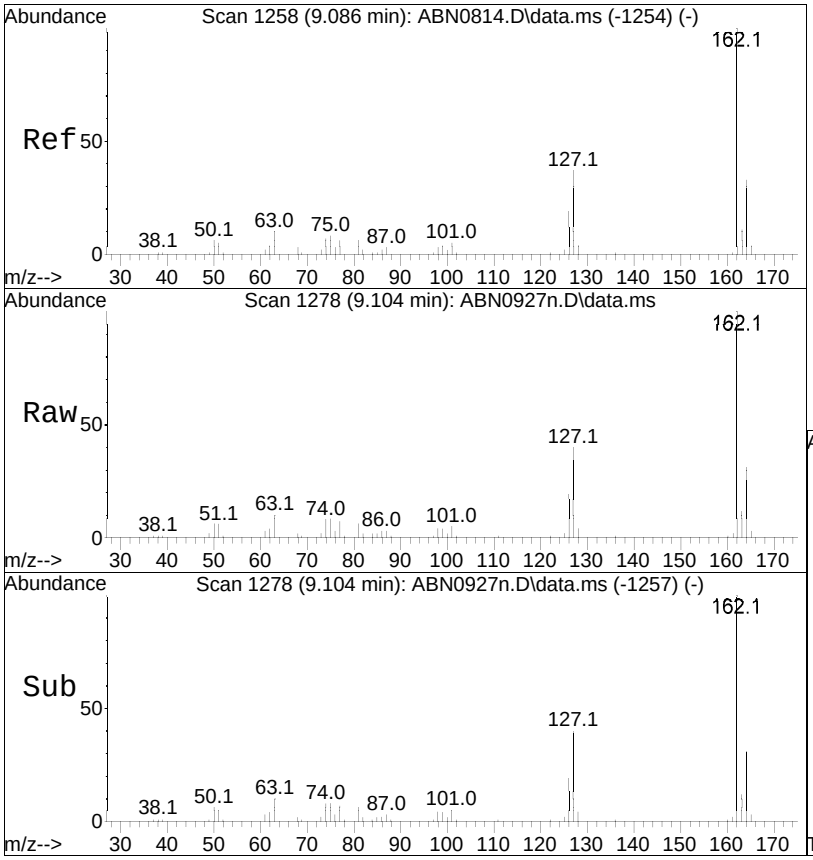


#45
2,4,5-Trichlorophenol
Concen: 5.07 ug/ml
RT: 8.951 min Scan# 1252
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:196 Resp: 17325

Ion	Ratio	Lower	Upper
196	100		
200	30.6	25.4	38.0
198	93.3	78.0	117.0

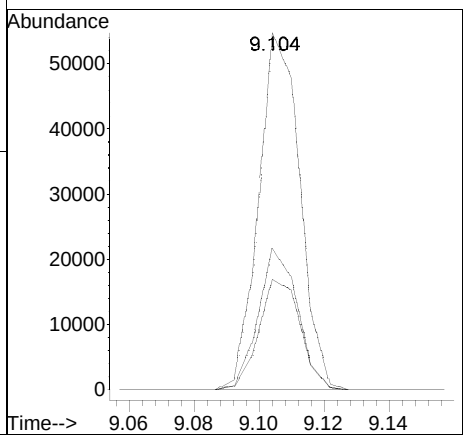


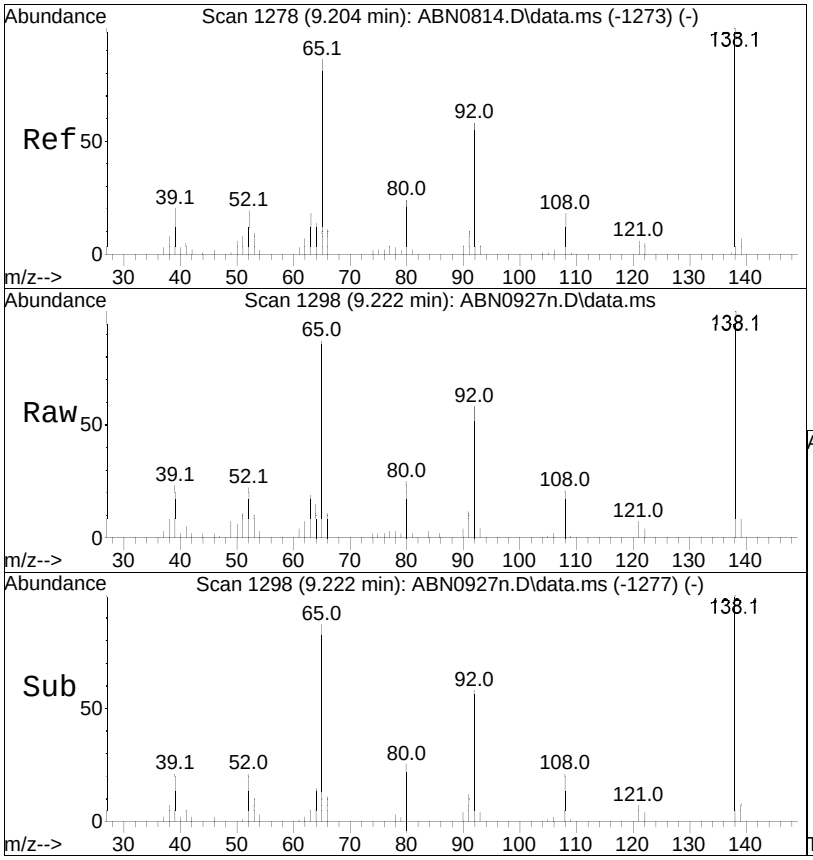


#47
2-Chloronaphthalene
Concen: 4.54 ug/ml
RT: 9.104 min Scan# 1278
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:162 Resp: 47581

Ion	Ratio	Lower	Upper
162	100		
127	38.1	32.2	48.4
164	31.3	25.7	38.5

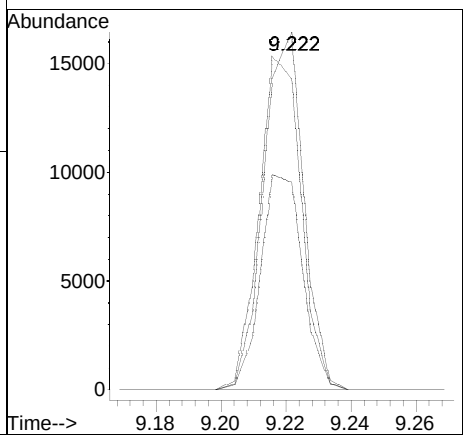


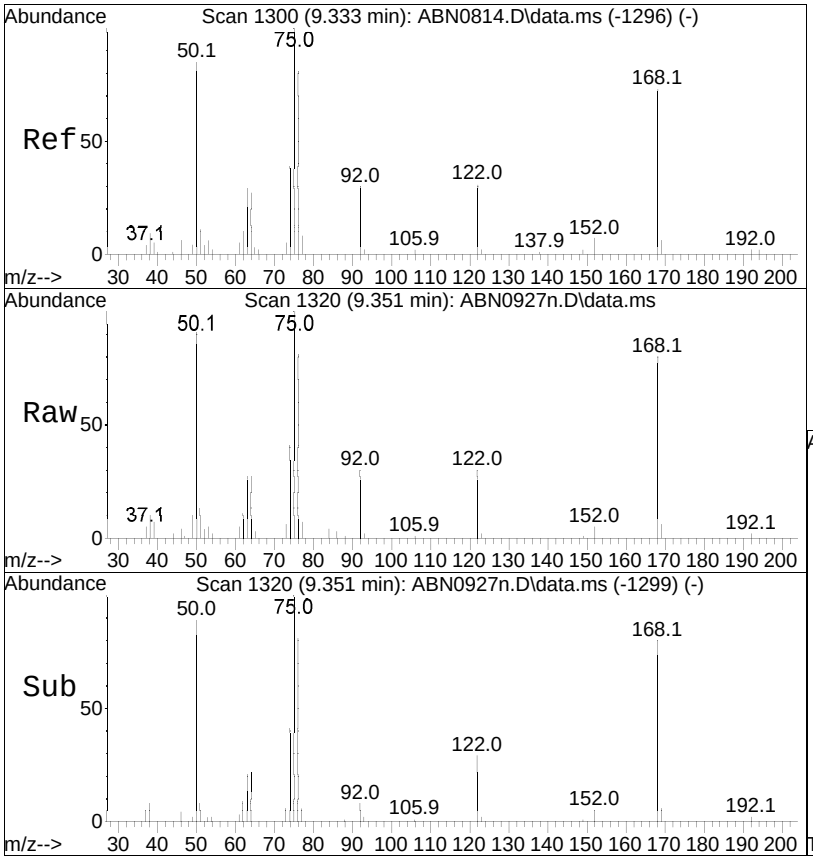


#48
2-Nitroaniline
Concen: 5.01 ug/ml
RT: 9.222 min Scan# 1298
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:138 Resp: 14050

Ion	Ratio	Lower	Upper
138	100		
92	62.8	53.5	80.3
65	97.2	86.3	129.5

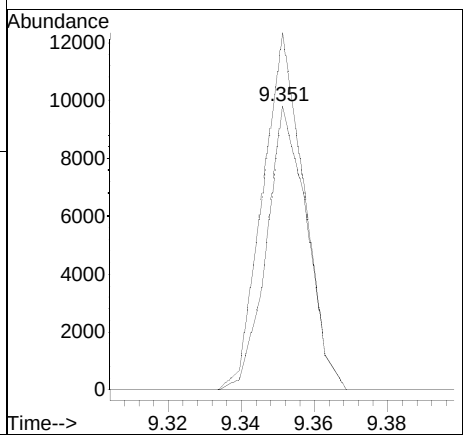


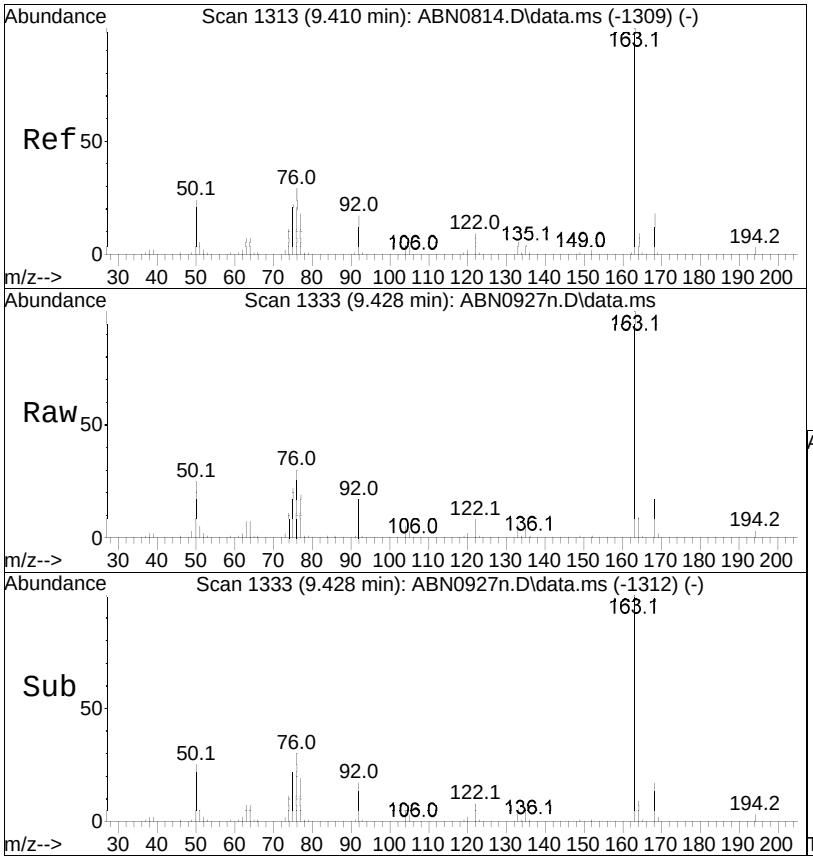


#49
1,4-Dinitrobenzene
Concen: 4.98 ug/ml
RT: 9.351 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:168 Resp: 7514

Ion	Ratio	Lower	Upper
168	100		
75	128.8	121.8	182.8

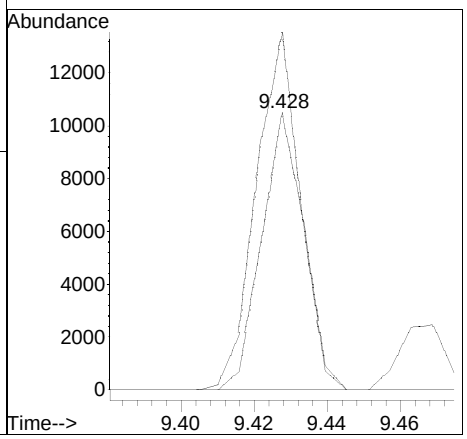


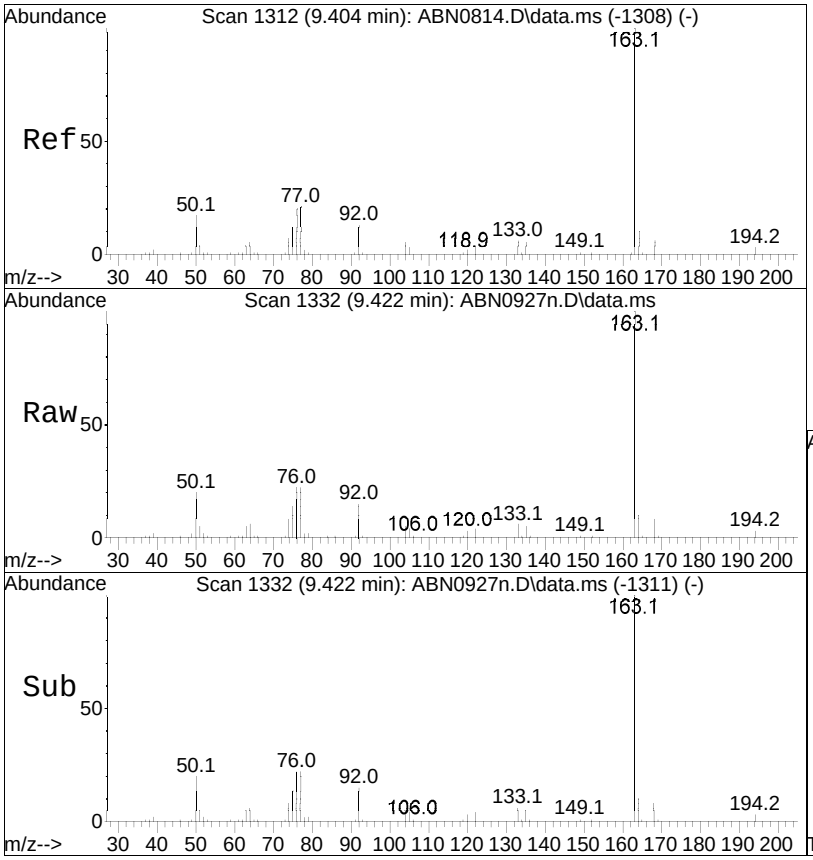


#50
1,3-Dinitrobenzene
Concen: 4.74 ug/ml
RT: 9.428 min Scan# 1333
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:168 Resp: 8399

Ion	Ratio	Lower	Upper
168	100		
75	133.6	22.7	34.1#

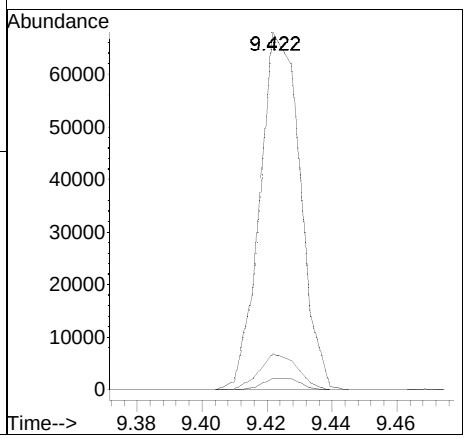


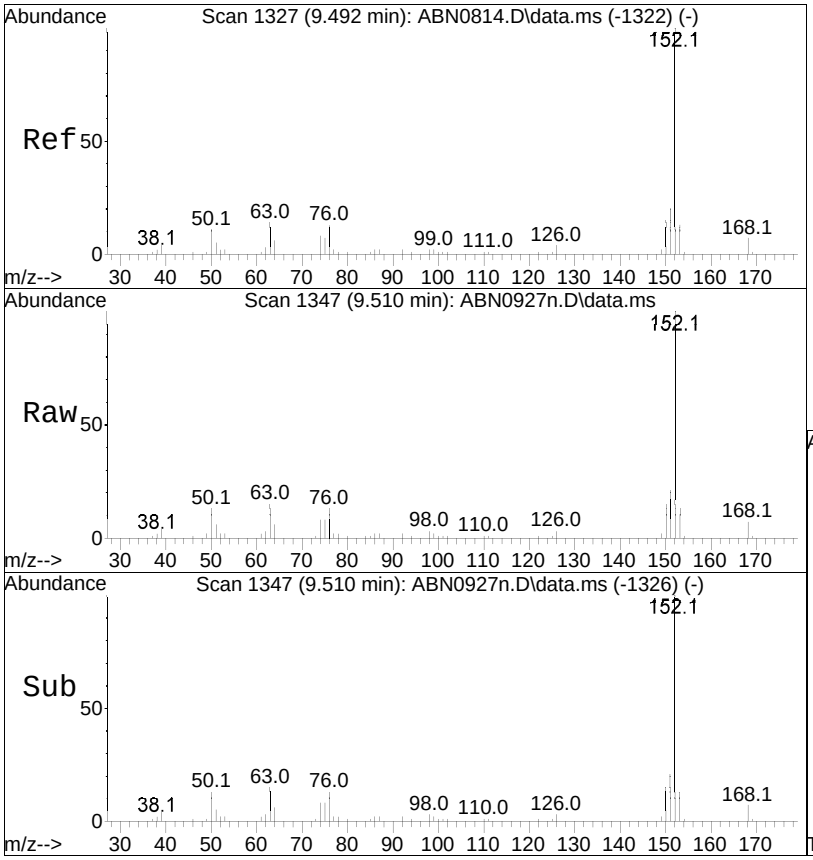


#51
Dimethyl phthalate
Concen: 4.90 ug/ml
RT: 9.422 min Scan# 1332
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:163 Resp: 58082

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	9.8	7.9	11.9

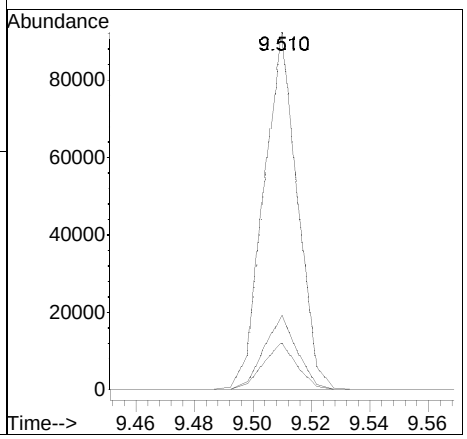


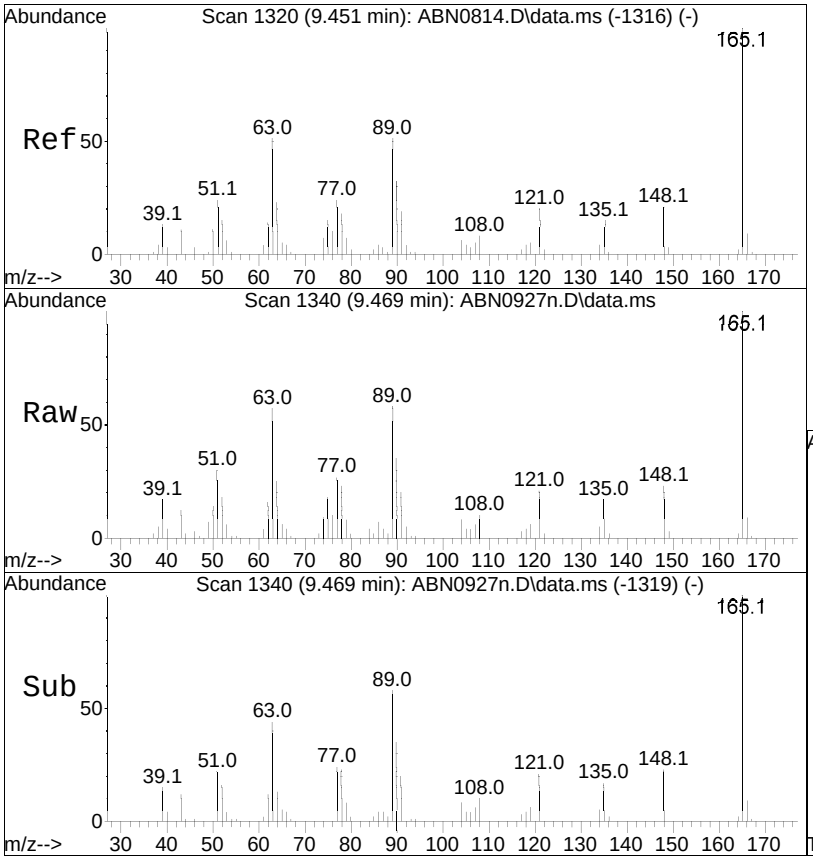


#52
Acenaphthylene
Concen: 4.69 ug/ml
RT: 9.510 min Scan# 1347
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:152 Resp: 73023

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.6
153	13.1	10.5	15.7

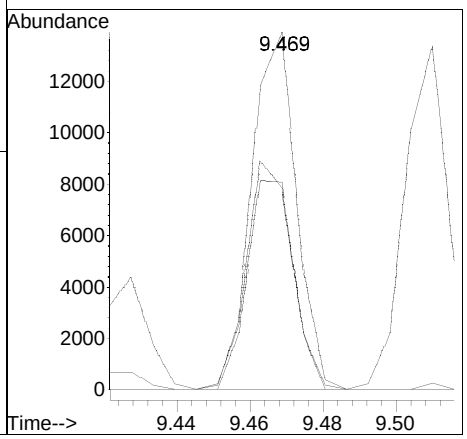


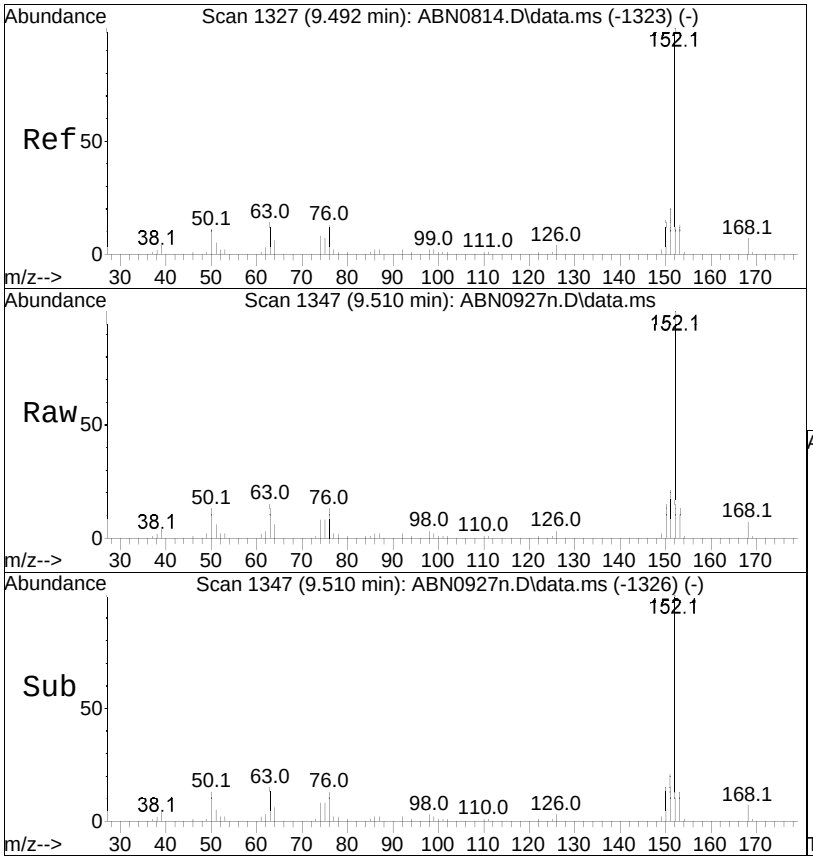


#53
2,6-Dinitrotoluene
Concen: 5.13 ug/ml
RT: 9.469 min Scan# 1340
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:165 Resp: 11887

Ion	Ratio	Lower	Upper
165	100		
89	61.7	54.2	81.2
63	64.4	64.2	96.2

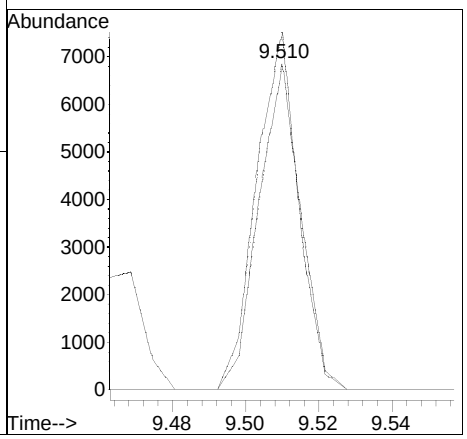


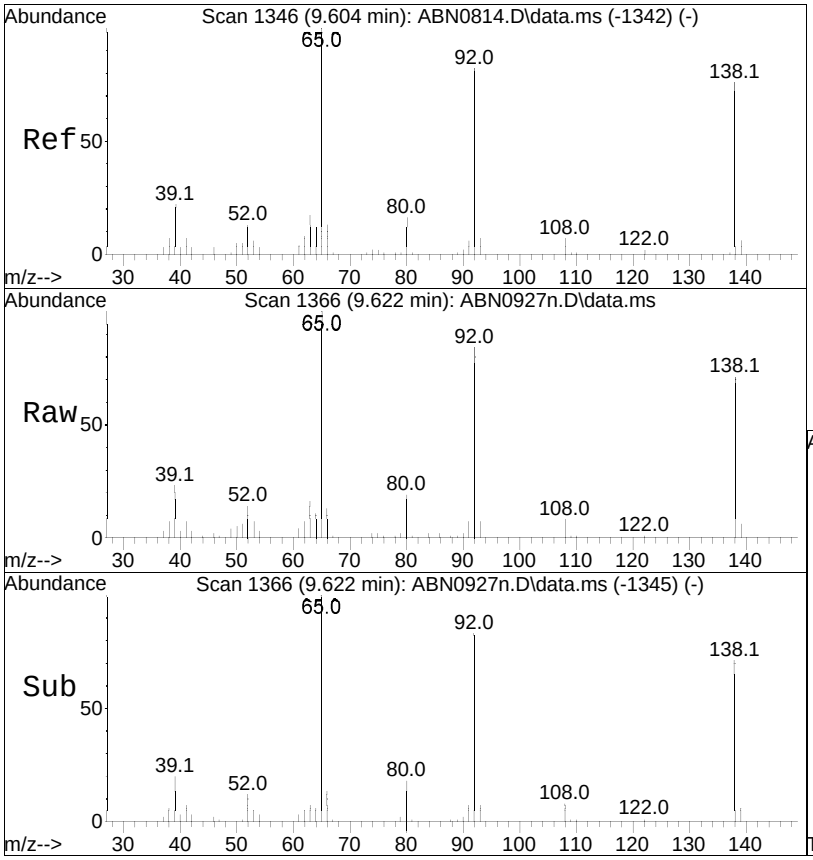


#54
1,2-Dinitrobenzene
Concen: 5.16 ug/ml
RT: 9.510 min Scan# 1347
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:168 Resp: 5433

Ion	Ratio	Lower	Upper
168	100		
75	110.0	30.9	46.3#

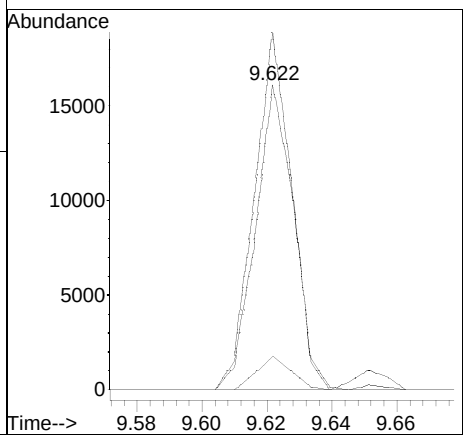


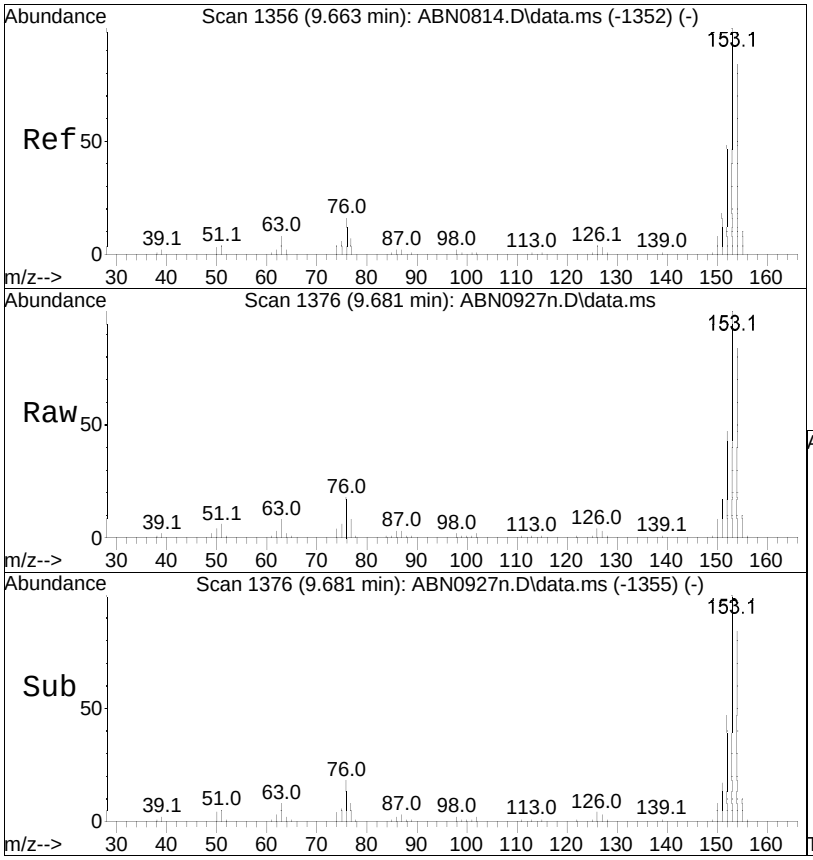


#64
3-Nitroaniline
Concen: 4.85 ug/ml
RT: 9.622 min Scan# 1366
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:138 Resp: 13061

Ion	Ratio	Lower	Upper
138	100		
92	114.4	93.4	140.2
108	10.1	9.5	14.3

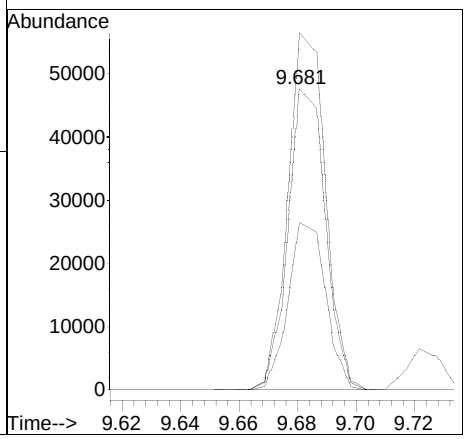


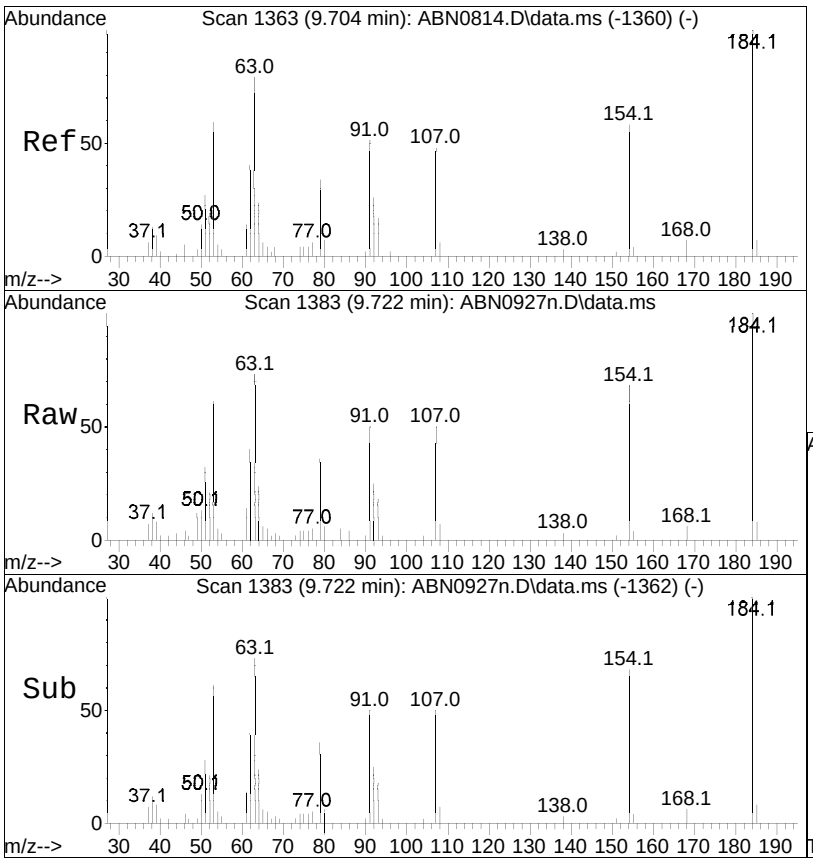


#65
Acenaphthene
Concen: 4.42 ug/ml
RT: 9.681 min Scan# 1376
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:154 Resp: 42349

Ion	Ratio	Lower	Upper
154	100		
153	119.3	85.3	127.9
152	56.1	41.4	62.0

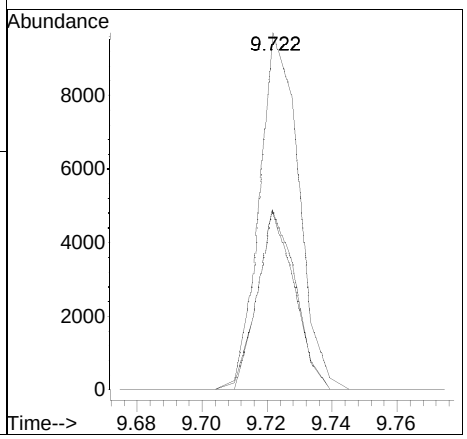


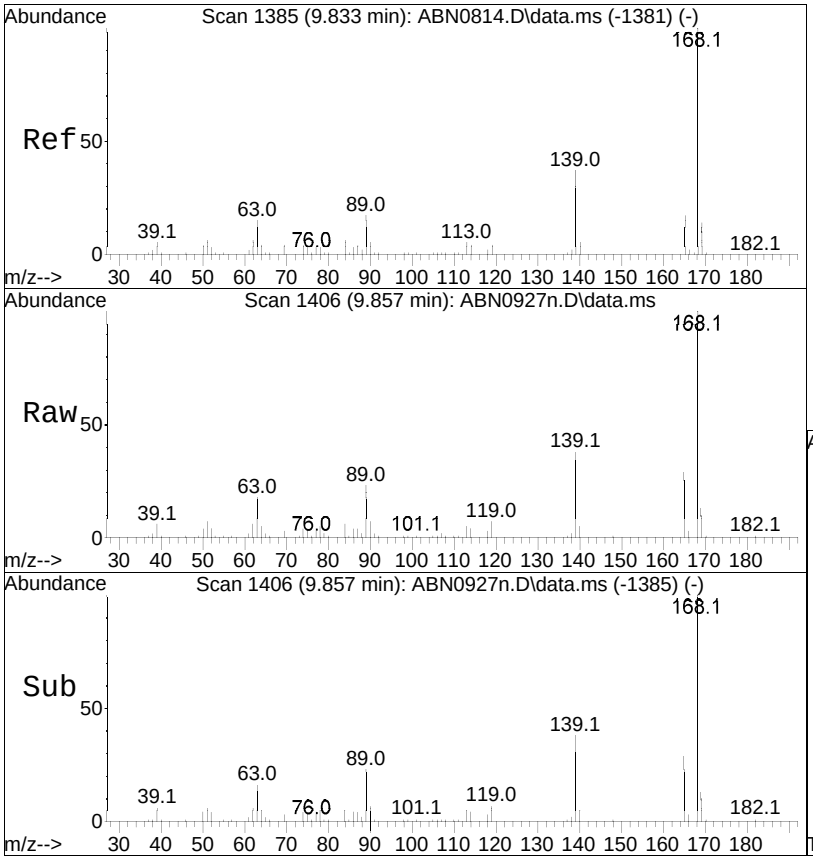


#66
2,4-Dinitrophenol
Concen: 5.21 ug/ml
RT: 9.722 min Scan# 1383
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:184 Resp: 8137

Ion	Ratio	Lower	Upper
184	100		
107	49.0	37.7	56.5
91	47.0	46.3	69.5

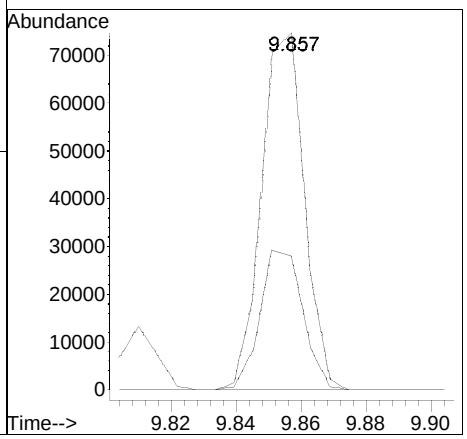


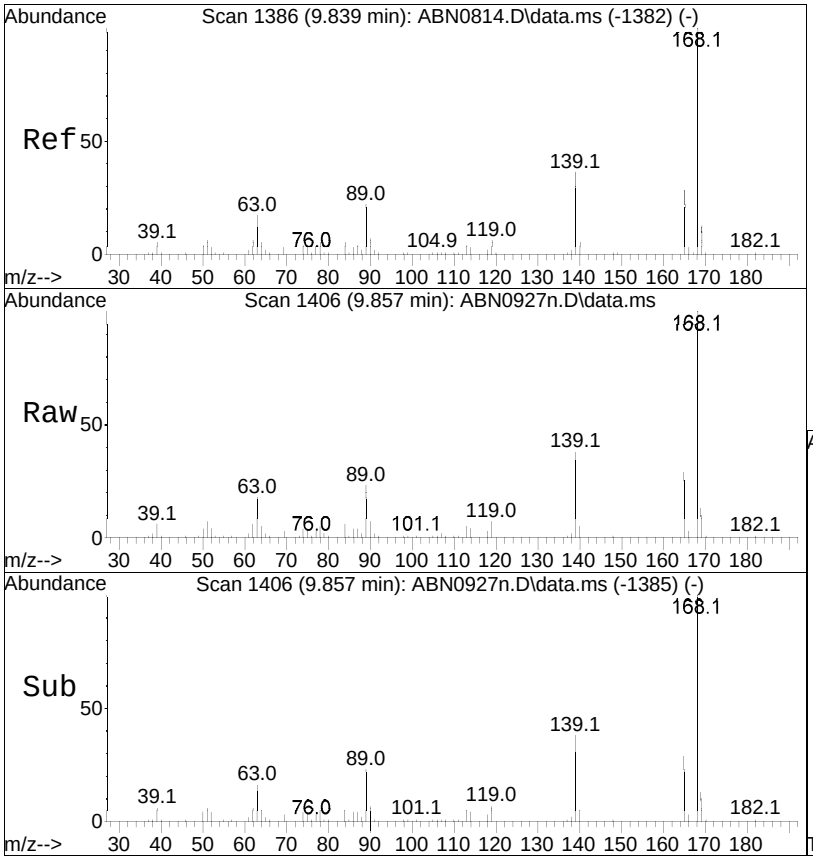


#67
Dibenzofuran
Concen: 4.29 ug/ml
RT: 9.857 min Scan# 1406
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:168 Resp: 67837

Ion	Ratio	Lower	Upper
168	100		
139	39.6	31.4	47.2

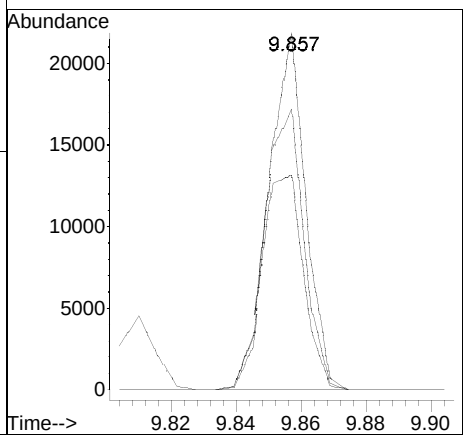


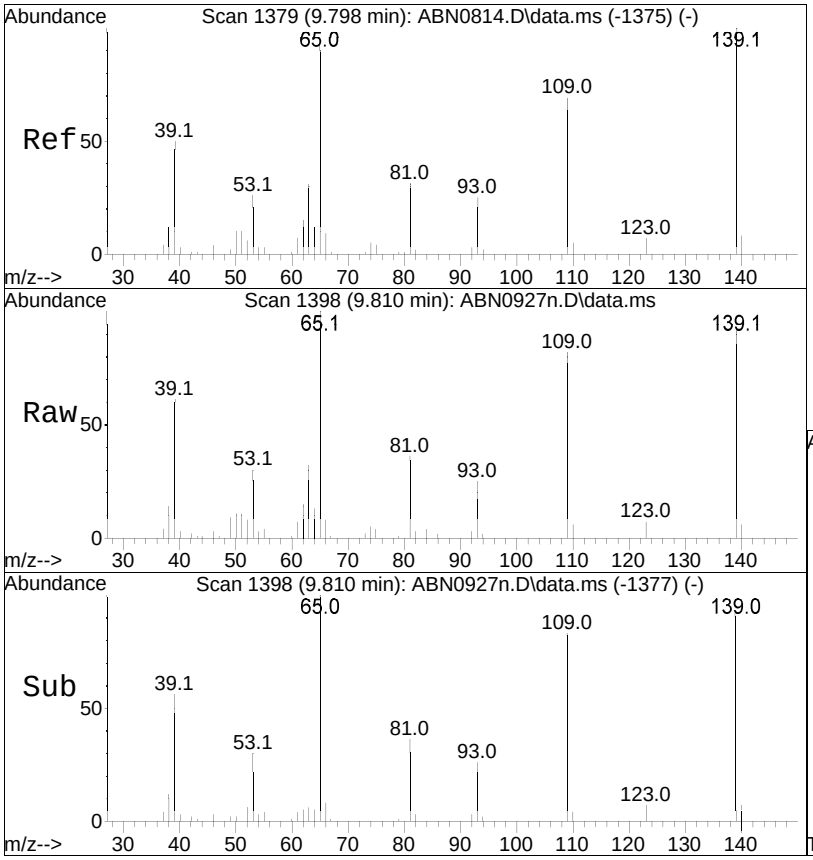


#68
2,4-Dinitrotoluene
Concen: 4.92 ug/ml
RT: 9.857 min Scan# 1406
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:165 Resp: 16905

Ion	Ratio	Lower	Upper
165	100		
89	85.2	72.0	108.0
63	69.7	52.7	79.1

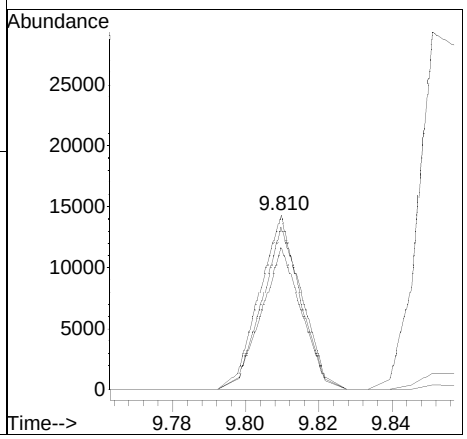


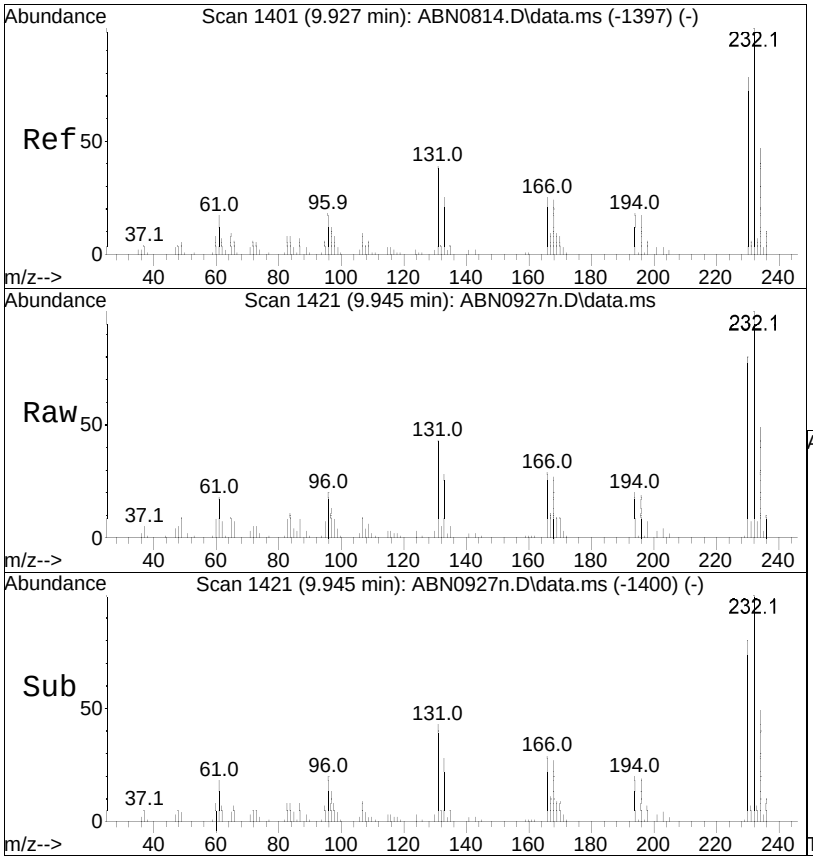


#69
4-Nitrophenol
Concen: 5.17 ug/ml
RT: 9.810 min Scan# 1398
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 65 Resp: 11016

Ion	Ratio	Lower	Upper
65	100		
109	80.9	47.4	71.2#
139	93.6	76.6	115.0

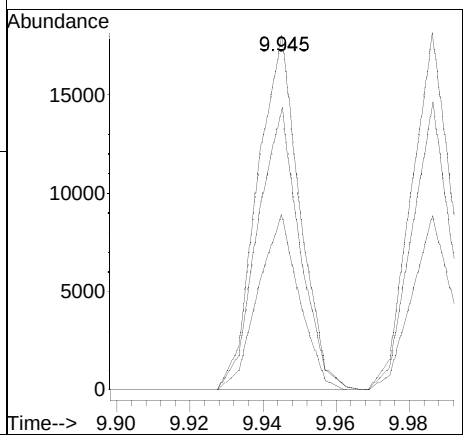


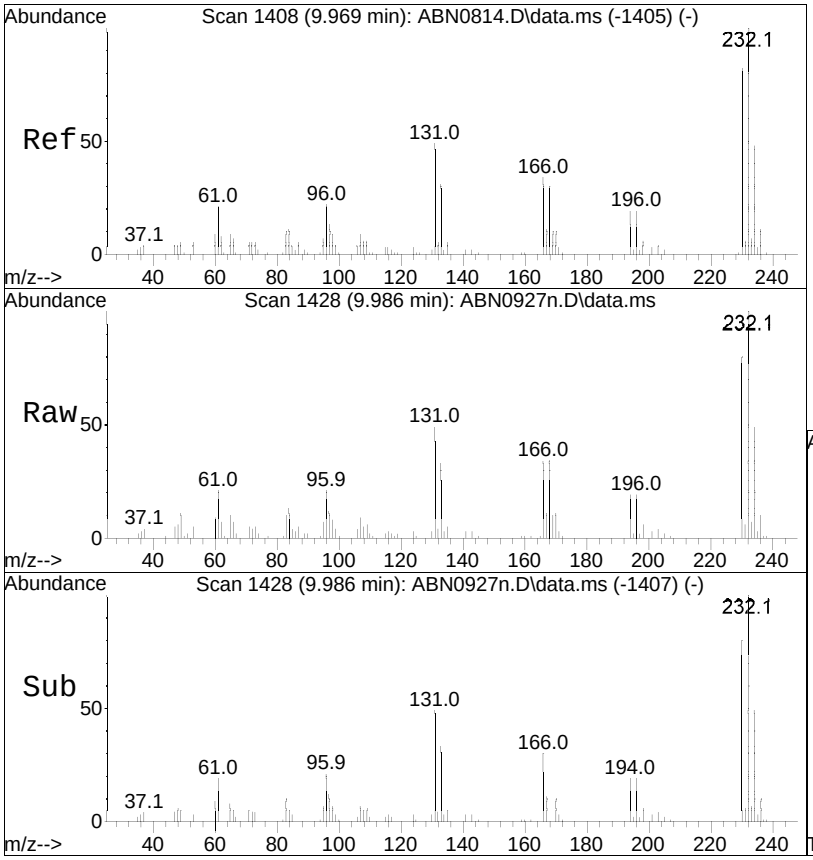


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.07 ug/ml
RT: 9.945 min Scan# 1421
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:232 Resp: 14561

Ion	Ratio	Lower	Upper
232	100		
230	79.1	64.2	96.4
234	47.8	38.1	57.1

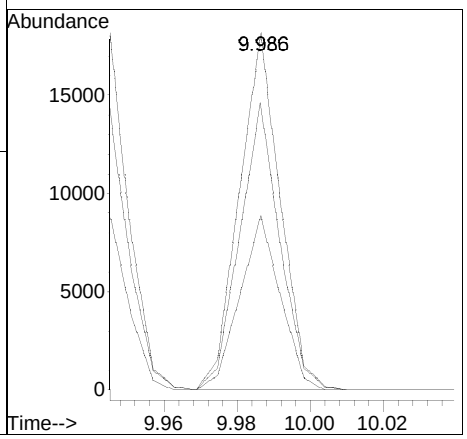


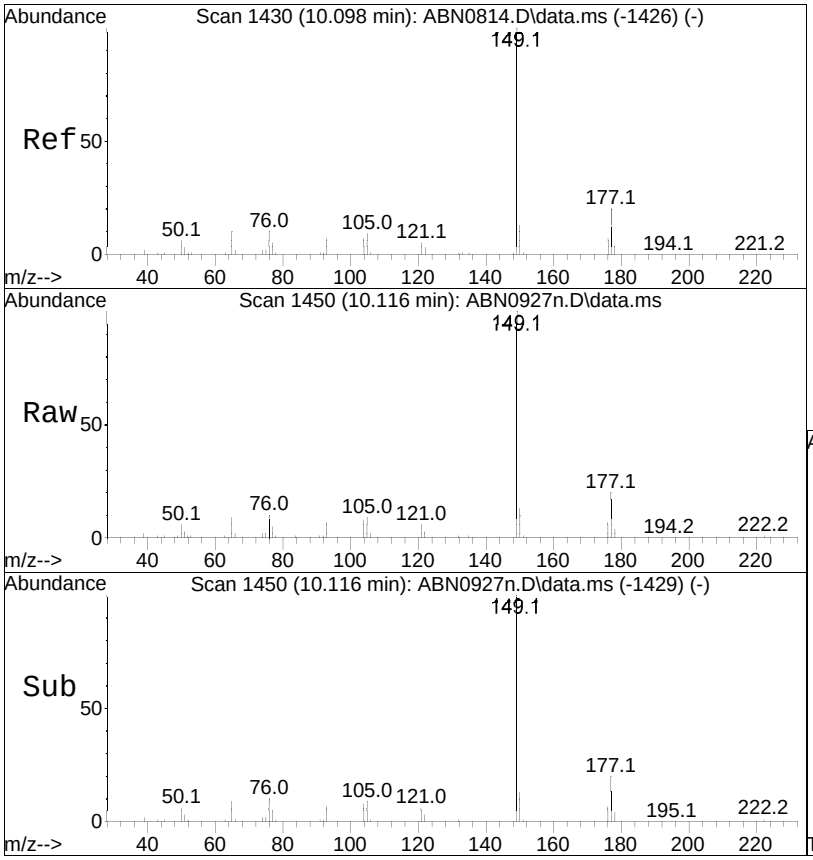


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.16 ug/ml
RT: 9.986 min Scan# 1428
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:232 Resp: 14129

Ion	Ratio	Lower	Upper
232	100		
230	78.6	61.8	92.8
234	48.2	36.2	54.2

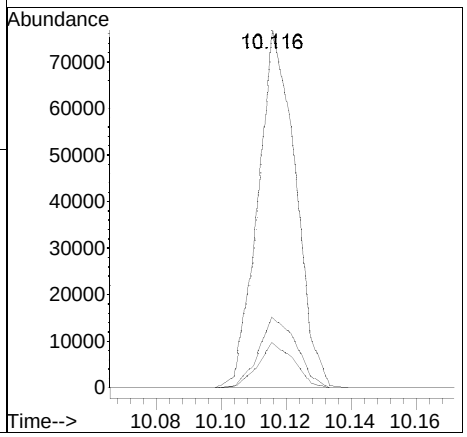


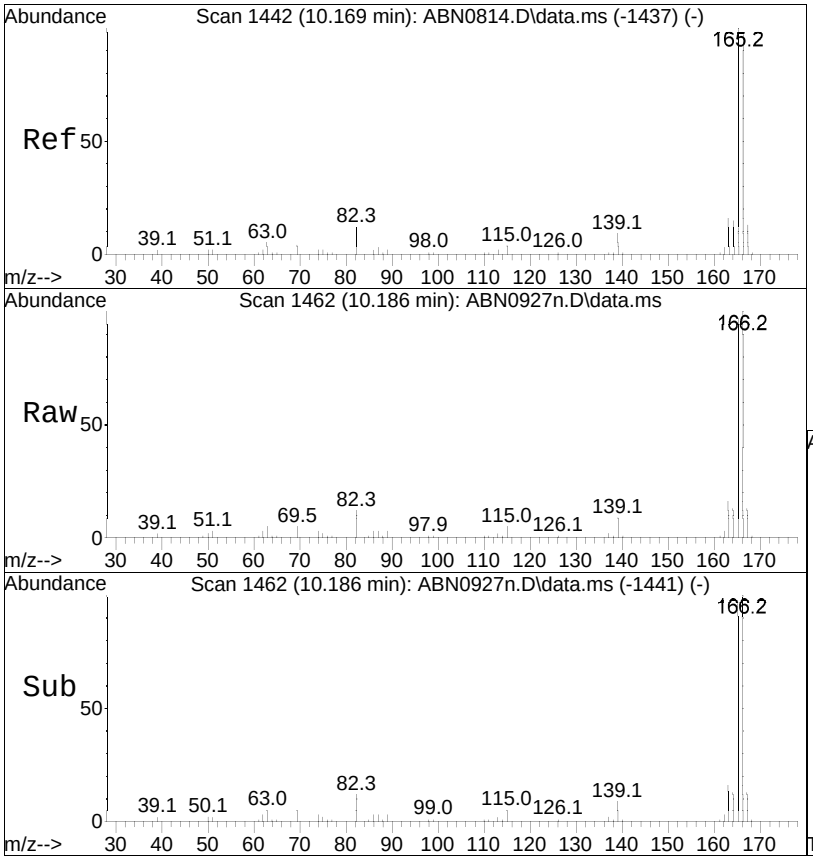


#72
Diethyl phthalate
Concen: 5.48 ug/ml
RT: 10.116 min Scan# 1450
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 61158

Ion	Ratio	Lower	Upper
149	100		
177	20.0	16.1	24.1
150	12.2	9.4	14.2

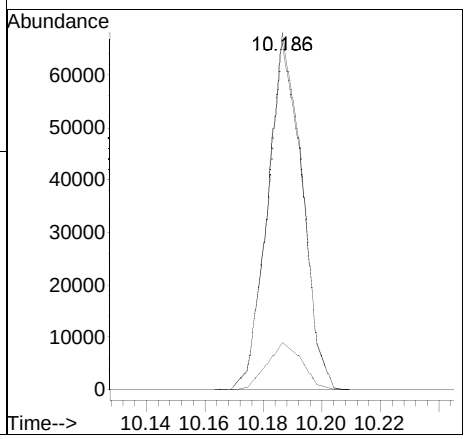


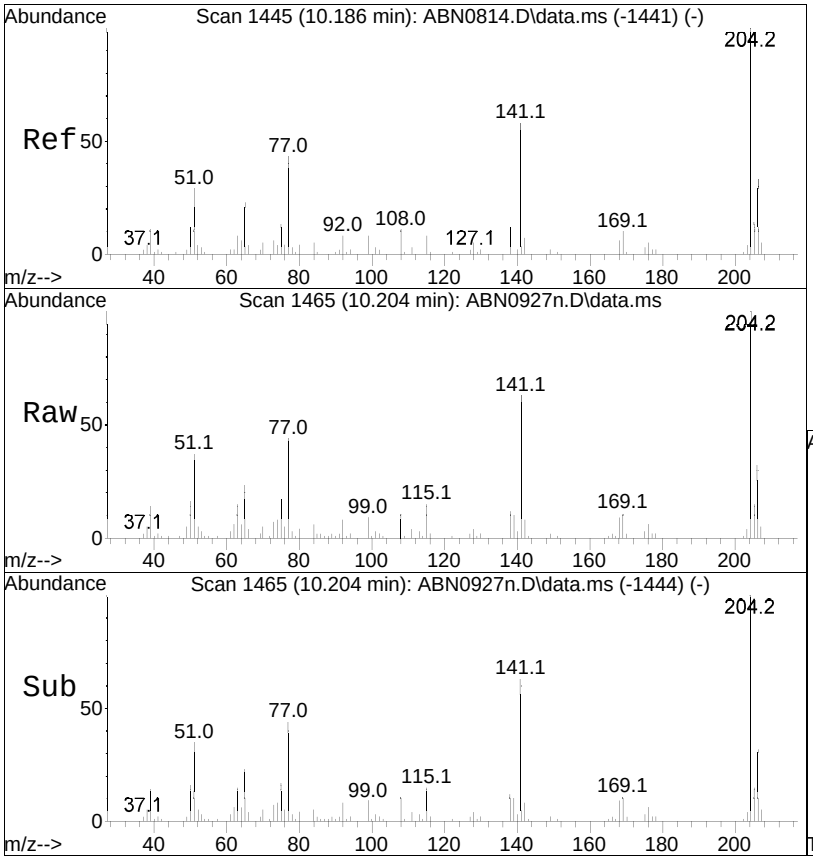


#73
Fluorene
Concen: 4.70 ug/ml
RT: 10.186 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:166 Resp: 55576

Ion	Ratio	Lower	Upper
166	100		
165	98.0	76.2	114.2
167	13.8	10.6	15.8

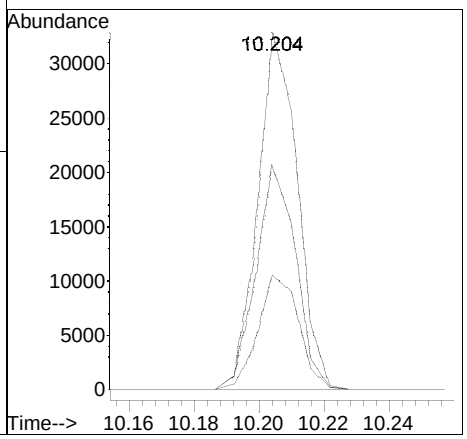


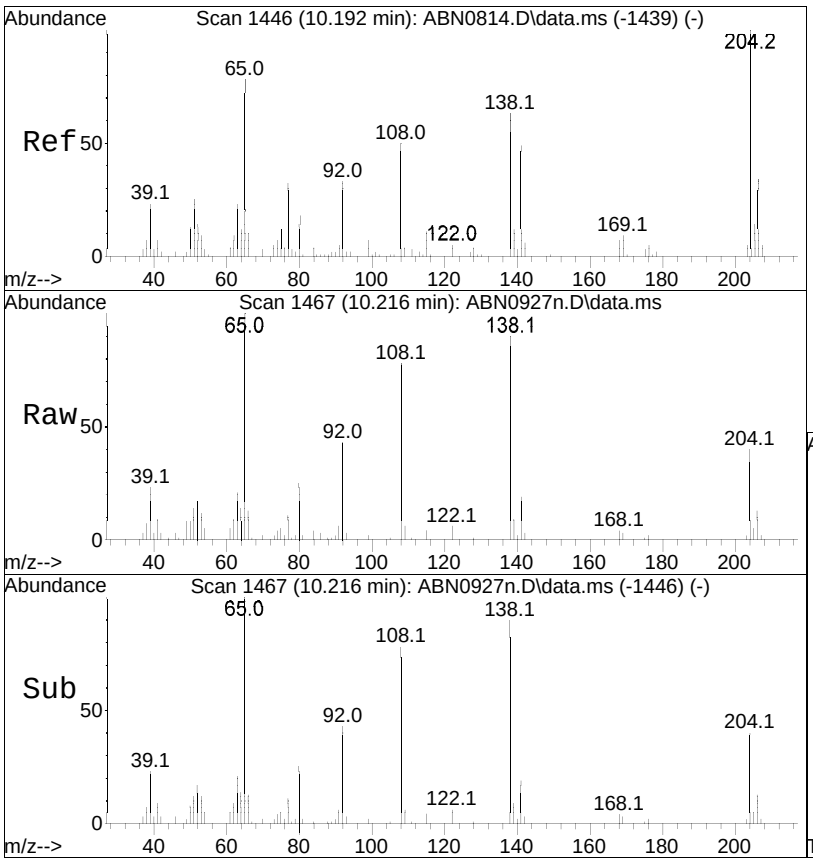


#74
4-Chlorophenyl phenyl ether
Concen: 4.58 ug/ml
RT: 10.204 min Scan# 1465
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:204 Resp: 27503

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	63.3	53.6	80.4

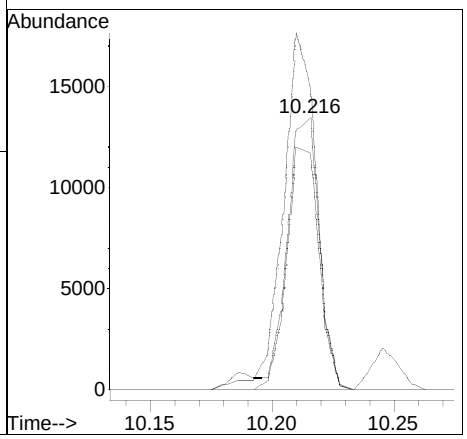


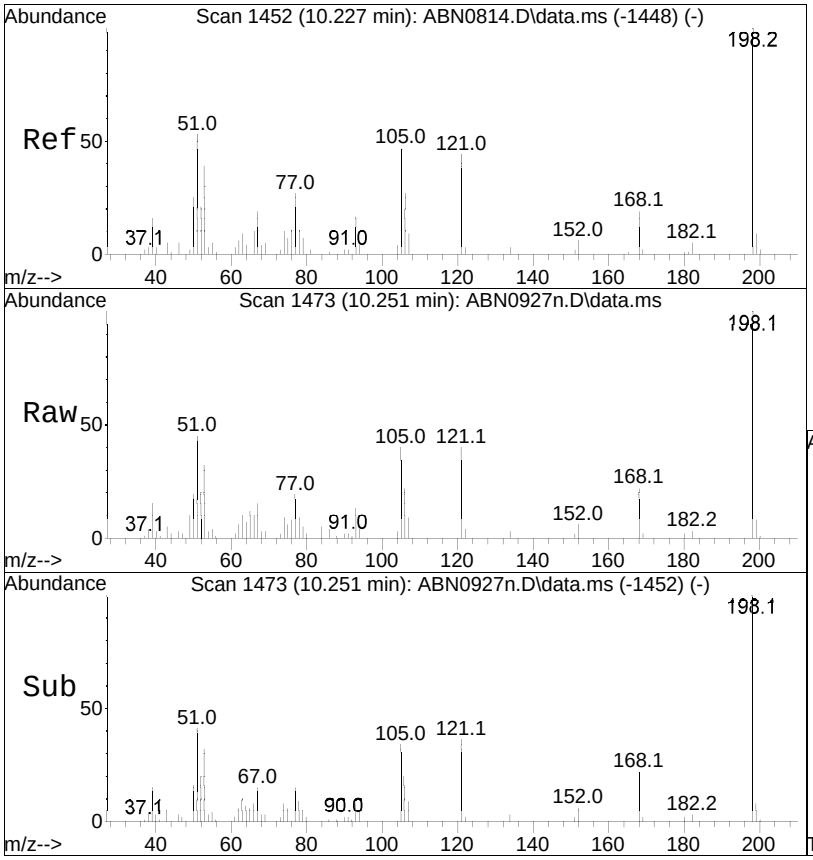


#75
4-Nitroaniline
Concen: 4.78 ug/ml
RT: 10.216 min Scan# 1467
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:138 Resp: 12881

Ion	Ratio	Lower	Upper
138	100		
108	84.7	52.1	78.1#
65	128.8	115.0	172.6

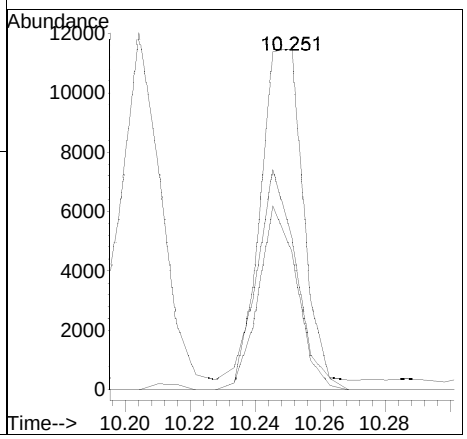


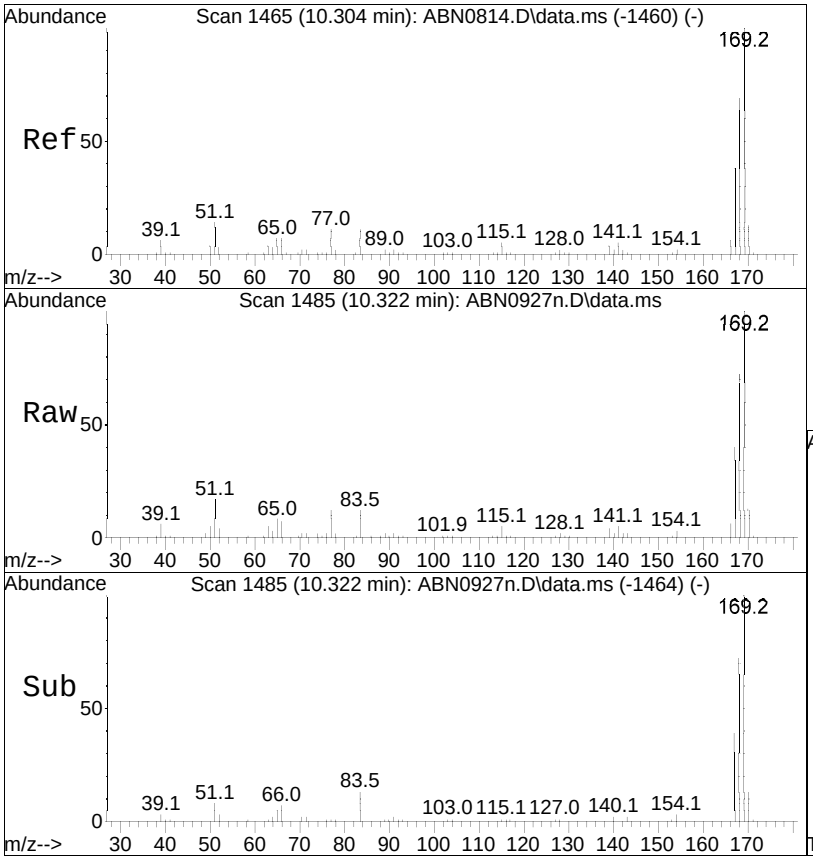


#76
4,6-Dinitro-o-cresol
Concen: 5.00 ug/ml
RT: 10.251 min Scan# 1473
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:198 Resp: 10543

Ion	Ratio	Lower	Upper
198	100		
51	53.5	76.0	114.0#
105	48.2	45.6	68.4

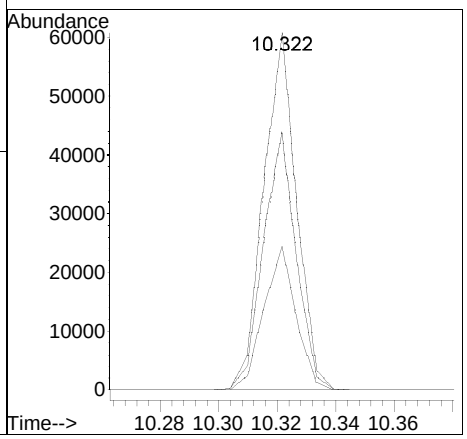


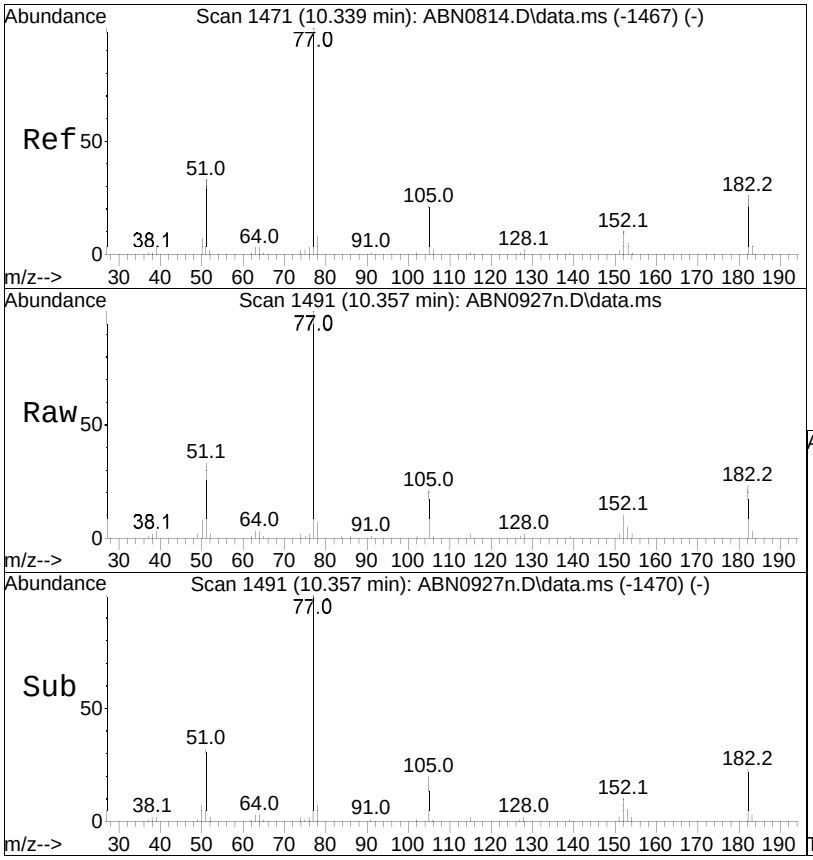


#77
NDPA/DPA
Concen: 4.81 ug/ml
RT: 10.322 min Scan# 1485
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:169 Resp: 47165

Ion	Ratio	Lower	Upper
169	100		
168	71.9	54.0	81.0
167	39.4	28.6	42.8

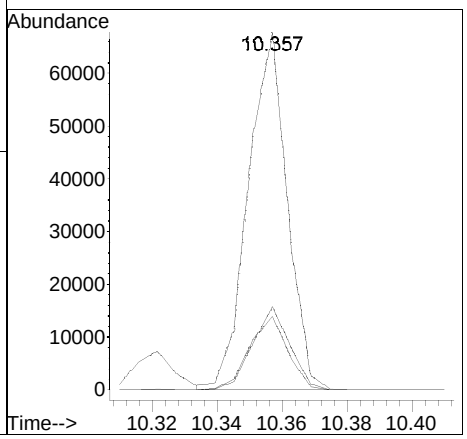


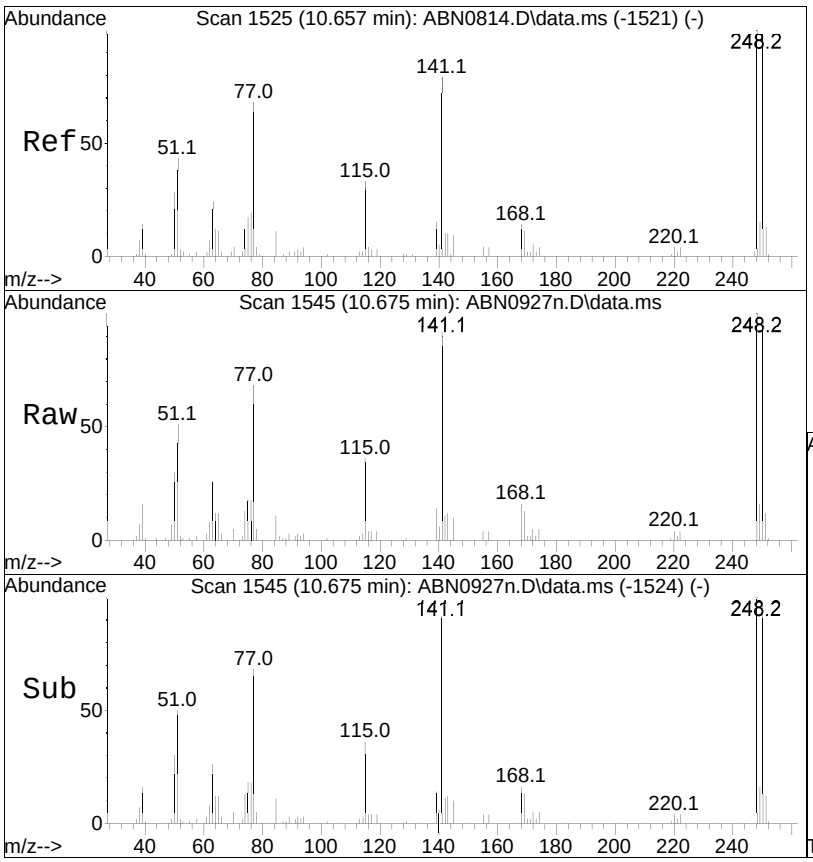


#78
Azobenzene
Concen: 5.41 ug/ml
RT: 10.357 min Scan# 1491
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 77 Resp: 55790

Ion	Ratio	Lower	Upper
77	100		
182	22.3	17.4	26.2
105	20.4	15.4	23.2

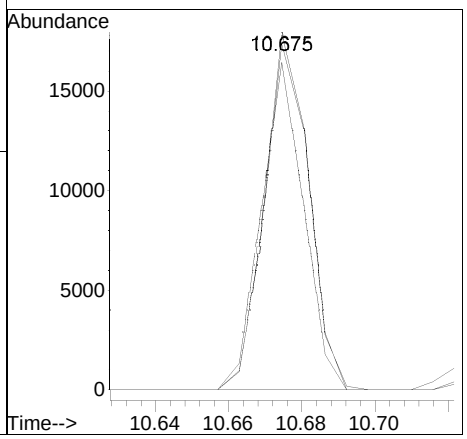


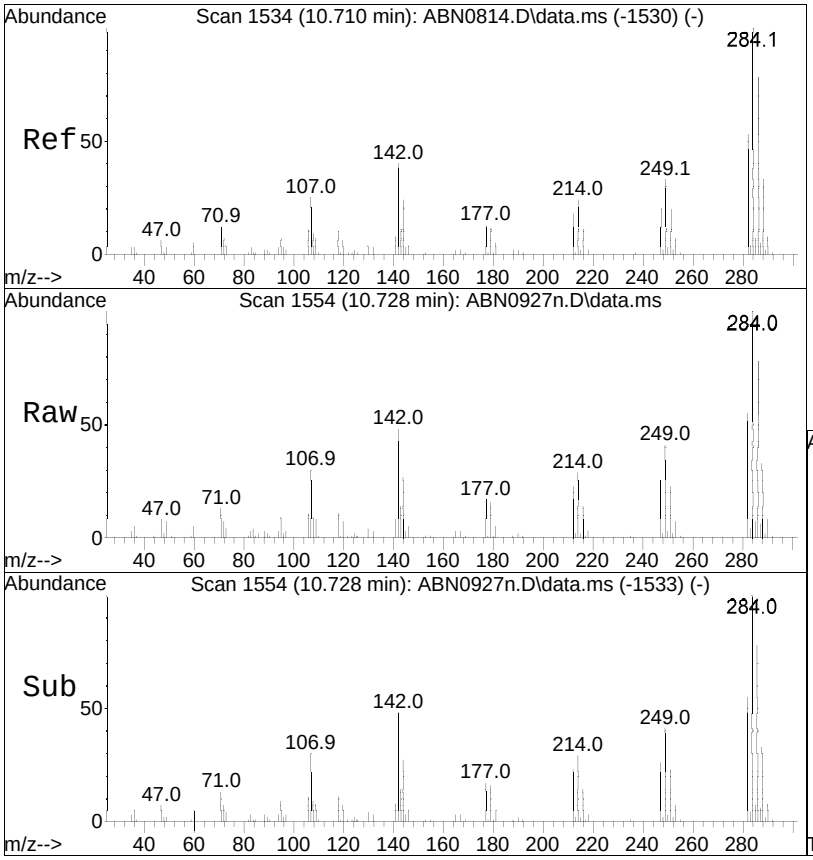


#80
4-Bromophenyl phenyl ether
Concen: 4.60 ug/ml
RT: 10.675 min Scan# 1545
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:248 Resp: 14912

Ion	Ratio	Lower	Upper
248	100		
141	88.3	76.6	114.8
250	98.3	77.3	115.9

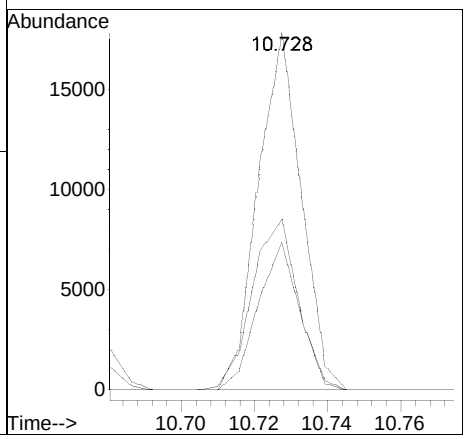


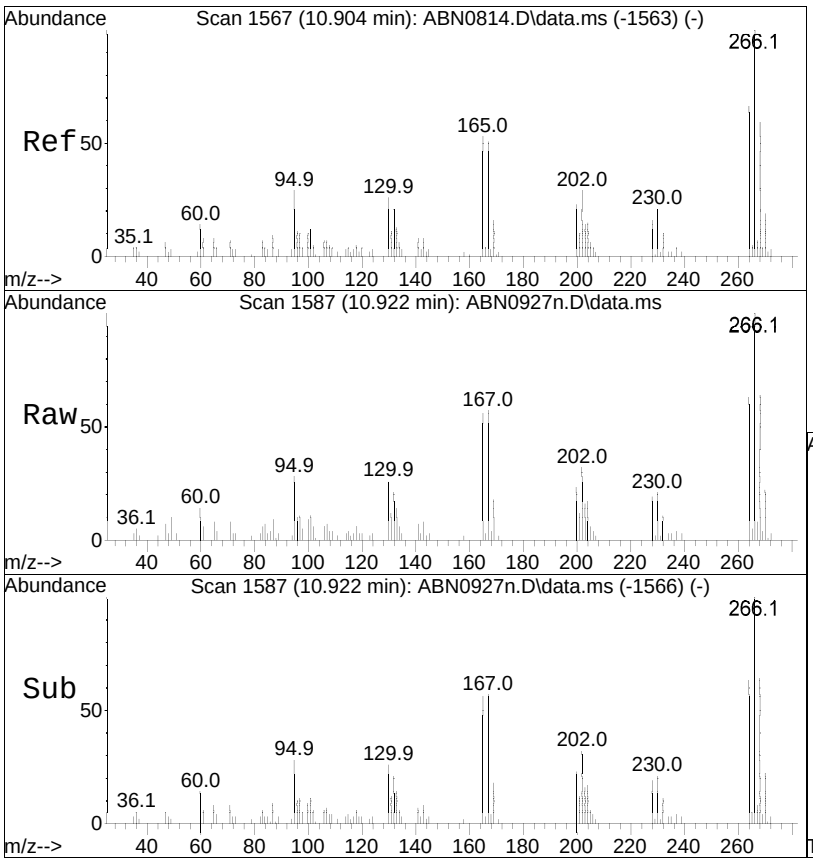


#81
Hexachlorobenzene
Concen: 4.07 ug/ml
RT: 10.728 min Scan# 1554
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:284 Resp: 14542

Ion	Ratio	Lower	Upper
284	100		
142	51.0	41.9	62.9
249	40.3	24.1	36.1#

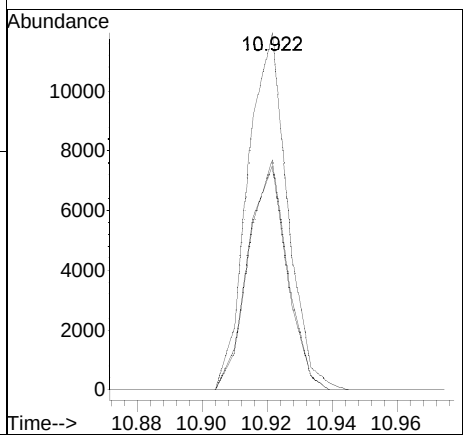


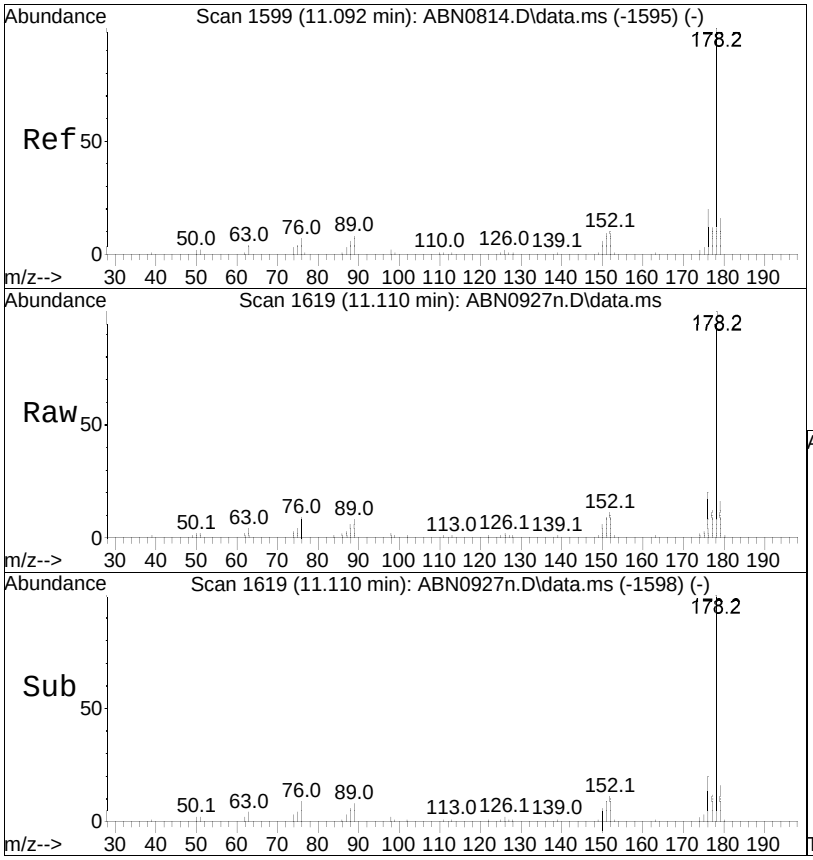


#82
Pentachlorophenol
Concen: 4.22 ug/ml
RT: 10.922 min Scan# 1587
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:266 Resp: 10148

Ion	Ratio	Lower	Upper
266	100		
264	62.1	49.7	74.5
268	62.5	50.5	75.7

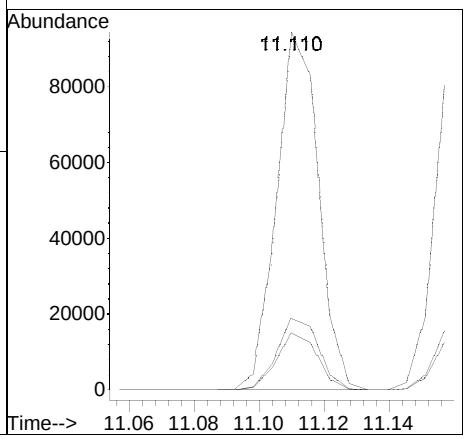


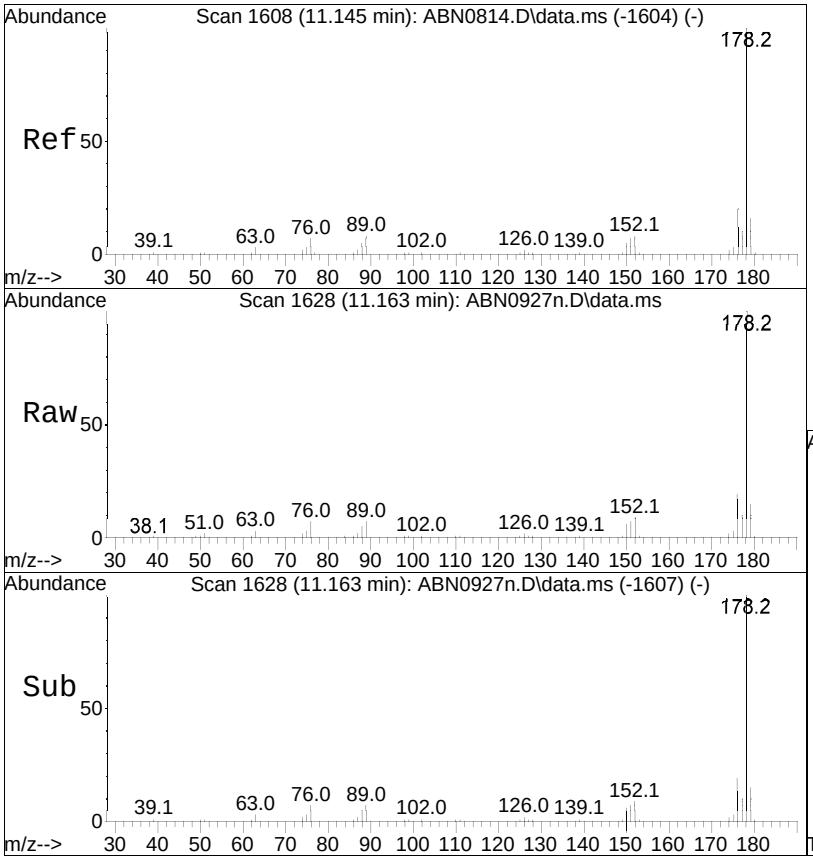


#89
Phenanthrene
Concen: 4.19 ug/ml
RT: 11.110 min Scan# 1619
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:178 Resp: 84478

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.2
176	20.0	15.4	23.2

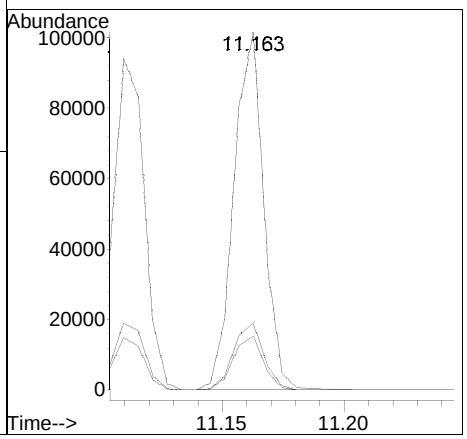


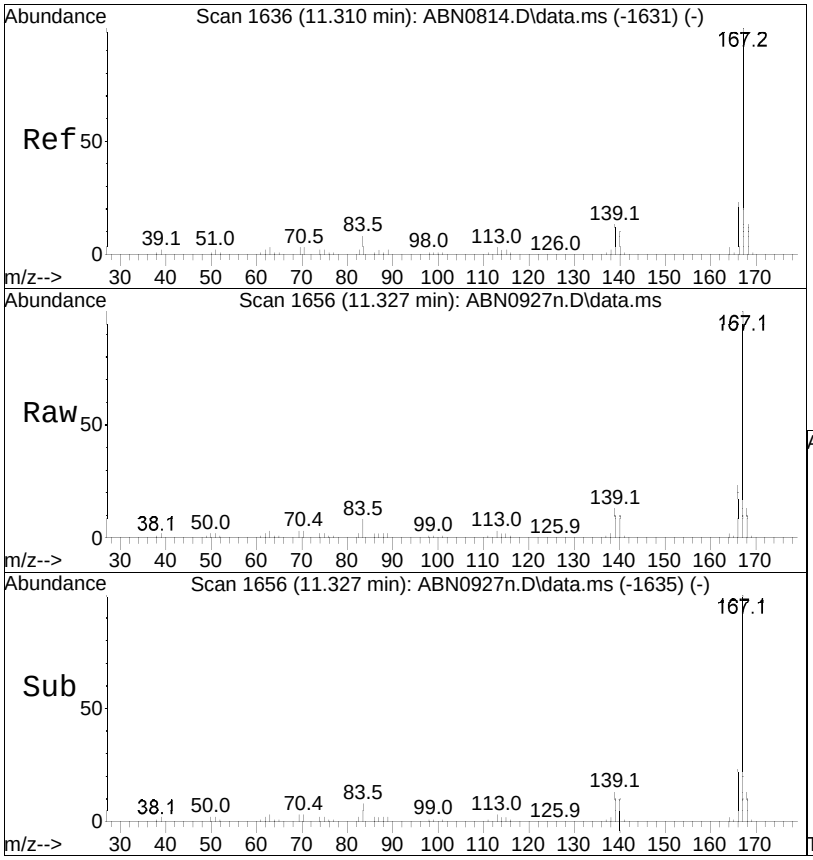


#90
Anthracene
Concen: 4.52 ug/ml
RT: 11.163 min Scan# 1628
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:178 Resp: 86207

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	19.0	14.6	22.0

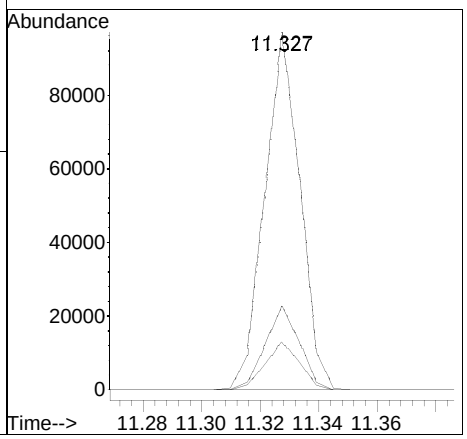


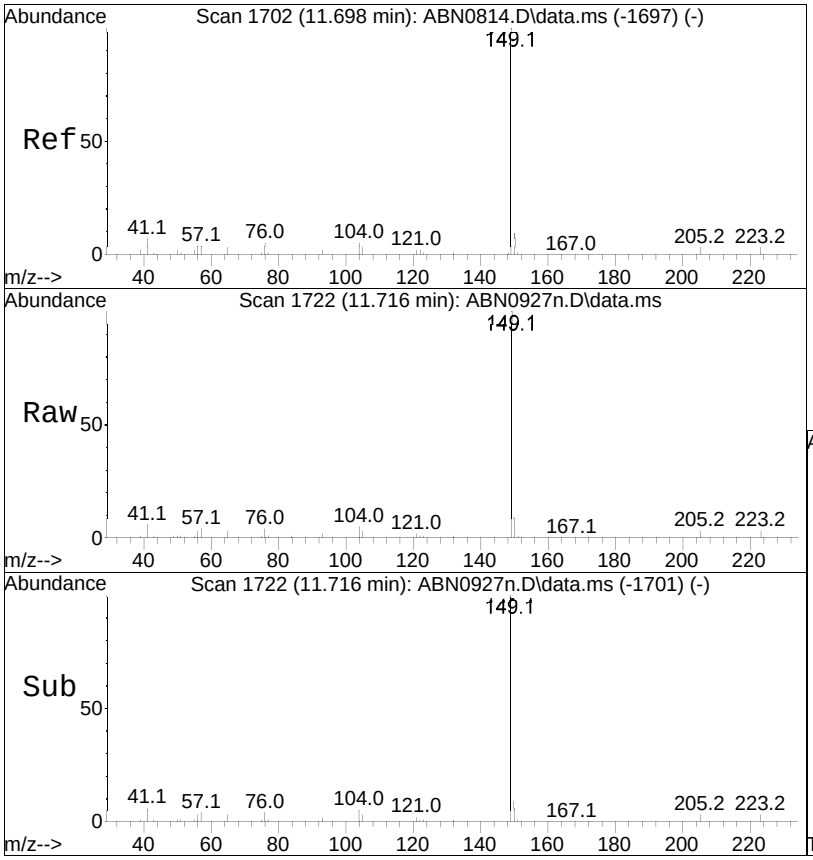


#91
Carbazole
Concen: 4.62 ug/ml
RT: 11.327 min Scan# 1656
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:167 Resp: 80433

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.9	17.4	26.0

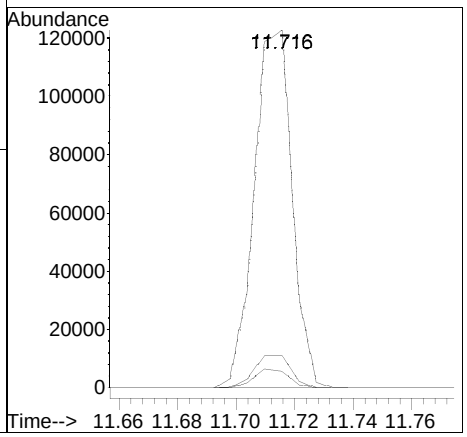


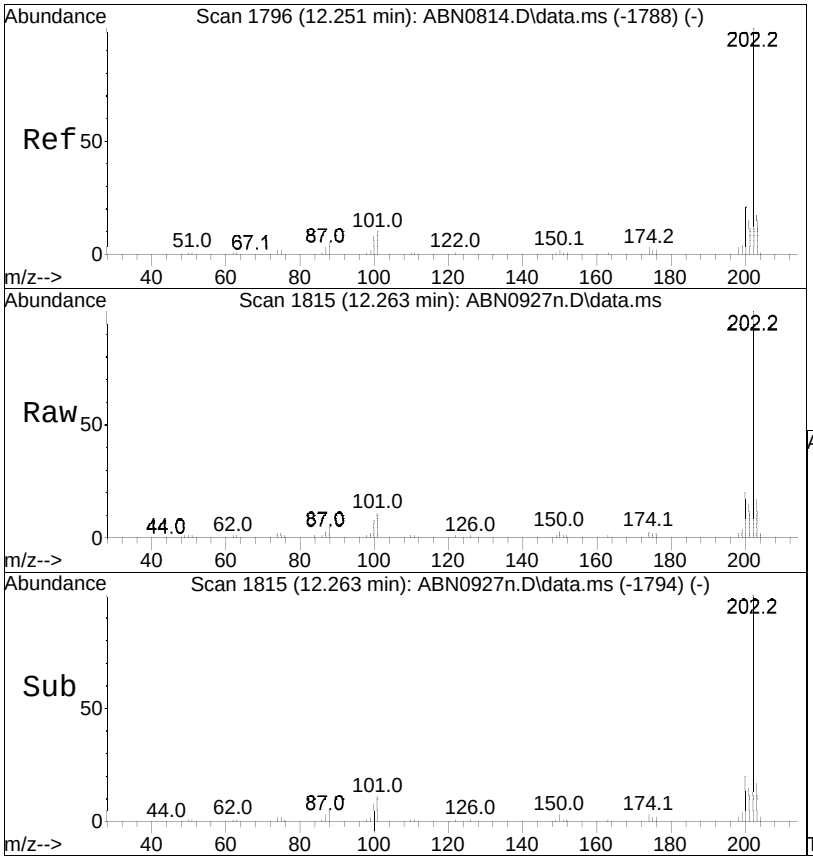


#92
Di-n-butylphthalate
Concen: 5.70 ug/ml
RT: 11.716 min Scan# 1722
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 109135

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.0	4.5	6.7

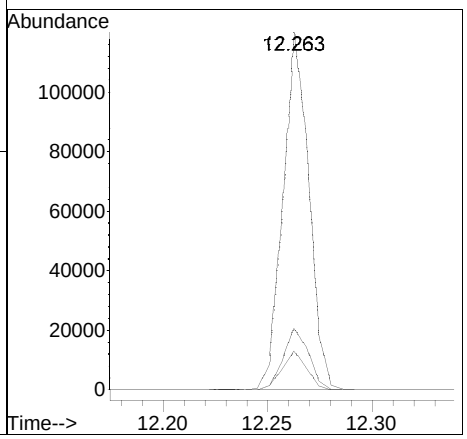


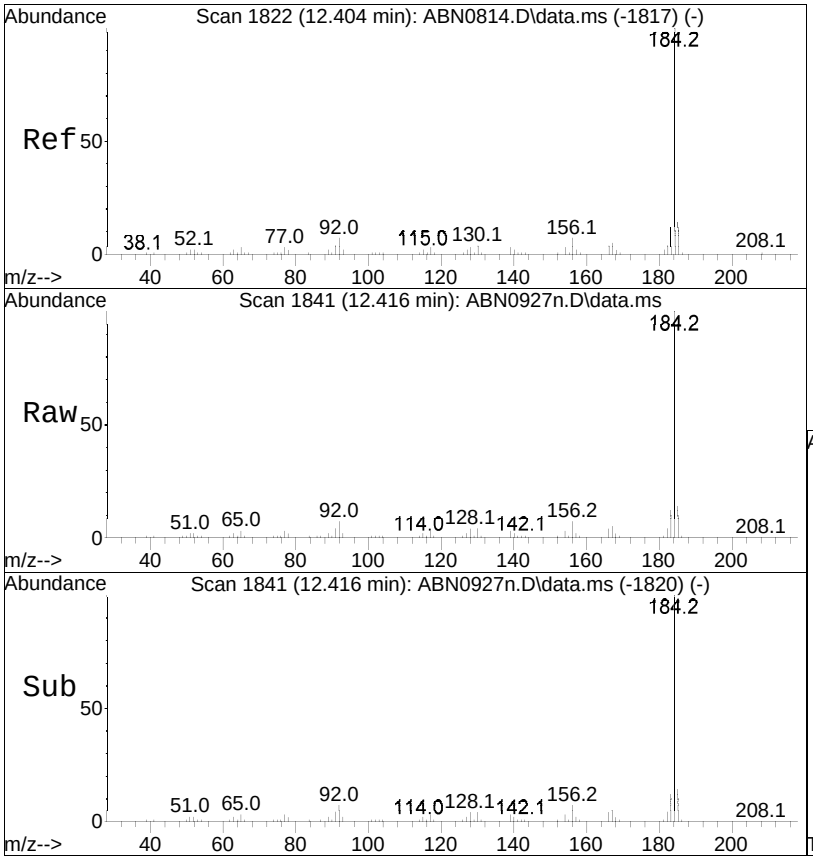


#93
Fluoranthene
Concen: 4.62 ug/ml
RT: 12.263 min Scan# 1815
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:202 Resp: 101932

Ion	Ratio	Lower	Upper
202	100		
101	10.5	13.5	20.3#
203	17.1	13.6	20.4

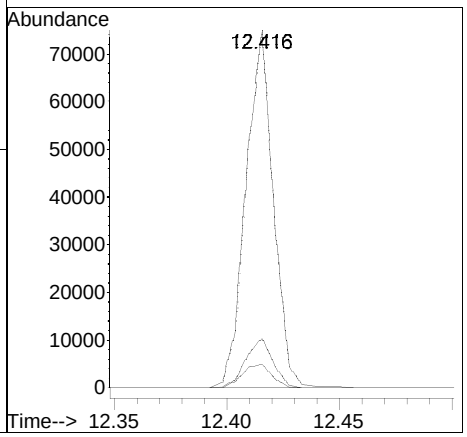


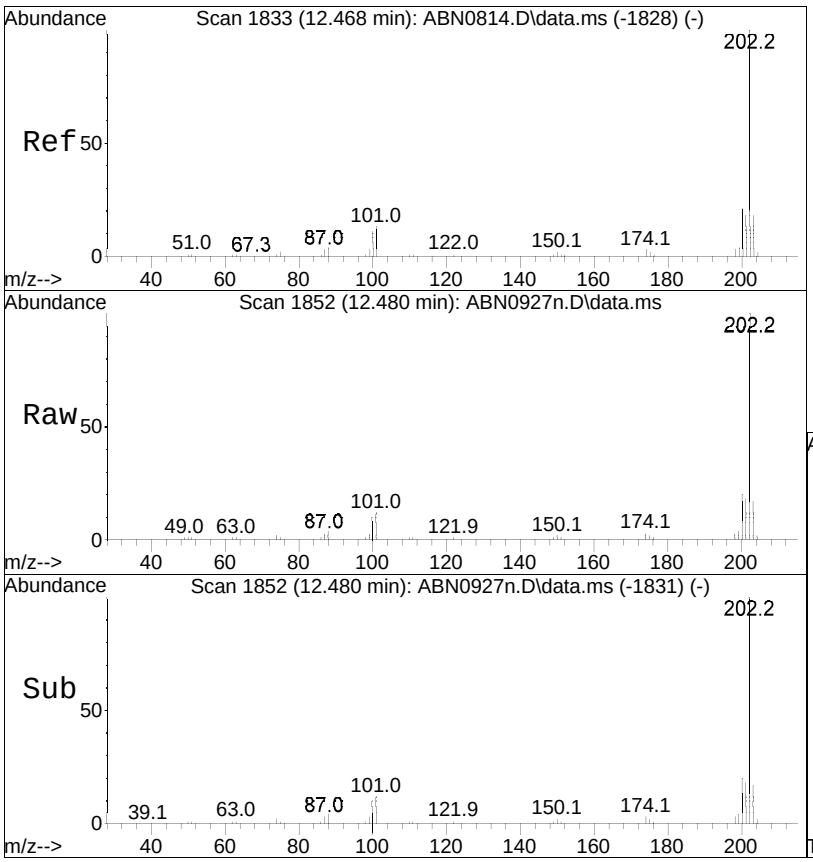


#94
Benzidine
Concen: 4.85 ug/ml
RT: 12.416 min Scan# 1841
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:184 Resp: 62544

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	13.8	11.1	16.7

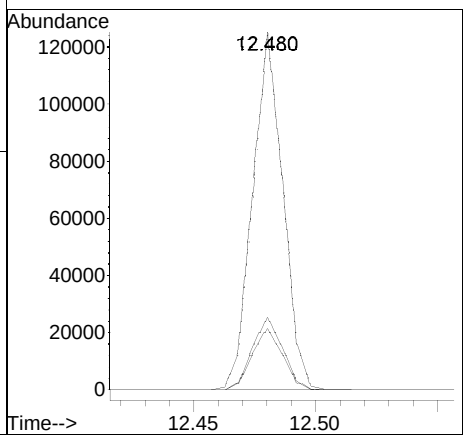


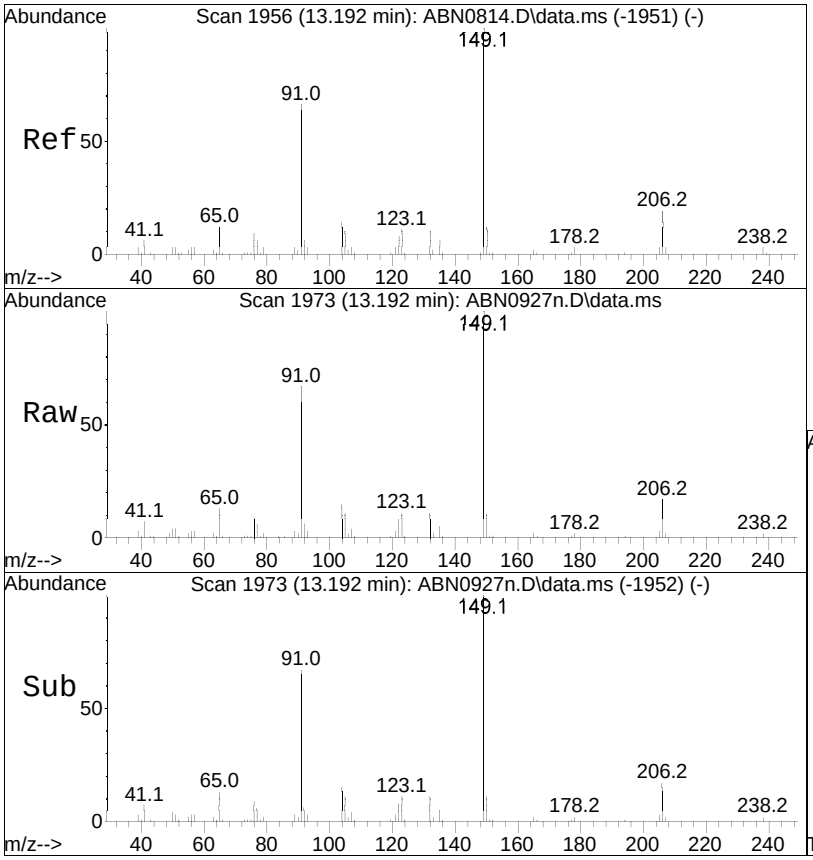


#95
Pyrene
Concen: 4.45 ug/ml
RT: 12.480 min Scan# 1852
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:202 Resp: 106811

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.7	25.1
203	17.4	14.2	21.4

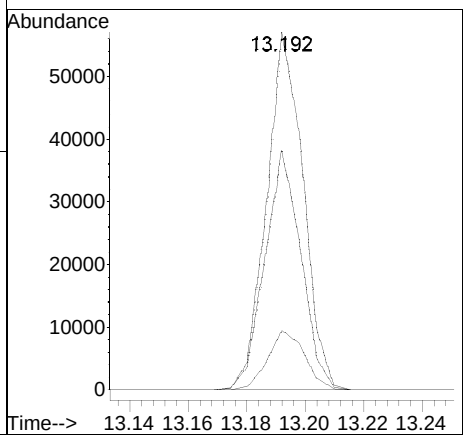


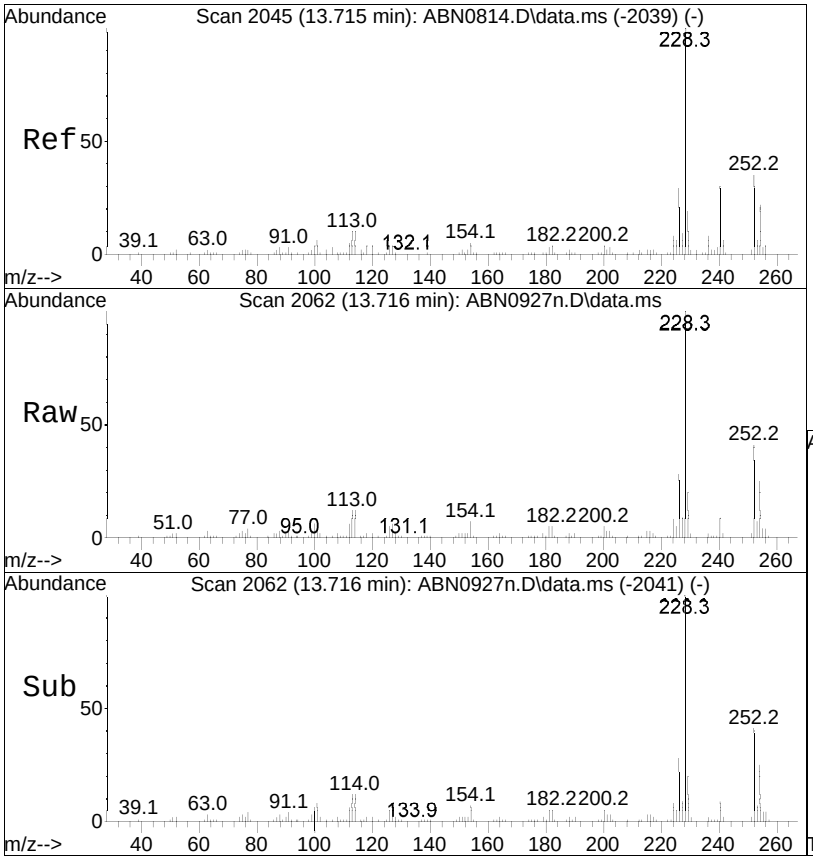


#97
Butyl benzyl phthalate
Concen: 4.91 ug/ml
RT: 13.192 min Scan# 1973
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 48879

Ion	Ratio	Lower	Upper
149	100		
91	66.4	63.3	94.9
206	16.8	13.9	20.9

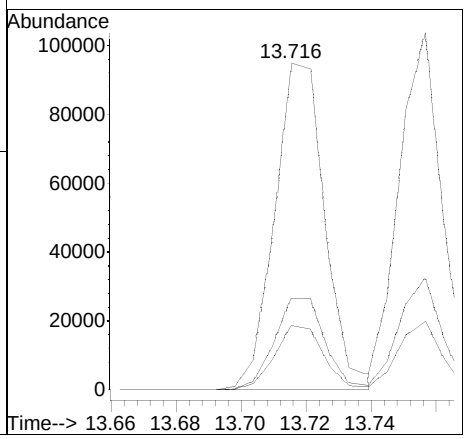


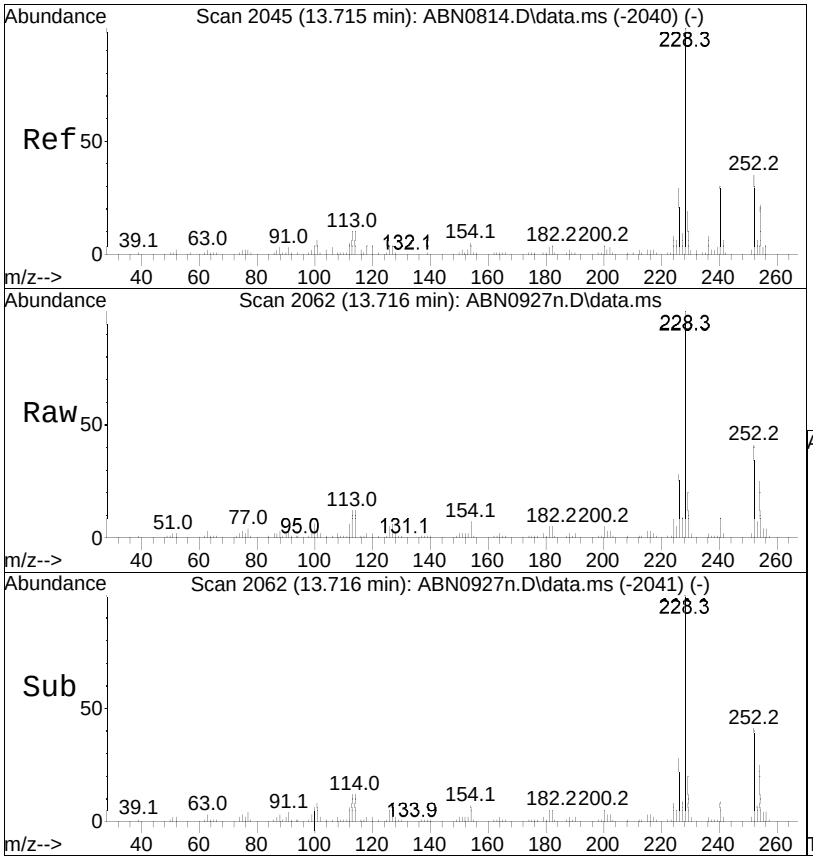


#105
Benzo(a)anthracene
Concen: 4.55 ug/ml
RT: 13.716 min Scan# 2062
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:228 Resp: 101732

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.2	33.4
229	19.5	15.6	23.4

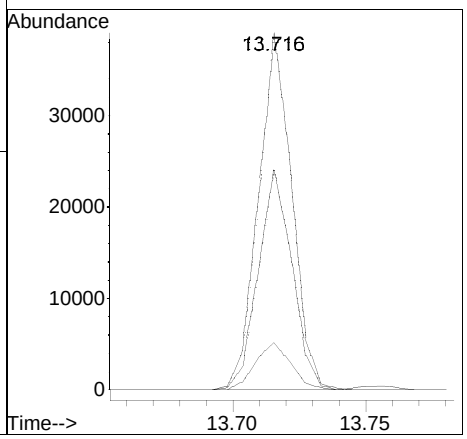


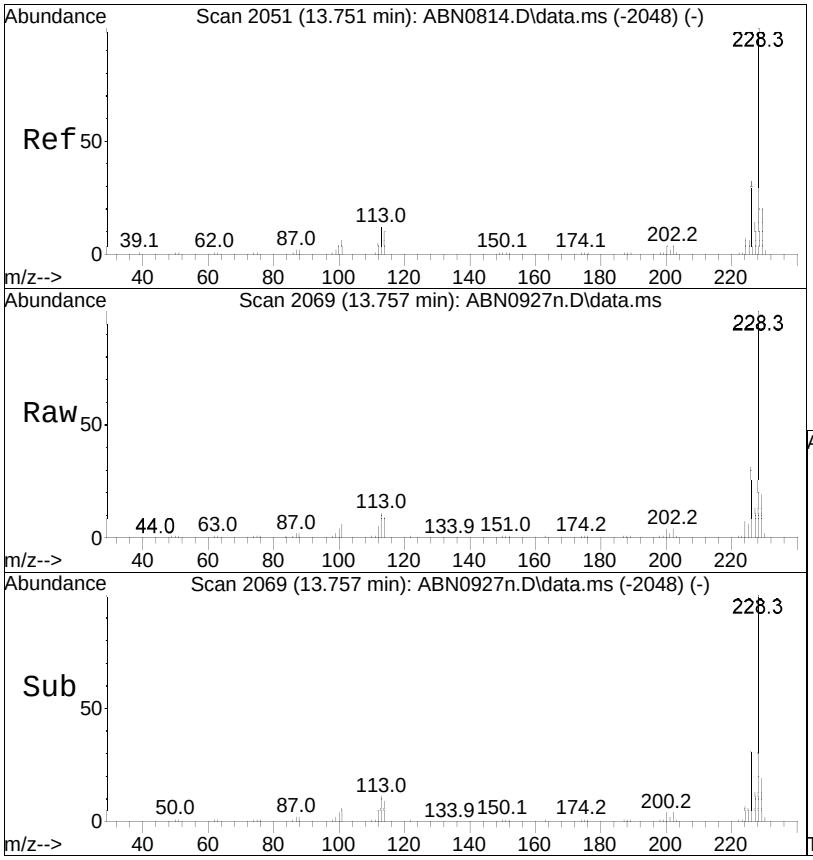


#106
3,3'-Dichlorobenzidine
Concen: 4.21 ug/ml
RT: 13.716 min Scan# 2062
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:252 Resp: 33603

Ion	Ratio	Lower	Upper
252	100		
126	14.3	14.5	21.7#
254	62.7	51.2	76.8

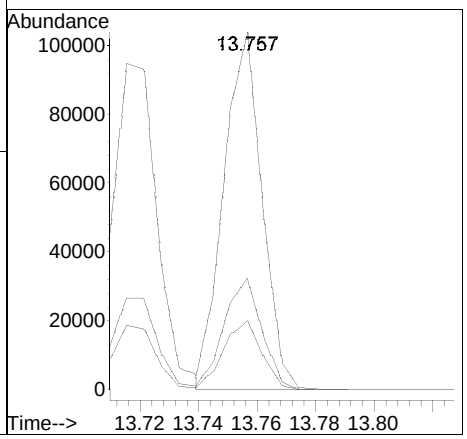


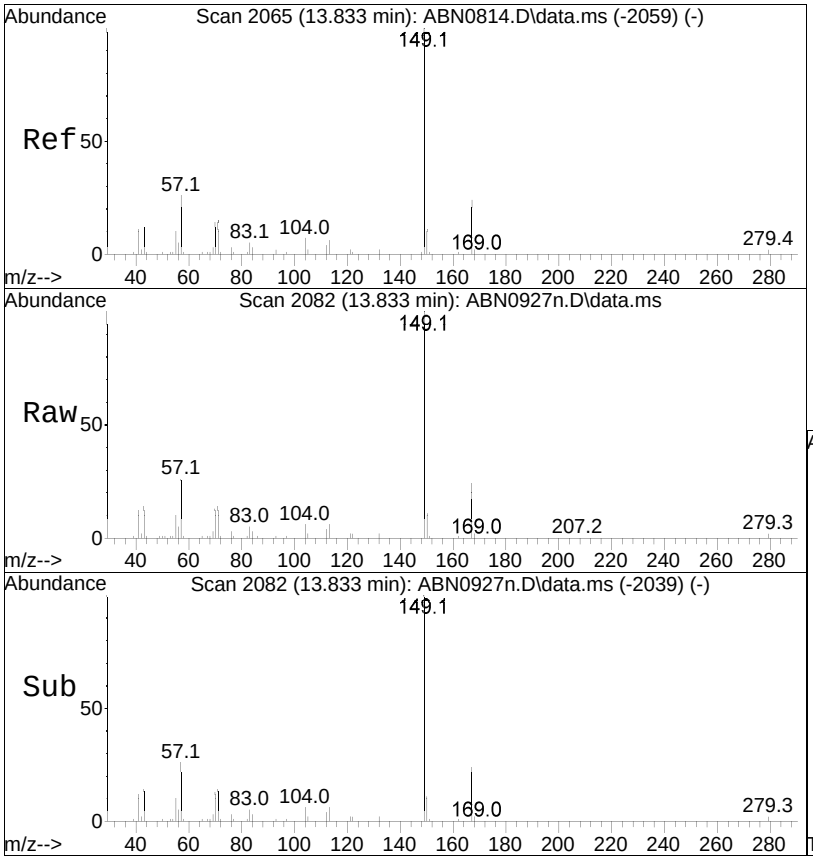


#107
Chrysene
Concen: 4.37 ug/ml
RT: 13.757 min Scan# 2069
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:228 Resp: 94369

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.0	36.0
229	19.3	15.8	23.8

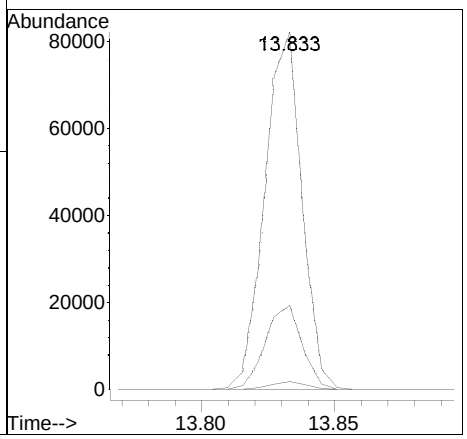


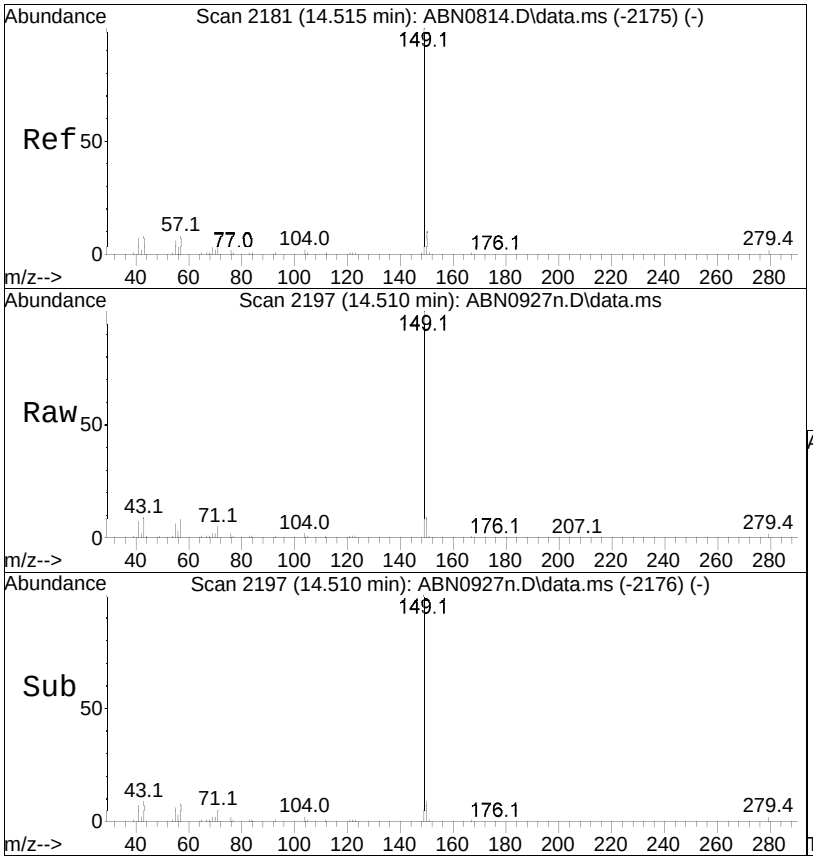


#108
Bis(2-ethylhexyl)phthalate
Concen: 6.46 ug/ml
RT: 13.833 min Scan# 2082
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 78881

Ion	Ratio	Lower	Upper
149	100		
167	23.5	22.1	33.1
279	2.0	3.0	4.4#

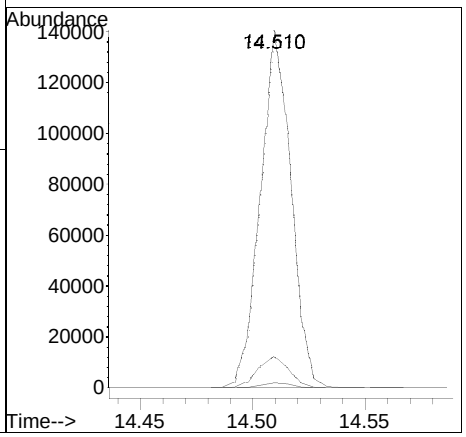


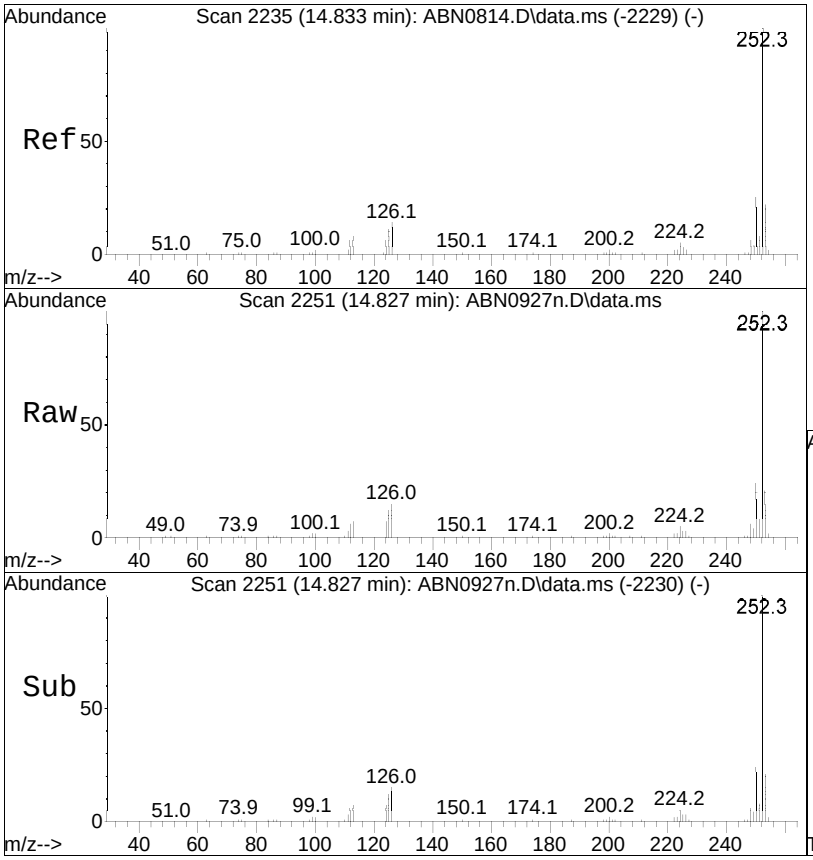


#109
Di-n-octylphthalate
Concen: 6.04 ug/ml
RT: 14.510 min Scan# 2197
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 130918

Ion	Ratio	Lower	Upper
149	100		
43	9.1	18.8	28.2#
167	1.3	1.3	1.9

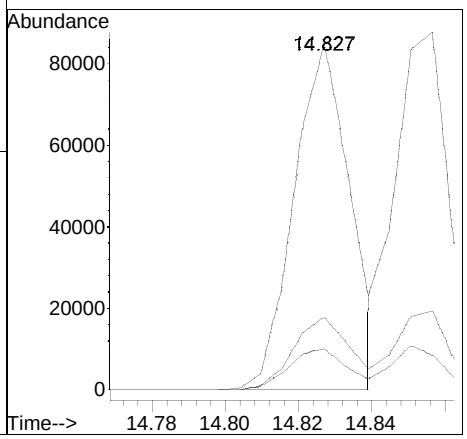


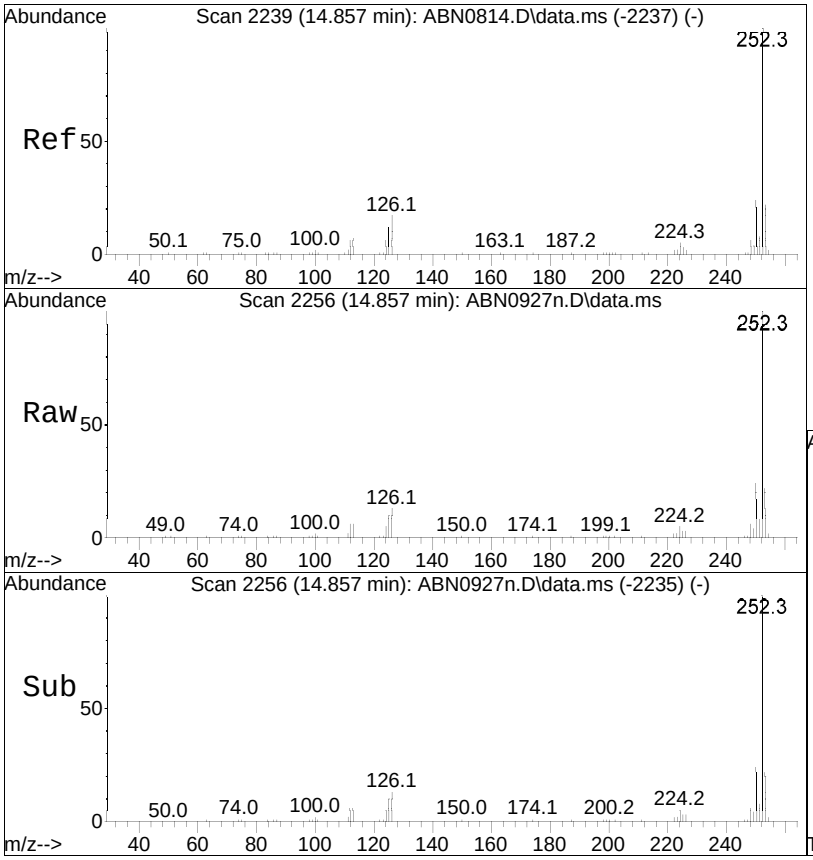


#110
Benzo(b)fluoranthene
Concen: 4.72 ug/ml
RT: 14.827 min Scan# 2251
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:252 Resp: 90890

Ion	Ratio	Lower	Upper
252	100		
125	12.5	13.3	19.9#
253	21.3	17.1	25.7

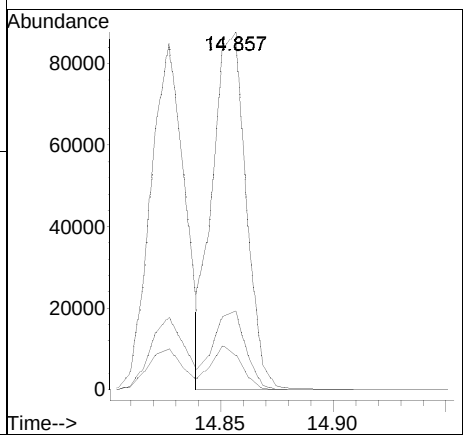


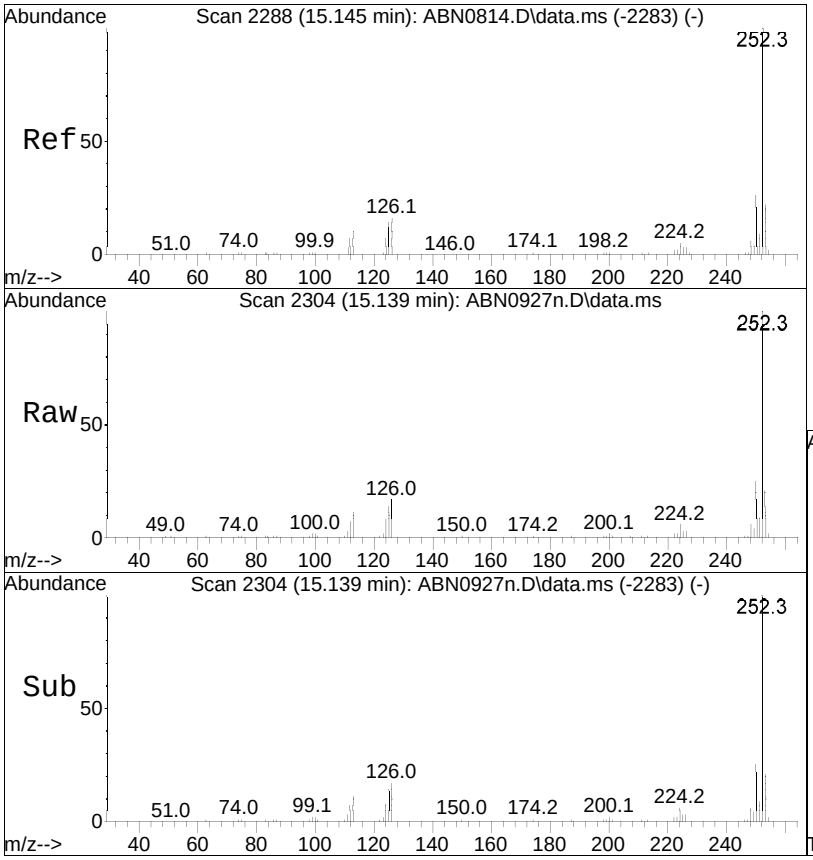


#111
Benzo(k)fluoranthene
Concen: 4.68 ug/ml
RT: 14.857 min Scan# 2256
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:252 Resp: 89970

Ion	Ratio	Lower	Upper
252	100		
125	11.2	13.0	19.6#
253	21.5	16.8	25.2

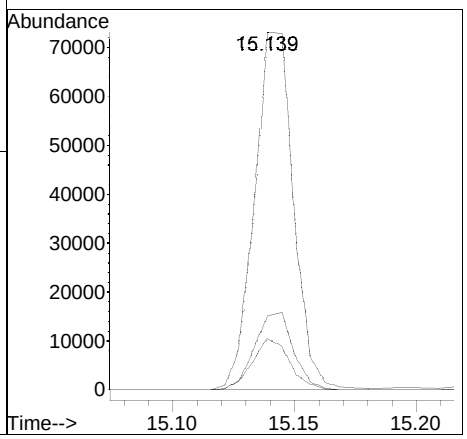


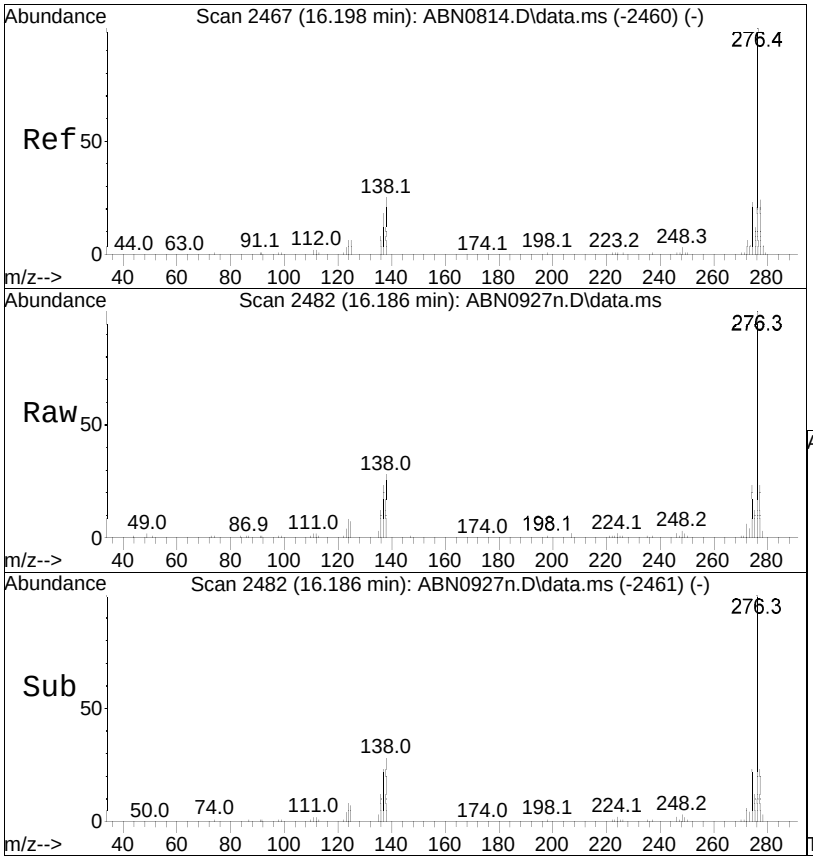


#112
Benzo(a)pyrene
Concen: 4.76 ug/ml
RT: 15.139 min Scan# 2304
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:252 Resp: 80514

Ion	Ratio	Lower	Upper
252	100		
125	13.9	14.2	21.2#
253	21.5	16.9	25.3

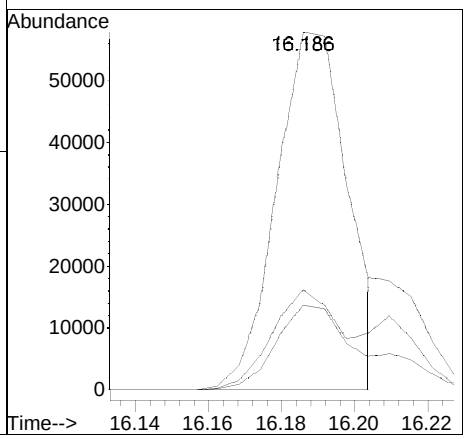


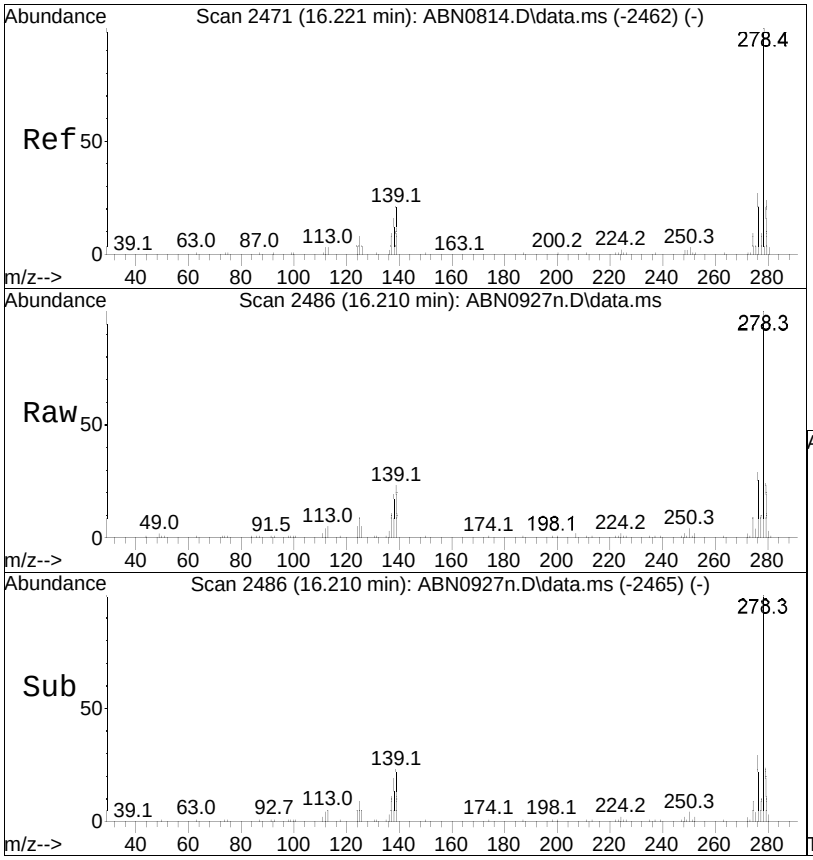


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.41 ug/mL M6
RT: 16.186 min Scan# 2482
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:276 Resp: 78868

Ion	Ratio	Lower	Upper
276	100		
138	41.1	25.1	37.7#
277	30.3	18.6	28.0#

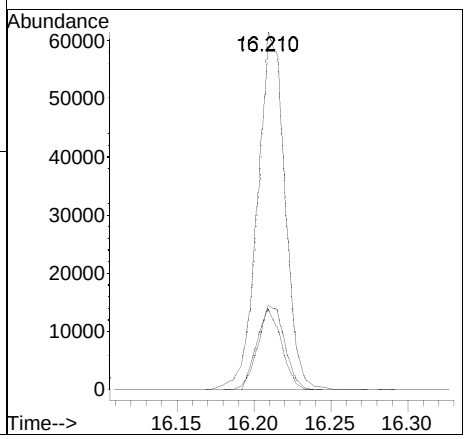


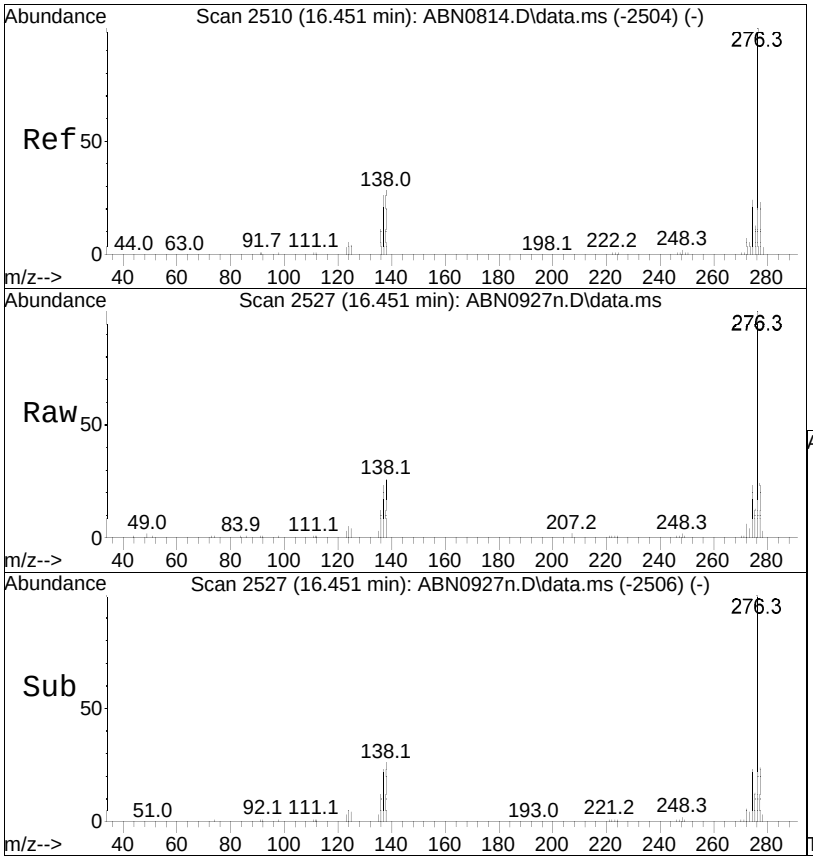


#115
Dibenzo(a,h)anthracene
Concen: 4.40 ug/ml
RT: 16.210 min Scan# 2486
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:278 Resp: 75671

Ion	Ratio	Lower	Upper
278	100		
139	20.7	20.8	31.2#
279	23.2	18.3	27.5

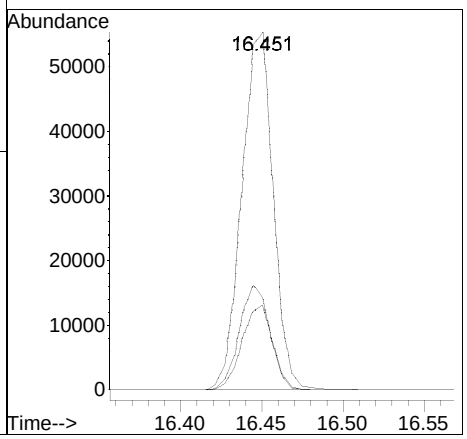




#116
Benzo(ghi)perylene
Concen: 4.65 ug/ml
RT: 16.451 min Scan# 2527
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:276 Resp: 73941

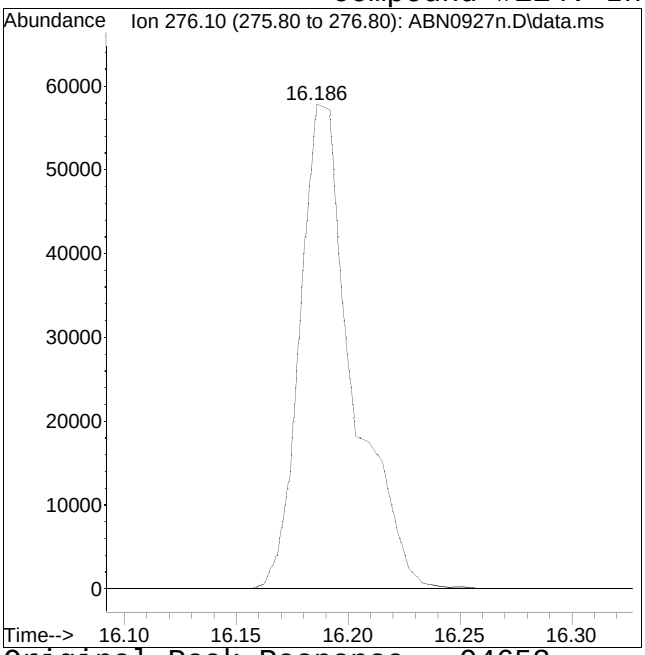
Ion	Ratio	Lower	Upper
276	100		
138	28.5	29.2	43.8#
277	23.4	18.8	28.2



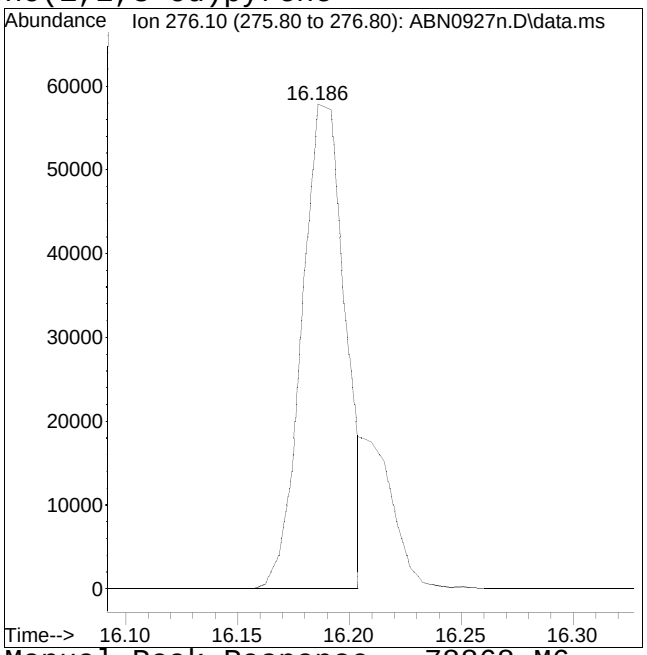
Manual Integration Report

Data Path : I:\8270\SV107\240927NRVT\ QMethod : FS240730SV107RVT.m
Data File : ABN0927n.D Operator : SV107:gmr
Date Inj'd : 9/27/2024 11:28 pm Instrument : SV107
Sample : WG1977425-3,32,,ABN RVT CCQuant Date : 9/27/2024 11:53 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 94653



Manual Peak Response = 78868 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : AP90927n.D
Acq On : 27 Sep 2024 11:54 pm
Operator : SV107:gmr
Sample : WG1977425-4,32,,AP9 RVT CCV Lot #10909
Misc : WG1977425,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 28 00:23:00 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:23:56 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	79	0.00
28	T	Benzaldehyde		1.145	1.163	-1.6	84	0.00
29	T	Acetophenone		2.032	1.990	2.1	82	0.00
30	T	m-Toluidine		1.860	1.922	-3.3	80	0.00
31	T	2-Chloroaniline		1.773	1.725	2.7	77	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	82	0.00
56	T	a-Terpineol		0.297	0.330	-11.1	88	0.00
57	T	3-Chloroaniline		0.163	0.168	-3.1	83	0.00
58	T	2,6-Dichlorophenol		0.319	0.317	0.6	78	0.00
59	T	1-chloro-2-nitrobenzene		0.155	0.158	-1.9	84	0.00
60	T	Caprolactam	*	5.000	5.286	-5.7	98	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.444	0.381	14.2	73	0.00
62	T	Biphenyl		1.036	0.889	14.2	74	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	83	0.00
84	T	Dichloran	*	5.000	4.621	7.6	96	0.00
85	T	Pentachloronitrobenzene	*	5.000	5.213	-4.3	103	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	88	0.00
99	T	Diphenamid		0.507	0.545	-7.5	99	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : AP90927n.D
Acq On : 27 Sep 2024 11:54 pm
Operator : SV107:gmr
Sample : WG1977425-4,32,,AP9 RVT CCV Lot #10909
Misc : WG1977425,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 28 00:23:00 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:23:56 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.475	152	12952	4.000	ug/ml	0.00
55) IS2_Naphthalene-d8	7.892	136	49162	4.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	9.651	164	29254	4.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	11.092	188	61619	4.000	ug/ml	# 0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.904	105	18822	5.079	ug/ml	94
29) Acetophenone	6.963	105	32219	4.898	ug/ml#	84
30) m-Toluidine	7.063	106	31122	5.168	ug/ml	94
31) 2-Chloroaniline	7.469	127	27924	4.865	ug/ml	95
56) a-Terpineol	7.957	59	20254	5.551	ug/ml	88
57) 3-Chloroaniline	7.975	65	10340	5.174	ug/ml	82
58) 2,6-Dichlorophenol	7.998	162	19472	4.959	ug/ml	92
59) 1-chloro-2-nitrobenzene	8.269	111	9708	5.096	ug/ml#	1
60) Caprolactam	8.310	55	11119	5.286	ug/ml#	80
61) 1,2,4,5-Tetrachloroben...	8.804	216	23406	4.288	ug/ml	99
62) Biphenyl	9.104	154	54635	4.292	ug/ml	98
84) Dichloran	10.786	206	6971	4.621	ug/ml#	78
85) Pentachloronitrobenzene	10.933	237	7542	5.213	ug/ml#	84
99) Diphenamid	11.992	167	41961	5.378	ug/ml#	80

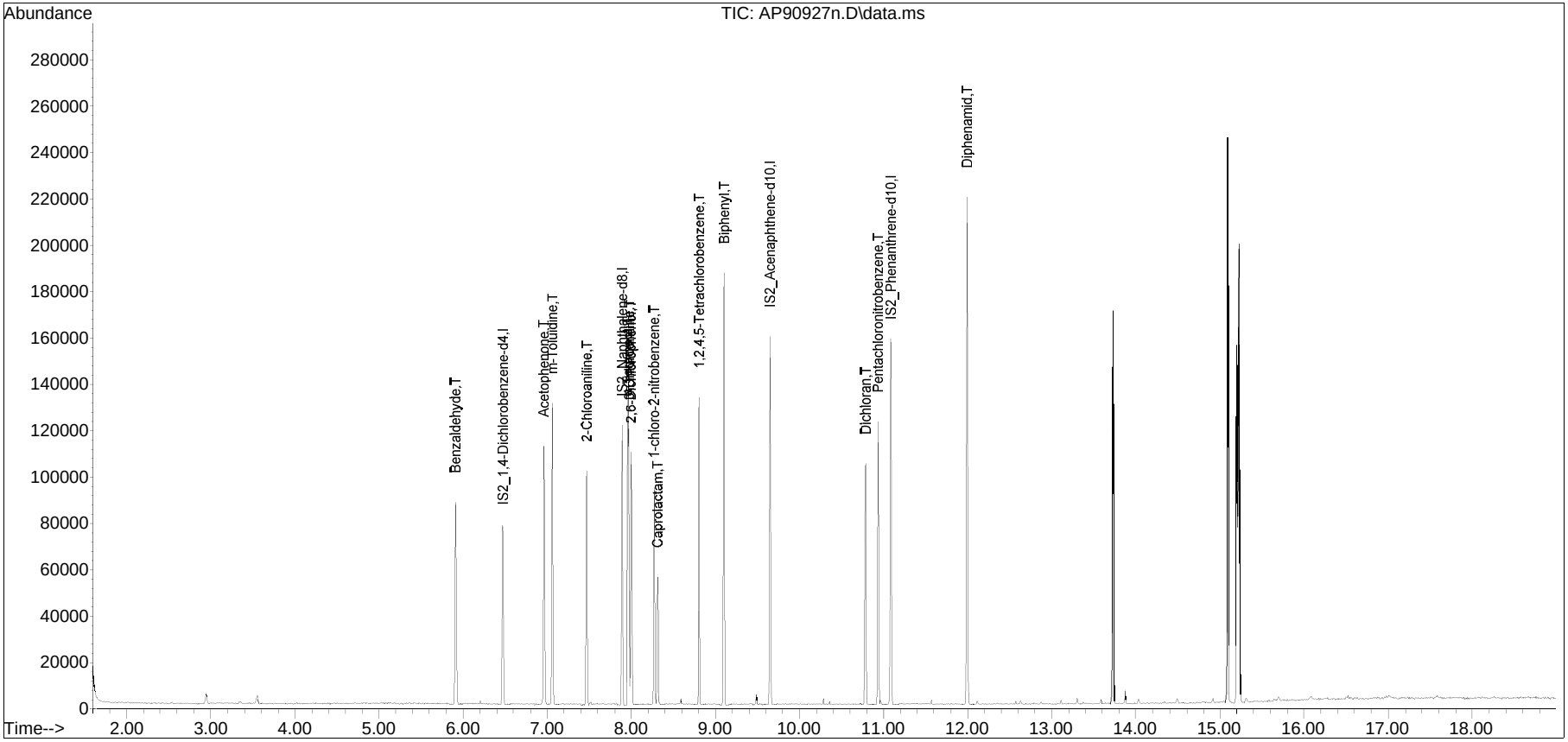
(#) = qualifier out of range (m) = manual integration (+) = signals summed

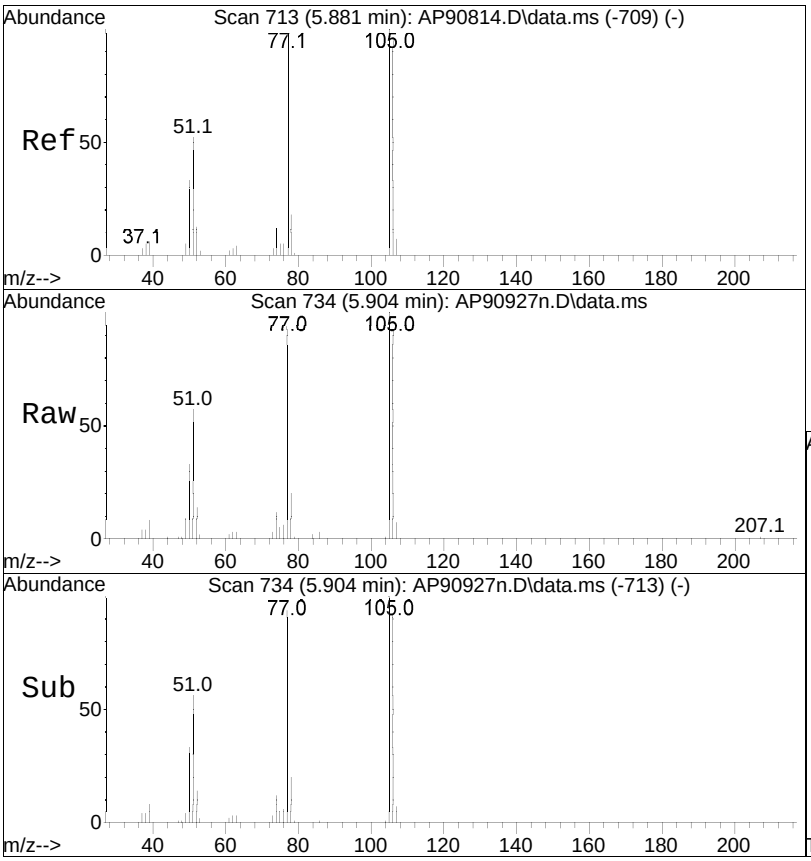
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : AP90927n.D
Acq On : 27 Sep 2024 11:54 pm
Operator : SV107:gmr
Sample : WG1977425-4,32,,AP9 RVT CCV Lot #10909
Misc : WG1977425,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 28 00:23:00 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:23:56 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

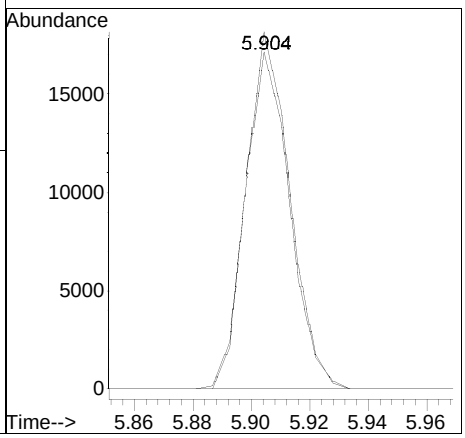


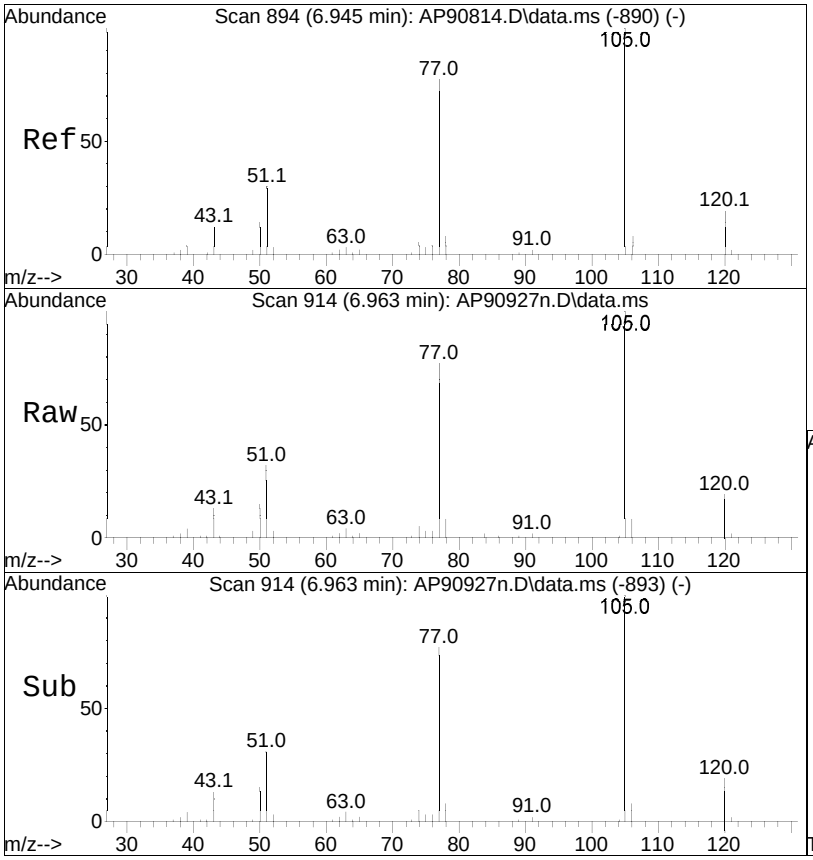


#28
Benzaldehyde
Concen: 5.08 ug/ml
RT: 5.904 min Scan# 734
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:105 Resp: 18822

Ion	Ratio	Lower	Upper
105	100		
77	96.3	82.2	123.4

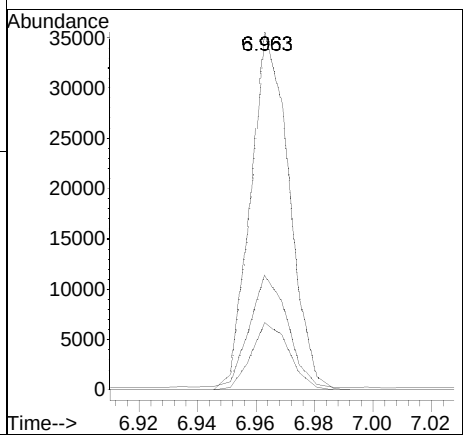


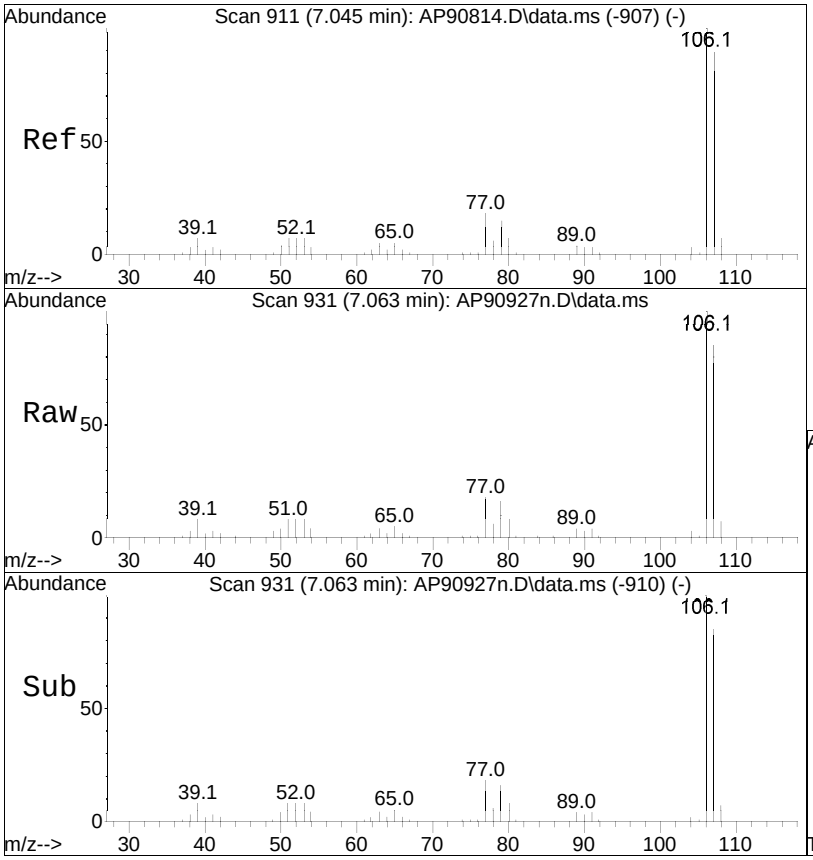


#29
Acetophenone
Concen: 4.90 ug/ml
RT: 6.963 min Scan# 914
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:105 Resp: 32219

Ion	Ratio	Lower	Upper
105	100		
120	18.6	20.5	30.7#
51	32.1	34.9	52.3#

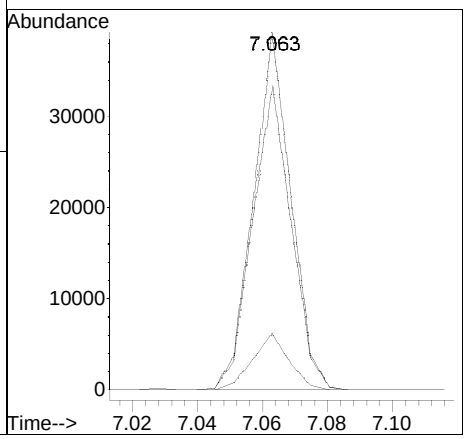


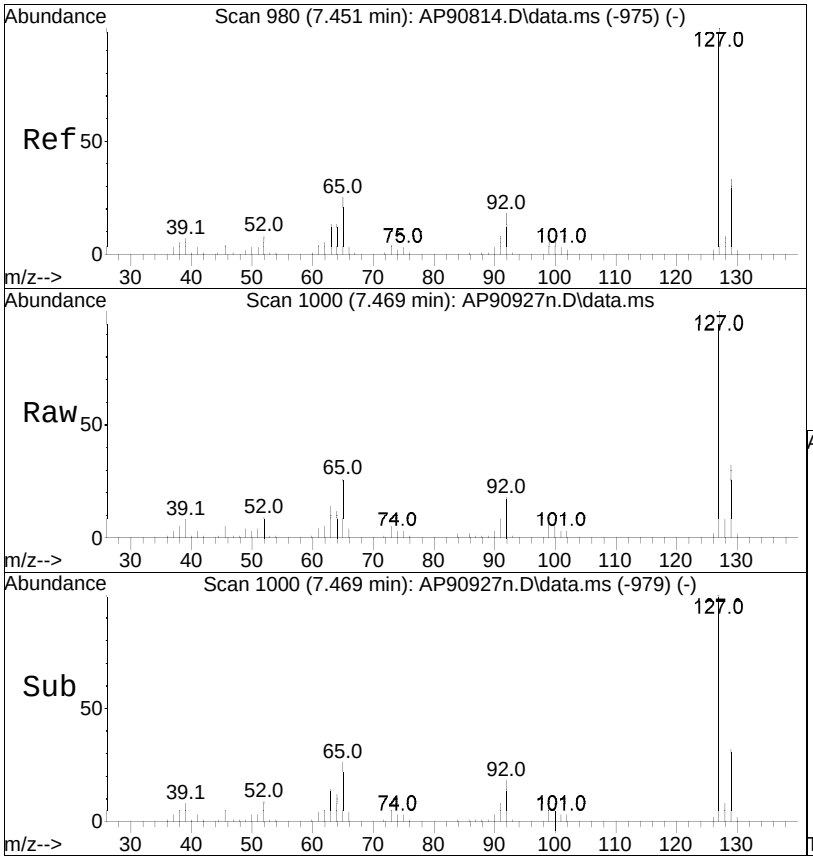


#30
m-Toluidine
Concen: 5.17 ug/ml
RT: 7.063 min Scan# 931
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:106 Resp: 31122

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.4	11.8	17.8

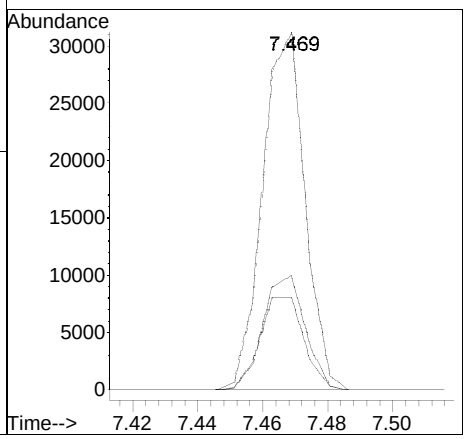


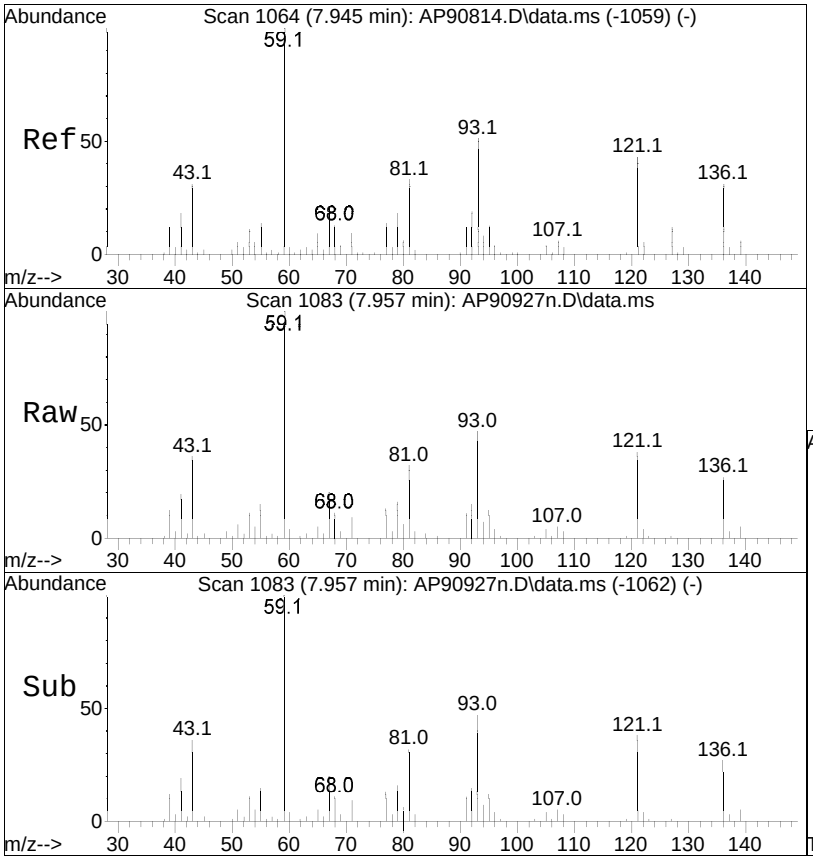


#31
2-Chloroaniline
Concen: 4.87 ug/ml
RT: 7.469 min Scan# 1000
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:127 Resp: 27924

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.9	38.9
65	27.3	26.3	39.5

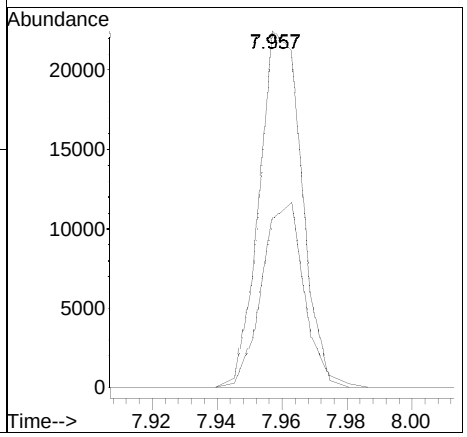


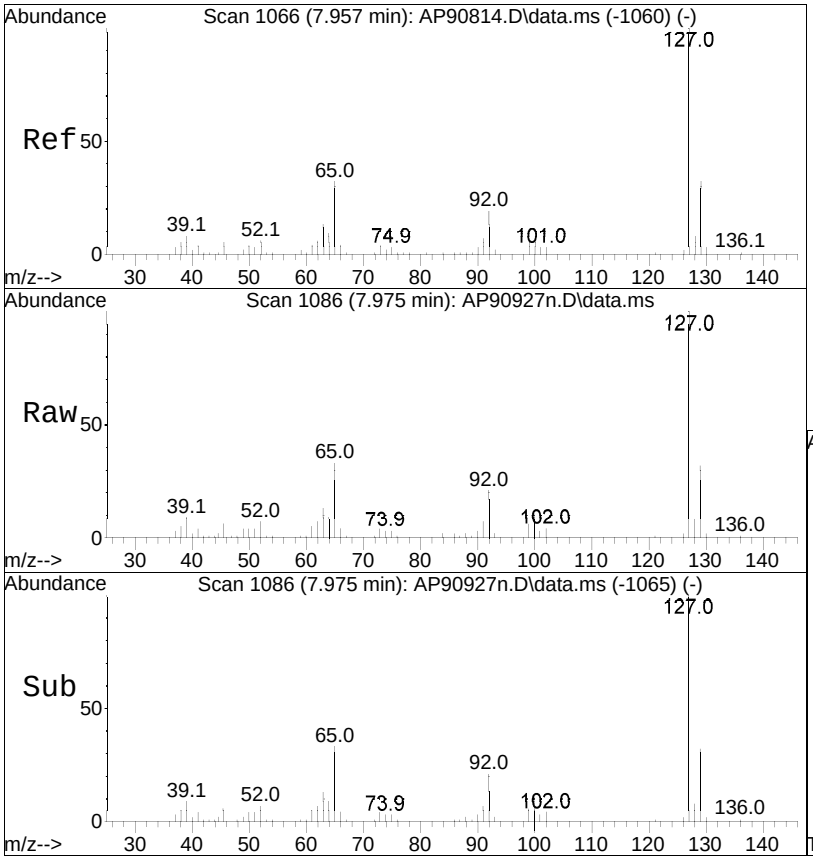


#56
a-Terpineol
Concen: 5.55 ug/ml
RT: 7.957 min Scan# 1083
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion: 59 Resp: 20254

Ion	Ratio	Lower	Upper
59	100		
93	52.2	35.6	53.4

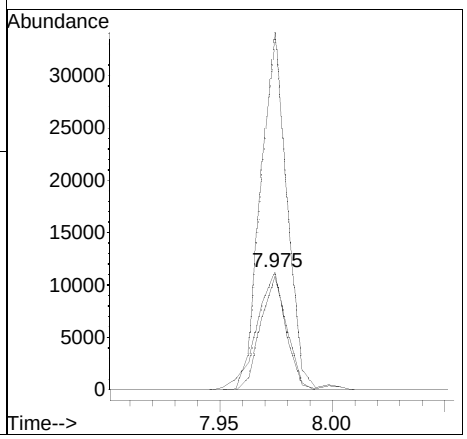


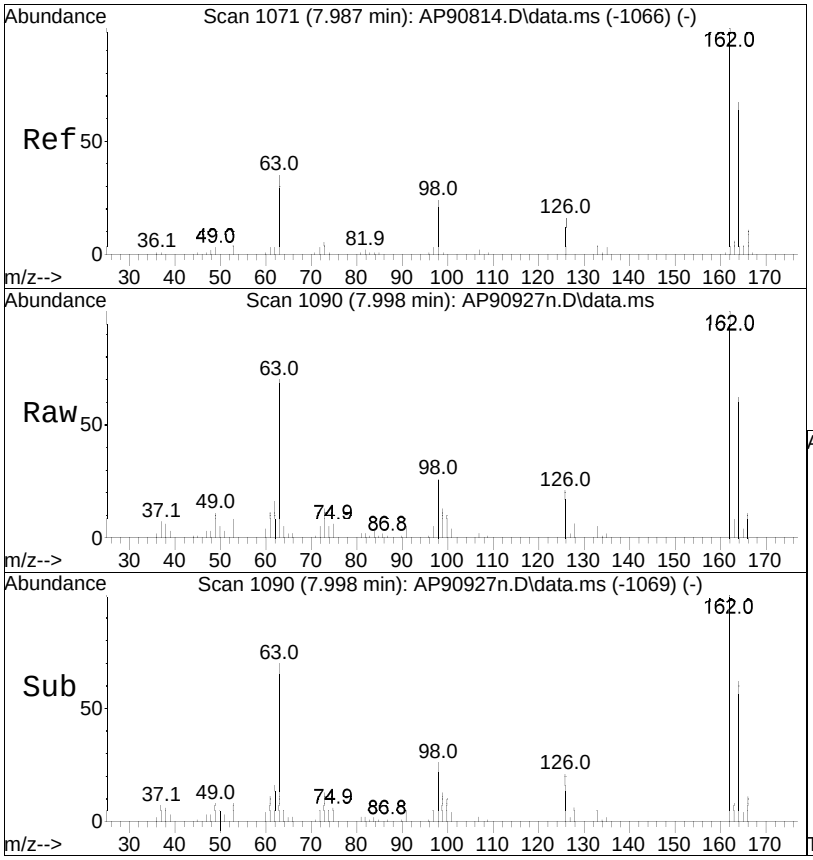


#57
3-Chloroaniline
Concen: 5.17 ug/ml
RT: 7.975 min Scan# 1086
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion: 65 Resp: 10340

Ion	Ratio	Lower	Upper
65	100		
127	265.8	243.2	364.8
129	84.6	78.8	118.2

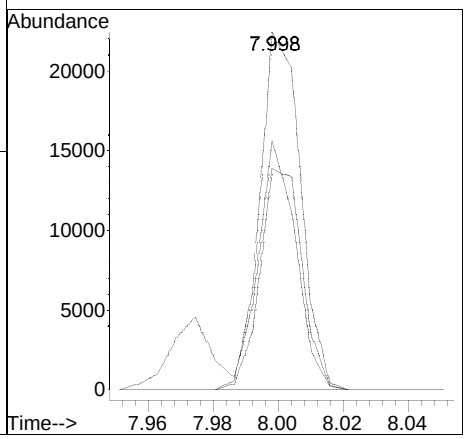


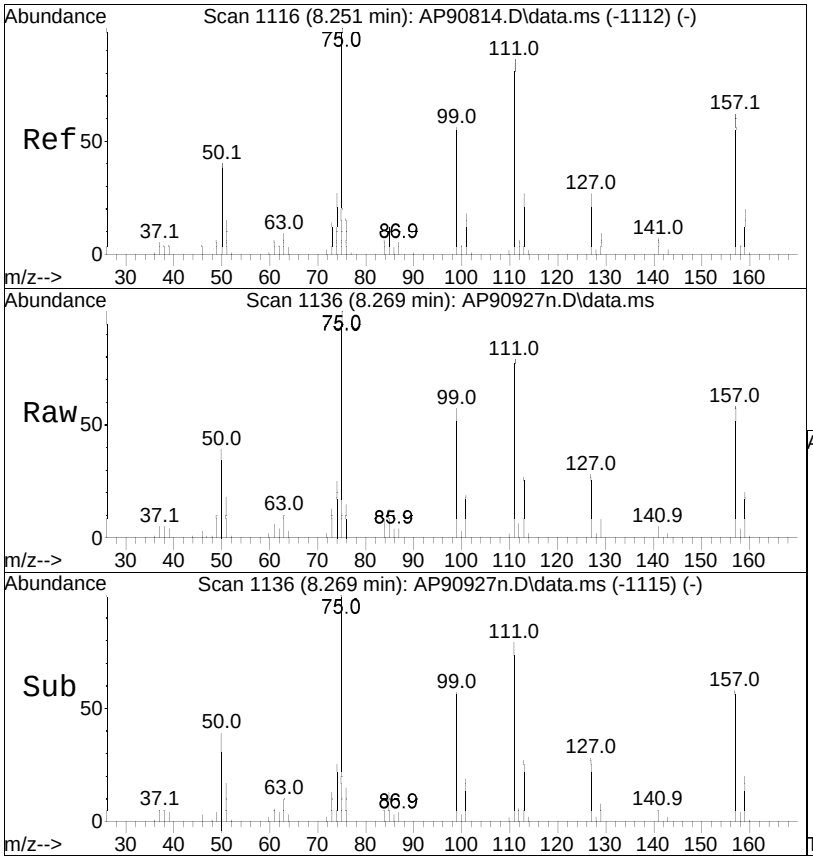


#58
2,6-Dichlorophenol
Concen: 4.96 ug/ml
RT: 7.998 min Scan# 1090
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:162 Resp: 19472

Ion	Ratio	Lower	Upper
162	100		
164	63.7	51.1	76.7
63	63.2	60.8	91.2

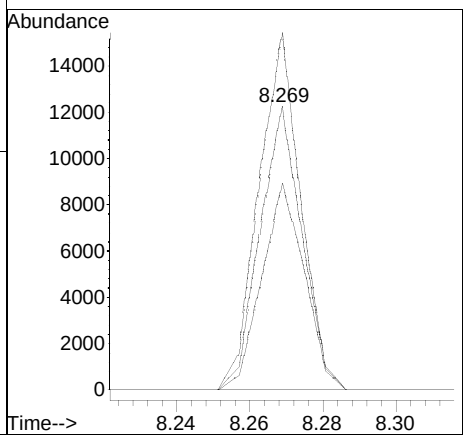


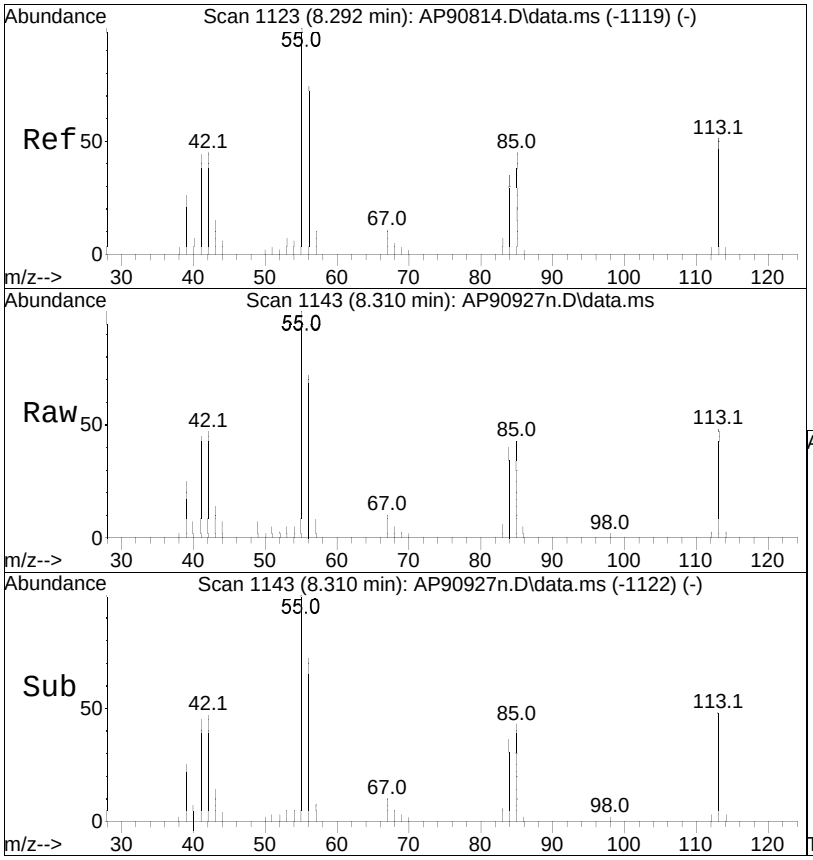


#59
1-chloro-2-nitrobenzene
Concen: 5.10 ug/ml
RT: 8.269 min Scan# 1136
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:111 Resp: 9708

Ion	Ratio	Lower	Upper
111	100		
157	73.8	0.0	0.0#
75	125.0	28.2	42.2#

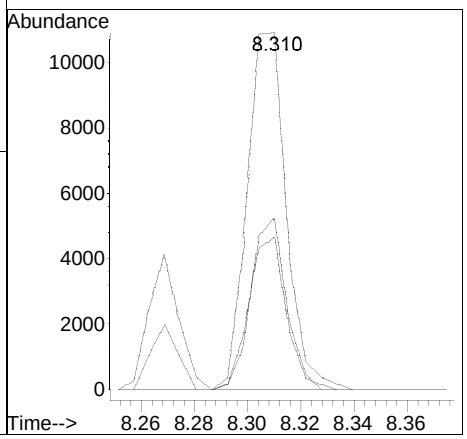


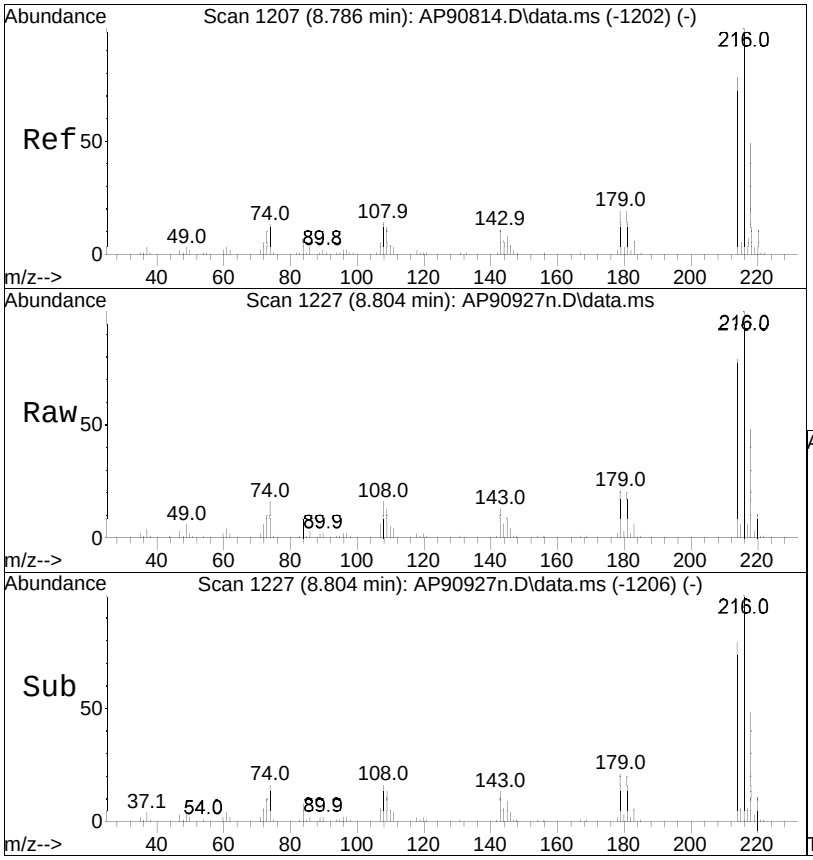


#60
Caprolactam
Concen: 5.29 ug/ml
RT: 8.310 min Scan# 1143
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion: 55 Resp: 11119

Ion	Ratio	Lower	Upper
55	100		
85	41.2	19.8	29.6#
113	43.8	29.6	44.4

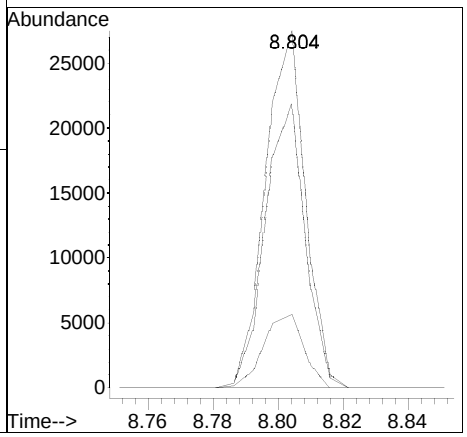


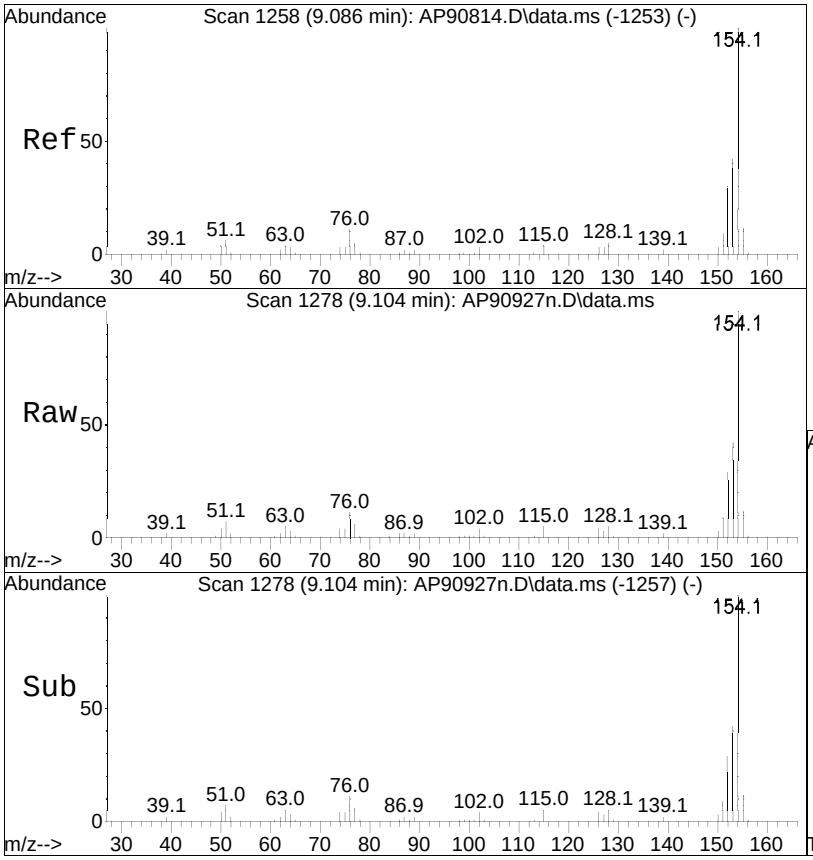


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.29 ug/ml
RT: 8.804 min Scan# 1227
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:216 Resp: 23406

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.7	95.5
179	21.0	19.0	28.6

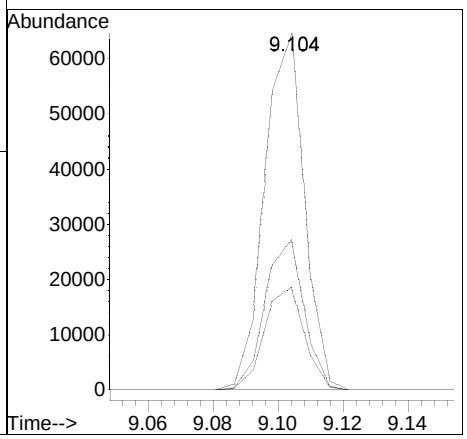


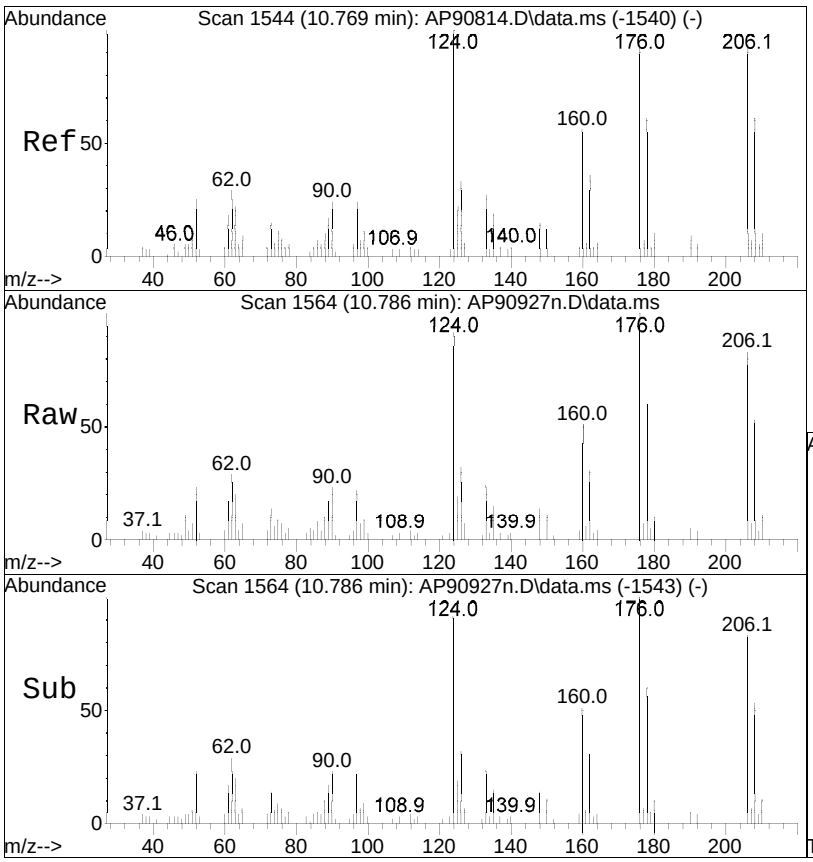


#62
Biphenyl
Concen: 4.29 ug/ml
RT: 9.104 min Scan# 1278
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:154 Resp: 54635

Ion	Ratio	Lower	Upper
154	100		
153	41.7	32.3	48.5
152	29.2	22.5	33.7

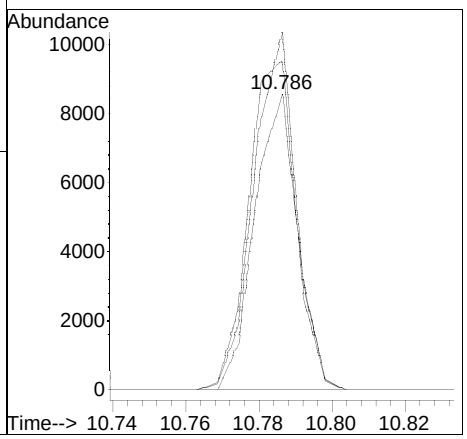


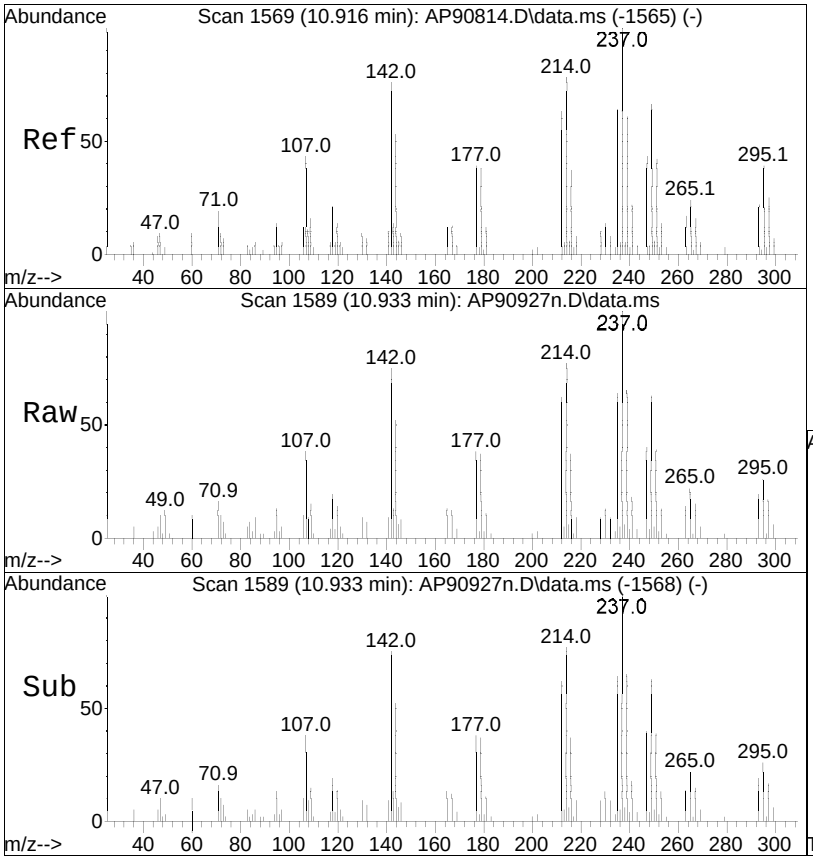


#84
Dichloran
Concen: 4.62 ug/ml
RT: 10.786 min Scan# 1564
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:206 Resp: 6971

Ion	Ratio	Lower	Upper
206	100		
176	119.3	104.6	157.0
124	121.5	130.5	195.7#

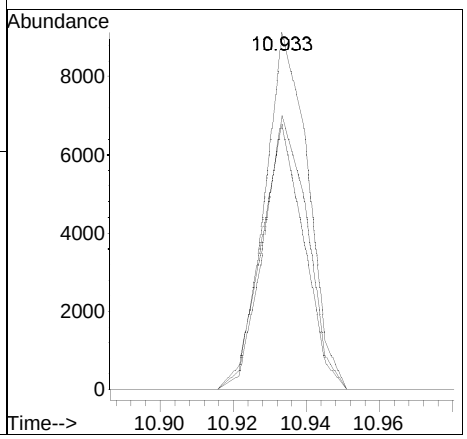


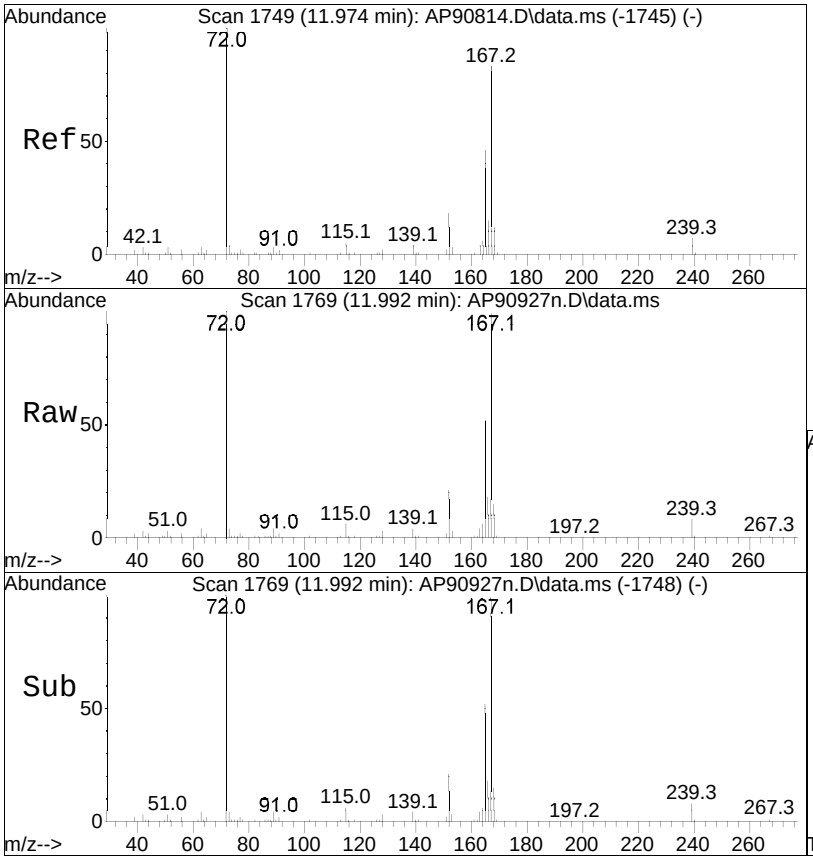


#85
Pentachloronitrobenzene
Concen: 5.21 ug/ml
RT: 10.933 min Scan# 1589
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:237 Resp: 7542

Ion	Ratio	Lower	Upper
237	100		
142	72.7	77.0	115.4#
214	76.8	58.2	87.4

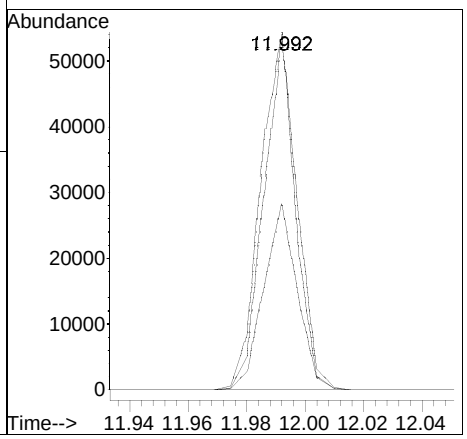




#99
Diphenamid
Concen: 5.38 ug/ml
RT: 11.992 min Scan# 1769
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:167 Resp: 41961

Ion	Ratio	Lower	Upper
167	100		
72	104.4	109.7	164.5#
165	53.2	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240927NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: AP90927n.D	Operator	: SV107:gmr
Date Inj'd	: 9/27/2024 11:54 pm	Instrument	: SV107
Sample	: WG1977425-4,32,,AP9 RVT CC	Quant Date	: 9/28/2024 0:24 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : ADP0927n.D
Acq On : 28 Sep 2024 12:19 am
Operator : SV107:gmr
Sample : WG1977425-5,32,,ADP RVT CCV Lot #10751
Misc : WG1977425,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 28 00:49:07 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:06 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	72	0.00
33		1,4-Dioxane		0.459	0.432	5.9	78	0.00
34	T	n-Decane		1.388	1.578	-13.7	90	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	79	0.00
87	T	Atrazine		0.315	0.372	-18.1	93	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	82	0.00
101	T	n-Octadecane		0.381	0.516	-35.4#	114	0.00
102	T	Parathion	*	5.000	6.955	-39.1#	142	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	4.480	10.4	96	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ADP0927n.D
Acq On : 28 Sep 2024 12:19 am
Operator : SV107:gmr
Sample : WG1977425-5,32,,ADP RVT CCV Lot #10751
Misc : WG1977425,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 28 00:49:07 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:06 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
32)	IS3_1,4-Dichlorobenzen...	6.469	152	12831	4.000	ug/ml		0.00
86)	IS3_Acenaphthene-d10	9.651	164	29357	4.000	ug/ml		0.00
100)	IS3_Phenanthrene-d10	11.092	188	61933	4.000	ug/ml	#	0.00
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	1.916	88	6936	4.707	ug/ml	#	69
34)	n-Decane	6.363	57	25312	5.683	ug/ml	#	46
87)	Atrazine	10.857	200	13646	5.910	ug/ml		95
101)	n-Octadecane	11.063	57	39973	6.770	ug/ml	#	1
102)	Parathion	11.869	109	8817	6.955	ug/ml	#	95
103)	3,3'-Dimethylbenzidine	13.157	212	48879	4.480	ug/ml		98

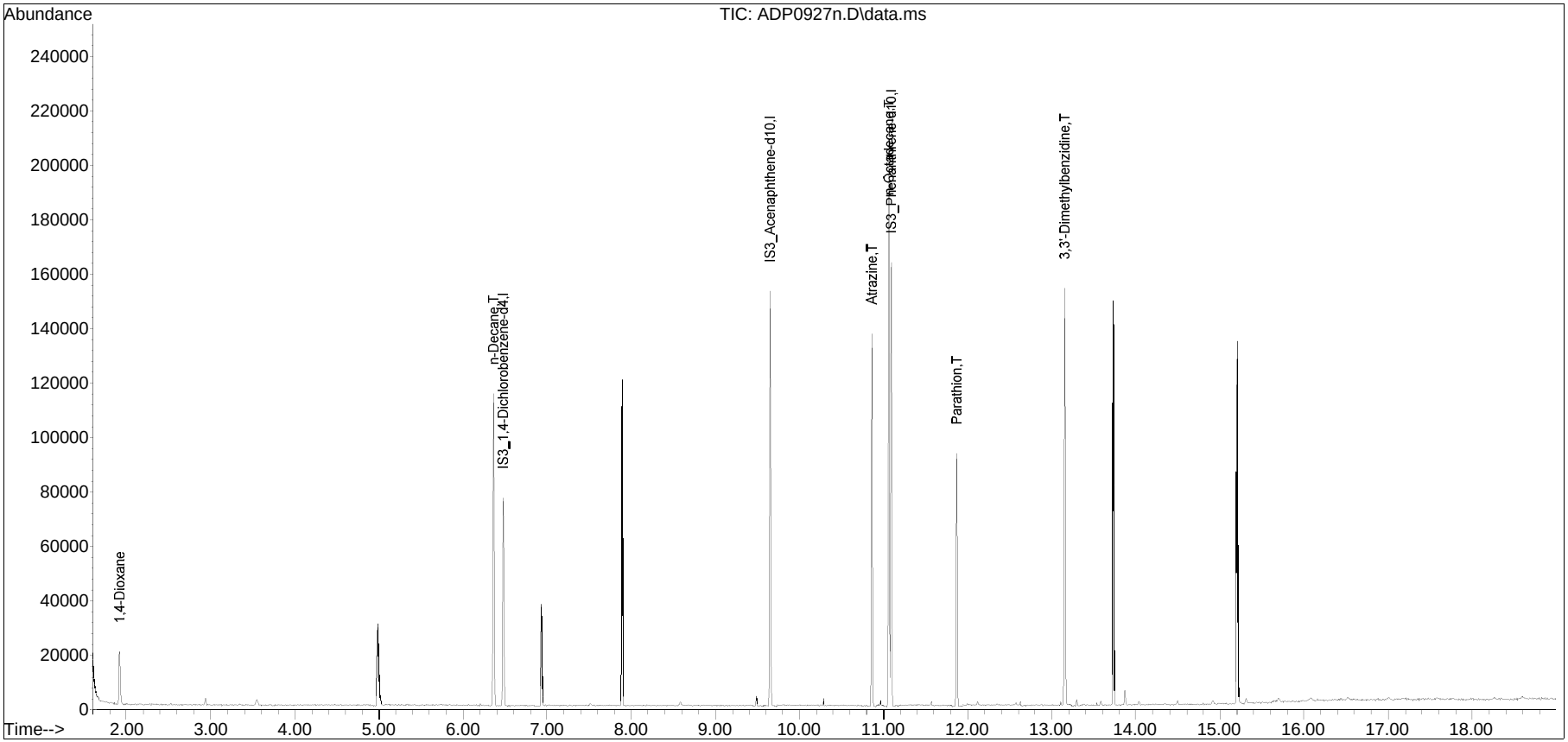
(#) = qualifier out of range (m) = manual integration (+) = signals summed

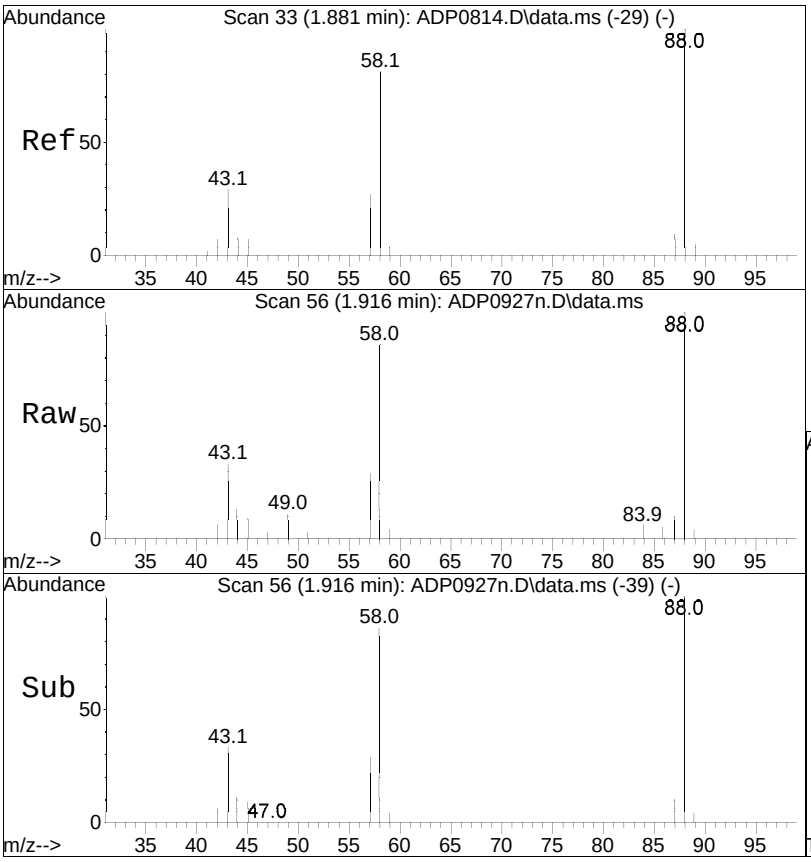
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ADP0927n.D
Acq On : 28 Sep 2024 12:19 am
Operator : SV107:gmr
Sample : WG1977425-5,32,,ADP RVT CCV Lot #10751
Misc : WG1977425,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 28 00:49:07 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:06 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

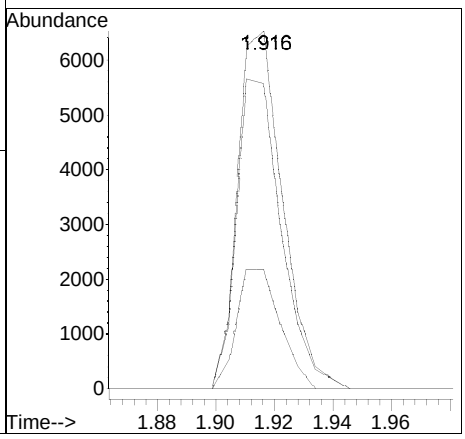


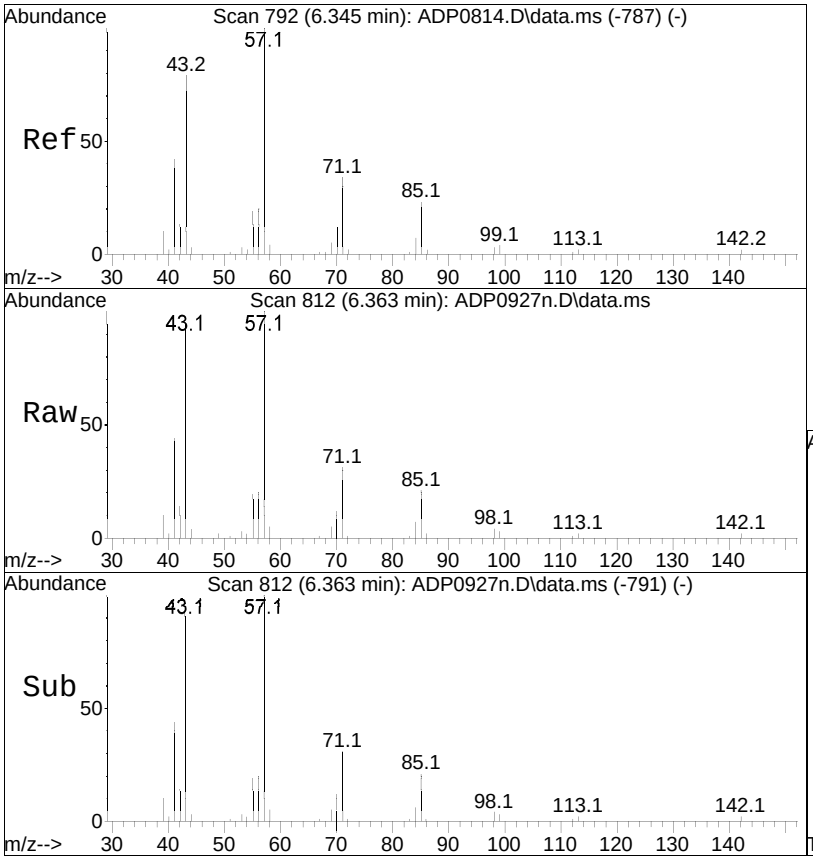


#33
1,4-Dioxane
Concen: 4.71 ug/ml
RT: 1.916 min Scan# 56
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion: 88 Resp: 6936

Ion	Ratio	Lower	Upper
88	100		
58	86.2	44.8	67.2#
43	32.6	22.4	33.6

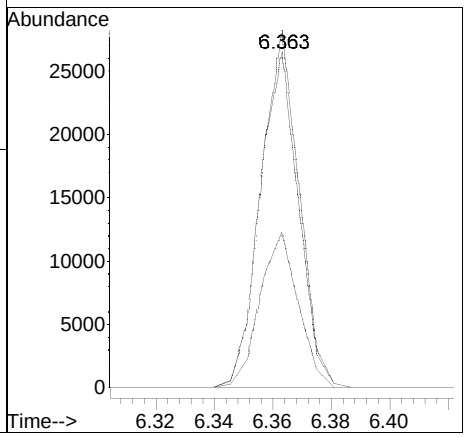


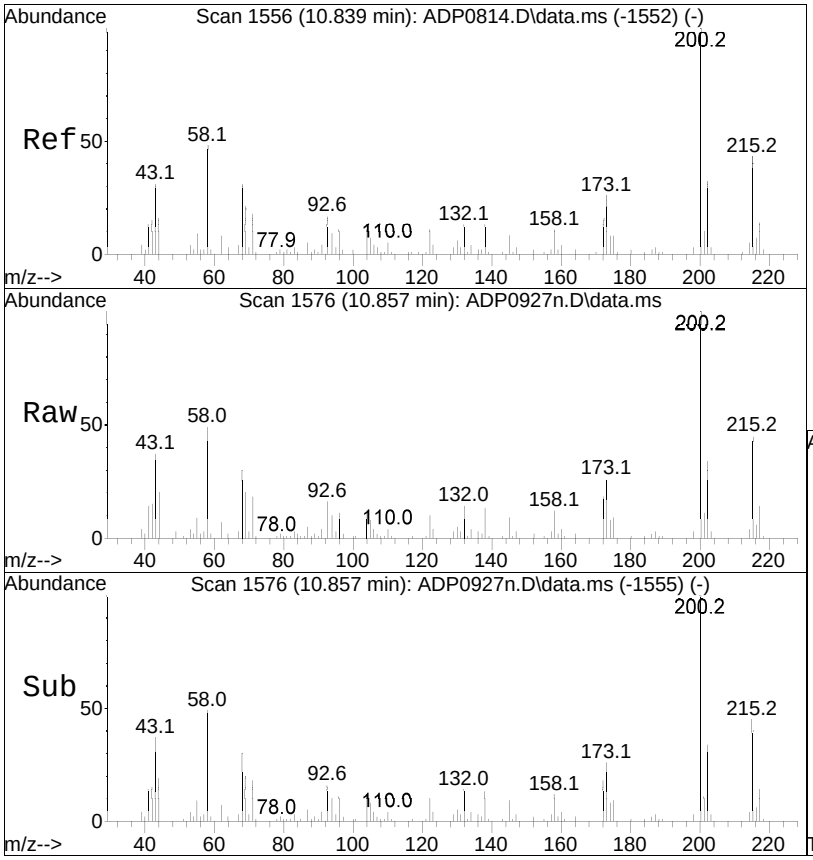


#34
n-Decane
Concen: 5.68 ug/ml
RT: 6.363 min Scan# 812
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion: 57 Resp: 25312

Ion	Ratio	Lower	Upper
57	100		
43	95.0	0.2	0.2#
41	43.9	0.2	0.2#

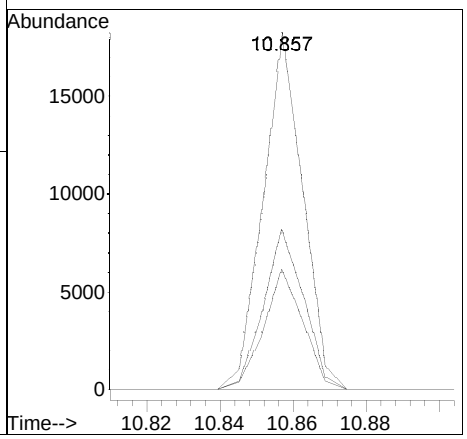


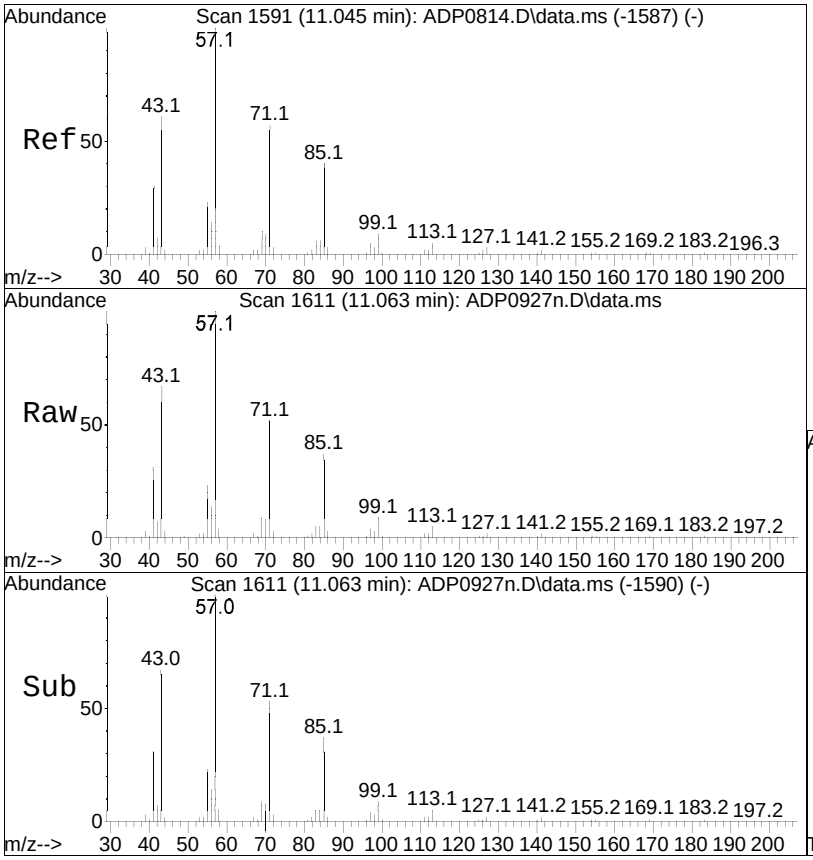


#87
Atrazine
Concen: 5.91 ug/ml
RT: 10.857 min Scan# 1576
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion:200 Resp: 13646

Ion	Ratio	Lower	Upper
200	100		
202	33.6	25.8	38.6
215	45.7	40.2	60.4

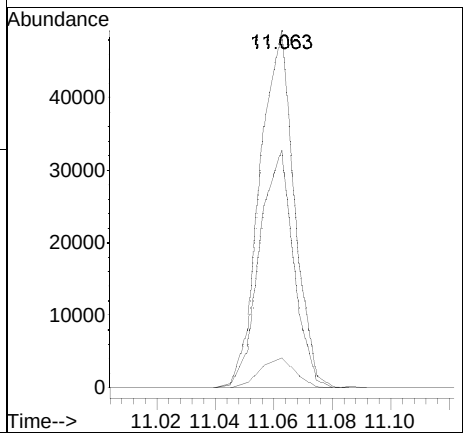


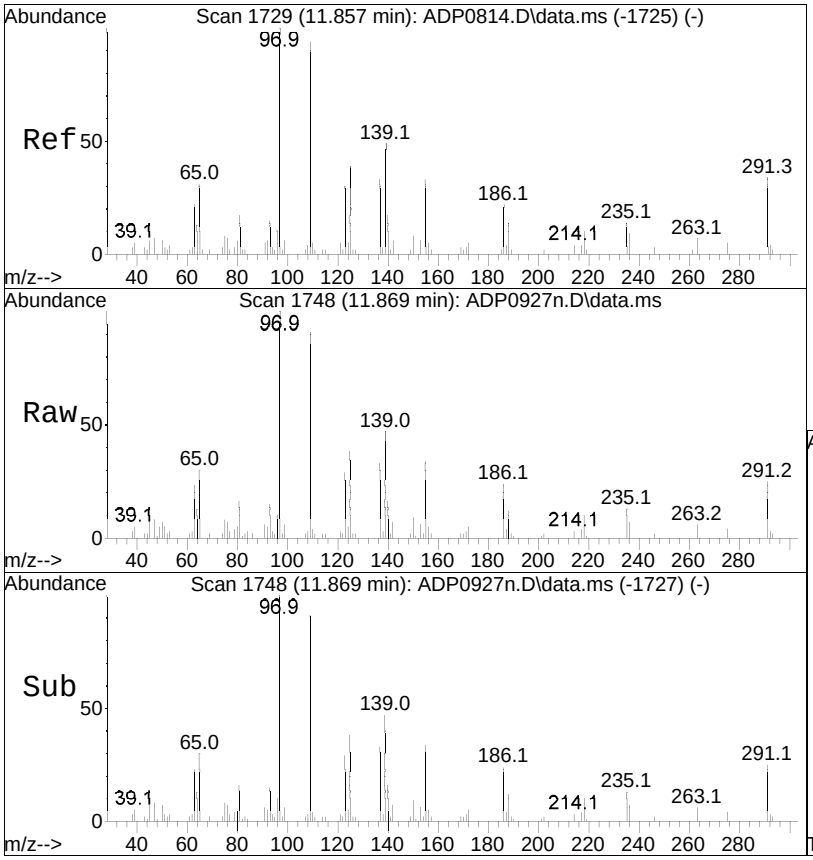


#101
n-Octadecane
Concen: 6.77 ug/ml
RT: 11.063 min Scan# 1611
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion: 57 Resp: 39973

Ion	Ratio	Lower	Upper
57	100		
43	66.1	9.0	13.6#
70	8.6	0.2	0.2#

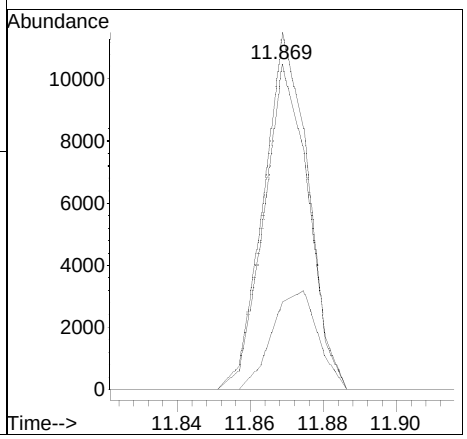


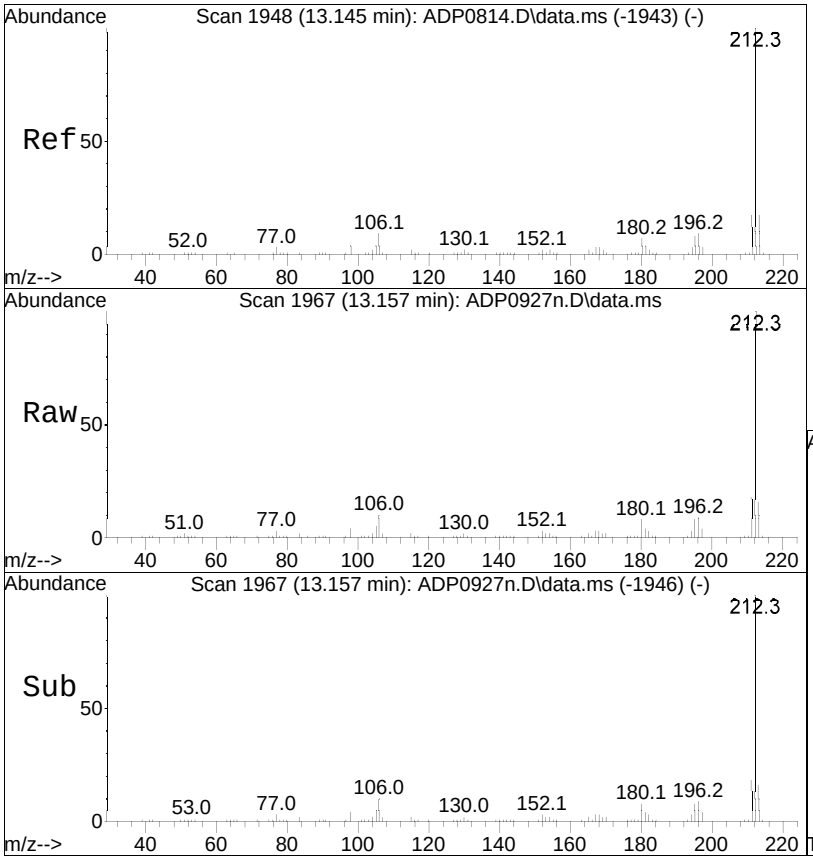


#102
Parathion
Concen: 6.95 ug/ml
RT: 11.869 min Scan# 1748
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion:109 Resp: 8817

Ion	Ratio	Lower	Upper
109	100		
97	109.3	87.4	131.2
291	31.5	34.2	51.2#

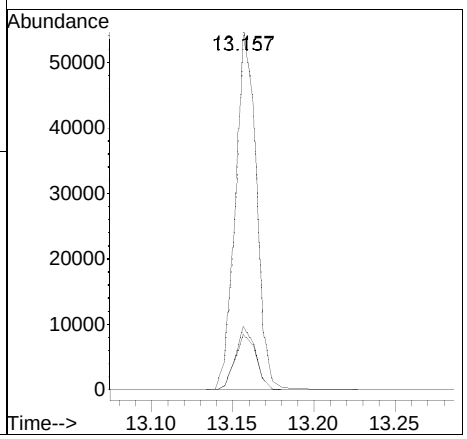




#103
3,3'-Dimethylbenzidine
Concen: 4.48 ug/ml
RT: 13.157 min Scan# 1967
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion:212 Resp: 48879

Ion	Ratio	Lower	Upper
212	100		
211	17.0	12.9	19.3
213	15.8	13.2	19.8



Manual Integration Report

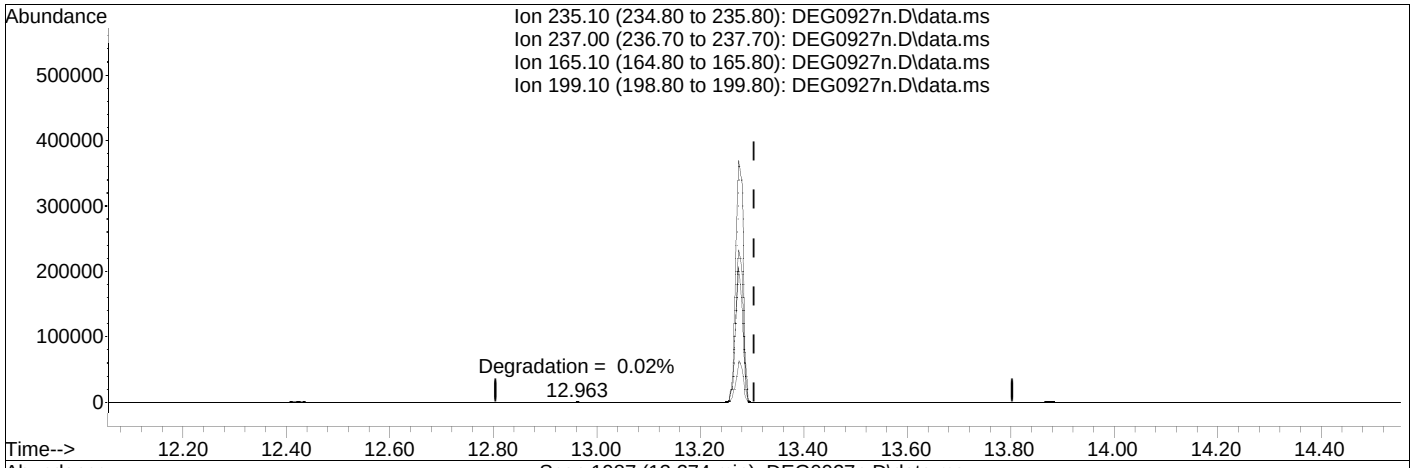
Data Path	: I:\8270\SV107\240927NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: ADP0927n.D	Operator	: SV107:gmr
Date Inj'd	: 9/28/2024 12:19 am	Instrument	: SV107
Sample	: WG1977425-5,32,,ADP RVT CC	Quant Date	: 9/28/2024 0:50 am

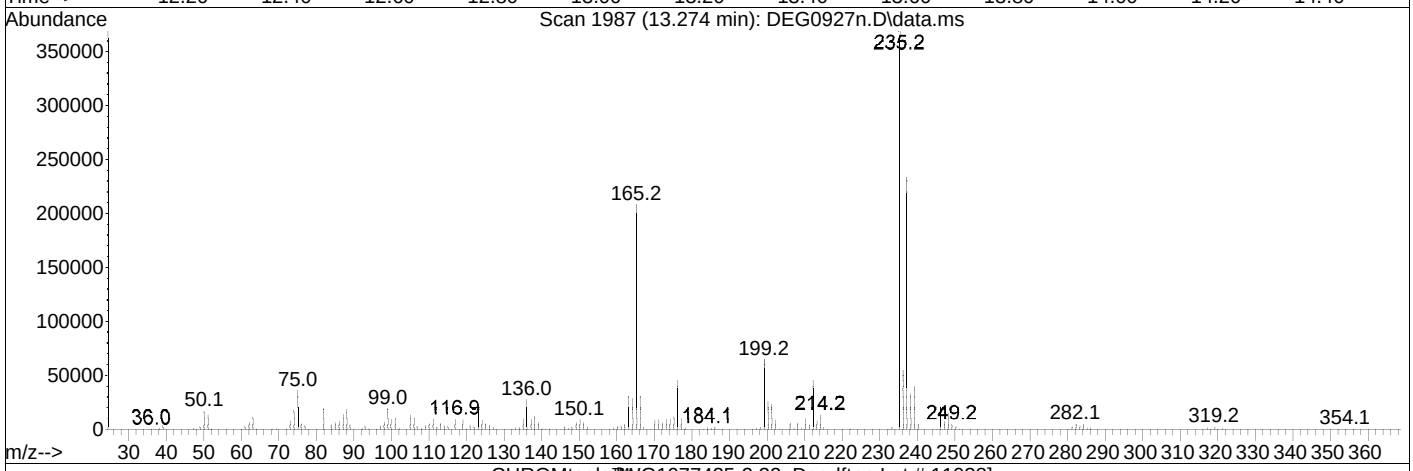
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240927NRVT\
Data File : DEG0927n.D
Acq On : 27 Sep 2024 11:03 pm
Operator : SV107: ASK
Sample : WG1977425-2,32,,Degdftpp Lot # 11038
Misc : WG1977425,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 23:22:19 2024
Quant Method : I:\8270\SV107\240927NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 07:13:20 2024
Response via : Initial Calibration





CHROMtools [WG1977425-2,32,,Degdftpp Lot # 11038]

(6) DDT (T)

13.274min (-0.030) 57.48

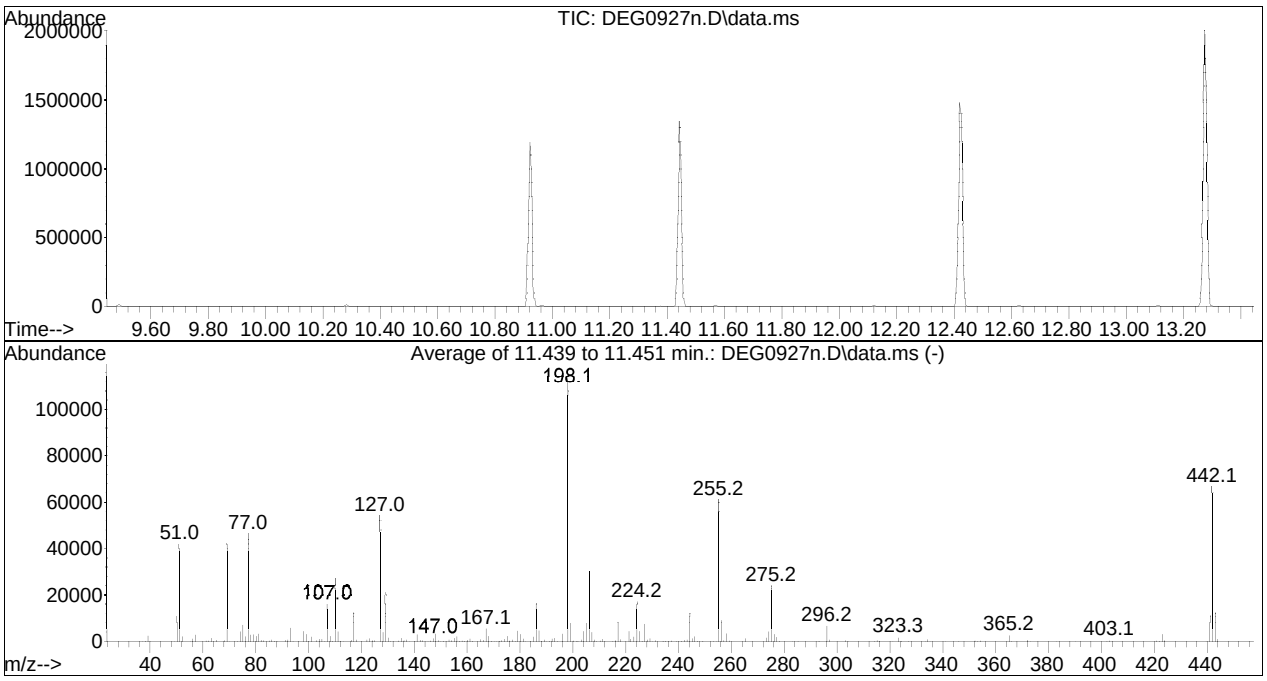
response 350398

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	62.97
165.10	55.40	52.84
199.10	16.20	16.44

Data Path : I:\8270\SV107\240927NRVT\
Data File : DEG0927n.D
Acq On : 27 Sep 2024 11:03 pm
Operator : SV107: ASK
Sample : WG1977425-1,32,,Degdftpp Lot # 11038
Misc : WG1977425,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Sep 28 00:48:04 2024



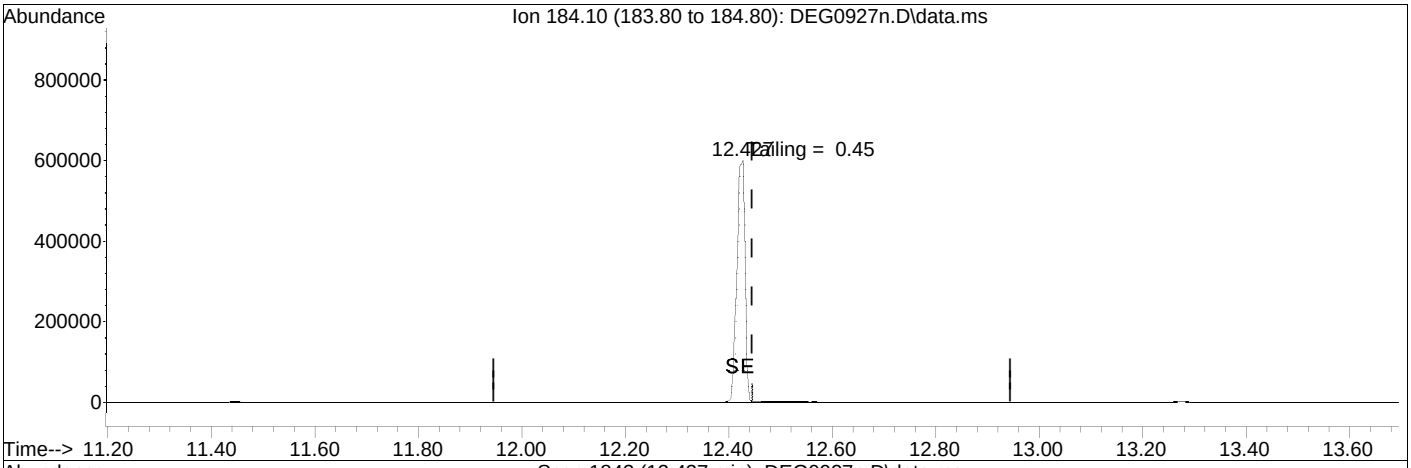
Spectrum Information: Average of 11.439 to 11.451 min.

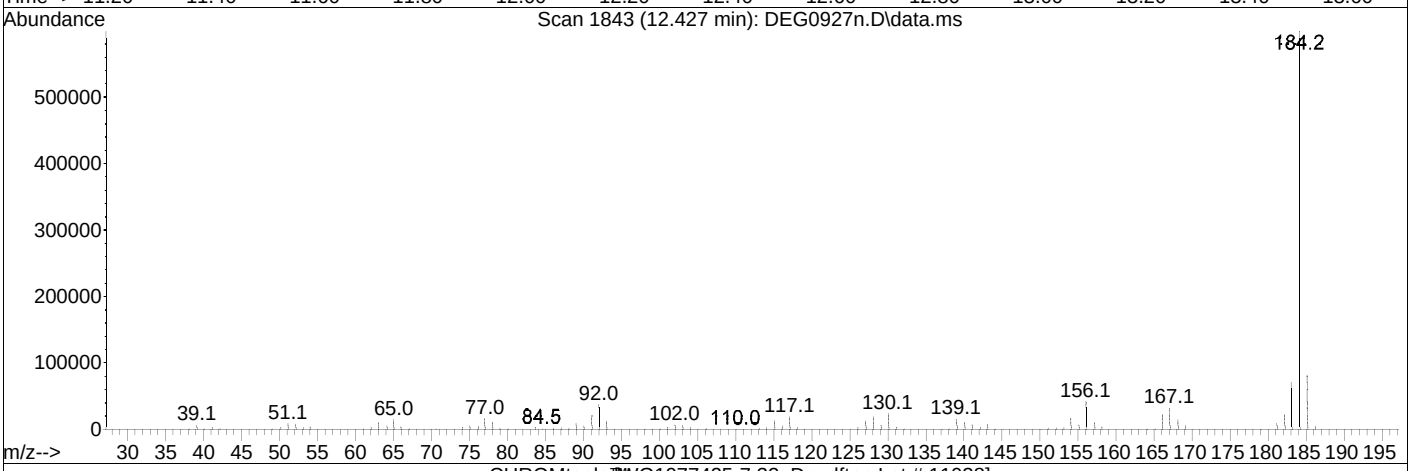
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.9	41945	PASS
68	69	0.00	2	1.7	704	PASS
69	69	100	100	100.0	42093	PASS
70	69	0.00	2	0.5	192	PASS
127	198	10	80	47.7	54235	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	113723	PASS
199	198	5	9	6.7	7613	PASS
275	198	10	60	21.0	23933	PASS
365	198	1	100	2.4	2705	PASS
441	442	0.01	24	16.8	11217	PASS
442	198	50	100	58.6	66659	PASS
443	442	15	24	19.1	12712	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240927NRVT\
Data File : DEG0927n.D
Acq On : 27 Sep 2024 11:03 pm
Operator : SV107: ASK
Sample : WG1977425-7,32,,Degdftpp Lot # 11038
Misc : WG1977425,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 23:22:19 2024
Quant Method : I:\8270\SV107\240927NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 07:13:20 2024
Response via : Initial Calibration





CHROMtools [WG1977425-7,32,,Degdftpp Lot # 11038]

(3) Benzidine (T)

12.427min (-0.018) 58.95

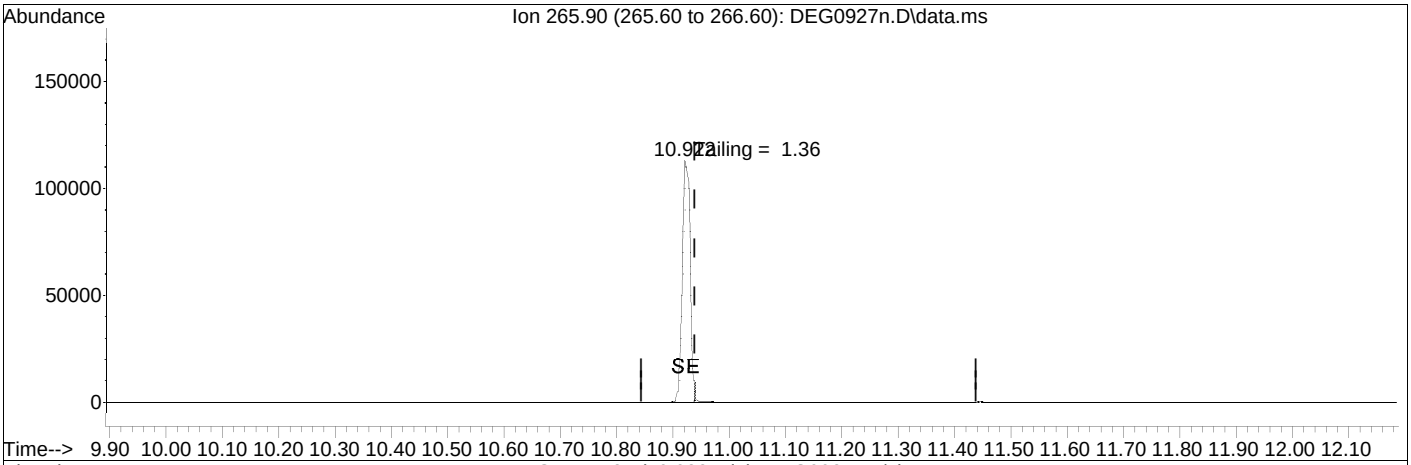
response 600098

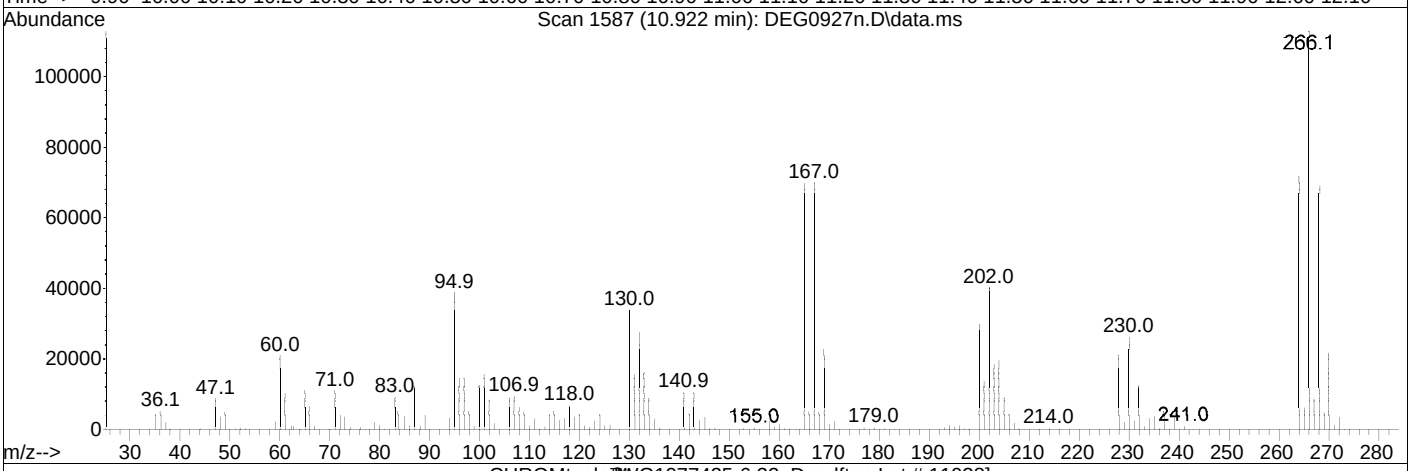
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240927NRVT\
Data File : DEG0927n.D
Acq On : 27 Sep 2024 11:03 pm
Operator : SV107: ASK
Sample : WG1977425-6,32,,Degdftpp Lot # 11038
Misc : WG1977425,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 23:22:19 2024
Quant Method : I:\8270\SV107\240927NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 07:13:20 2024
Response via : Initial Calibration





CHROMtools [WG1977425-6,32,,Degdftpp Lot # 11038]

(1) Pentachlorophenol (T)

10.922min (-0.017) 48.60

response 102084

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Duplicate Retention Times

(2) DFTPP 198.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 27 14:01:50 2024
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.681	152	26388	4.000	ug/ml	0.00
Standard Area 1 = 23724			Recovery = 111.23%			
27) IS2_1,4-Dichlorobenzen...	4.681	152	26388	4.000	ug/ml	0.00
Standard Area 3 = 21185			Recovery = 124.56%			
32) IS3_1,4-Dichlorobenzen...	4.681	152	26388	4.000	ug/ml	0.00
Standard Area 2 = 20154			Recovery = 130.93%			
35) IS1_Naphthalene-d8	5.916	136	96762	4.000	ug/ml	0.00
Standard Area 1 = 87995			Recovery = 109.96%			
55) IS2_Naphthalene-d8	5.916	136	96762	4.000	ug/ml	0.00
Standard Area 3 = 80947			Recovery = 119.54%			
63) IS1_Acenaphthene-d10	7.610	164	61567	4.000	ug/ml	0.00
Standard Area 1 = 59162			Recovery = 104.07%			
83) IS2_Acenaphthene-d10	7.610	164	61567	4.000	ug/ml	0.00
Standard Area 3 = 51656			Recovery = 119.19%			
86) IS3_Acenaphthene-d10	7.610	164	61567	4.000	ug/ml	0.00
Standard Area 2 = 49766			Recovery = 123.71%			
88) IS1_Phenanthrene-d10	9.040	188	134046	4.000	ug/ml	# 0.00
Standard Area 1 = 129228			Recovery = 103.73%			
100) IS3_Phenanthrene-d10	9.040	188	134046	4.000	ug/ml	# 0.00
Standard Area 2 = 115148			Recovery = 116.41%			
104) IS1_Chrysene-d12	11.663	240	158578	4.000	ug/ml	# 0.00
Standard Area 1 = 146679			Recovery = 108.11%			
113) IS1_Perylene-d12	13.128	264	182628	4.000	ug/ml	0.00
Standard Area 1 = 167853			Recovery = 108.80%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.428	112	4034	0.582	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.10%			
7) Phenol-d6	4.369	99	5788	0.647	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 32.35%			
19) Nitrobenzene-d5	5.222	82	5580	0.654	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.40%			
46) 2-Fluorobiphenyl	6.981	172	16272	0.744	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.40%			
79) 2,4,6-Tribromophenol	8.375	330	4319	1.093	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 54.65%			
96) 4-Terphenyl-d14	10.616	244	30000	0.870	ug/ml	0.00

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 27 14:01:50 2024
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Spiked Amount 1.000	Range 30 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.	d	
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 27 14:01:50 2024
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	9.663	149	9031	0.261	ug/ml#	93
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	11.775	149	831	0.033	ug/ml#	56
109) Di-n-octylphthalate	0.000		0	N.D. d		

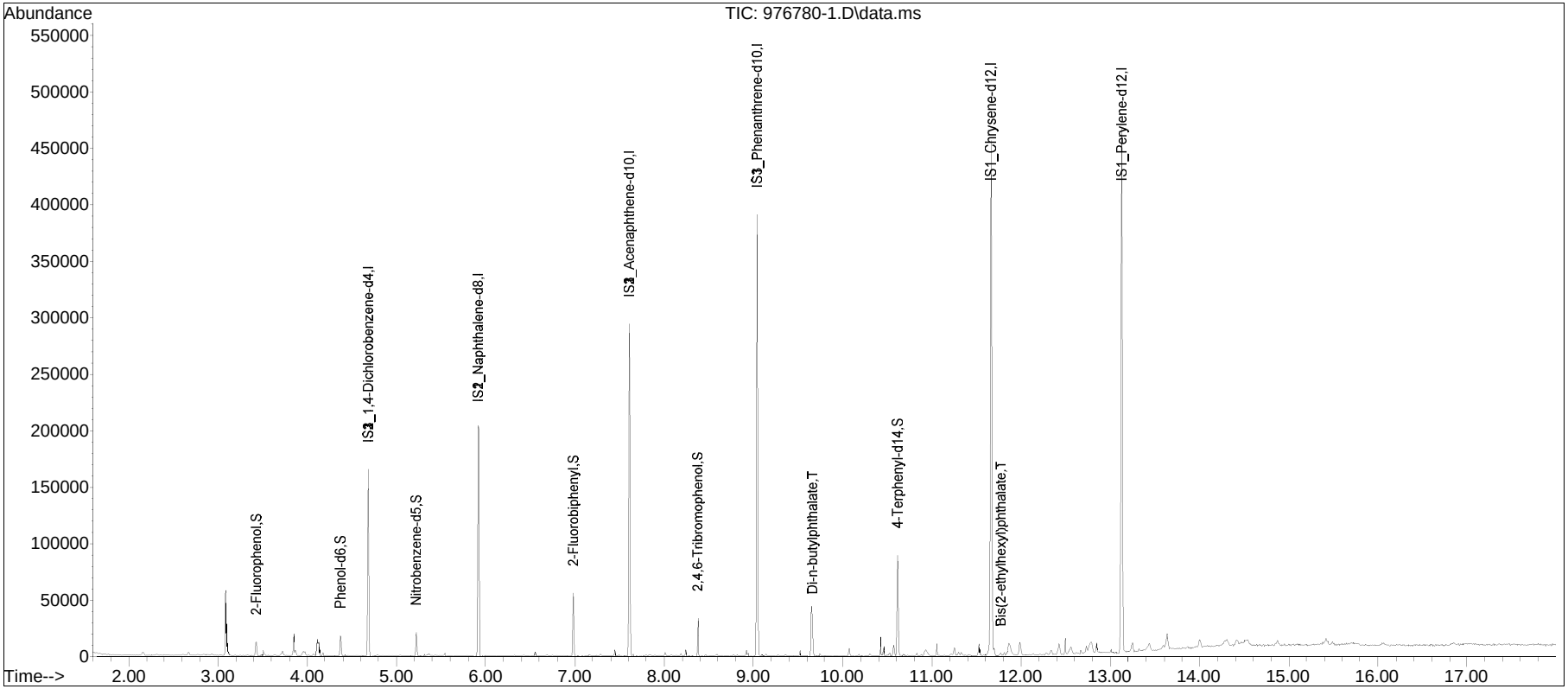
(#) = qualifier out of range (m) = manual integration (+) = signals summed

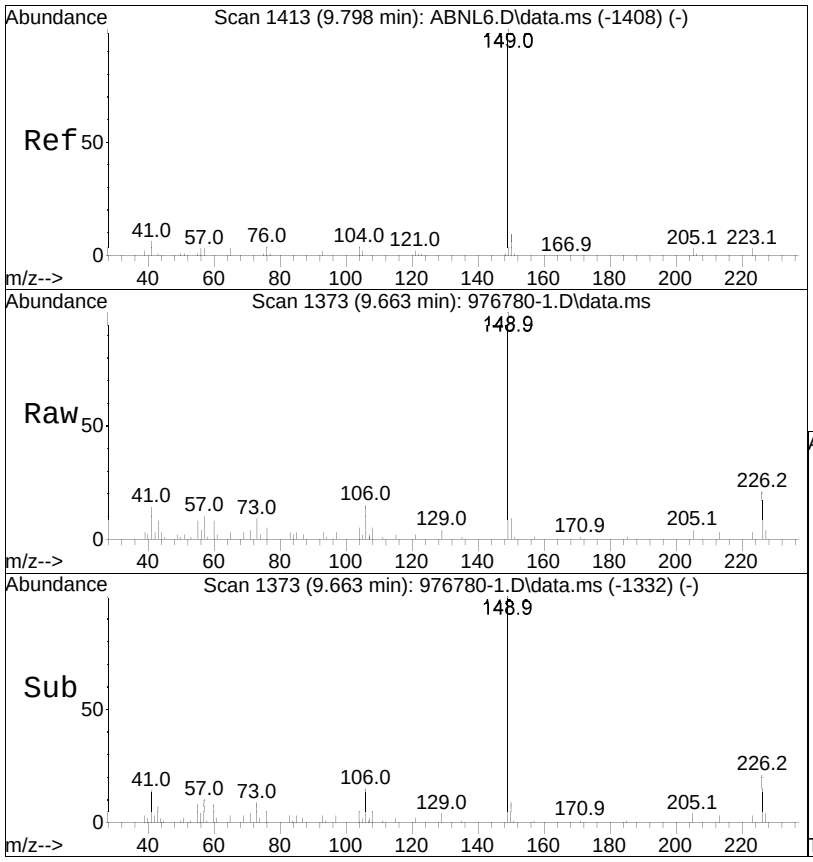
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 27 14:01:50 2024
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90927.D•

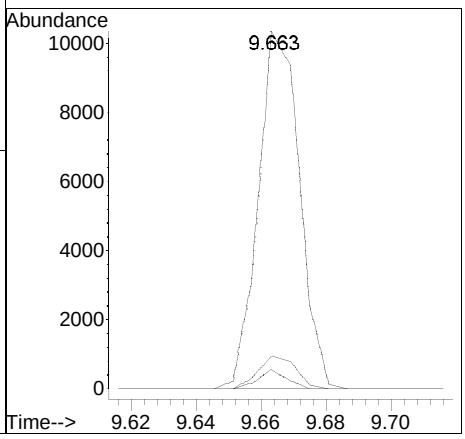


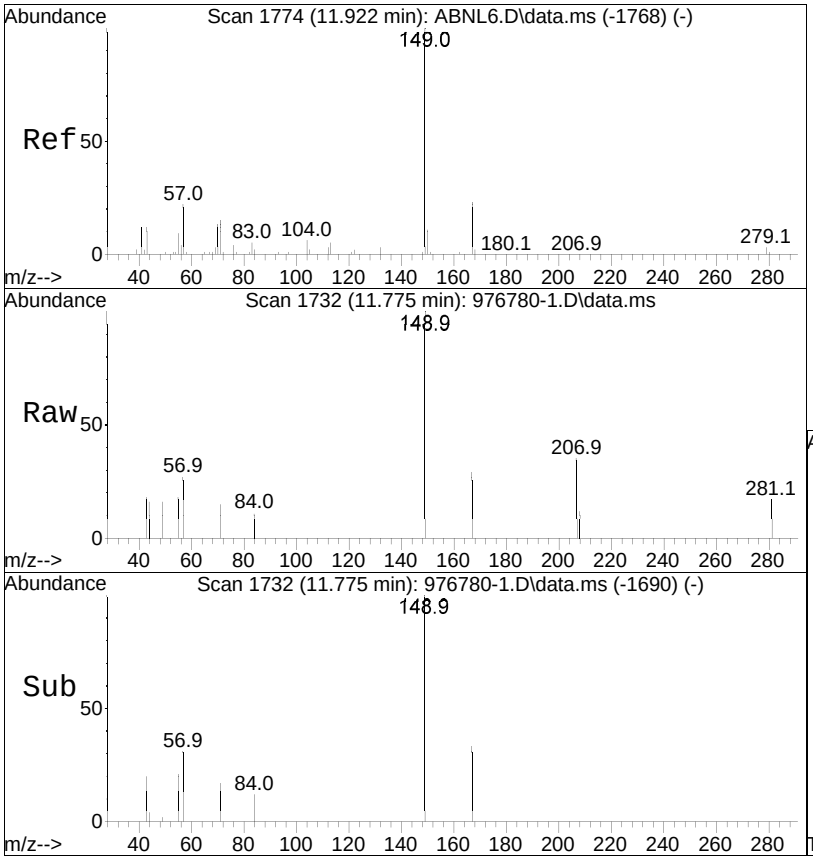


#92
Di-n-butylphthalate
Concen: 0.26 ug/ml
RT: 9.663 min Scan# 1373
Delta R.T. -0.006 min
Lab File: 976780-1.D
Acq: 27 Sep 2024 12:29 pm

Tgt Ion:149 Resp: 9031

Ion	Ratio	Lower	Upper
149	100		
150	8.4	7.3	10.9
104	0.0	4.0	6.0#

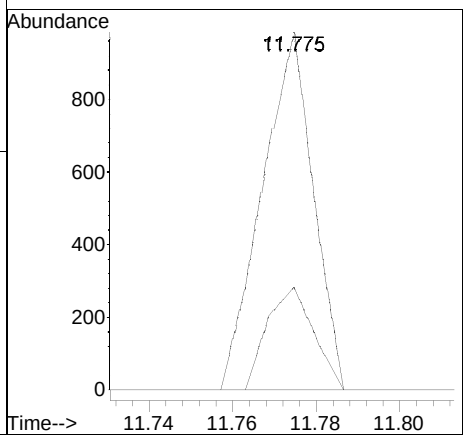




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.03 ug/ml
RT: 11.775 min Scan# 1732
Delta R.T. -0.000 min
Lab File: 976780-1.D
Acq: 27 Sep 2024 12:29 pm

Tgt Ion:149 Resp: 831

Ion	Ratio	Lower	Upper
149	100		
167	0.0	18.4	27.6#
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240927RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 976780-1.D	Operator	: SV112:im
Date Inj'd	: 9/27/2024 12:29 pm	Instrument	: SV112
Sample	: WG1976780-1,32,,gmr	Quant Date	: 9/27/2024 12:47 pm

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

LSC Area Percent Report

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 976780-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.081	251	254	263	rVB	56751	66708	14.18%	2.785%
2	3.428	309	313	316	rVB	12468	12692	2.70%	0.530%
3	3.511	324	327	332	rBV3	4398	5849	1.24%	0.244%
4	3.722	356	363	369	rBV2	3929	5650	1.20%	0.236%
5	3.846	380	384	387	rBV	18392	21672	4.61%	0.905%
6	3.958	399	403	405	rBV4	3592	5152	1.10%	0.215%
7	4.110	426	429	431	rBV	14207	17261	3.67%	0.721%
8	4.369	470	473	477	rVB	17686	15298	3.25%	0.639%
9	4.681	522	526	530	rVB	165383	136454	29.01%	5.697%
10	5.222	615	618	621	rBV	20893	16115	3.43%	0.673%
11	5.910	732	735	739	rBV	204022	184388	39.19%	7.699%
12	6.981	913	917	920	rBV	55910	42828	9.10%	1.788%
13	7.610	1021	1024	1028	rBV	293917	254983	54.20%	10.646%
14	8.234	1127	1130	1134	rBV2	5297	5024	1.07%	0.210%
15	8.375	1150	1154	1157	rBV	33808	27085	5.76%	1.131%
16	8.916	1242	1246	1248	rBV	5017	5001	1.06%	0.209%
17	9.040	1263	1267	1271	rBV	390193	311451	66.20%	13.004%
18	9.657	1368	1372	1376	rBV3	44260	51323	10.91%	2.143%
19	10.075	1439	1443	1446	rBV	6862	6477	1.38%	0.270%
20	10.422	1499	1502	1505	rBV	16689	13084	2.78%	0.546%
21	10.457	1505	1508	1511	rVB	7900	6972	1.48%	0.291%
22	10.575	1523	1528	1532	rBV2	9509	9217	1.96%	0.385%
23	10.616	1532	1535	1539	rBV	88756	74327	15.80%	3.103%
24	10.928	1583	1588	1598	rVB6	5016	12293	2.61%	0.513%
25	11.057	1606	1610	1614	rBV2	10690	10110	2.15%	0.422%
26	11.251	1639	1643	1646	rVB3	6244	6974	1.48%	0.291%
27	11.528	1685	1690	1693	rBV2	9541	10621	2.26%	0.443%
28	11.663	1705	1713	1717	rBV	455379	433381	92.12%	18.095%

LSC Area Percent Report

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270

29	11.869	1741	1748	1757	rVB3	10097	23157	4.92%	0.967%
30	11.987	1763	1768	1773	rBV2	10847	14137	3.01%	0.590%
31	12.334	1823	1827	1831	rVB4	3936	5454	1.16%	0.228%
32	12.422	1837	1842	1847	rVB3	9615	13931	2.96%	0.582%
33	12.498	1851	1855	1859	rBV	14094	14866	3.16%	0.621%
34	12.563	1859	1866	1870	rVV3	6035	11450	2.43%	0.478%
35	12.734	1892	1895	1898	rBV4	5194	5249	1.12%	0.219%
36	12.786	1898	1904	1909	rVV4	8965	21016	4.47%	0.877%
37	12.845	1910	1914	1919	rVB2	8454	9668	2.06%	0.404%
38	13.128	1957	1962	1967	rBV	463963	470440	100.00%	19.642%
39	13.251	1979	1983	1986	rVB3	7841	9573	2.03%	0.400%
40	13.628	2044	2047	2054	rVB5	13174	27764	5.90%	1.159%

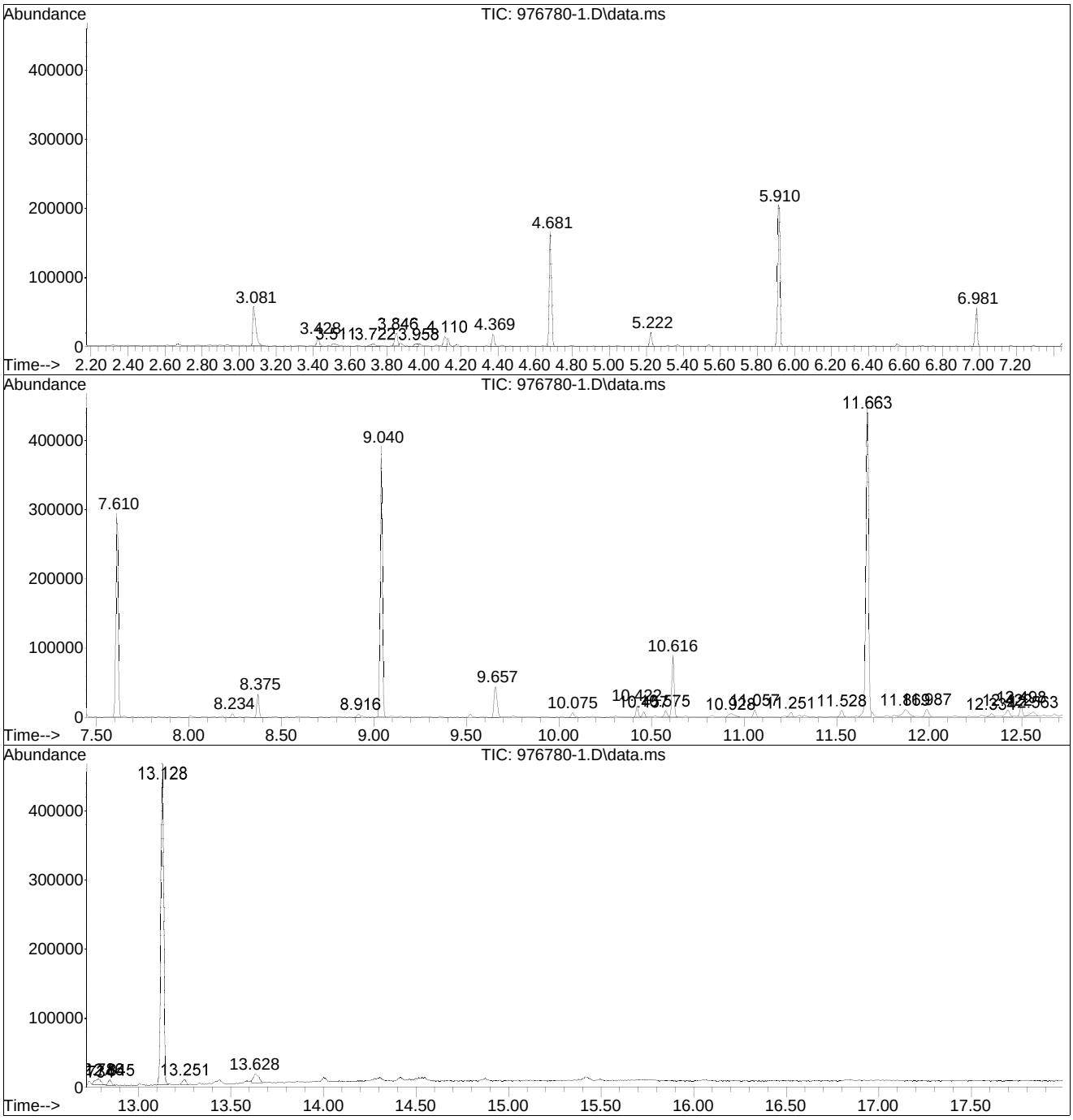
Sum of corrected areas: 2395095

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Title : Semivolatiles by GC/MS by modified 8270

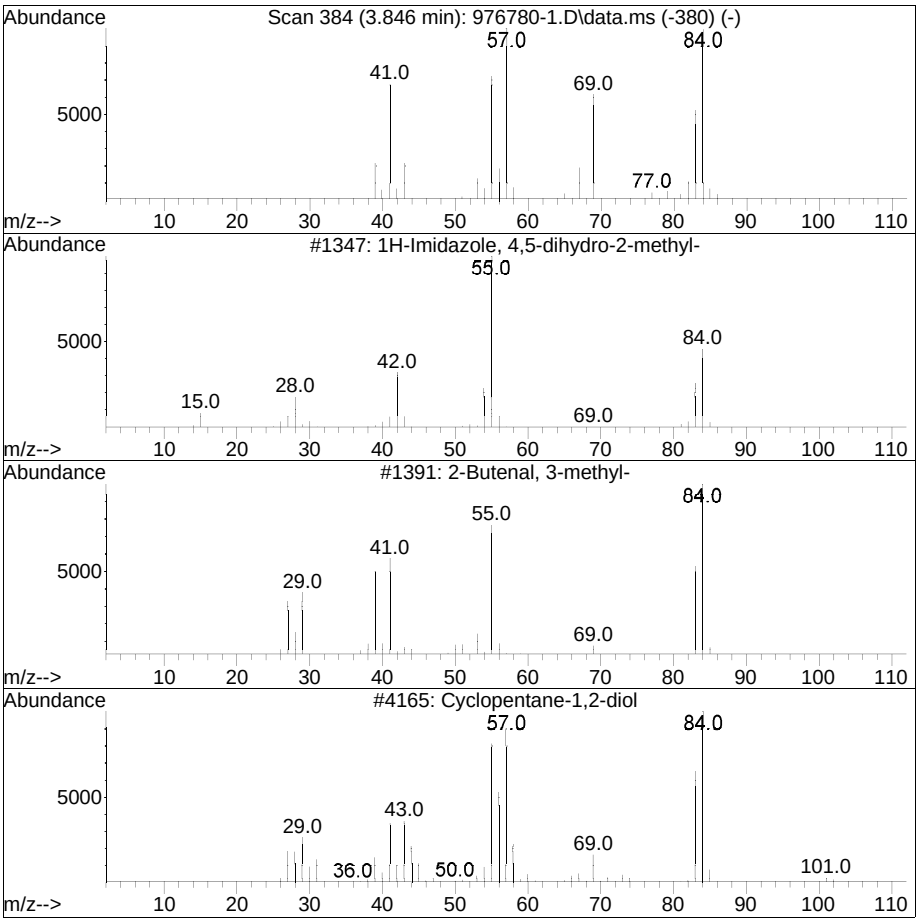
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

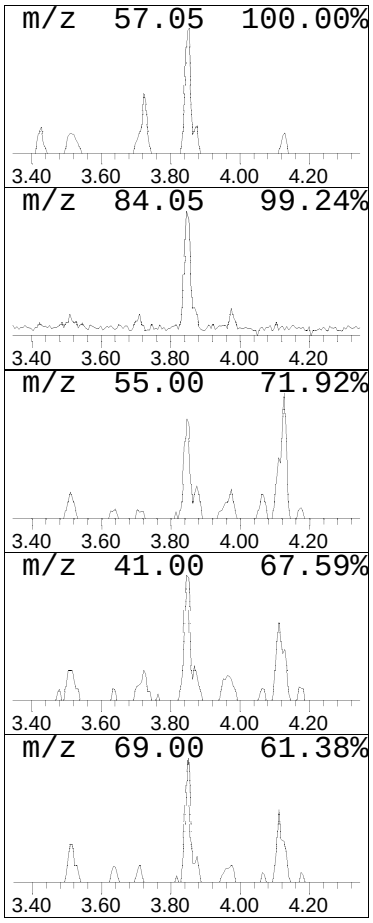
****

Peak Number 2 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.846	0.64 ug/ml	21672	IS2_1,4-Dichlorobenzene-d4	4.681

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Imidazole, 4,5-dihydro-2-methyl-	84	C4H8N2	000534-26-9	53
2	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	42
3	Cyclopentane-1,2-diol	102	C5H10O2	1000194-24-0	39
4	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	38
5	1-Butene, 2,3-dimethyl-	84	C6H12	000563-78-0	37





Library Search Compound Report

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Title : Semivolatiles by GC/MS by modified 8270

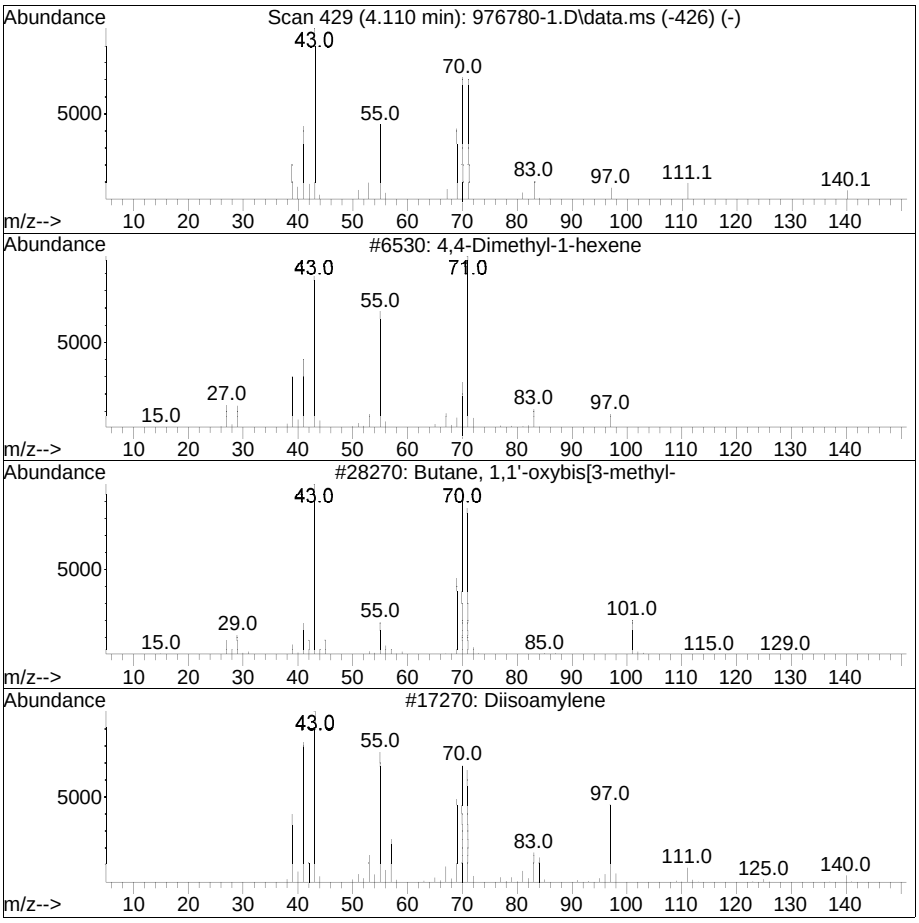
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

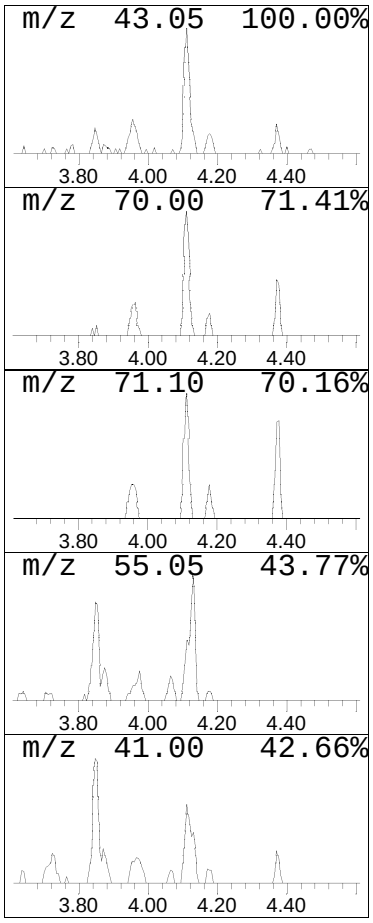
****

Peak Number 3 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.110	0.51 ug/ml	17261	IS2_1,4-Dichlorobenzene-d4	4.681

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4-Dimethyl-1-hexene	112	C8H16	001647-08-1	43
2	Butane, 1,1'-oxybis[3-methyl-	158	C10H22O	000544-01-4	42
3	Diisoamylene	140	C10H20	054063-09-1	38
4	Cyclopentane, 1,1,3,3-tetramethyl-	126	C9H18	050876-33-0	37
5	2-Nonene, 3-methyl-, (E)-	140	C10H20	017003-99-5	37





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-1.D
Acq On : 27 Sep 2024 12:29 pm
Operator : SV112:im
Sample : WG1976780-1,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	3.846	0.6	ug/ml	21672	1	4.681	136454	4.0
Unknown	4.110	0.5	ug/ml	17261	1	4.681	136454	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-2.D
Acq On : 27 Sep 2024 12:52 pm
Operator : SV112:im
Sample : WG1976780-2,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 14:03:16 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.681	152	23469	4.000	ug/ml		0.00
Standard Area 1 = 23724			Recovery = 98.93%				
27) IS2_1,4-Dichlorobenzen...	4.681	152	23469	4.000	ug/ml		0.00
Standard Area 3 = 21185			Recovery = 110.78%				
32) IS3_1,4-Dichlorobenzen...	4.681	152	23469	4.000	ug/ml		0.00
Standard Area 2 = 20154			Recovery = 116.45%				
35) IS1_Naphthalene-d8	5.916	136	87204	4.000	ug/ml		0.00
Standard Area 1 = 87995			Recovery = 99.10%				
55) IS2_Naphthalene-d8	5.916	136	87204	4.000	ug/ml		0.00
Standard Area 3 = 80947			Recovery = 107.73%				
63) IS1_Acenaphthene-d10	7.610	164	55988	4.000	ug/ml		0.00
Standard Area 1 = 59162			Recovery = 94.64%				
83) IS2_Acenaphthene-d10	7.610	164	55988	4.000	ug/ml		0.00
Standard Area 3 = 51656			Recovery = 108.39%				
86) IS3_Acenaphthene-d10	7.610	164	55988	4.000	ug/ml		0.00
Standard Area 2 = 49766			Recovery = 112.50%				
88) IS1_Phenanthrene-d10	9.040	188	123076	4.000	ug/ml	#	0.00
Standard Area 1 = 129228			Recovery = 95.24%				
100) IS3_Phenanthrene-d10	9.040	188	123076	4.000	ug/ml	#	0.00
Standard Area 2 = 115148			Recovery = 106.89%				
104) IS1_Chrysene-d12	11.663	240	139246	4.000	ug/ml	#	0.00
Standard Area 1 = 146679			Recovery = 94.93%				
113) IS1_Perylene-d12	13.128	264	161790	4.000	ug/ml		0.00
Standard Area 1 = 167853			Recovery = 96.39%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.428	112	5276	0.856	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.80%				
7) Phenol-d6	4.369	99	5925	0.744	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 37.20%				
19) Nitrobenzene-d5	5.222	82	5043	0.664	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 66.40%				
46) 2-Fluorobiphenyl	6.981	172	14713	0.746	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.60%				
79) 2,4,6-Tribromophenol	8.375	330	5419	1.508	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 75.40%				

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-2.D
Acq On : 27 Sep 2024 12:52 pm
Operator : SV112:im
Sample : WG1976780-2,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 14:03:16 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.616	244	25388	0.802	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 80.20%

Target Compounds						Qvalue
6) 2-Chlorophenol	4.481	128	10043	1.369	ug/ml#	89
8) Phenol	4.381	94	7328	0.792	ug/ml#	48
14) Bis(2-chloroisopropyl)...	4.975	45	13866	1.603	ug/ml#	72
15) 2-Methylphenol	4.969	108	8779	1.416	ug/ml	96
17) n-Nitrosodi-n-propylamine	5.099	70	6828	1.345	ug/ml	97
18) 3-Methylphenol/4-Methy...	5.122	108	8829	1.308	ug/ml	92
20) Nitrobenzene	5.240	77	10311	1.363	ug/ml	92
21) Isophorone	5.481	82	18917	1.385	ug/ml#	93
22) 2-Nitrophenol	5.552	139	6057	1.798	ug/ml#	83
23) 2,4-Dimethylphenol	5.628	107	7193	1.113	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.716	93	13402	1.458	ug/ml	98
25) 2,4-Dichlorophenol	5.793	162	10792	1.596	ug/ml#	91
28) Benzaldehyde	4.252	105	7518	1.172	ug/ml	96
29) Acetophenone	5.081	105	15416	1.381	ug/ml	98
38) 4-Chloroaniline	6.005	65	3296M3	1.283	ug/ml	
40) p-Chloro-m-cresol	6.505	107	9609	1.592	ug/ml#	83
43) Hexachlorocyclopentadiene	6.781	237	6012	1.099	ug/ml	96
44) 2,4,6-Trichlorophenol	6.899	196	6894	1.233	ug/ml	99
45) 2,4,5-Trichlorophenol	6.928	196	8522	1.490	ug/ml	91
48) 2-Nitroaniline	7.187	138	8447	1.933	ug/ml#	79
51) Dimethyl phthalate	7.387	163	33708	1.676	ug/ml	99
53) 2,6-Dinitrotoluene	7.428	165	7100	1.887	ug/ml#	76
60) Caprolactam	6.305	55	2104	0.995	ug/ml	91
61) 1,2,4,5-Tetrachloroben...	6.781	216	13302	1.273	ug/ml	95
62) Biphenyl	7.069	154	30336	1.356	ug/ml	98
64) 3-Nitroaniline	7.587	138	7460	1.784	ug/ml#	83
66) 2,4-Dinitrophenol	7.681	184	1119	0.841	ug/ml#	62
67) Dibenzofuran	7.810	168	39173	1.523	ug/ml	89
68) 2,4-Dinitrotoluene	7.816	165	10074	1.878	ug/ml#	74
69) 4-Nitrophenol	7.775	65	1339	0.330	ug/ml#	65
72) Diethyl phthalate	8.075	149	33861	1.627	ug/ml	95
74) 4-Chlorophenyl phenyl ...	8.163	204	16107	1.476	ug/ml#	79
75) 4-Nitroaniline	8.169	138	7940	1.805	ug/ml#	80

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-2.D
Acq On : 27 Sep 2024 12:52 pm
Operator : SV112:im
Sample : WG1976780-2,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 14:03:16 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	8.205	198	3004	1.065 ug/ml#	76
77) NDPA/DPA	8.275	169	27933	1.622 ug/ml	95
80) 4-Bromophenyl phenyl e...	8.628	248	10847	1.551 ug/ml#	82
87) Atrazine	8.810	200	10611	1.718 ug/ml	98
91) Carbazole	9.281	167	51040	1.750 ug/ml	98
92) Di-n-butylphthalate	9.663	149	67885	2.134 ug/ml	98
97) Butyl benzyl phthalate	11.140	149	28555	2.028 ug/ml#	85
106) 3,3'-Dichlorobenzidine	11.657	252	27342	1.679 ug/ml#	97
108) Bis(2-ethylhexyl)phtha...	11.775	149	43345	1.950 ug/ml#	99
109) Di-n-octylphthalate	12.445	149	73555	2.159 ug/ml#	94

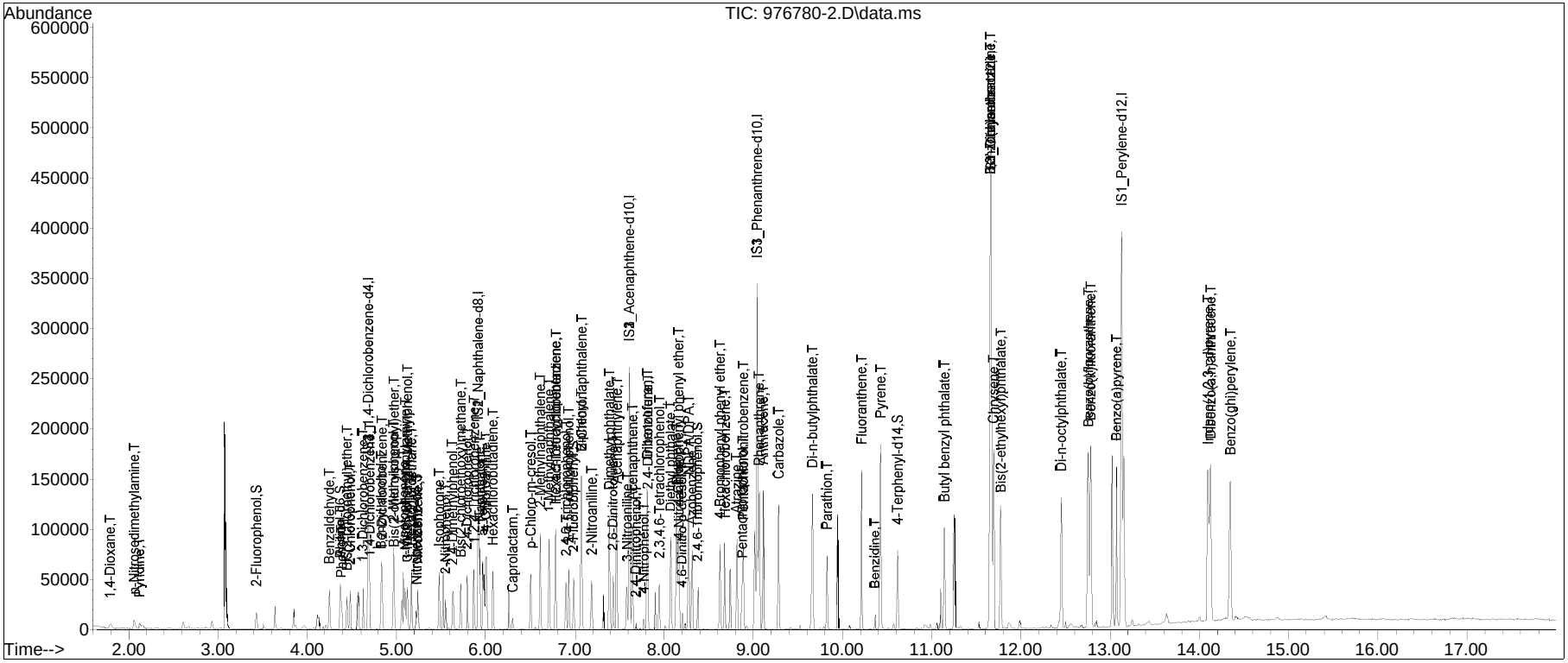
(#) = qualifier out of range (m) = manual integration (+) = signals summed

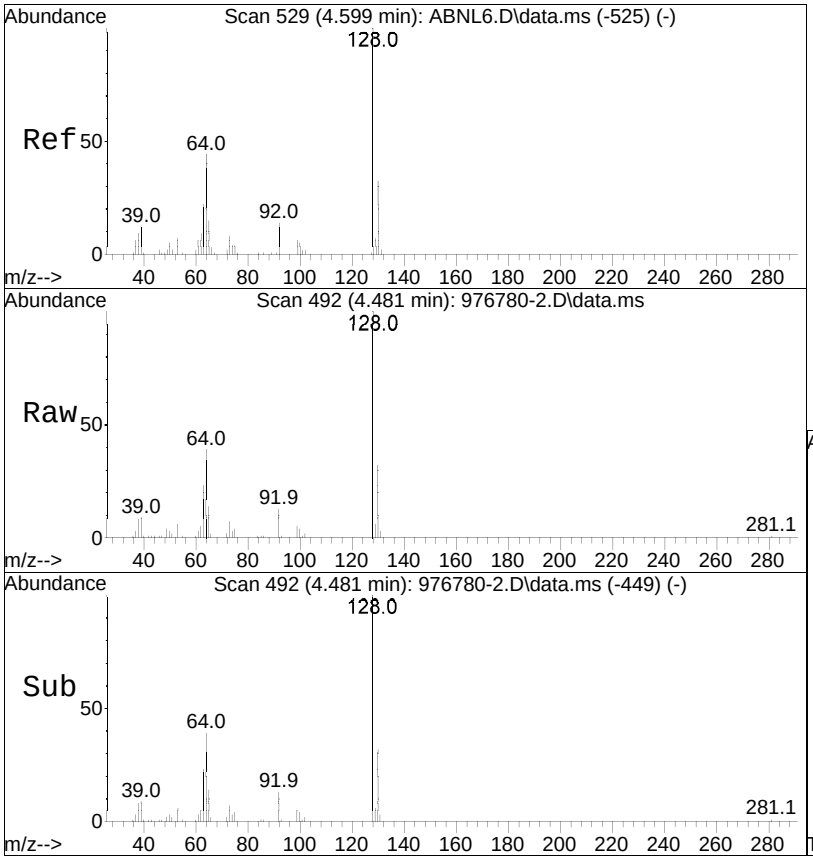
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-2.D
Acq On : 27 Sep 2024 12:52 pm
Operator : SV112:im
Sample : WG1976780-2,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 14:03:16 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90927.D•

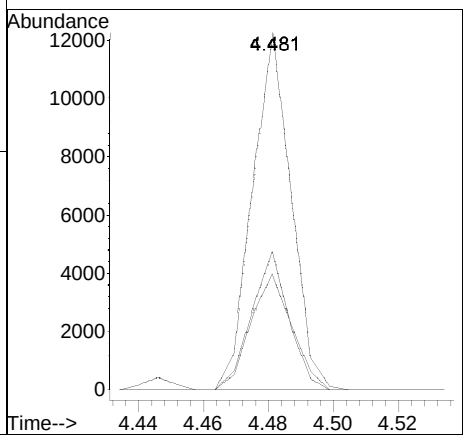


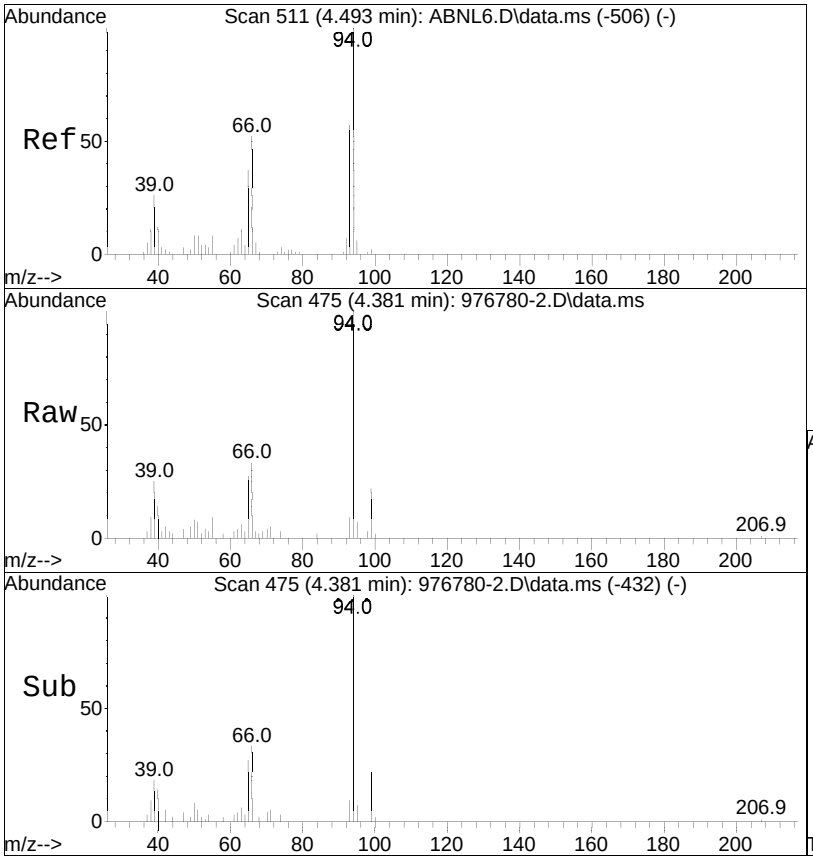


#6
2-Chlorophenol
Concen: 1.37 ug/ml
RT: 4.481 min Scan# 492
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:128 Resp: 10043

Ion	Ratio	Lower	Upper
128	100		
64	37.5	38.2	57.4#
130	34.8	26.2	39.2

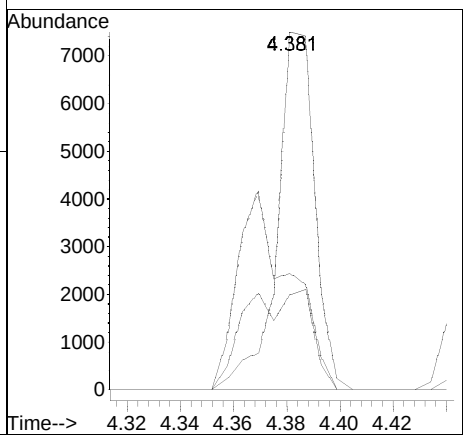


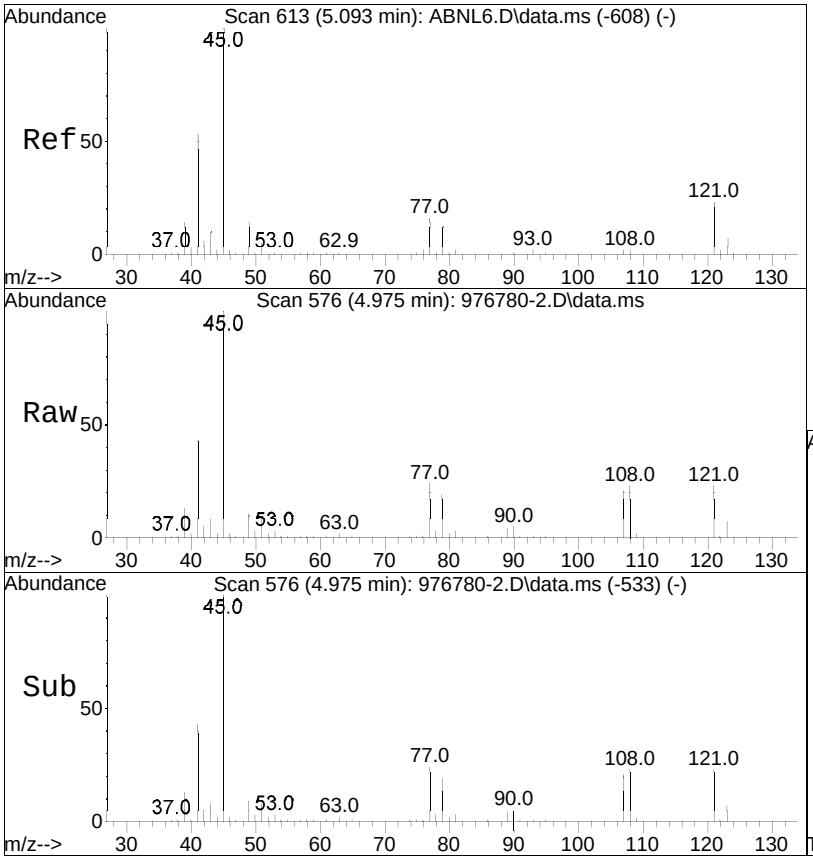


#8
Phenol
Concen: 0.79 ug/ml
RT: 4.381 min Scan# 475
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 94 Resp: 7328

Ion	Ratio	Lower	Upper
94	100		
65	49.3	23.0	34.6#
66	77.9	32.1	48.1#

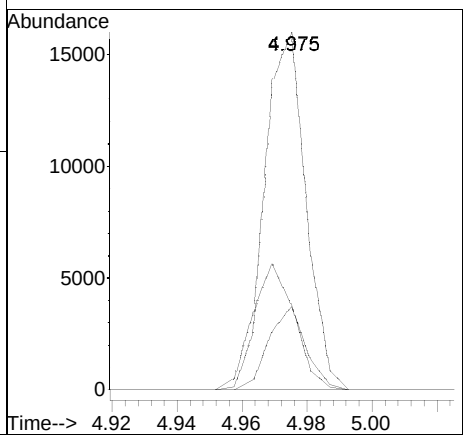


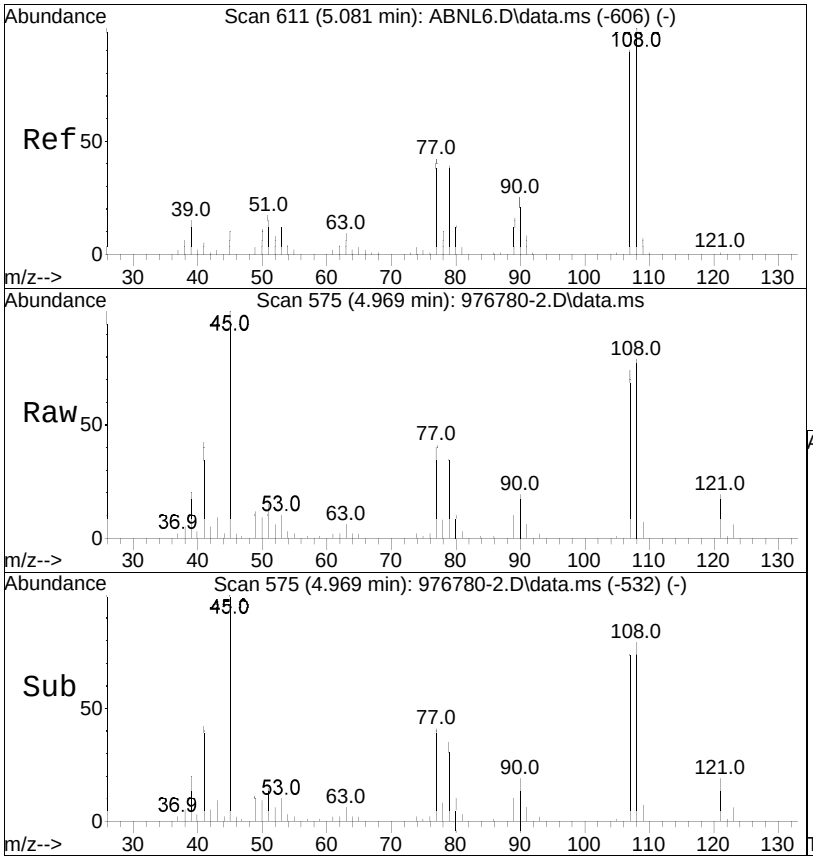


#14
Bis(2-chloroisopropyl)ether
Concen: 1.60 ug/ml
RT: 4.975 min Scan# 576
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 45 Resp: 13866

Ion	Ratio	Lower	Upper
45	100		
121	21.3	14.8	22.2
77	36.5	10.5	15.7#

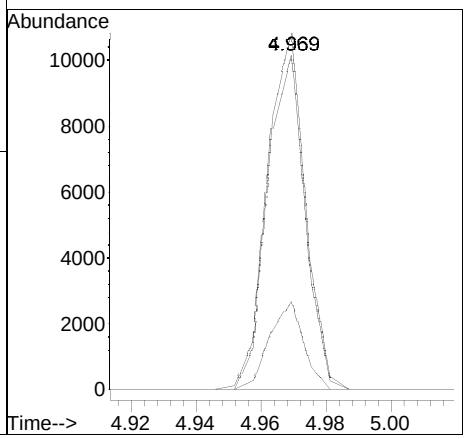


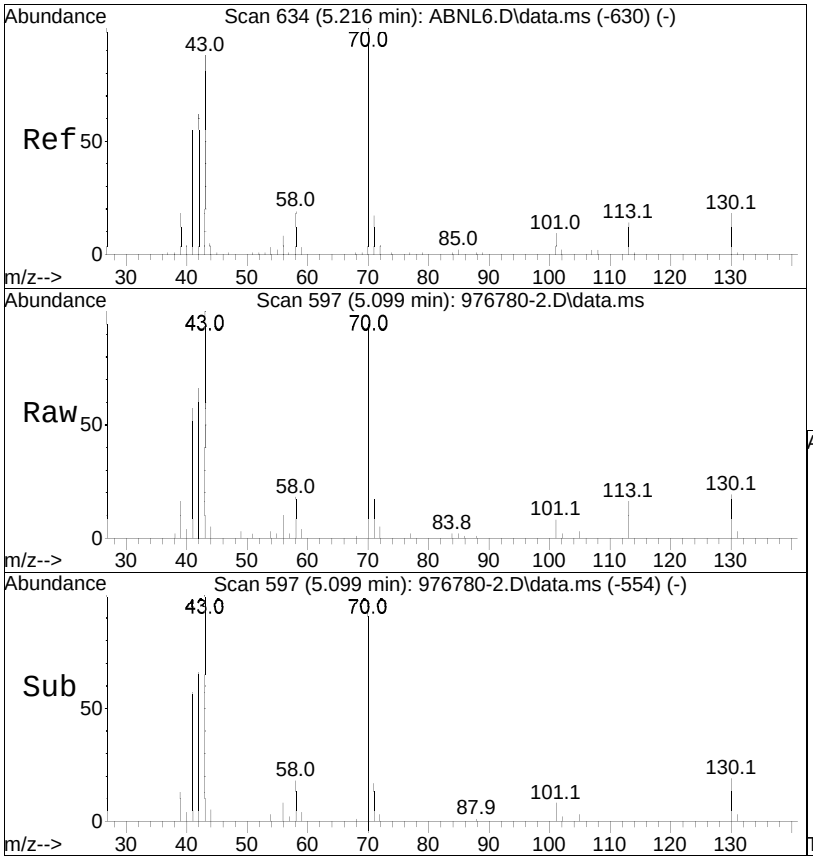


#15
2-Methylphenol
Concen: 1.42 ug/ml
RT: 4.969 min Scan# 575
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:108 Resp: 8779

Ion	Ratio	Lower	Upper
108	100		
107	92.2	71.0	106.4
90	22.1	19.7	29.5

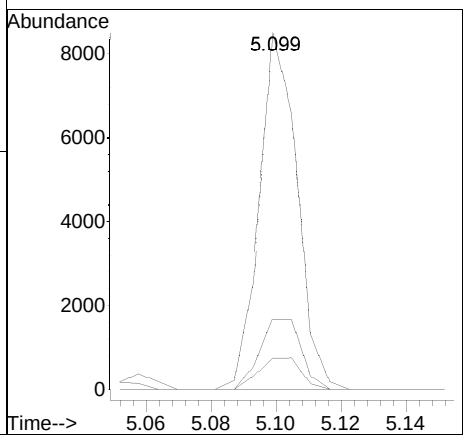


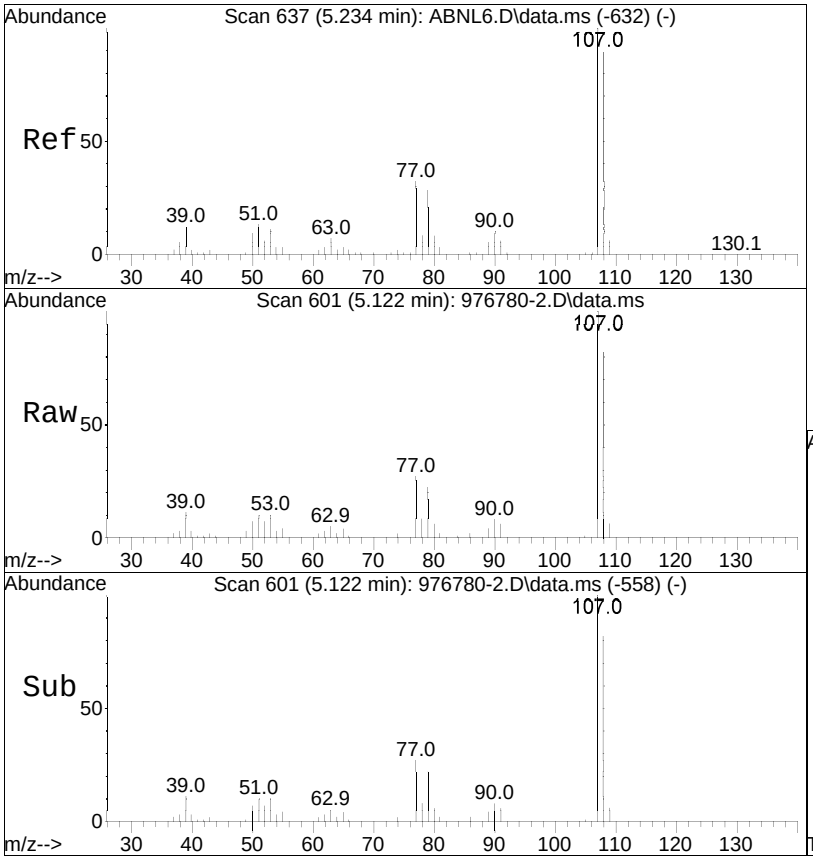


#17
n-Nitrosodi-n-propylamine
Concen: 1.35 ug/ml
RT: 5.099 min Scan# 597
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 70 Resp: 6828

Ion	Ratio	Lower	Upper
70	100		
130	21.9	16.2	24.4
101	10.1	7.6	11.4

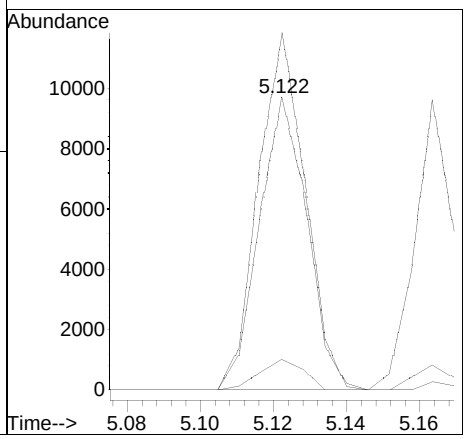


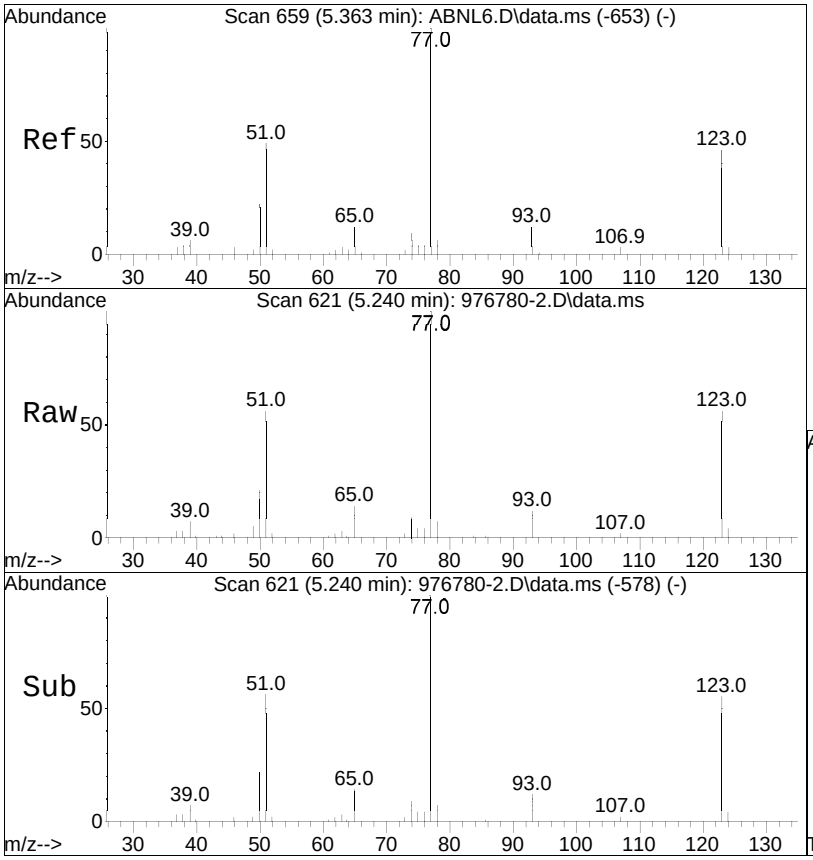


#18
3-Methylphenol/4-Methylphenol
Concen: 1.31 ug/ml
RT: 5.122 min Scan# 601
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:108 Resp: 8829

Ion	Ratio	Lower	Upper
108	100		
107	119.4	88.8	133.2
90	9.6	9.0	13.6

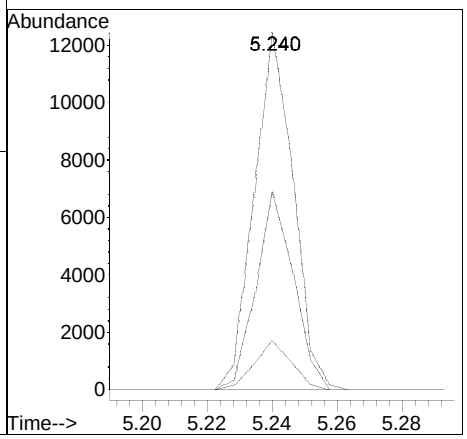


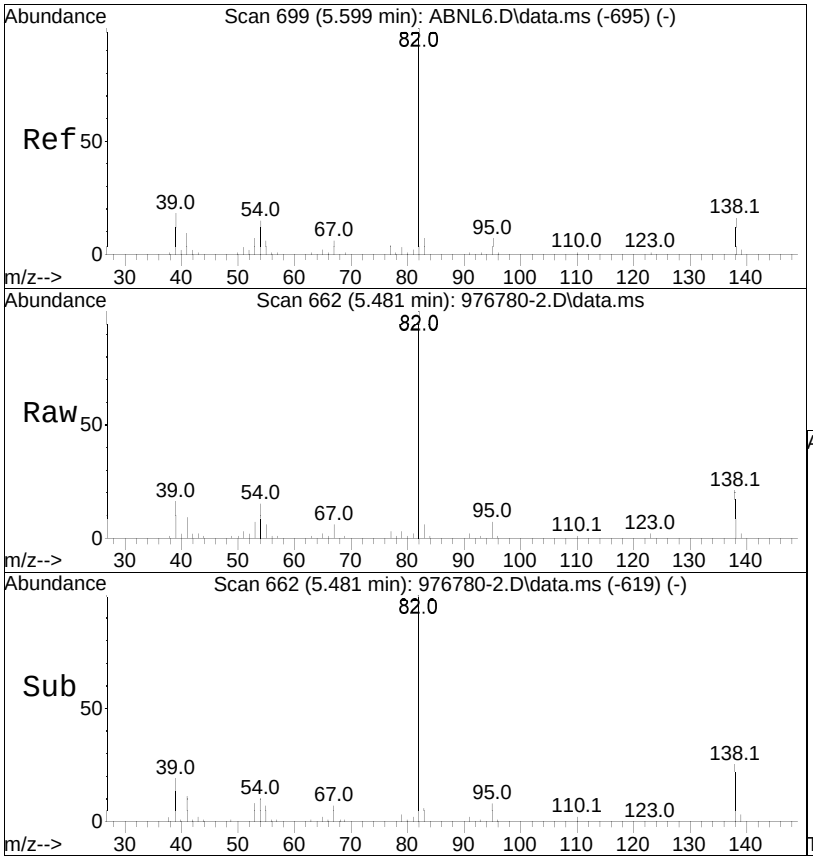


#20
Nitrobenzene
Concen: 1.36 ug/ml
RT: 5.240 min Scan# 621
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 77 Resp: 10311

Ion	Ratio	Lower	Upper
77	100		
123	53.4	37.3	55.9
65	13.2	10.9	16.3

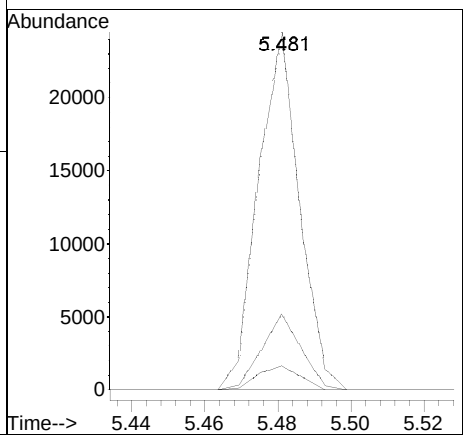


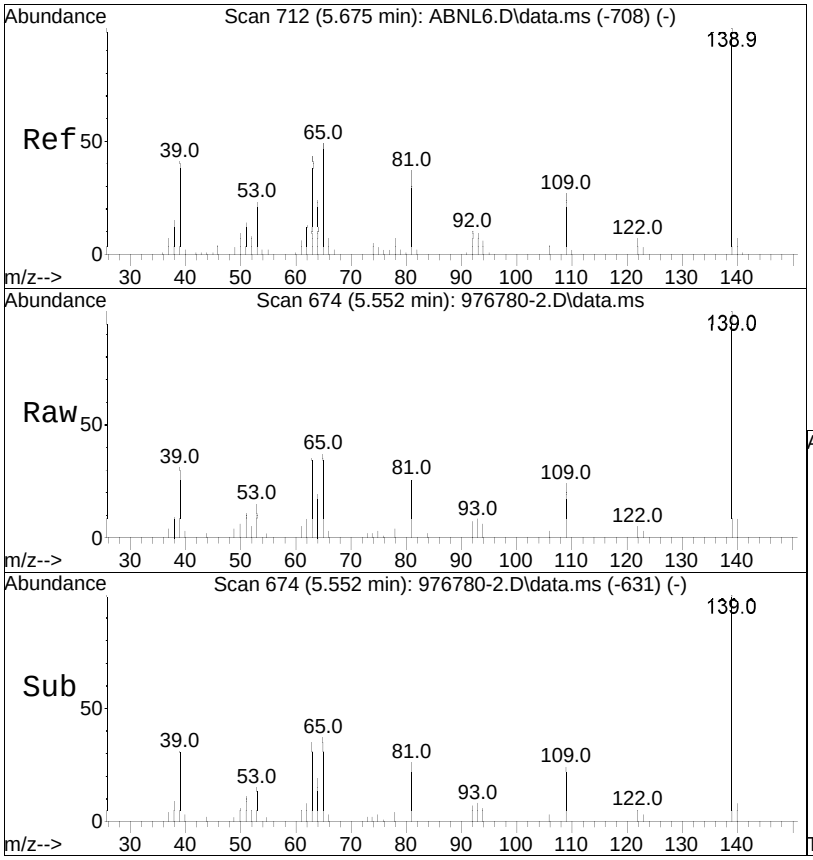


#21
Isophorone
Concen: 1.38 ug/ml
RT: 5.481 min Scan# 662
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 82 Resp: 18917

Ion	Ratio	Lower	Upper
82	100		
138	20.4	13.0	19.4#
95	7.0	5.5	8.3

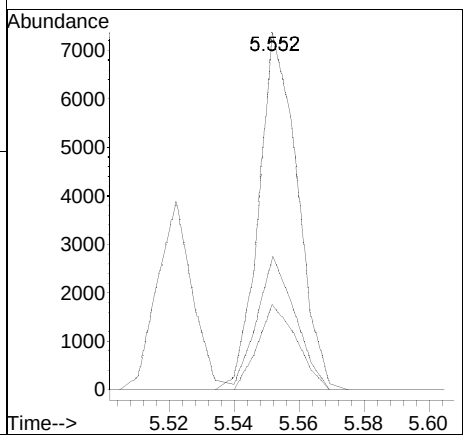


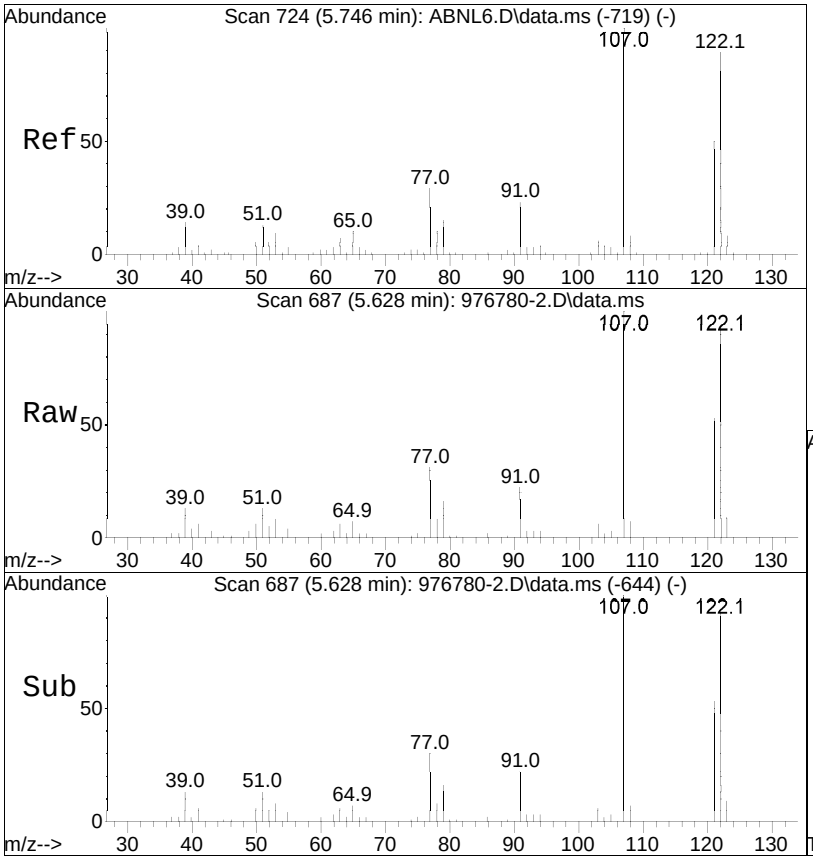


#22
2-Nitrophenol
Concen: 1.80 ug/ml
RT: 5.552 min Scan# 674
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:139 Resp: 6057

Ion	Ratio	Lower	Upper
139	100		
109	24.1	23.1	34.7
65	36.6	41.4	62.2#

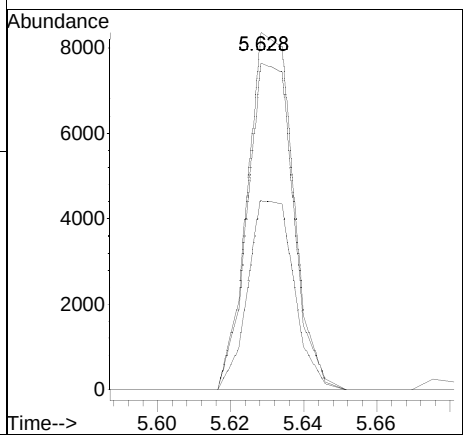


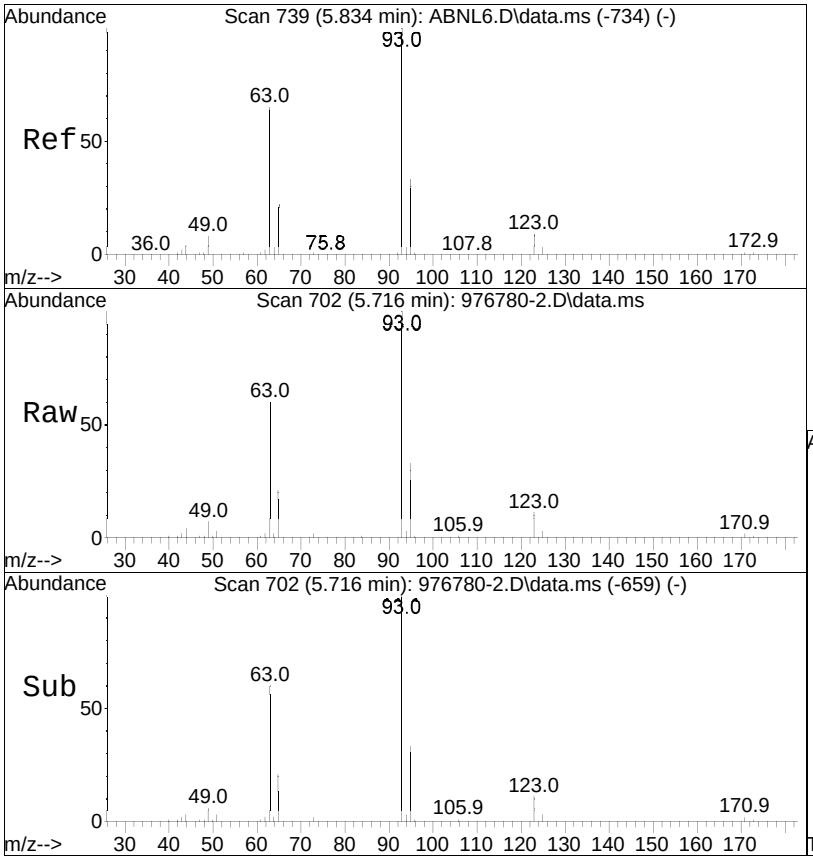


#23
2,4-Dimethylphenol
Concen: 1.11 ug/ml
RT: 5.628 min Scan# 687
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:107 Resp: 7193

Ion	Ratio	Lower	Upper
107	100		
121	53.5	41.3	61.9
122	91.9	69.3	103.9

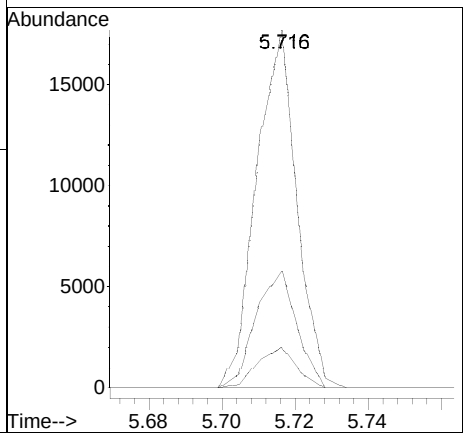


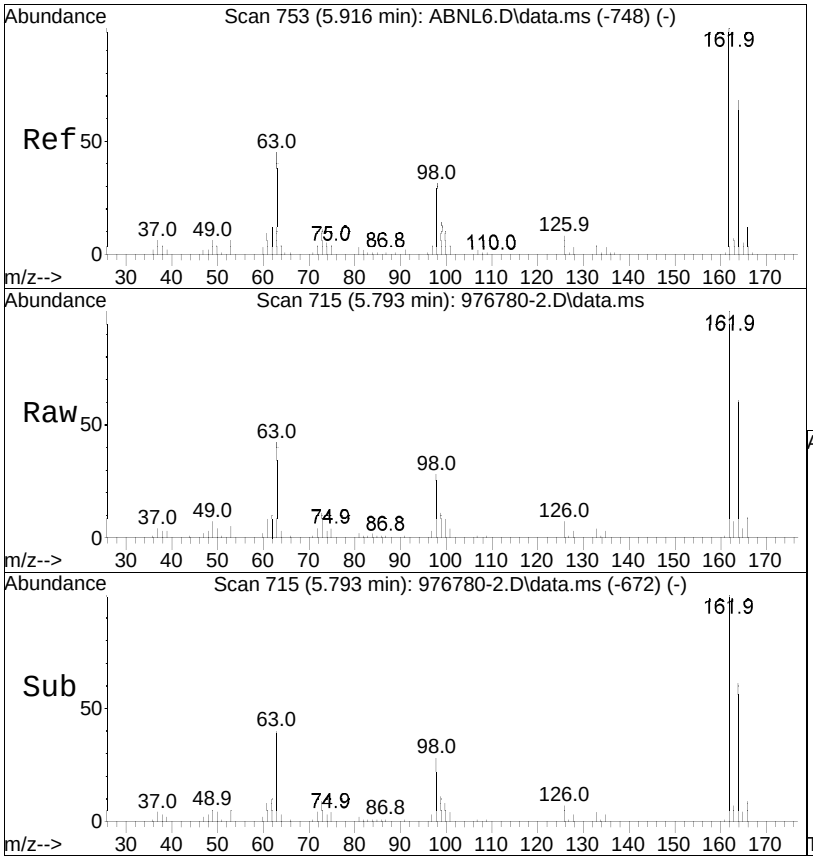


#24
Bis(2-chloroethoxy)methane
Concen: 1.46 ug/ml
RT: 5.716 min Scan# 702
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 93 Resp: 13402

Ion	Ratio	Lower	Upper
93	100		
95	33.3	25.8	38.8
123	11.2	9.6	14.4

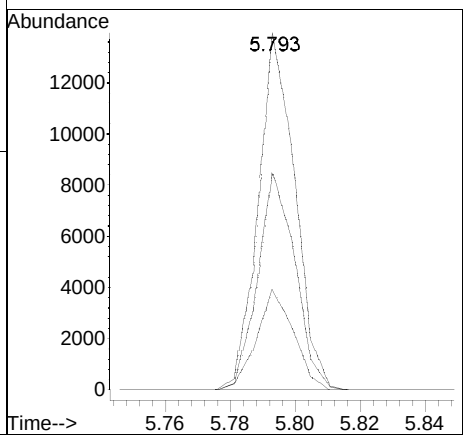


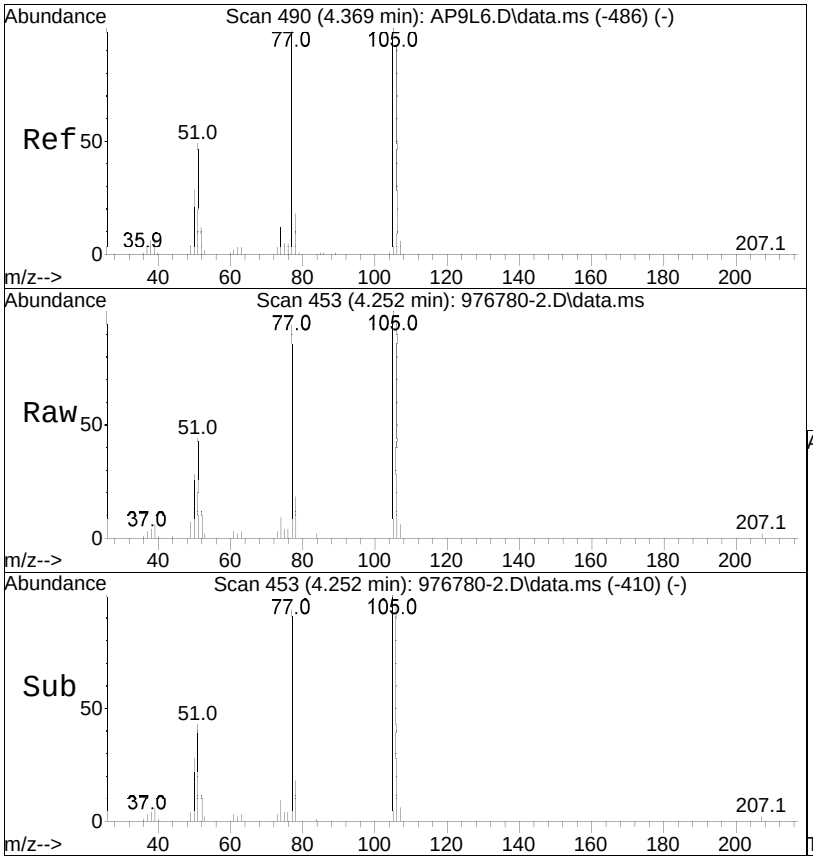


#25
2,4-Dichlorophenol
Concen: 1.60 ug/ml
RT: 5.793 min Scan# 715
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:162 Resp: 10792

Ion	Ratio	Lower	Upper
162	100		
164	62.0	51.1	76.7
98	28.6	32.2	48.2#

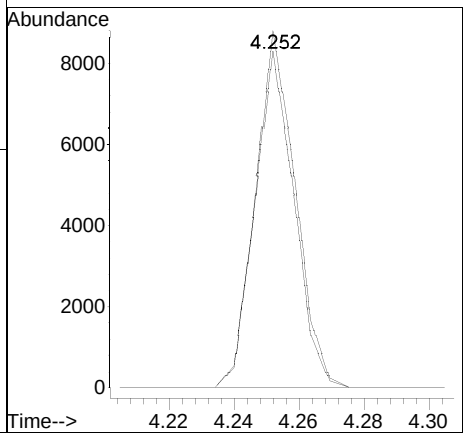


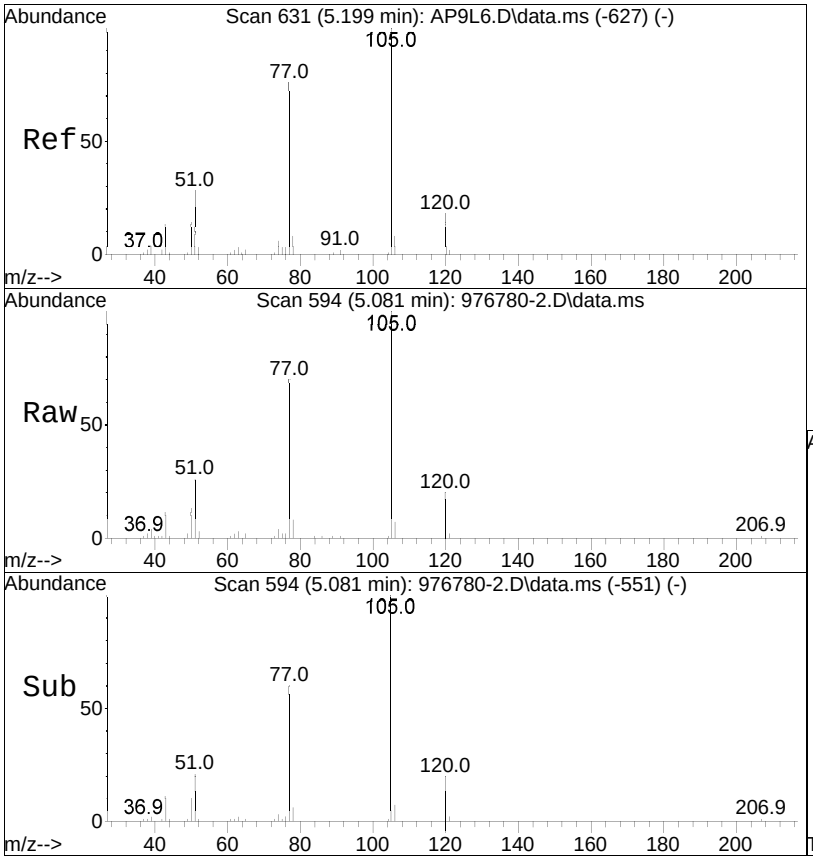


#28
Benzaldehyde
Concen: 1.17 ug/ml
RT: 4.252 min Scan# 453
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:105 Resp: 7518

Ion	Ratio	Lower	Upper
105	100		
77	92.3	77.0	115.6

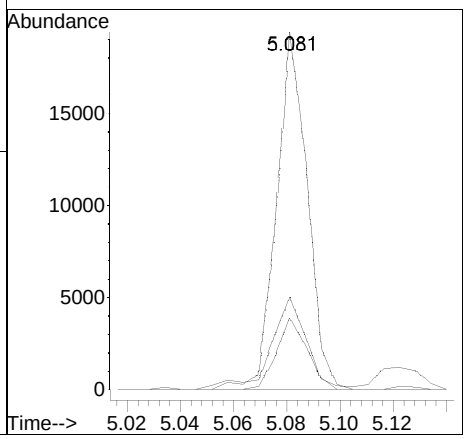


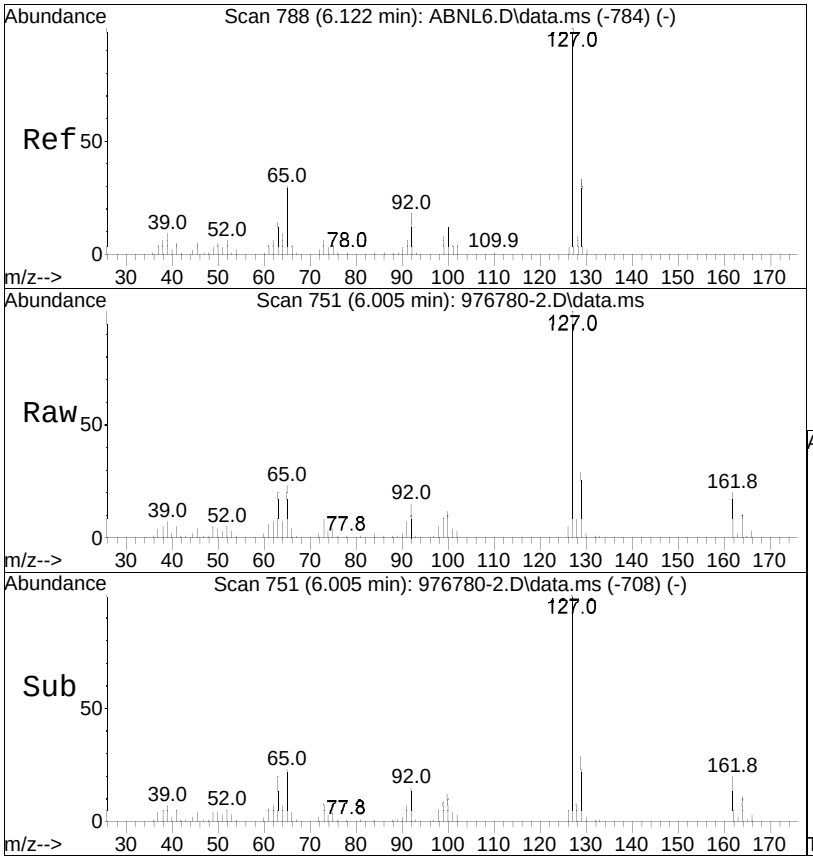


#29
Acetophenone
Concen: 1.38 ug/ml
RT: 5.081 min Scan# 594
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:105 Resp: 15416

Ion	Ratio	Lower	Upper
105	100		
120	20.1	15.2	22.8
51	30.1	23.1	34.7

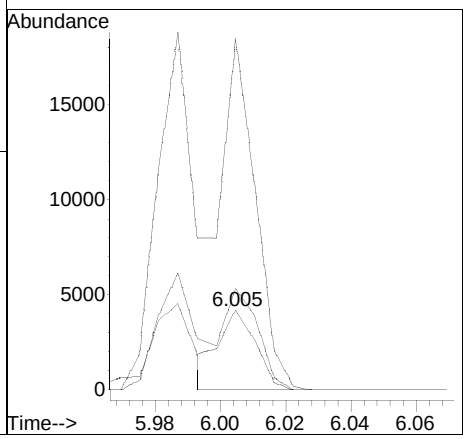


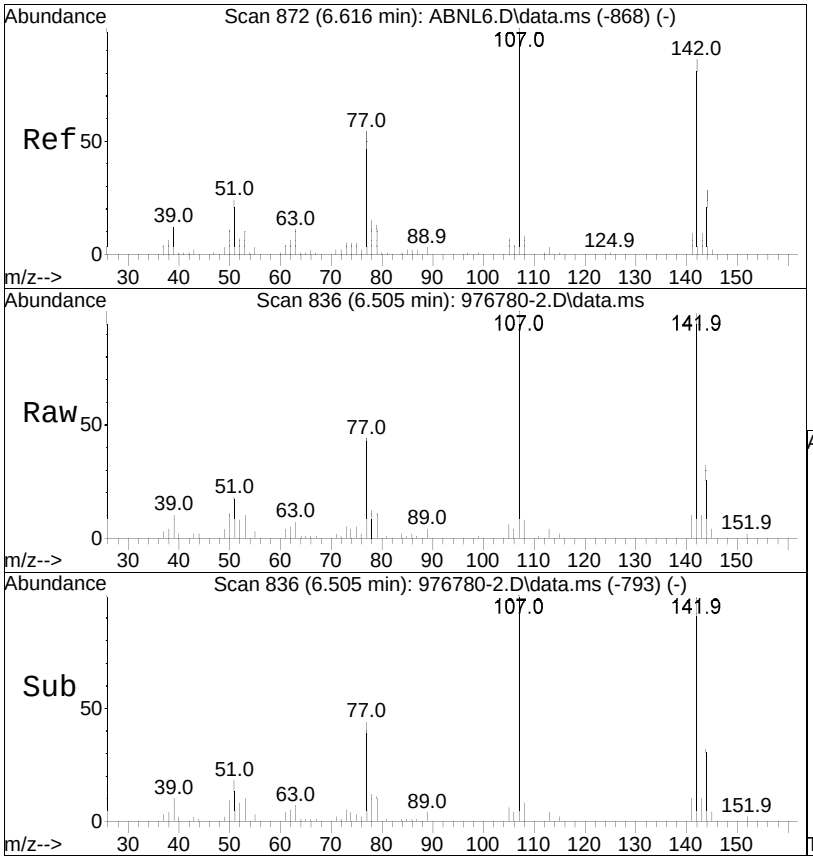


#38
4-Chloroaniline
Concen: 1.28 ug/ml M3
RT: 6.005 min Scan# 751
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 65 Resp: 3296

Ion	Ratio	Lower	Upper
65	100		
127	516.0	266.2	399.4#
129	167.0	85.0	127.4#

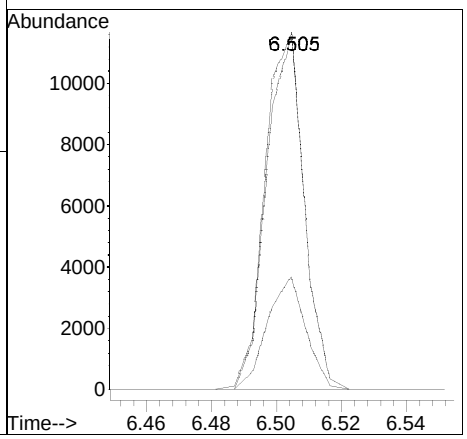


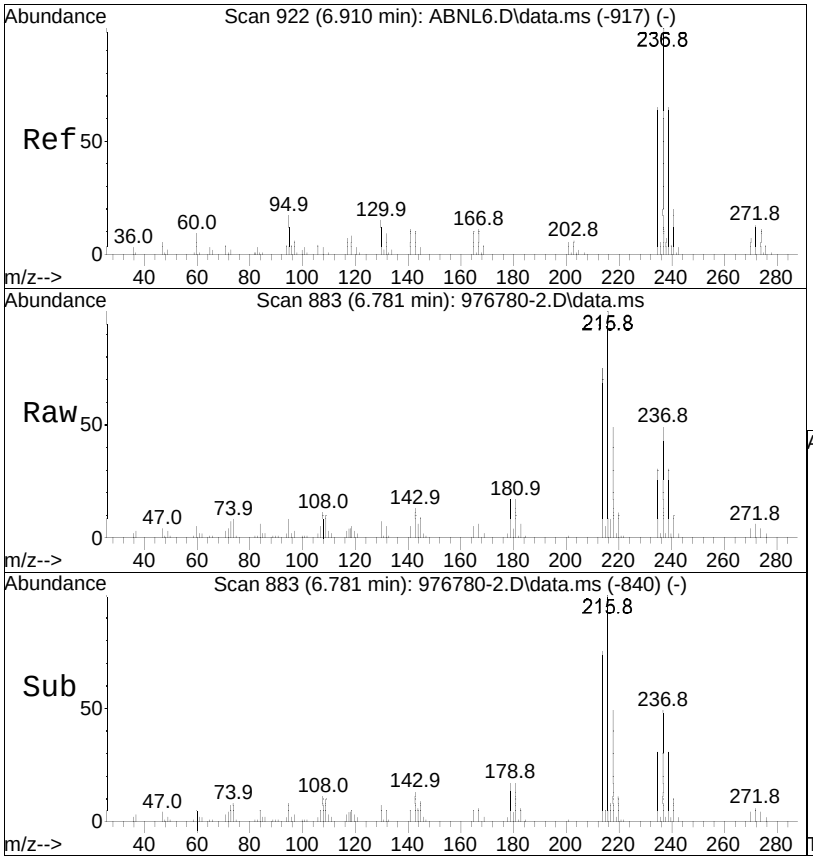


#40
p-Chloro-m-cresol
Concen: 1.59 ug/ml
RT: 6.505 min Scan# 836
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:107 Resp: 9609

Ion	Ratio	Lower	Upper
107	100		
144	31.4	20.3	30.5#
142	95.8	63.8	95.6#

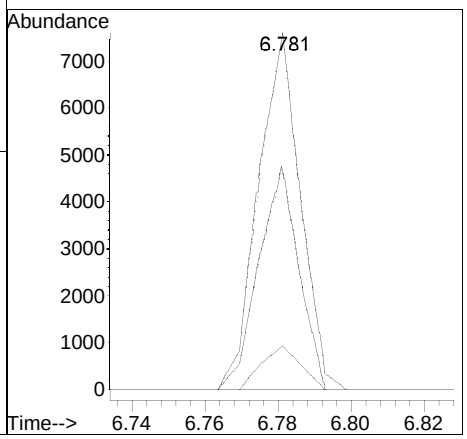


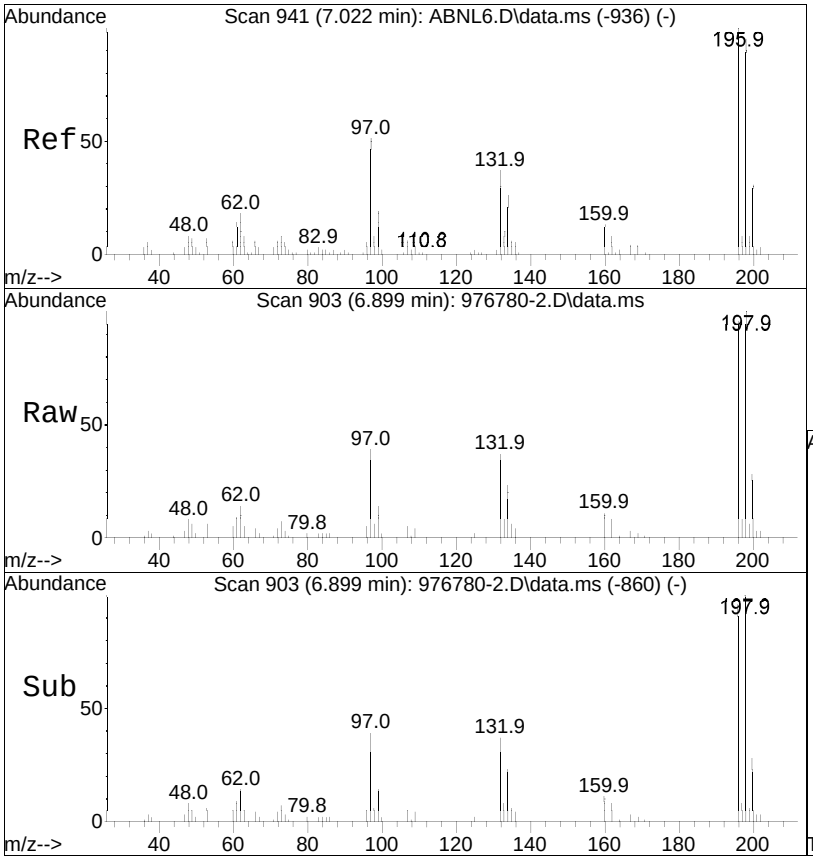


#43
Hexachlorocyclopentadiene
Concen: 1.10 ug/ml
RT: 6.781 min Scan# 883
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:237 Resp: 6012

Ion	Ratio	Lower	Upper
237	100		
235	60.0	50.9	76.3
272	11.6	10.1	15.1

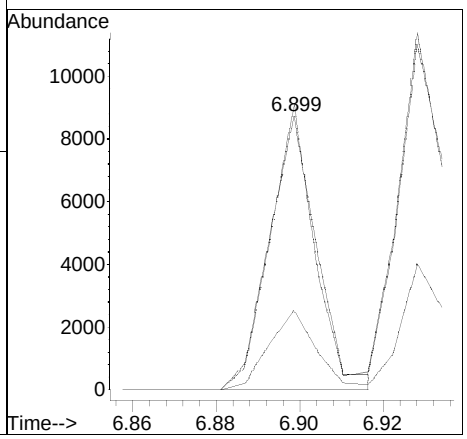


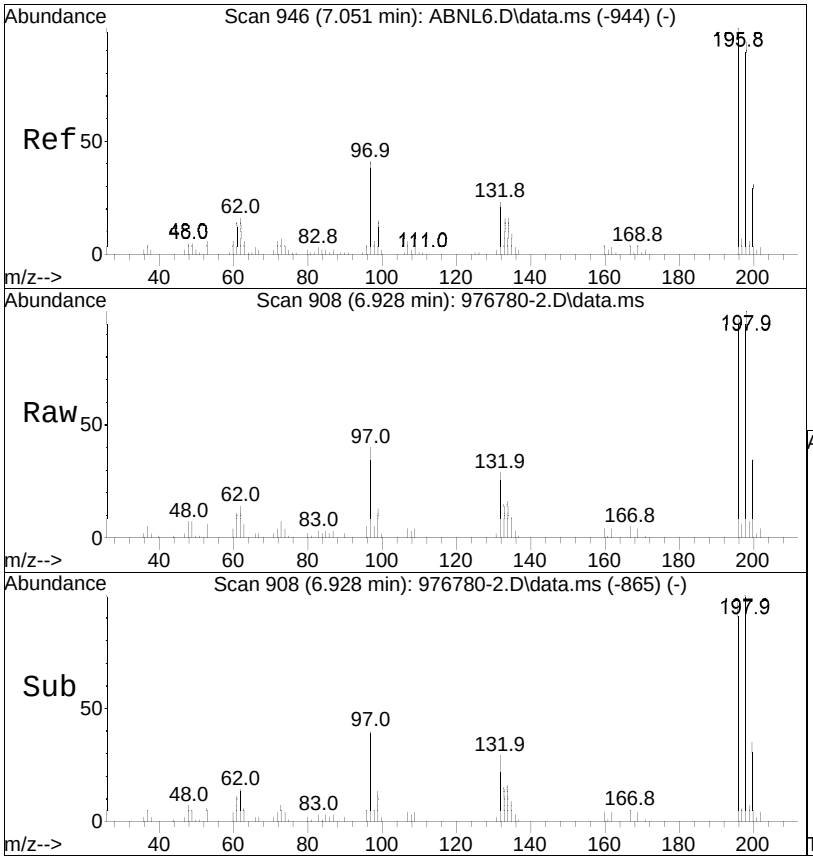


#44
2,4,6-Trichlorophenol
Concen: 1.23 ug/ml
RT: 6.899 min Scan# 903
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:196 Resp: 6894

Ion	Ratio	Lower	Upper
196	100		
198	95.0	76.4	114.6
200	29.3	24.4	36.6

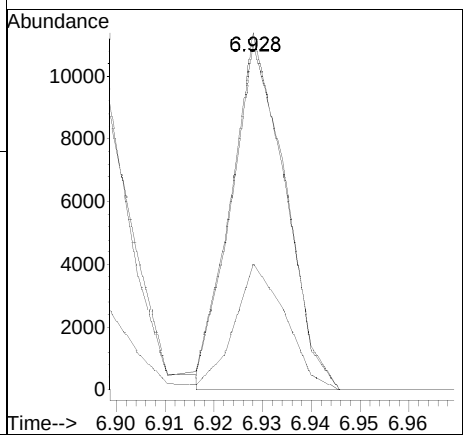


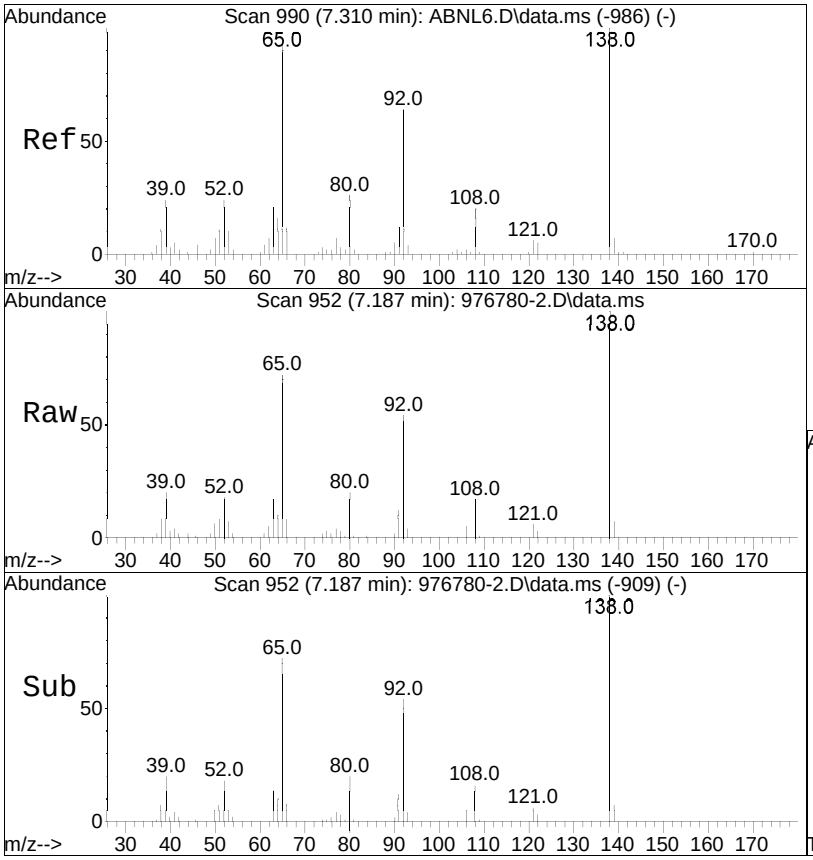


#45
2,4,5-Trichlorophenol
Concen: 1.49 ug/ml
RT: 6.928 min Scan# 908
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:196 Resp: 8522

Ion	Ratio	Lower	Upper
196	100		
200	34.1	24.2	36.4
198	104.0	76.2	114.2

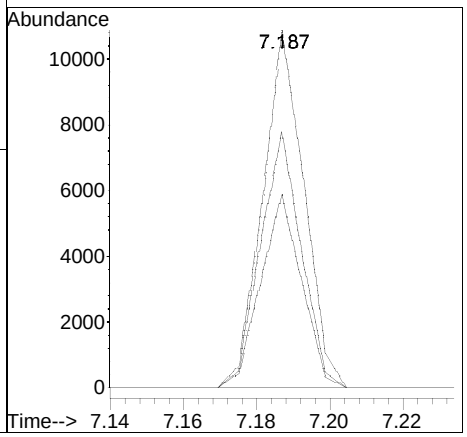


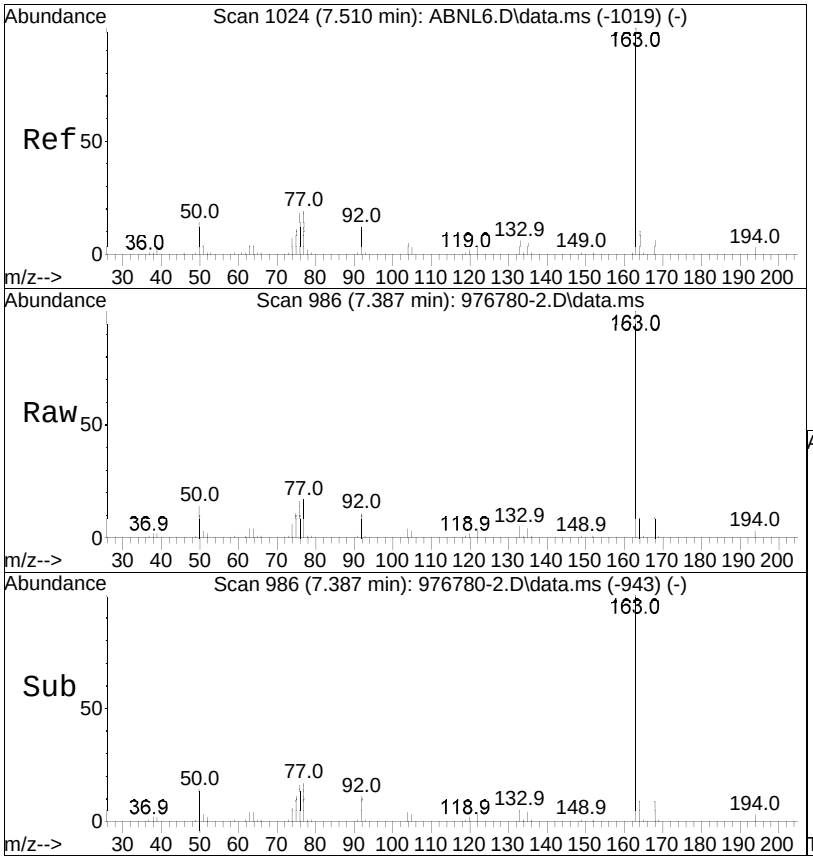


#48
2-Nitroaniline
Concen: 1.93 ug/ml
RT: 7.187 min Scan# 952
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:138 Resp: 8447

Ion	Ratio	Lower	Upper
138	100		
92	53.6	52.1	78.1
65	70.7	75.9	113.9#

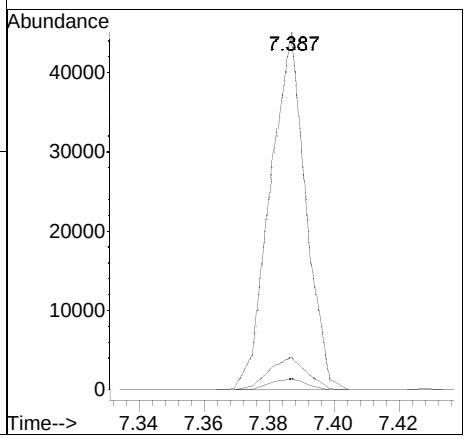


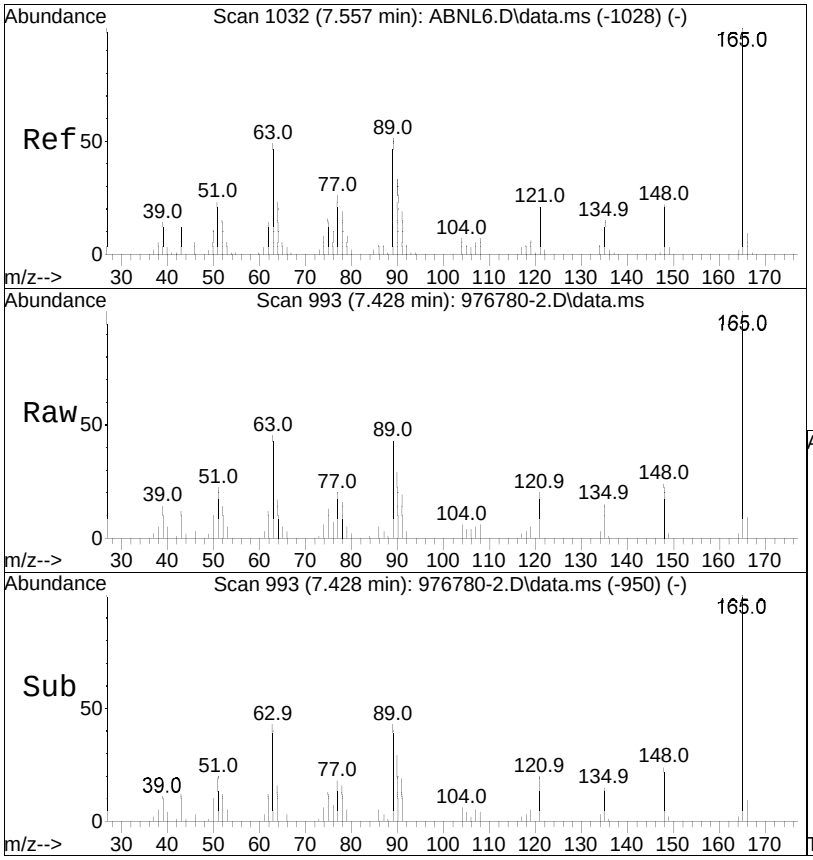


#51
Dimethyl phthalate
Concen: 1.68 ug/ml
RT: 7.387 min Scan# 986
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:163 Resp: 33708

Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.3	3.5
164	9.8	8.2	12.2

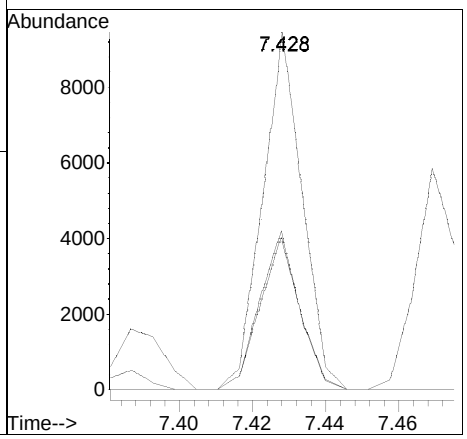


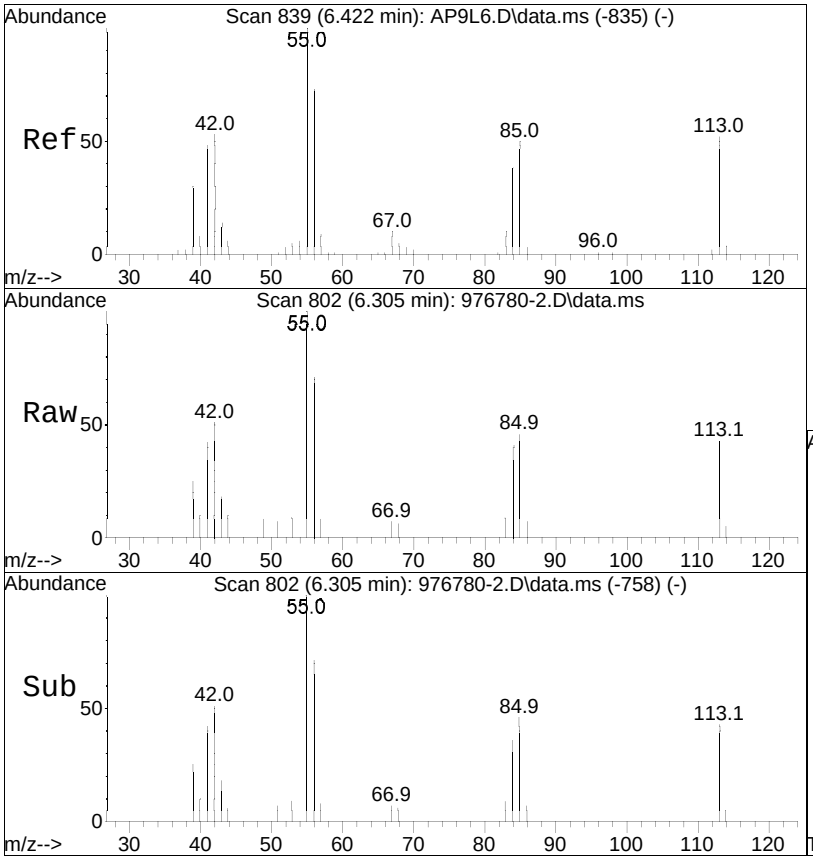


#53
2,6-Dinitrotoluene
Concen: 1.89 ug/ml
RT: 7.428 min Scan# 993
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:165 Resp: 7100

Ion	Ratio	Lower	Upper
165	100		
89	43.1	48.8	73.2#
63	44.4	50.5	75.7#

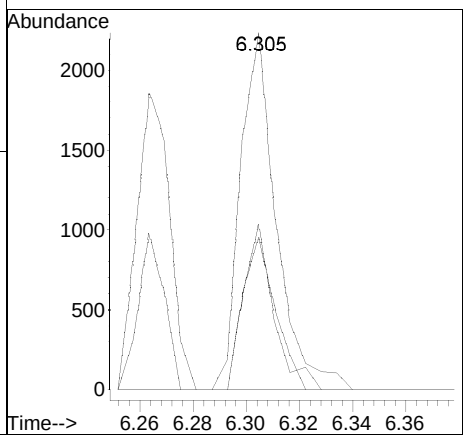


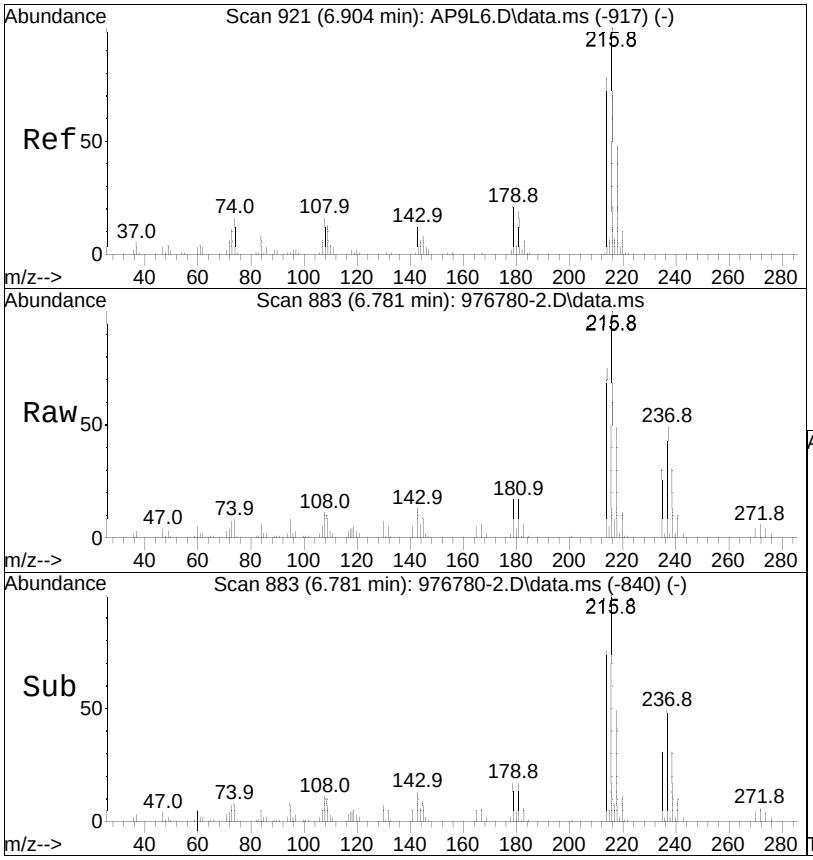


#60
Caprolactam
Concen: 0.99 ug/ml
RT: 6.305 min Scan# 802
Delta R.T. 0.006 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 55 Resp: 2104

Ion	Ratio	Lower	Upper
55	100		
85	39.0	35.2	52.8
113	38.7	36.6	55.0

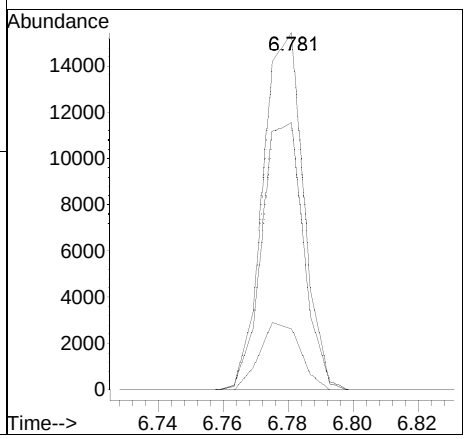


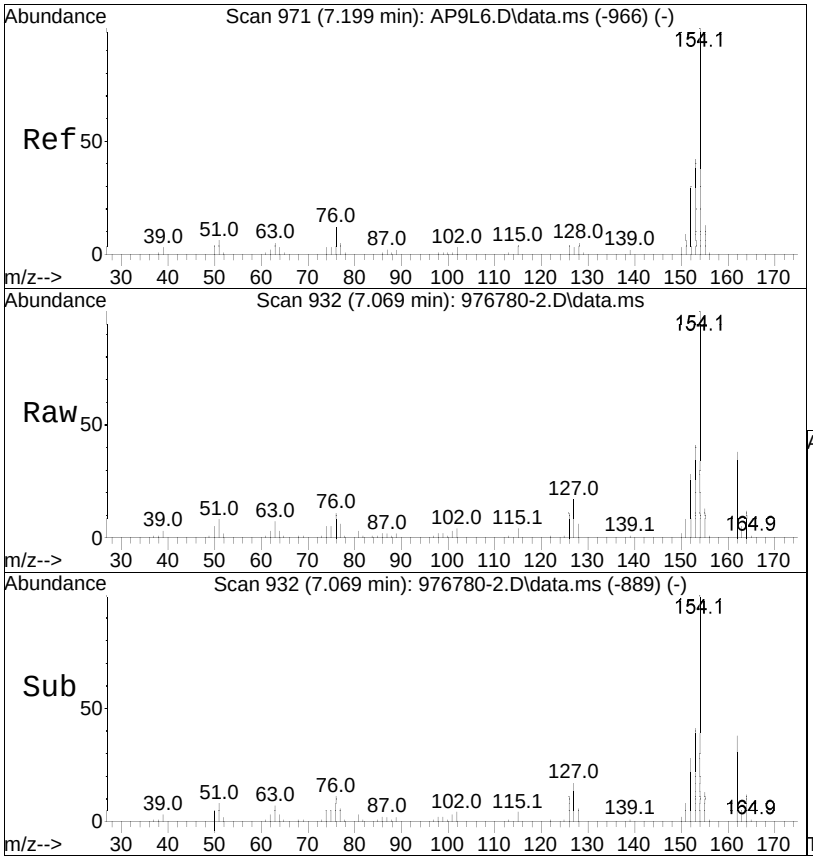


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.27 ug/ml
RT: 6.781 min Scan# 883
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:216 Resp: 13302

Ion	Ratio	Lower	Upper
216	100		
214	77.1	64.0	96.0
179	19.1	18.7	28.1

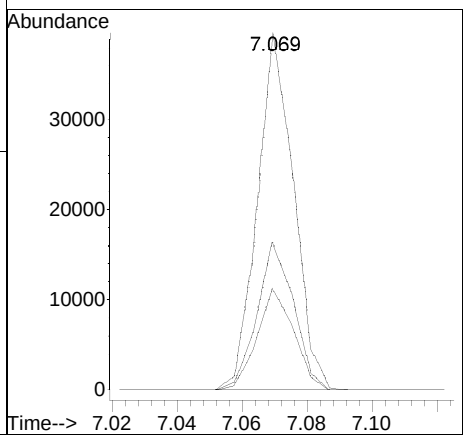


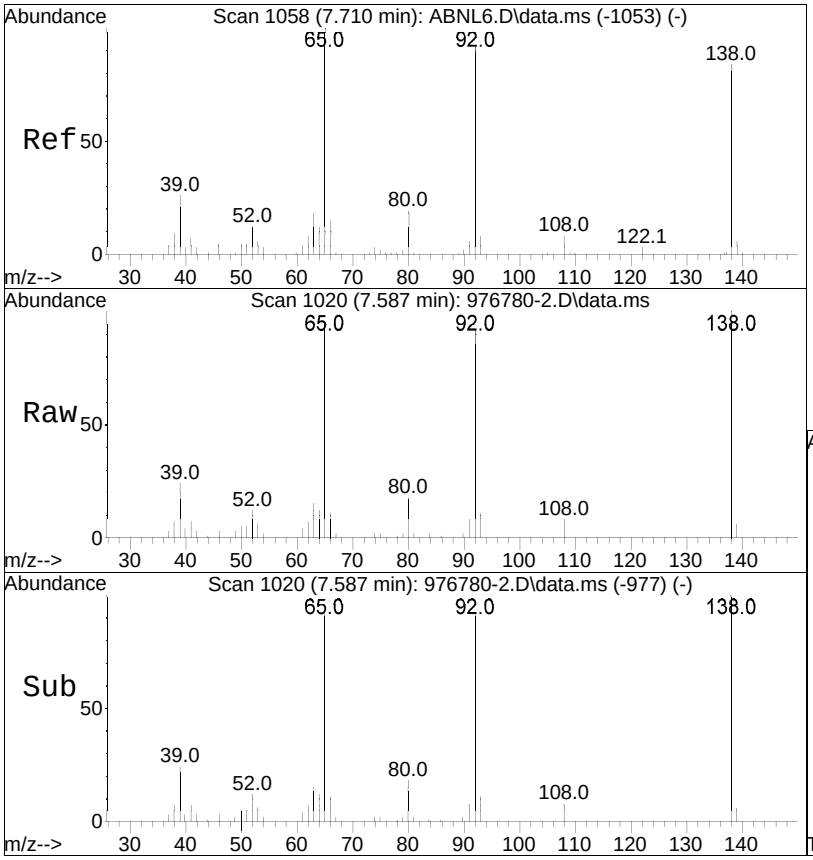


#62
Biphenyl
Concen: 1.36 ug/ml
RT: 7.069 min Scan# 932
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:154 Resp: 30336

Ion	Ratio	Lower	Upper
154	100		
153	42.0	32.5	48.7
152	29.1	22.6	34.0

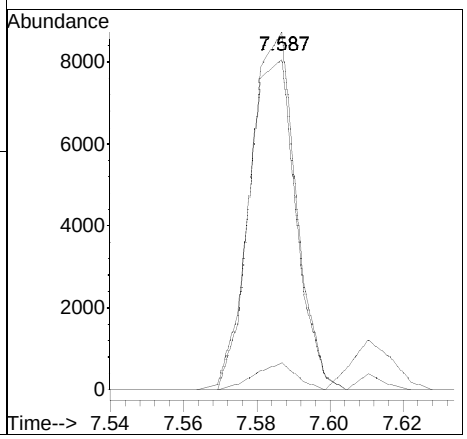


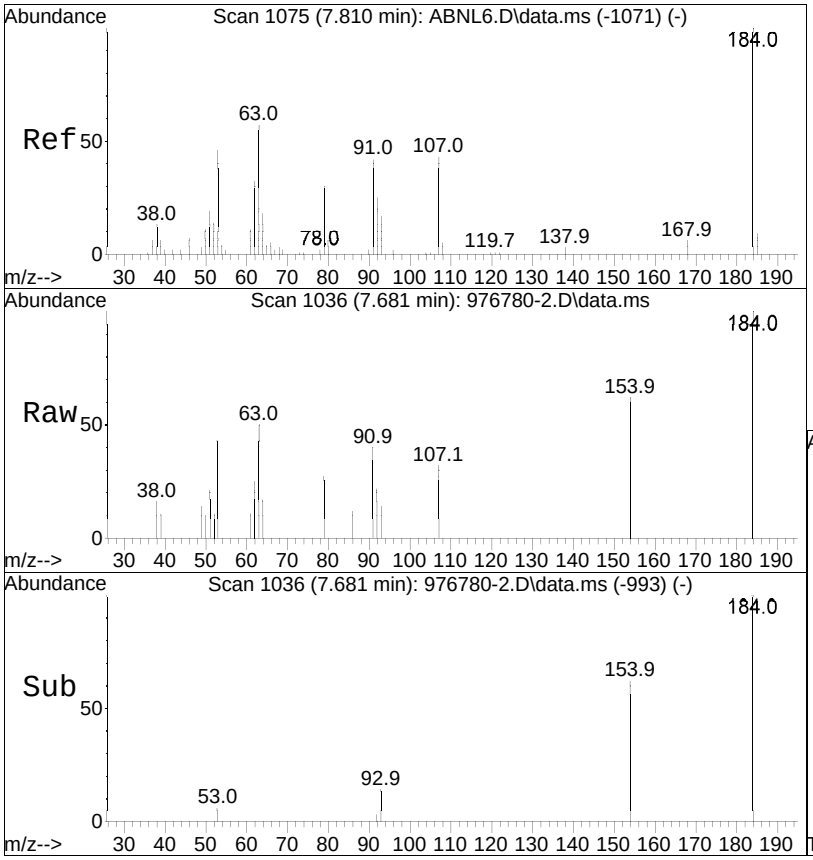


#64
3-Nitroaniline
Concen: 1.78 ug/ml
RT: 7.587 min Scan# 1020
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:138 Resp: 7460

Ion	Ratio	Lower	Upper
138	100		
92	96.1	92.8	139.2
108	7.0	7.9	11.9#

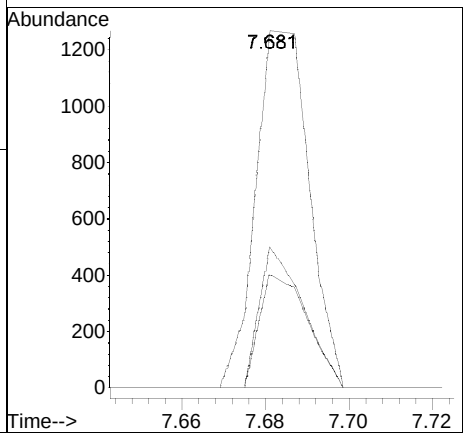


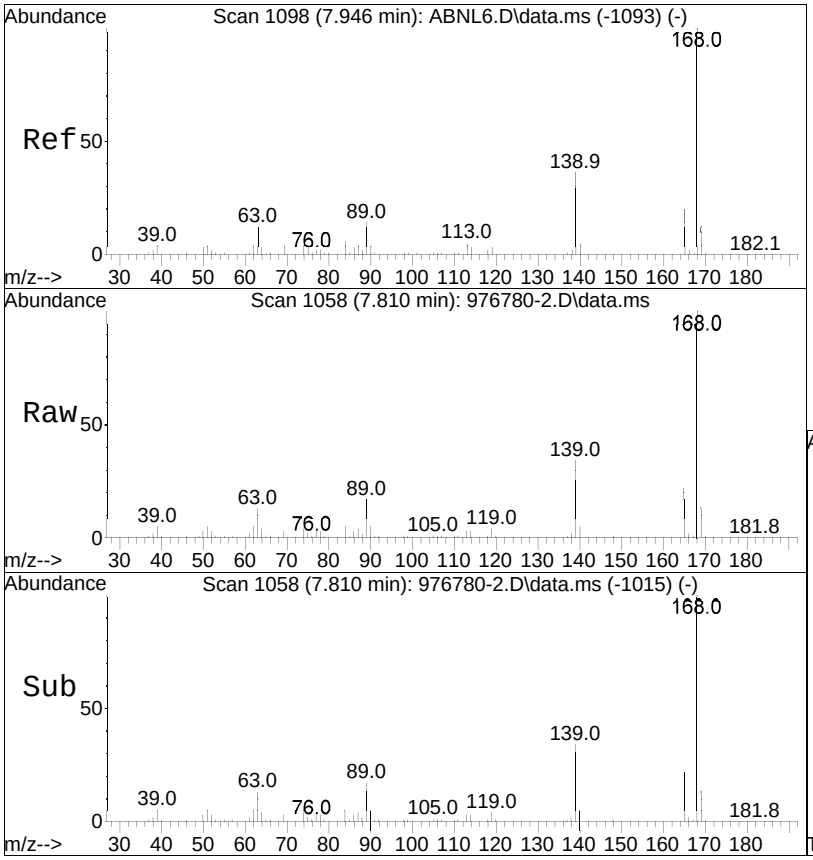


#66
2,4-Dinitrophenol
Concen: 0.84 ug/ml
RT: 7.681 min Scan# 1036
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:184 Resp: 1119

Ion	Ratio	Lower	Upper
184	100		
107	0.0	41.8	62.6#
91	51.8	44.2	66.2

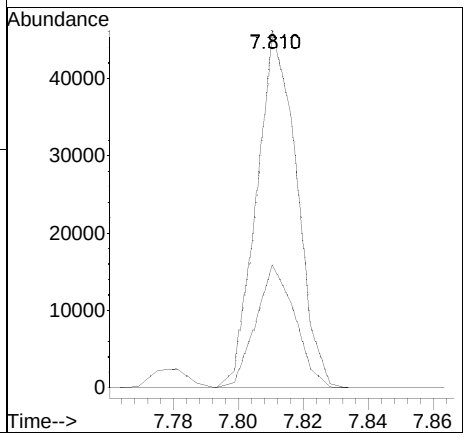


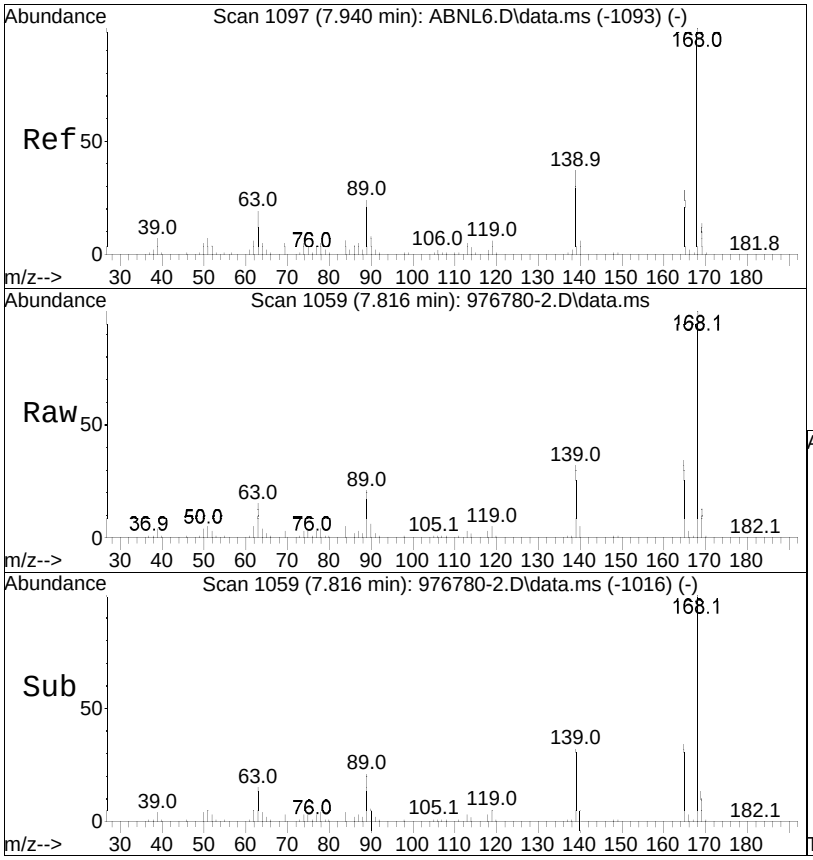


#67
Dibenzofuran
Concen: 1.52 ug/ml
RT: 7.810 min Scan# 1058
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:168 Resp: 39173

Ion	Ratio	Lower	Upper
168	100		
139	33.8	32.3	48.5

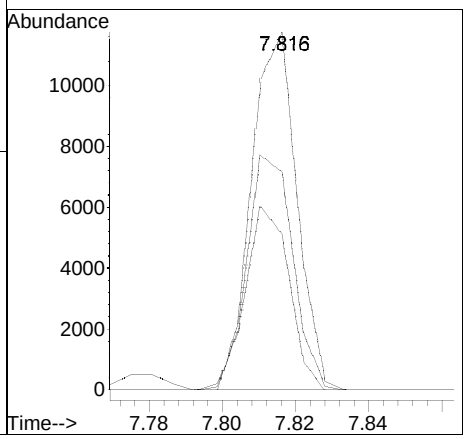


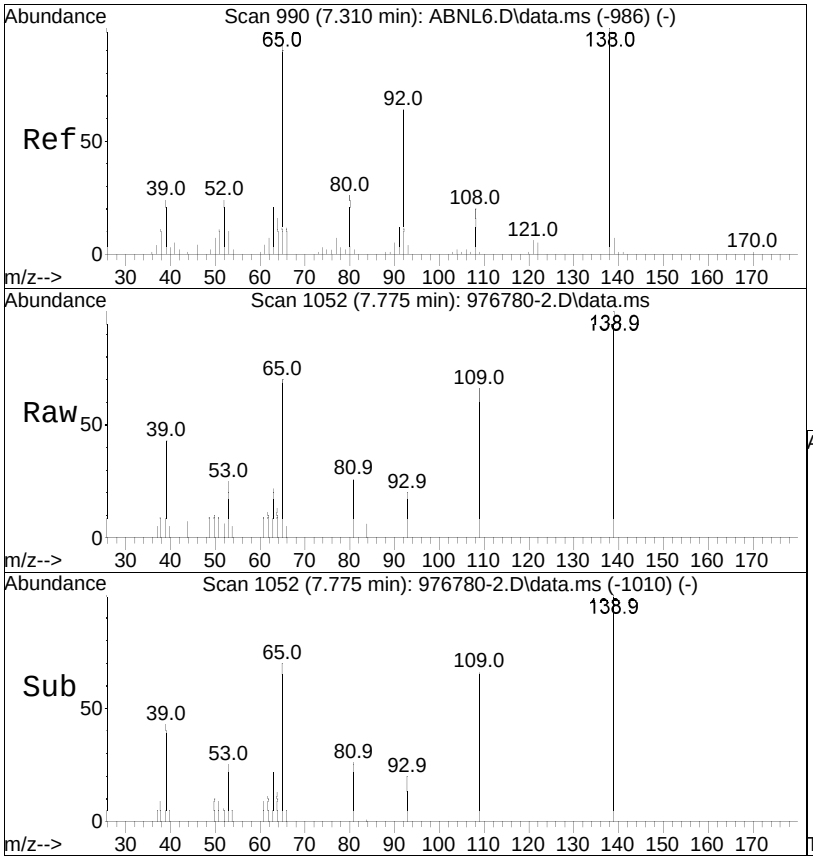


#68
2,4-Dinitrotoluene
Concen: 1.88 ug/ml
RT: 7.816 min Scan# 1059
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:165 Resp: 10074

Ion	Ratio	Lower	Upper
165	100		
89	66.6	73.0	109.4#
63	49.7	56.3	84.5#

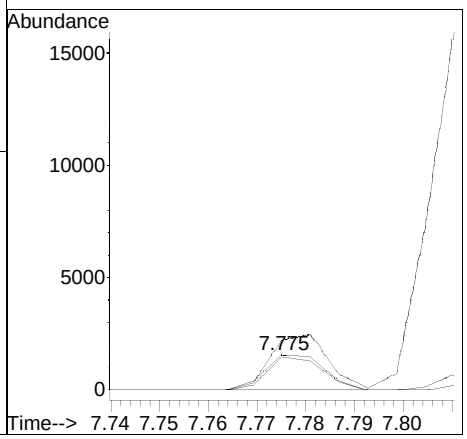


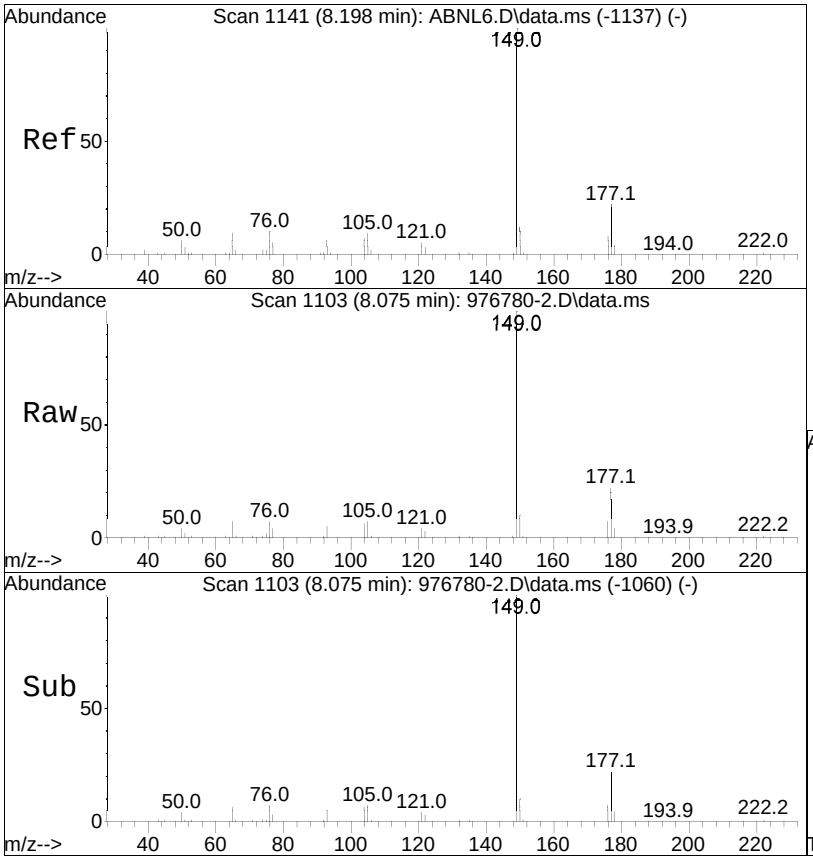


#69
4-Nitrophenol
Concen: 0.33 ug/ml
RT: 7.775 min Scan# 1052
Delta R.T. -0.006 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion: 65 Resp: 1339

Ion	Ratio	Lower	Upper
65	100		
109	87.7	60.2	90.2
139	152.7	81.1	121.7#

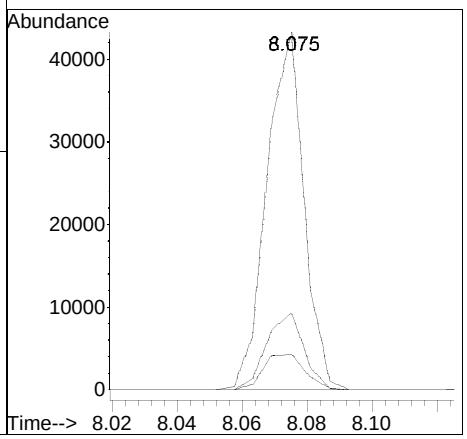


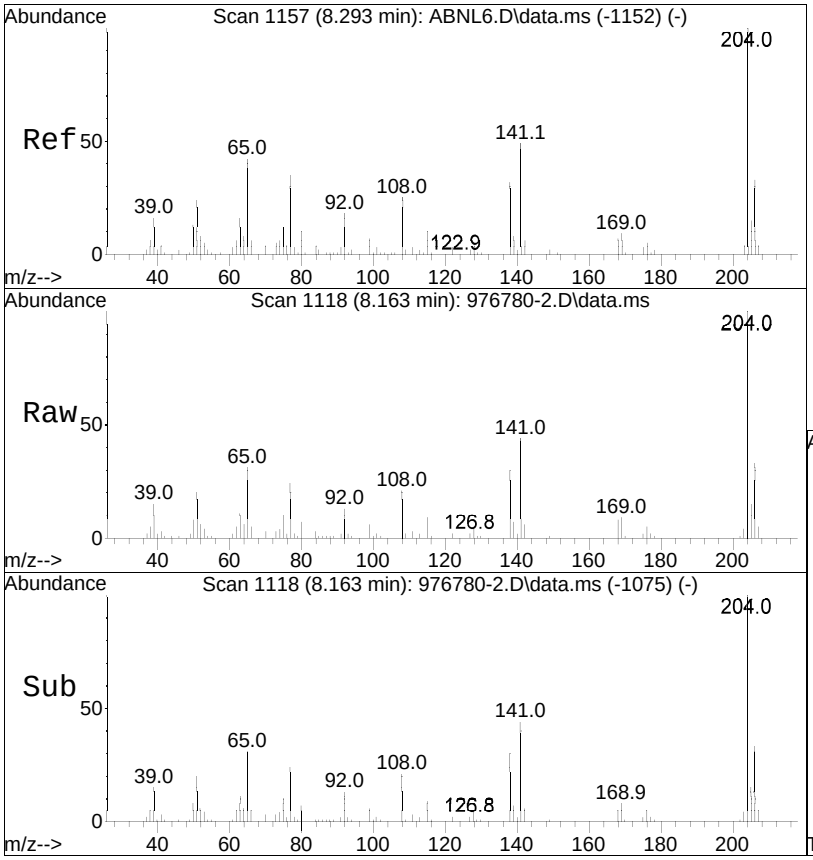


#72
Diethyl phthalate
Concen: 1.63 ug/ml
RT: 8.075 min Scan# 1103
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:149 Resp: 33861

Ion	Ratio	Lower	Upper
149	100		
177	21.8	15.0	22.6
150	11.4	9.8	14.6

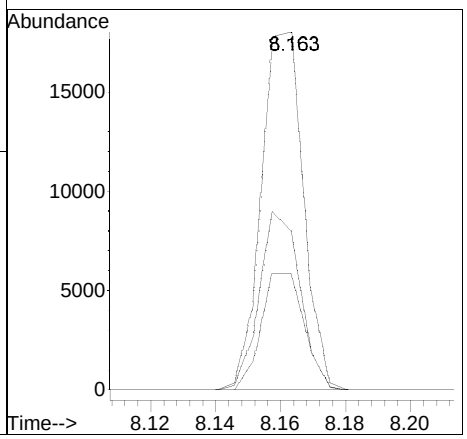


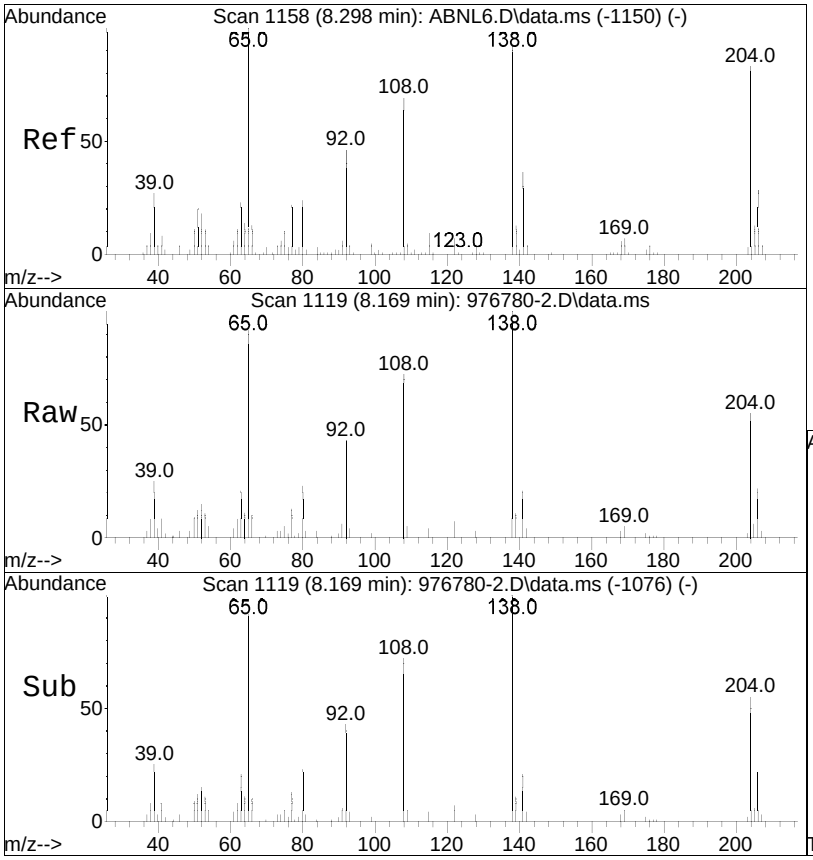


#74
4-Chlorophenyl phenyl ether
Concen: 1.48 ug/ml
RT: 8.163 min Scan# 1118
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:204 Resp: 16107

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.3	39.5
141	48.2	58.4	87.6#

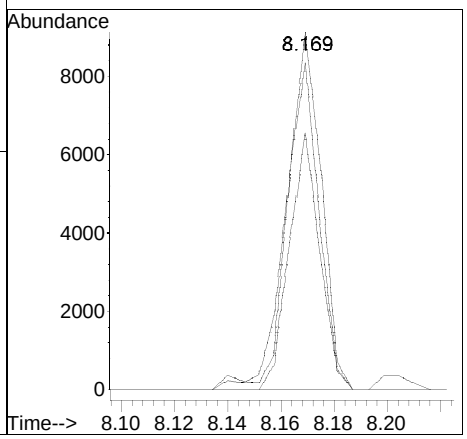


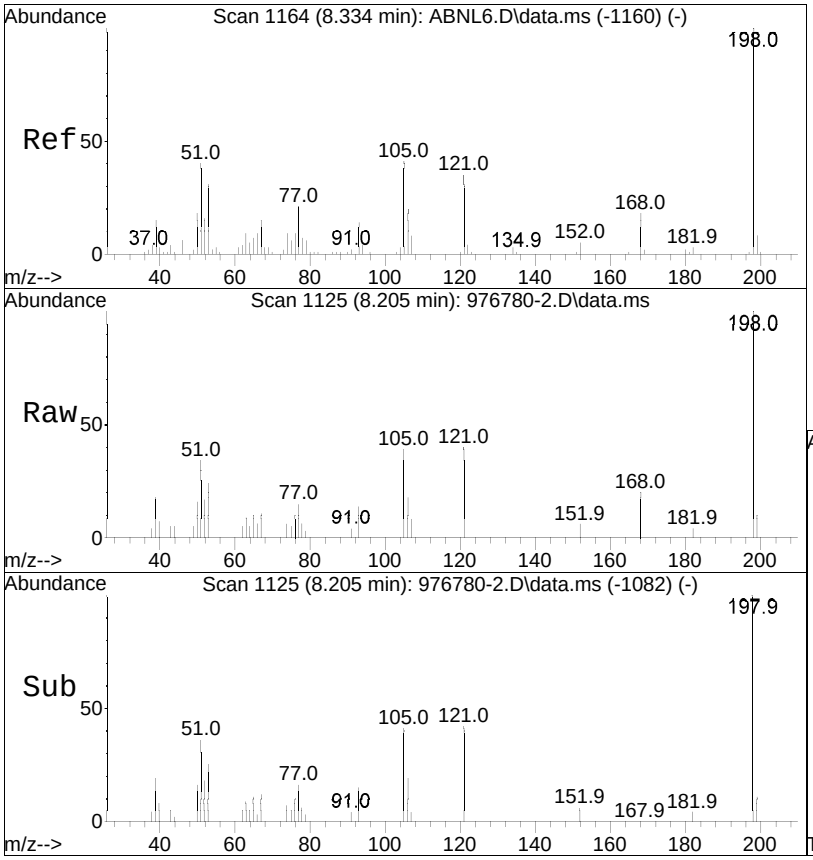


#75
4-Nitroaniline
Concen: 1.80 ug/ml
RT: 8.169 min Scan# 1119
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:138 Resp: 7940

Ion	Ratio	Lower	Upper
138	100		
108	65.4	59.2	88.8
65	93.1	97.6	146.4#

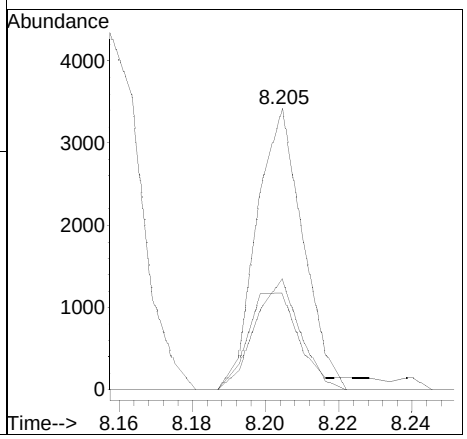


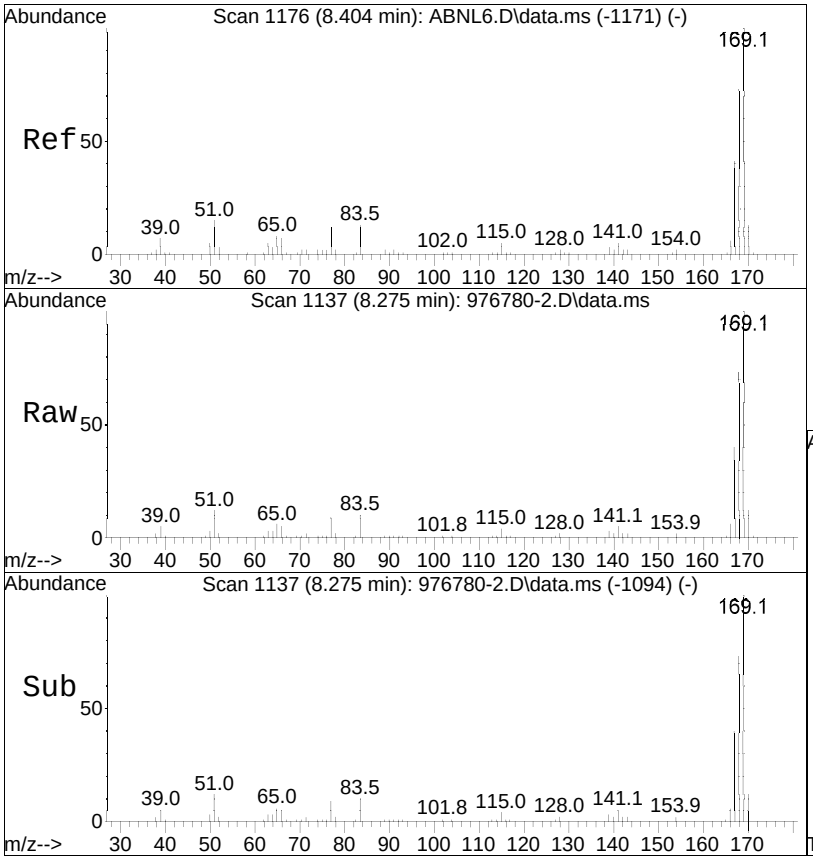


#76
4,6-Dinitro-o-cresol
Concen: 1.07 ug/ml
RT: 8.205 min Scan# 1125
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:198 Resp: 3004

Ion	Ratio	Lower	Upper
198	100		
51	44.8	49.9	74.9#
105	38.3	45.8	68.6#

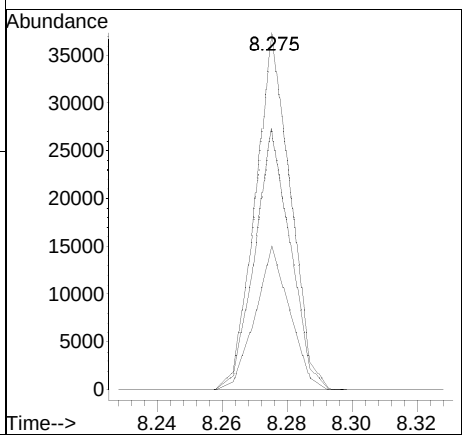


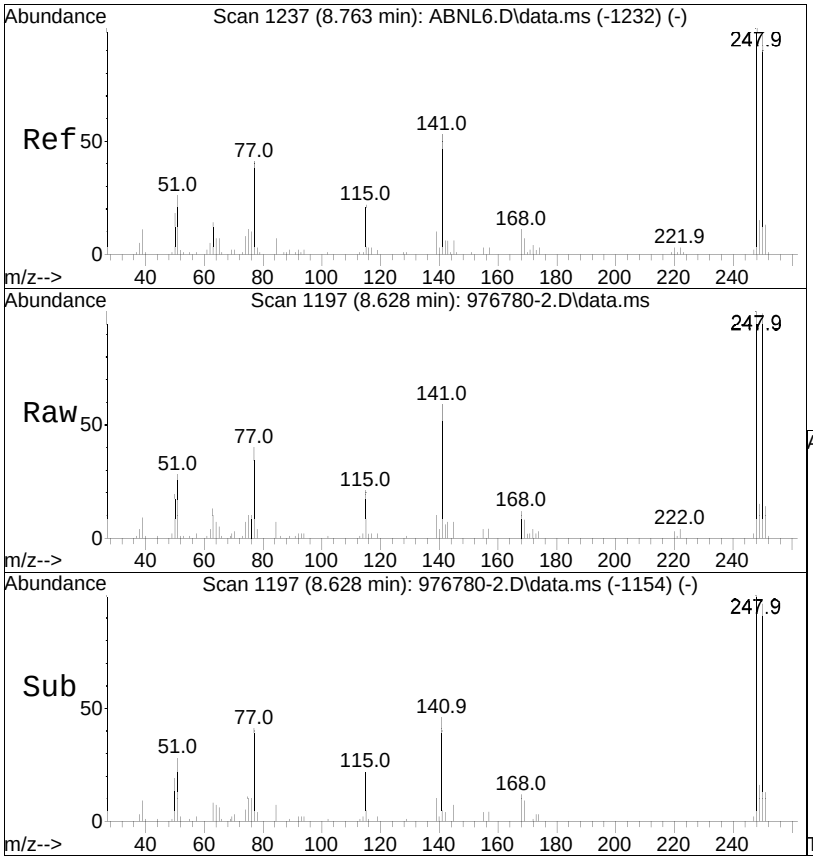


#77
NDPA/DPA
Concen: 1.62 ug/ml
RT: 8.275 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:169 Resp: 27933

Ion	Ratio	Lower	Upper
169	100		
168	73.9	55.2	82.8
167	39.9	30.4	45.6

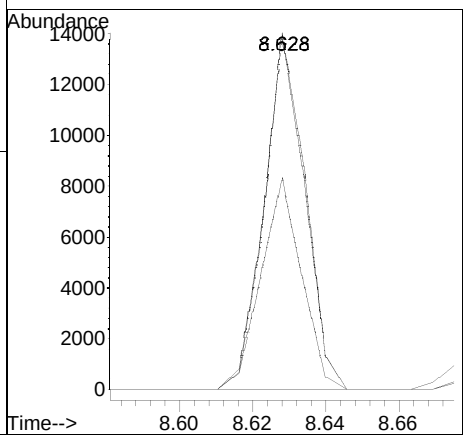


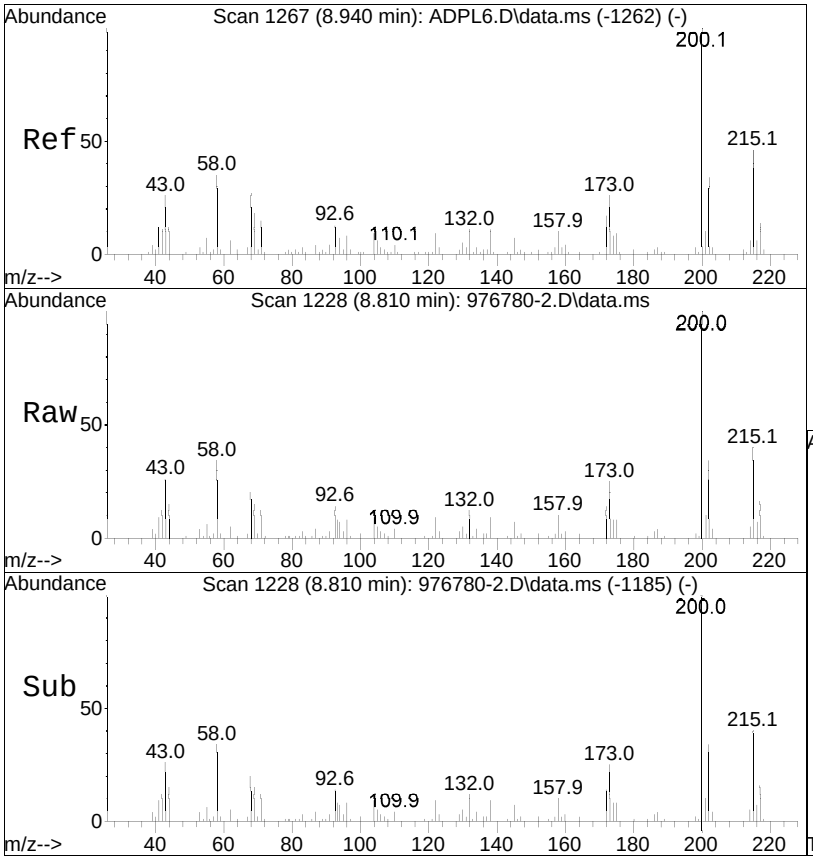


#80
4-Bromophenyl phenyl ether
Concen: 1.55 ug/ml
RT: 8.628 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:248 Resp: 10847

Ion	Ratio	Lower	Upper
248	100		
141	58.5	74.6	111.8#
250	97.3	76.9	115.3

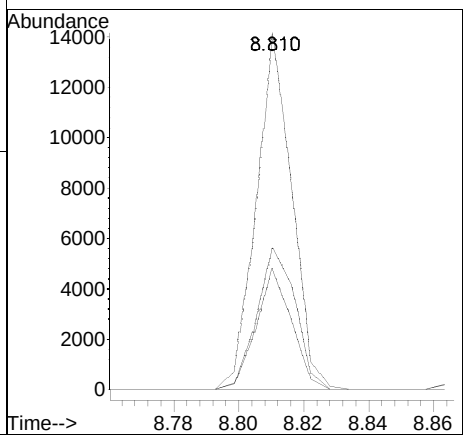


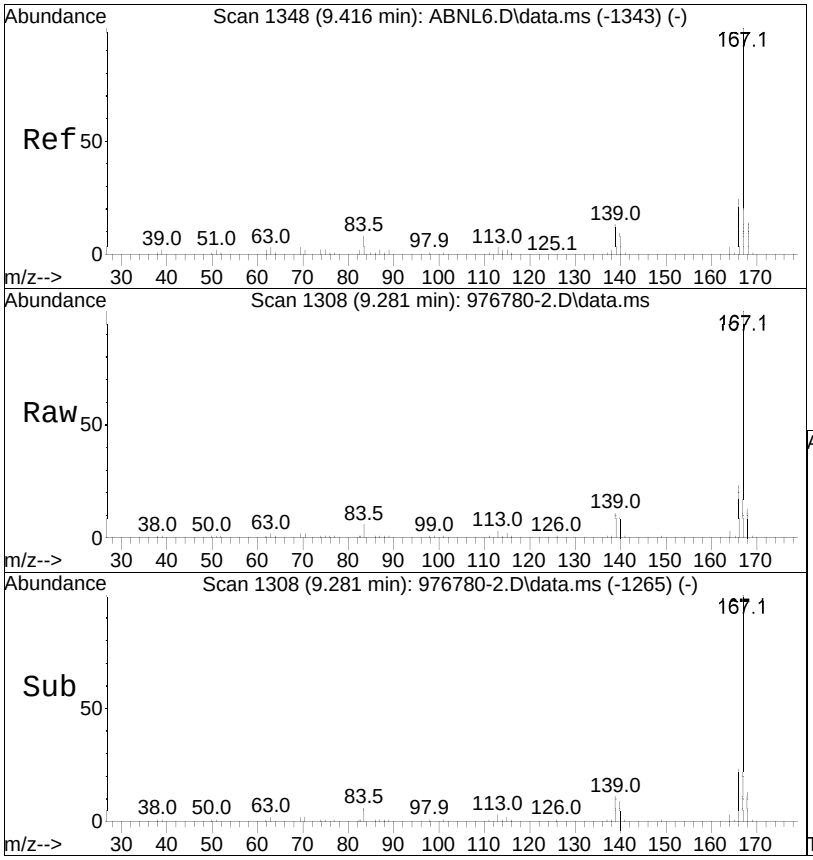


#87
Atrazine
Concen: 1.72 ug/ml
RT: 8.810 min Scan# 1228
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:200 Resp: 10611

Ion	Ratio	Lower	Upper
200	100		
202	33.9	25.0	37.6
215	43.2	34.5	51.7

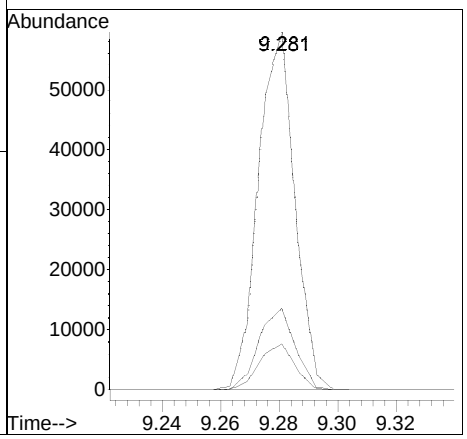


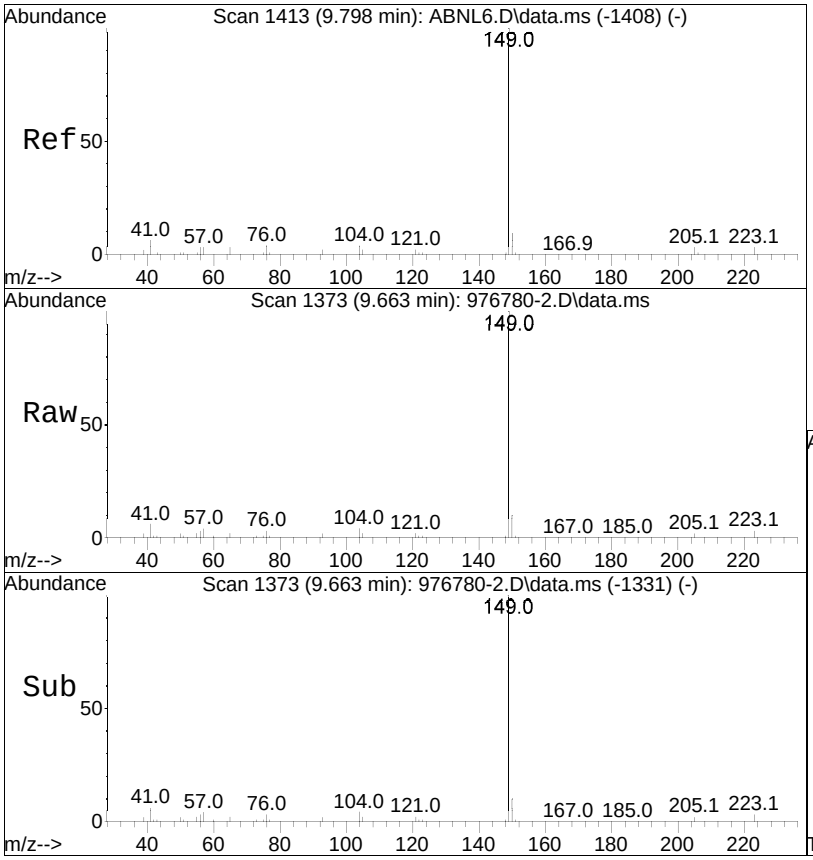


#91
Carbazole
Concen: 1.75 ug/ml
RT: 9.281 min Scan# 1308
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:167 Resp: 51040

Ion	Ratio	Lower	Upper
167	100		
168	12.7	10.8	16.2
166	22.9	17.7	26.5

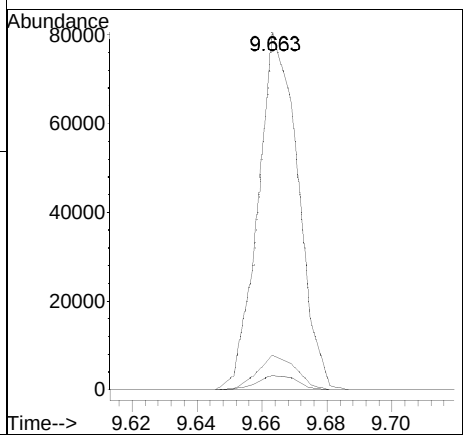


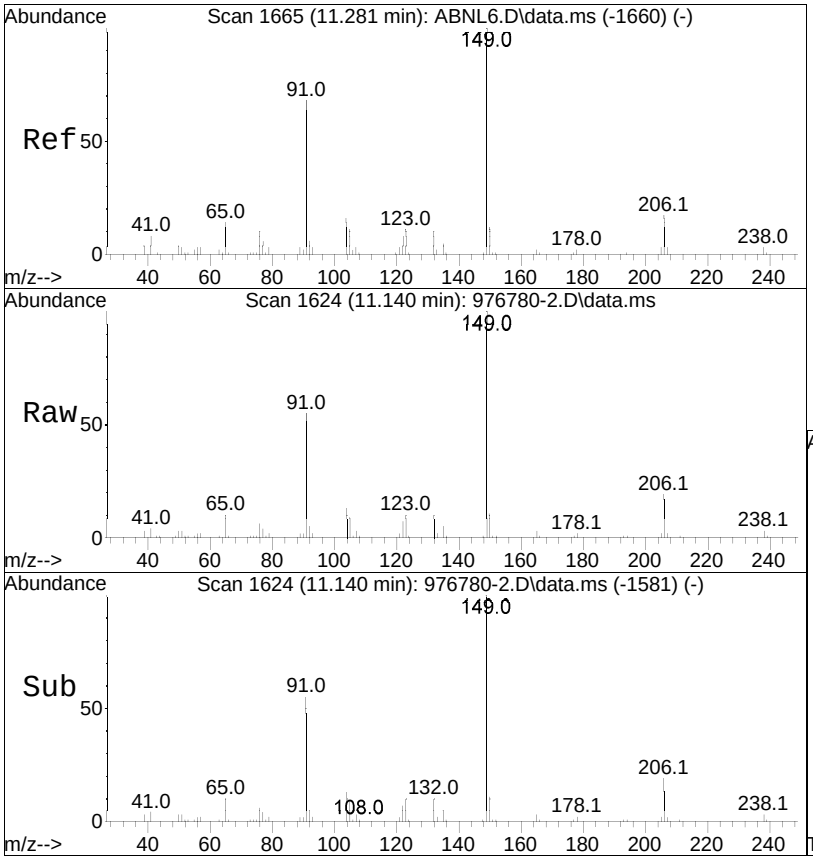


#92
Di-n-butylphthalate
Concen: 2.13 ug/ml
RT: 9.663 min Scan# 1373
Delta R.T. -0.006 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:149 Resp: 67885

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.3	10.9
104	4.2	4.0	6.0

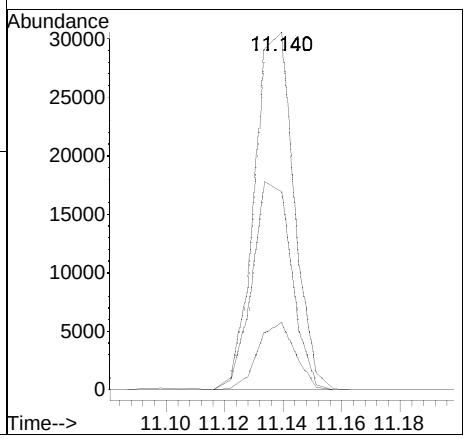


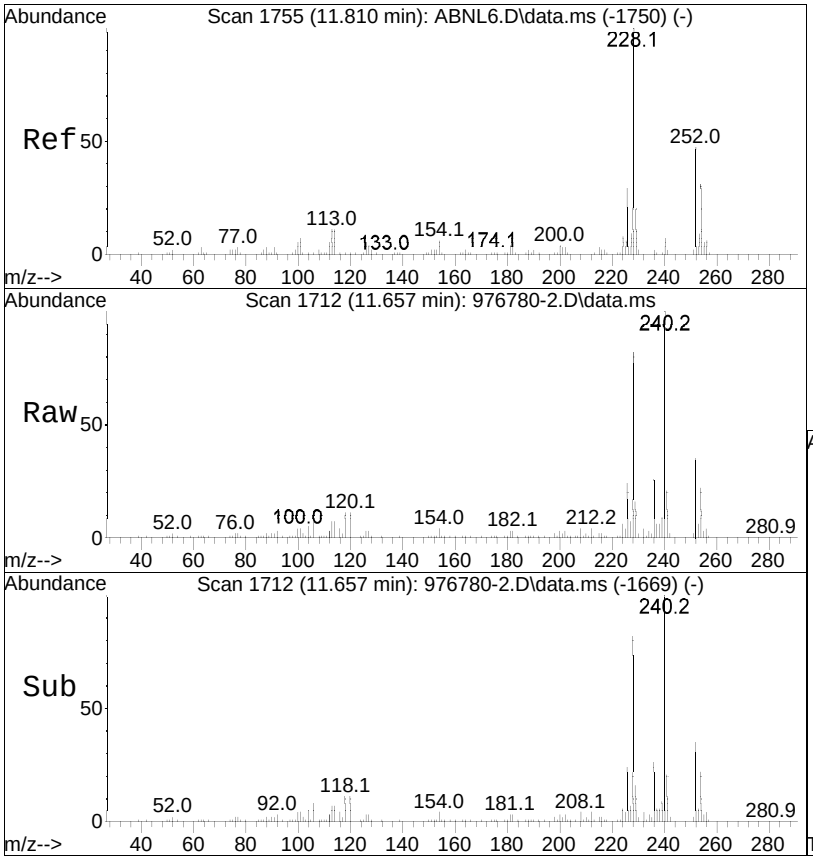


#97
Butyl benzyl phthalate
Concen: 2.03 ug/ml
RT: 11.140 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:149 Resp: 28555

Ion	Ratio	Lower	Upper
149	100		
91	58.3	57.9	86.9
206	18.0	11.9	17.9#

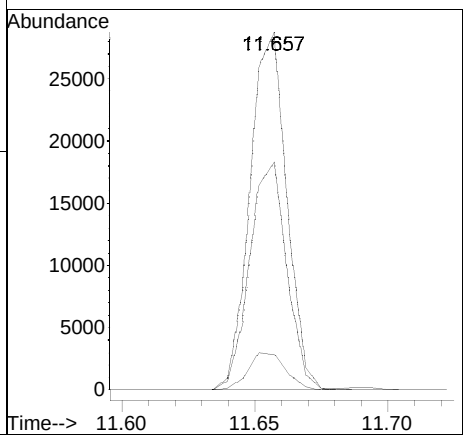


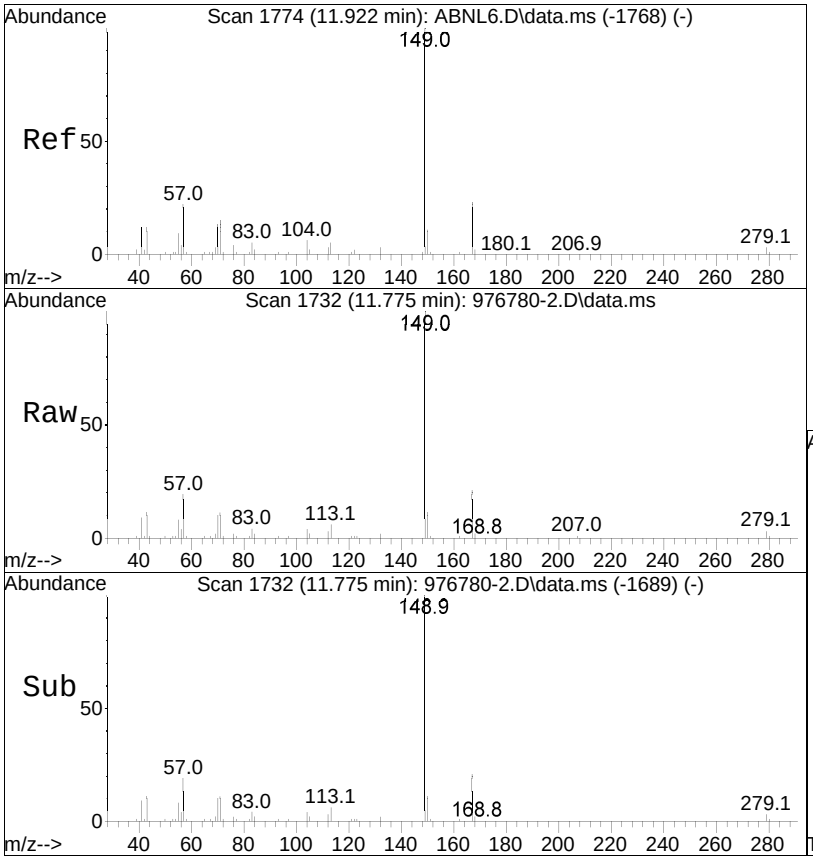


#106
3,3'-Dichlorobenzidine
Concen: 1.68 ug/ml
RT: 11.657 min Scan# 1712
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:252 Resp: 27342

Ion	Ratio	Lower	Upper
252	100		
126	10.9	12.6	19.0#
254	64.6	51.1	76.7

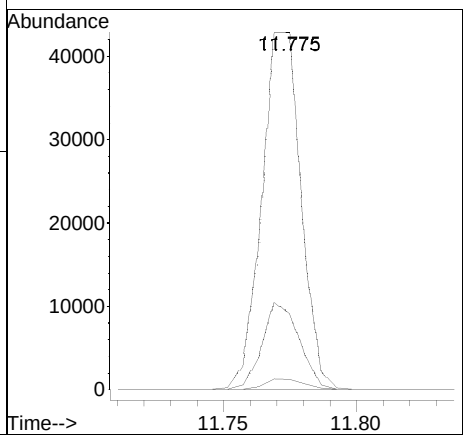


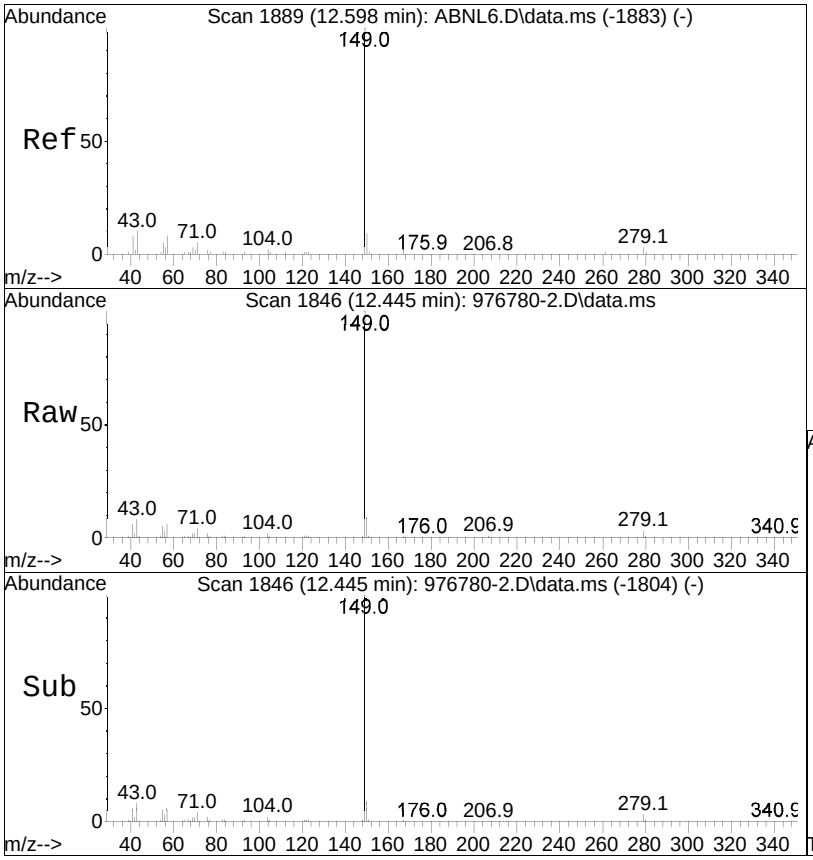


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.95 ug/ml
RT: 11.775 min Scan# 1732
Delta R.T. 0.000 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:149 Resp: 43345

Ion	Ratio	Lower	Upper
149	100		
167	23.2	18.4	27.6
279	2.8	1.7	2.5#

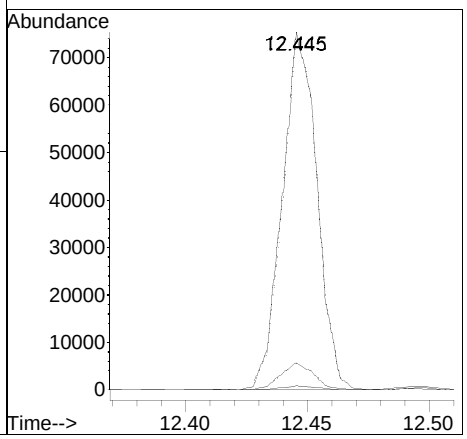




#109
Di-n-octylphthalate
Concen: 2.16 ug/ml
RT: 12.445 min Scan# 1846
Delta R.T. -0.006 min
Lab File: 976780-2.D
Acq: 27 Sep 2024 12:52 pm

Tgt Ion:149 Resp: 73555

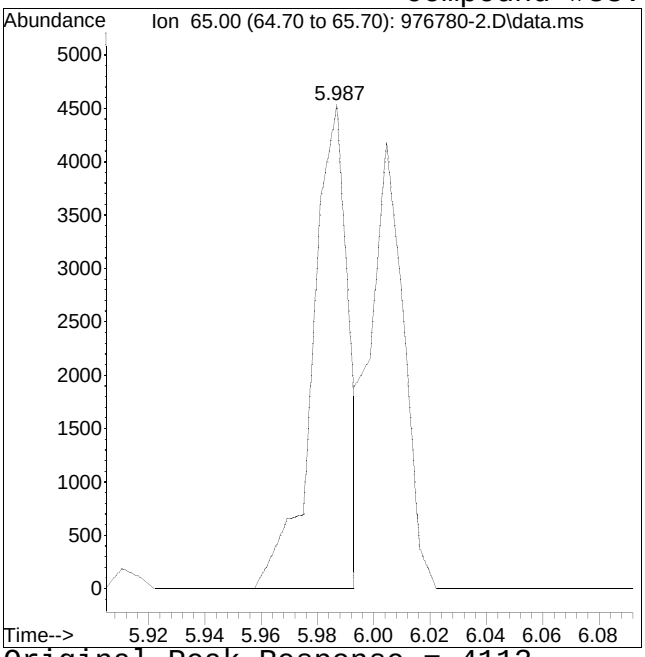
Ion	Ratio	Lower	Upper
149	100		
43	7.5	8.2	12.2#
167	1.3	1.1	1.7

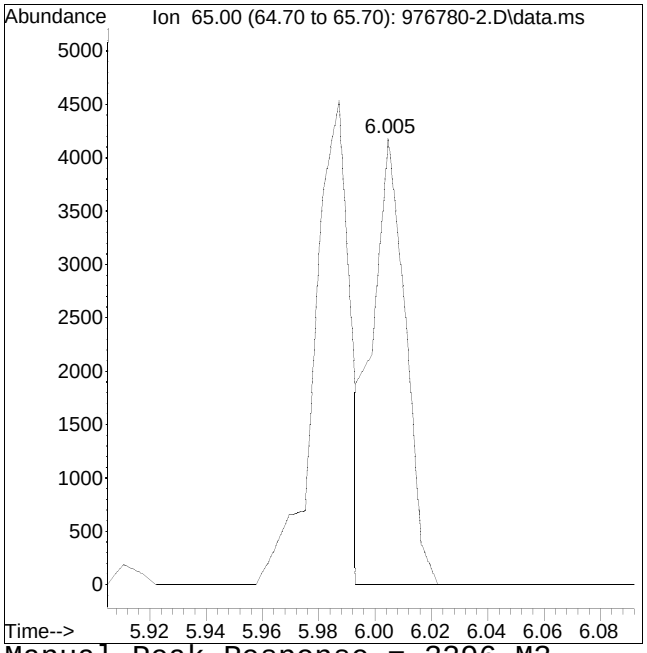


Manual Integration Report

Data Path : I:\8270\SV112\240927RVT\ QMethod : FS240625SV112RVT.m
Data File : 976780-2.D Operator : SV112:im
Date Inj'd : 9/27/2024 12:52 pm Instrument : SV112
Sample : WG1976780-2,32,,gmr Quant Date : 9/27/2024 1:10 pm

Compound #38: 4-Chloroaniline





Original Peak Response = 4113 Manual Peak Response = 3296 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-3.D
Acq On : 27 Sep 2024 01:14 pm
Operator : SV112:im
Sample : WG1976780-3,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 14:04:45 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.681	152	20410	4.000	ug/ml		0.00
Standard Area 1 = 23724			Recovery = 86.03%				
27) IS2_1,4-Dichlorobenzen...	4.681	152	20410	4.000	ug/ml		0.00
Standard Area 3 = 21185			Recovery = 96.34%				
32) IS3_1,4-Dichlorobenzen...	4.681	152	20410	4.000	ug/ml		0.00
Standard Area 2 = 20154			Recovery = 101.27%				
35) IS1_Naphthalene-d8	5.910	136	75994	4.000	ug/ml	#	0.00
Standard Area 1 = 87995			Recovery = 86.36%				
55) IS2_Naphthalene-d8	5.910	136	75994	4.000	ug/ml	#	0.00
Standard Area 3 = 80947			Recovery = 93.88%				
63) IS1_Acenaphthene-d10	7.610	164	50104	4.000	ug/ml		0.00
Standard Area 1 = 59162			Recovery = 84.69%				
83) IS2_Acenaphthene-d10	7.610	164	50104	4.000	ug/ml		0.00
Standard Area 3 = 51656			Recovery = 97.00%				
86) IS3_Acenaphthene-d10	7.610	164	50104	4.000	ug/ml		0.00
Standard Area 2 = 49766			Recovery = 100.68%				
88) IS1_Phenanthrene-d10	9.040	188	107442	4.000	ug/ml	#	0.00
Standard Area 1 = 129228			Recovery = 83.14%				
100) IS3_Phenanthrene-d10	9.040	188	107442	4.000	ug/ml	#	0.00
Standard Area 2 = 115148			Recovery = 93.31%				
104) IS1_Chrysene-d12	11.663	240	126654	4.000	ug/ml	#	0.00
Standard Area 1 = 146679			Recovery = 86.35%				
113) IS1_Perylene-d12	13.128	264	151280	4.000	ug/ml		0.00
Standard Area 1 = 167853			Recovery = 90.13%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.422	112	5865	1.094	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 54.70%				
7) Phenol-d6	4.369	99	5189	0.750	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 37.50%				
19) Nitrobenzene-d5	5.222	82	3964	0.600	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.00%				
46) 2-Fluorobiphenyl	6.981	172	12181	0.709	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 70.90%				
79) 2,4,6-Tribromophenol	8.375	330	5227	1.625	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 81.25%				

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-3.D
Acq On : 27 Sep 2024 01:14 pm
Operator : SV112:im
Sample : WG1976780-3,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 14:04:45 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.616	244	21538	0.779	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 77.90%

Target Compounds						Qvalue
6) 2-Chlorophenol	4.475	128	9474	1.485	ug/ml#	90
8) Phenol	4.381	94	6391	0.794	ug/ml#	79
14) Bis(2-chloroisopropyl)...	4.969	45	11842	1.574	ug/ml#	74
15) 2-Methylphenol	4.969	108	7537	1.398	ug/ml	93
17) n-Nitrosodi-n-propylamine	5.099	70	5840	1.323	ug/ml	97
18) 3-Methylphenol/4-Methy...	5.122	108	7509	1.279	ug/ml	97
20) Nitrobenzene	5.240	77	8551	1.300	ug/ml	90
21) Isophorone	5.481	82	15896	1.338	ug/ml#	92
22) 2-Nitrophenol	5.552	139	5272	1.799	ug/ml#	88
23) 2,4-Dimethylphenol	5.628	107	5887	1.048	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.716	93	10842	1.356	ug/ml	99
25) 2,4-Dichlorophenol	5.793	162	9863	1.677	ug/ml#	92
28) Benzaldehyde	4.246	105	6649	1.192	ug/ml	91
29) Acetophenone	5.081	105	13219	1.361	ug/ml	98
38) 4-Chloroaniline	6.005	65	2759M3	1.232	ug/ml	
40) p-Chloro-m-cresol	6.504	107	8179	1.555	ug/ml	85
43) Hexachlorocyclopentadiene	6.781	237	4464	0.937	ug/ml#	90
44) 2,4,6-Trichlorophenol	6.899	196	8088	1.660	ug/ml	95
45) 2,4,5-Trichlorophenol	6.928	196	9305	1.867	ug/ml	97
48) 2-Nitroaniline	7.187	138	7271	1.909	ug/ml#	81
51) Dimethyl phthalate	7.387	163	28358	1.618	ug/ml	100
53) 2,6-Dinitrotoluene	7.428	165	6059	1.848	ug/ml#	73
60) Caprolactam	6.304	55	1906	1.016	ug/ml	95
61) 1,2,4,5-Tetrachloroben...	6.781	216	10818	1.188	ug/ml	96
62) Biphenyl	7.069	154	25351	1.300	ug/ml	99
64) 3-Nitroaniline	7.587	138	6267	1.675	ug/ml#	87
66) 2,4-Dinitrophenol	7.681	184	3950	2.198	ug/ml#	73
67) Dibenzofuran	7.810	168	33304	1.447	ug/ml	87
68) 2,4-Dinitrotoluene	7.816	165	8236	1.715	ug/ml#	74
69) 4-Nitrophenol	7.775	65	2742	0.756	ug/ml#	73
72) Diethyl phthalate	8.075	149	28333	1.522	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.163	204	13121	1.344	ug/ml#	81
75) 4-Nitroaniline	8.169	138	7137	1.813	ug/ml#	75

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-3.D
Acq On : 27 Sep 2024 01:14 pm
Operator : SV112:im
Sample : WG1976780-3,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 14:04:45 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240927RVT\ABN0927.D
: 2 - I:\8270\SV112\240927RVT\ADP0927.D
: 3 - I:\8270\SV112\240927RVT\AP90927.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	8.204	198	5550	1.952	ug/ml#	71
77)	NDPA/DPA	8.275	169	22940	1.488	ug/ml	96
80)	4-Bromophenyl phenyl e...	8.628	248	8626	1.379	ug/ml#	81
87)	Atrazine	8.810	200	8668	1.568	ug/ml	97
91)	Carbazole	9.281	167	41827	1.643	ug/ml	98
92)	Di-n-butylphthalate	9.663	149	50643	1.823	ug/ml	99
97)	Butyl benzyl phthalate	11.140	149	24190	1.968	ug/ml#	83
106)	3,3'-Dichlorobenzidine	11.657	252	24205	1.634	ug/ml#	97
108)	Bis(2-ethylhexyl)phtha...	11.769	149	36811	1.820	ug/ml#	99
109)	Di-n-octylphthalate	12.445	149	61530	1.985	ug/ml#	94

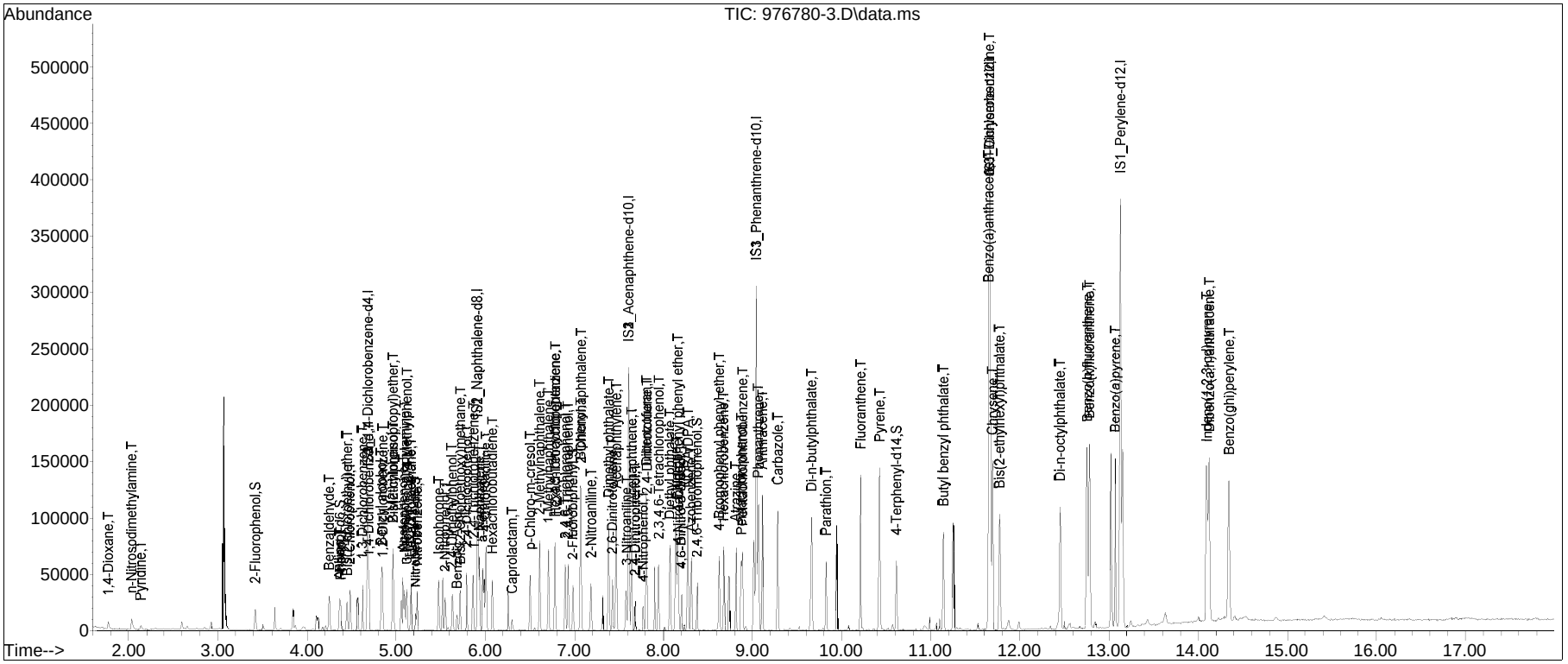
(#) = qualifier out of range (m) = manual integration (+) = signals summed

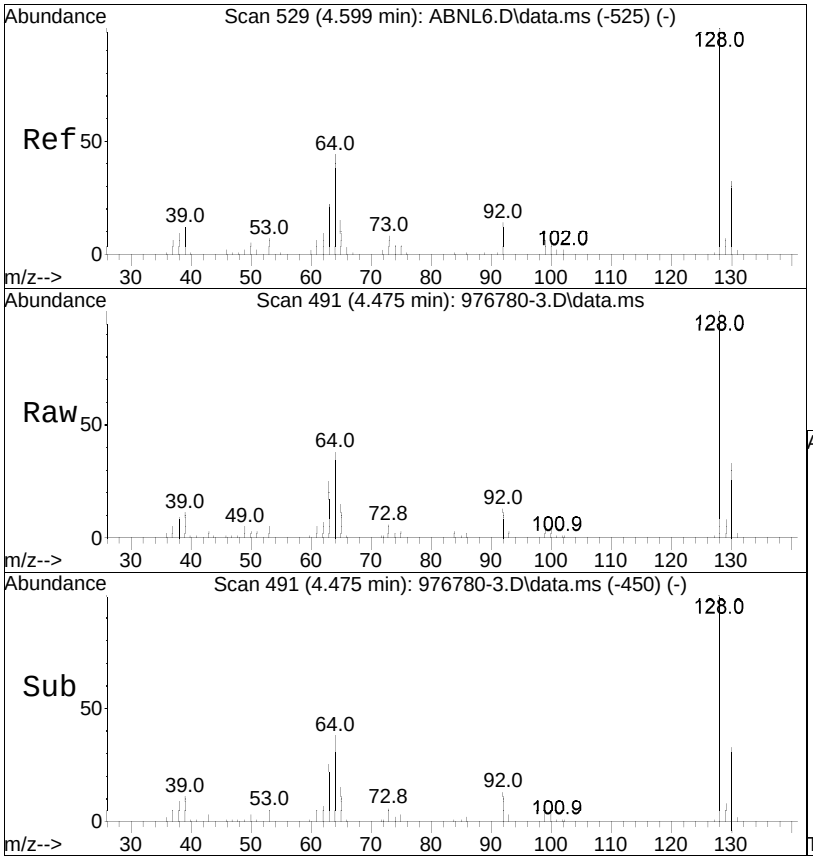
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240927RVT\
Data File : 976780-3.D
Acq On : 27 Sep 2024 01:14 pm
Operator : SV112:im
Sample : WG1976780-3,32,,gmr
Misc : WG1977240,WG1976780,ical21241
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 14:04:45 2024
Quant Method : I:\8270\SV112\240927RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 12:28:40 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90927.D•

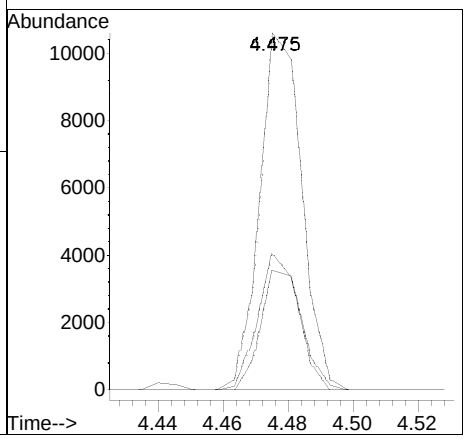


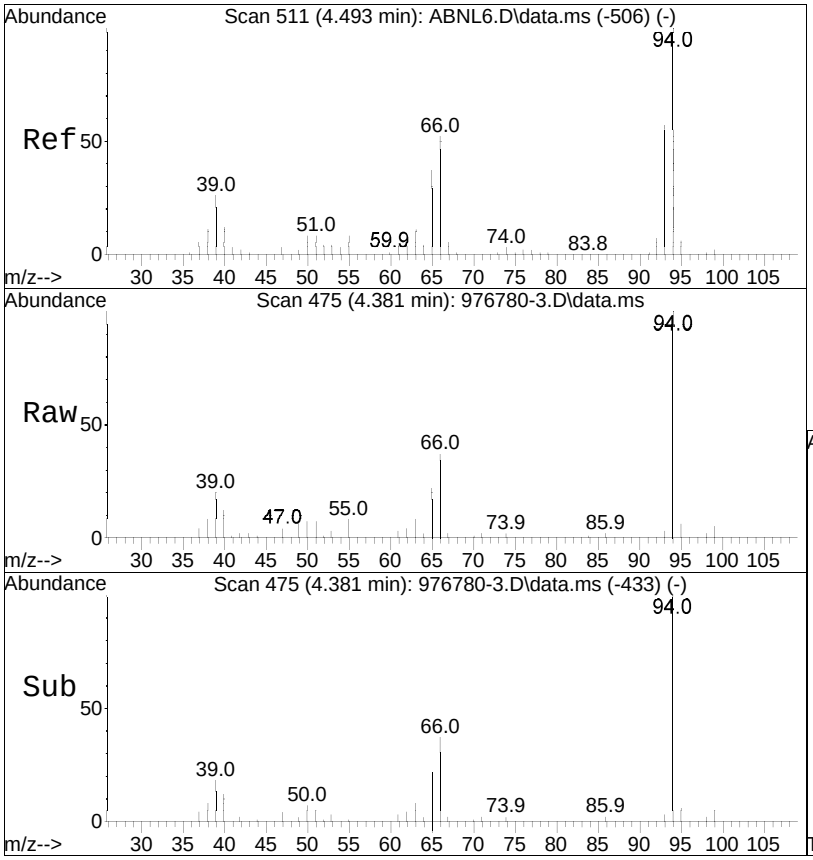


#6
2-Chlorophenol
Concen: 1.48 ug/ml
RT: 4.475 min Scan# 491
Delta R.T. -0.006 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:128 Resp: 9474

Ion	Ratio	Lower	Upper
128	100		
64	36.5	38.2	57.4#
130	33.2	26.2	39.2

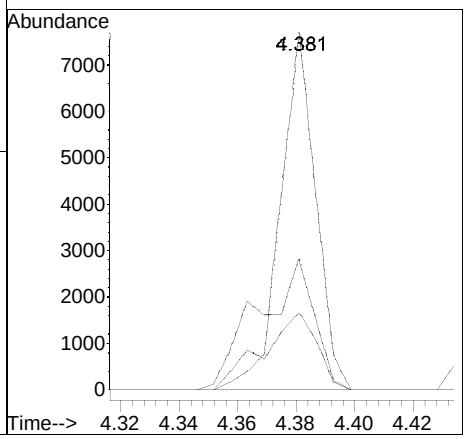


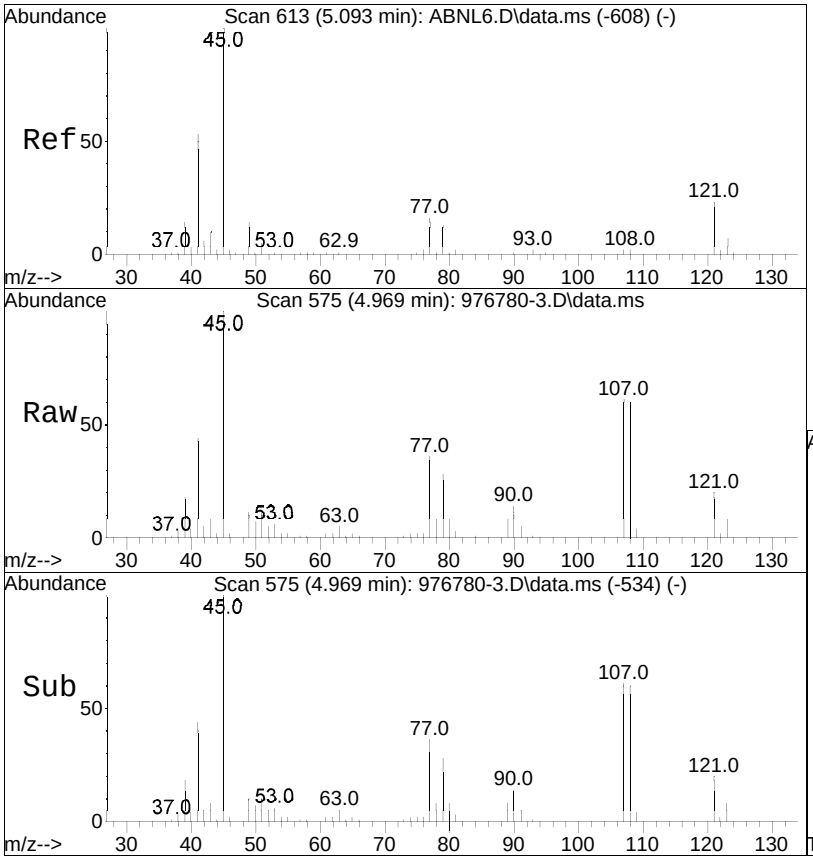


#8
Phenol
Concen: 0.79 ug/ml
RT: 4.381 min Scan# 475
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 94 Resp: 6391

Ion	Ratio	Lower	Upper
94	100		
65	33.5	23.0	34.6
66	58.6	32.1	48.1#

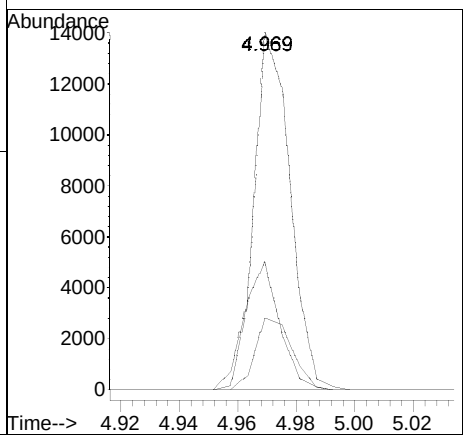


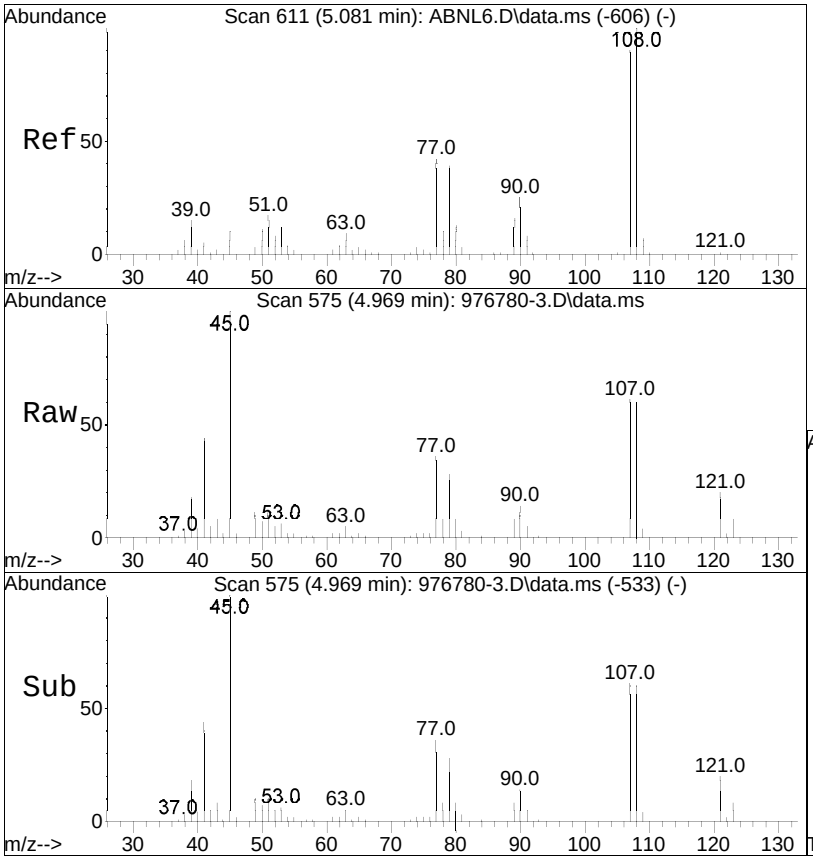


#14
Bis(2-chloroisopropyl)ether
Concen: 1.57 ug/ml
RT: 4.969 min Scan# 575
Delta R.T. -0.006 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 45 Resp: 11842

Ion	Ratio	Lower	Upper
45	100		
121	20.6	14.8	22.2
77	35.5	10.5	15.7#

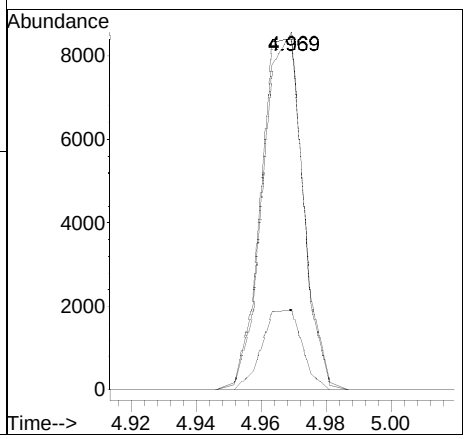


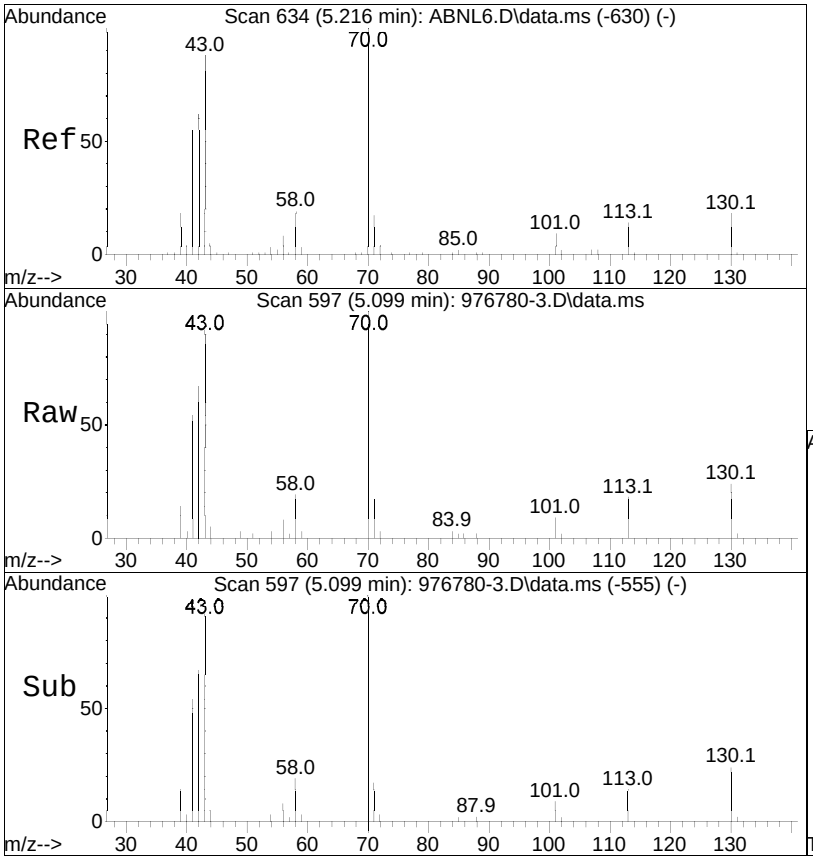


#15
2-Methylphenol
Concen: 1.40 ug/ml
RT: 4.969 min Scan# 575
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:108 Resp: 7537

Ion	Ratio	Lower	Upper
108	100		
107	95.7	71.0	106.4
90	21.6	19.7	29.5

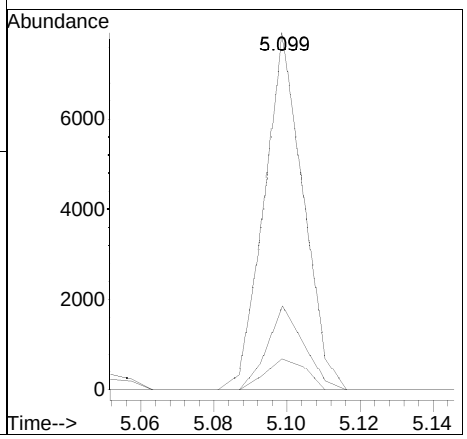


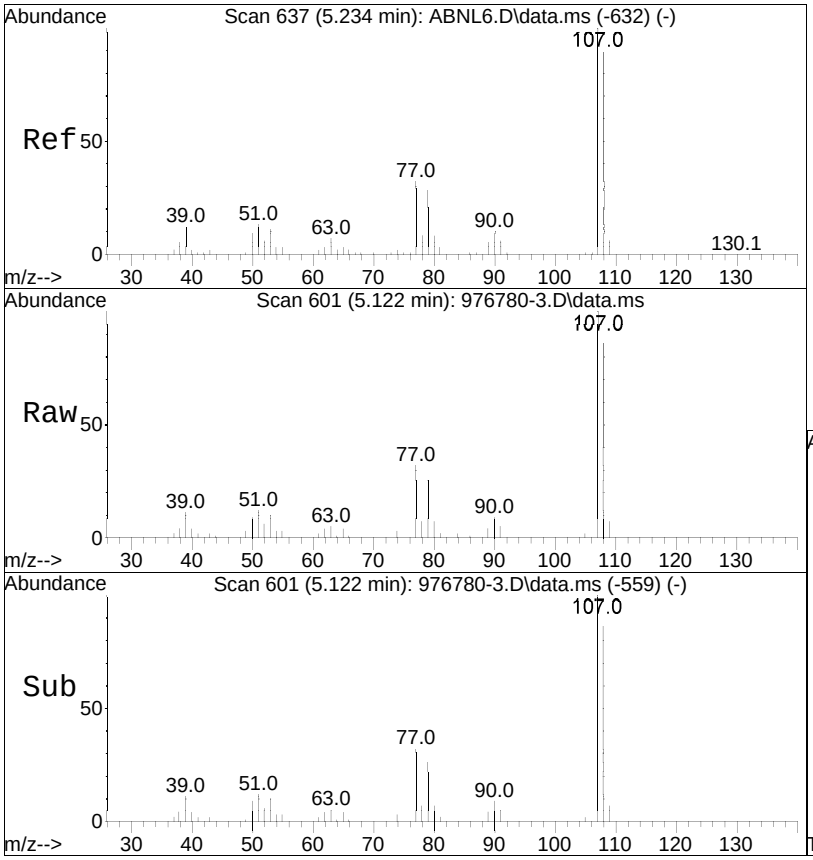


#17
n-Nitrosodi-n-propylamine
Concen: 1.32 ug/ml
RT: 5.099 min Scan# 597
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 70 Resp: 5840

Ion	Ratio	Lower	Upper
70	100		
130	22.1	16.2	24.4
101	9.0	7.6	11.4

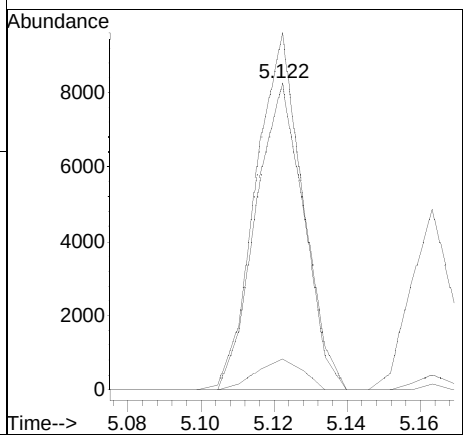


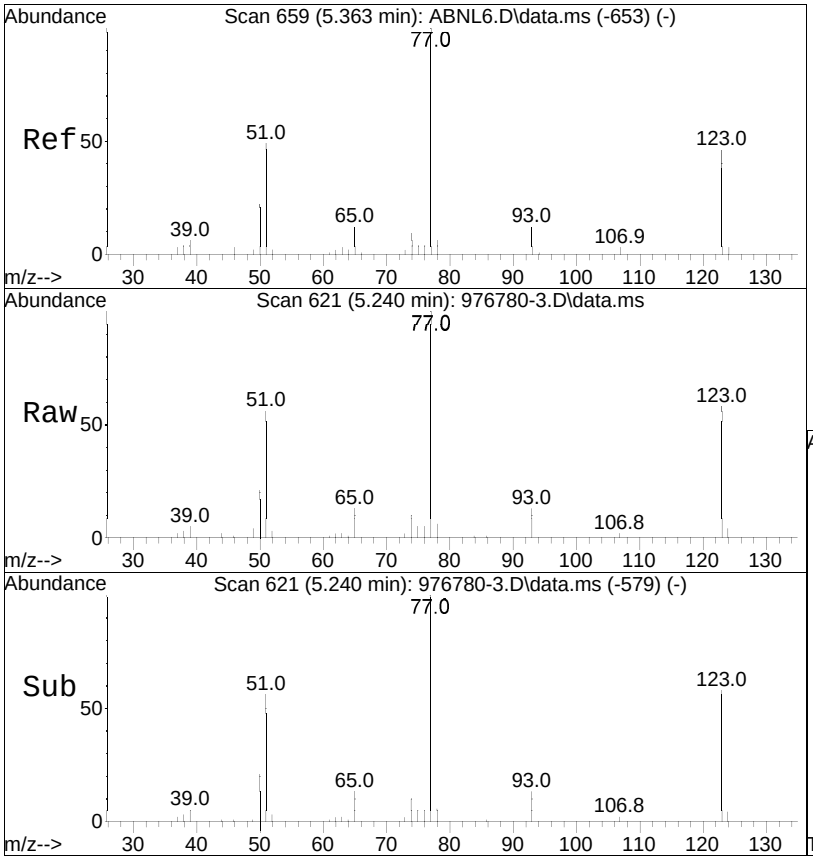


#18
3-Methylphenol/4-Methylphenol
Concen: 1.28 ug/ml
RT: 5.122 min Scan# 601
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:108 Resp: 7509

Ion	Ratio	Lower	Upper
108	100		
107	114.0	88.8	133.2
90	9.8	9.0	13.6

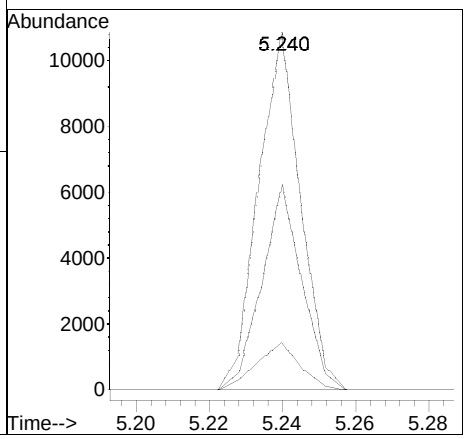


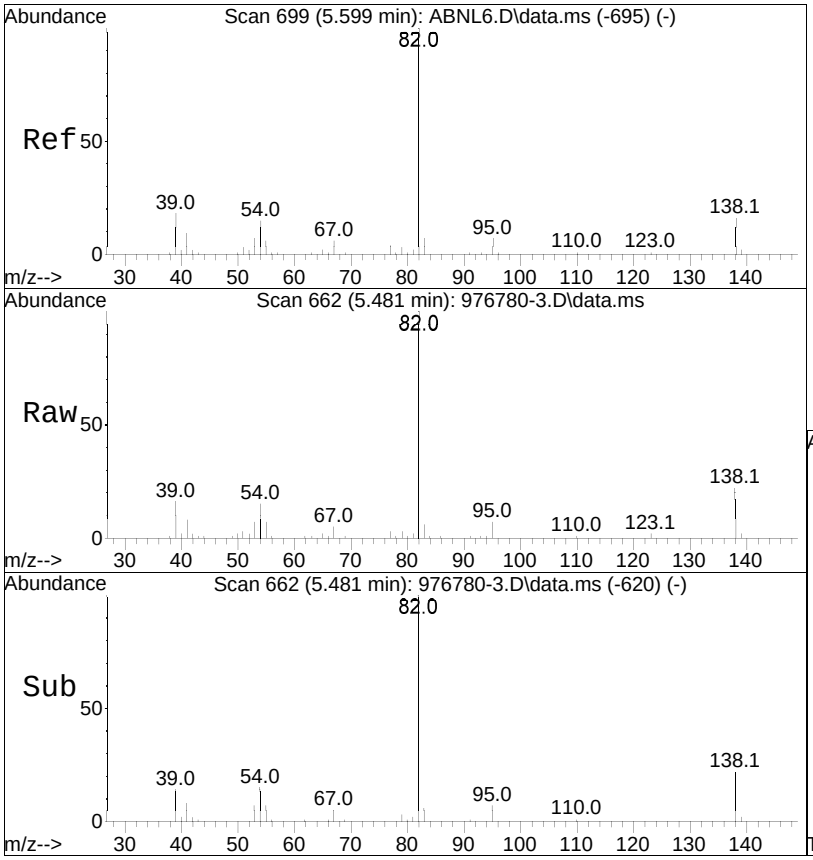


#20
Nitrobenzene
Concen: 1.30 ug/ml
RT: 5.240 min Scan# 621
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 77 Resp: 8551

Ion	Ratio	Lower	Upper
77	100		
123	54.9	37.3	55.9
65	14.0	10.9	16.3

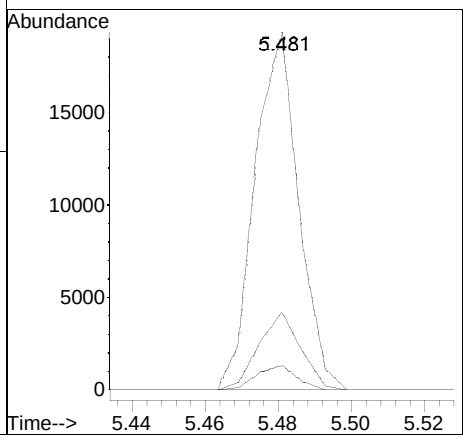


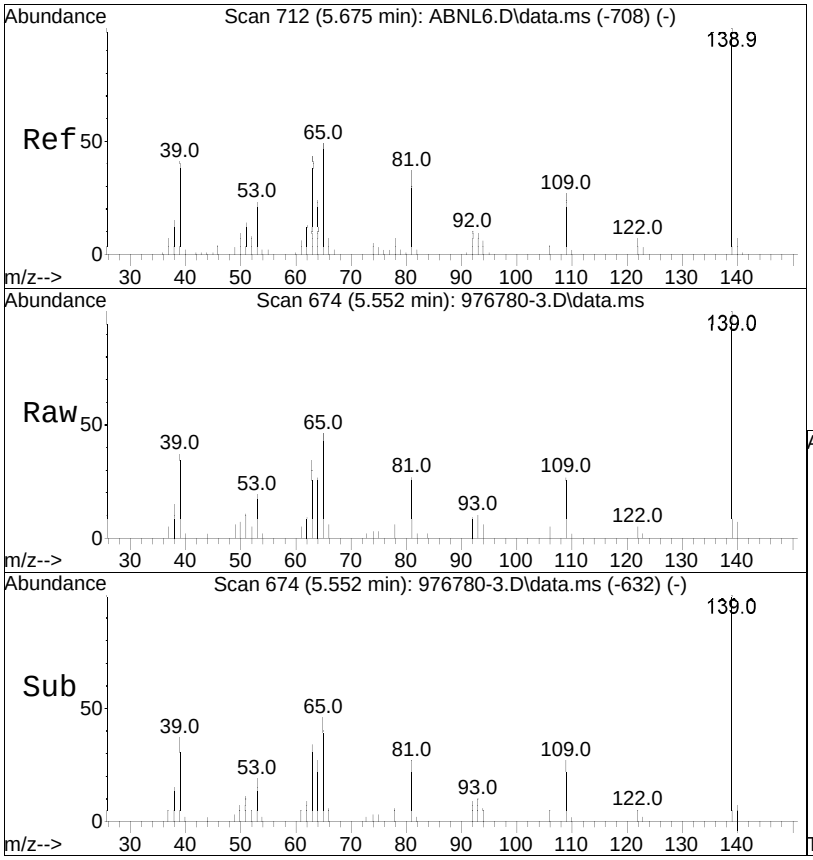


#21
Isophorone
Concen: 1.34 ug/ml
RT: 5.481 min Scan# 662
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 82 Resp: 15896

Ion	Ratio	Lower	Upper
82	100		
138	20.8	13.0	19.4#
95	6.2	5.5	8.3

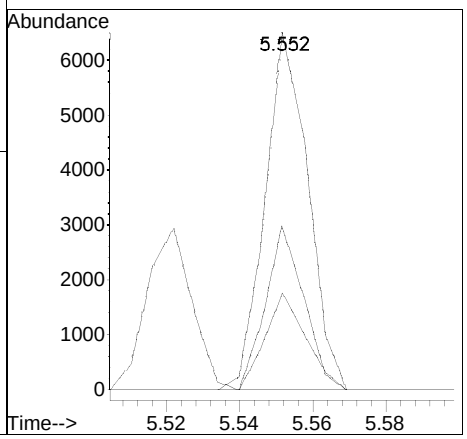


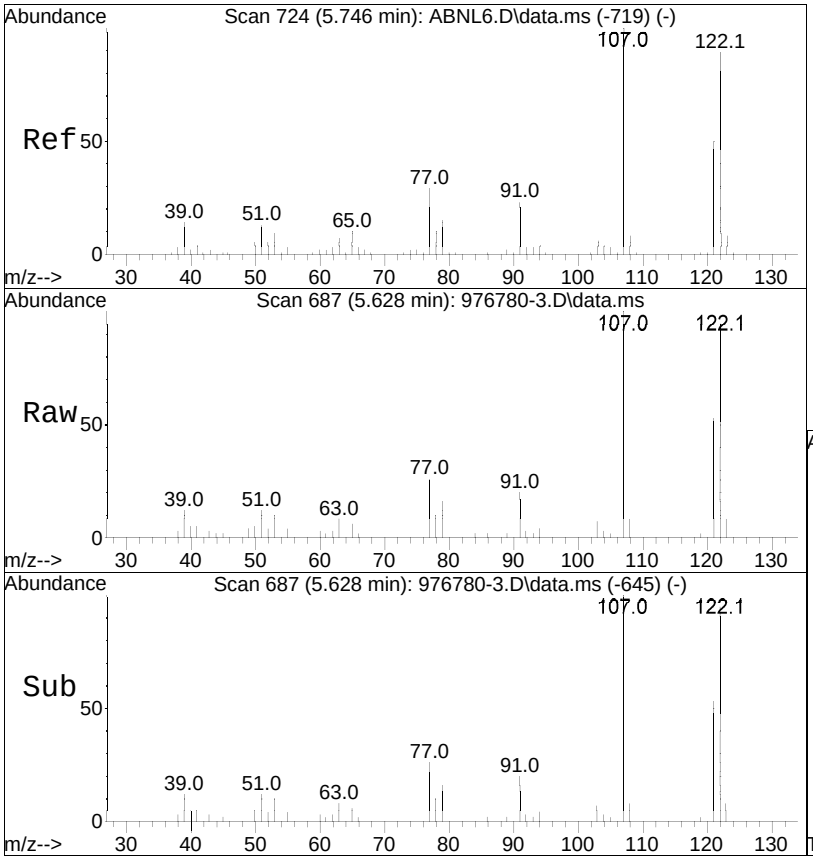


#22
2-Nitrophenol
Concen: 1.80 ug/ml
RT: 5.552 min Scan# 674
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:139 Resp: 5272

Ion	Ratio	Lower	Upper
139	100		
109	25.8	23.1	34.7
65	41.0	41.4	62.2#

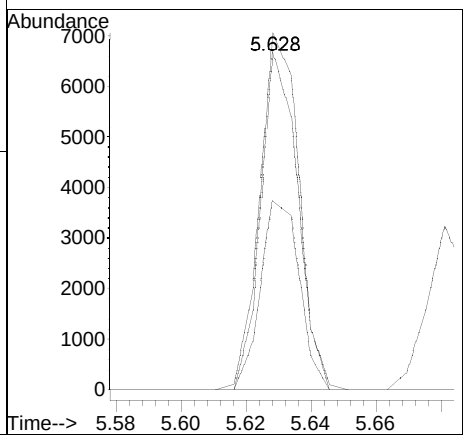


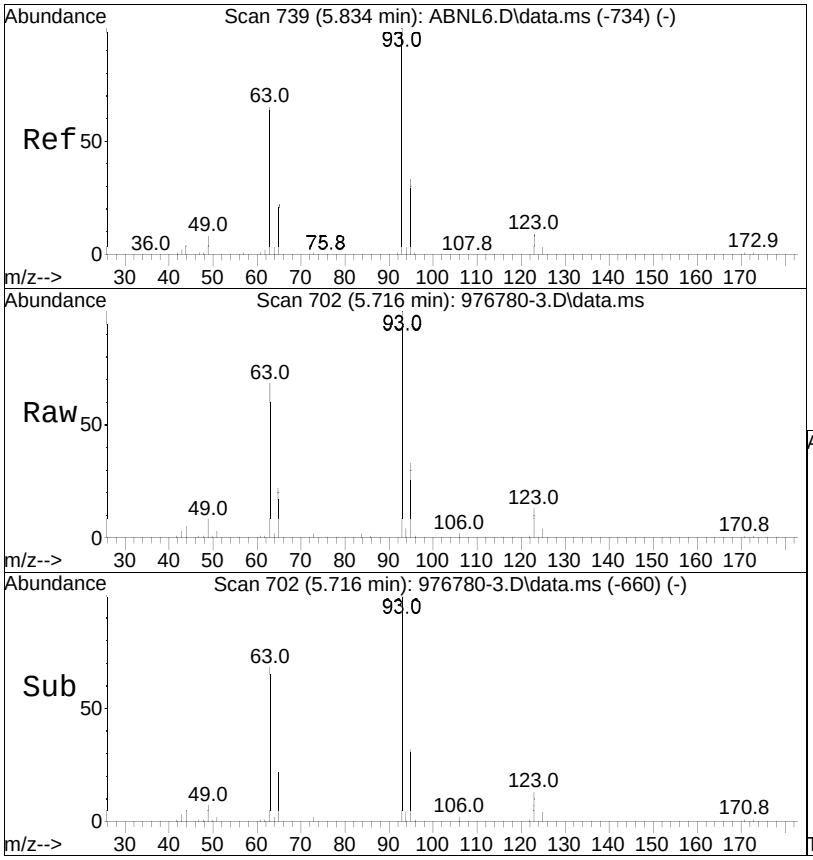


#23
2,4-Dimethylphenol
Concen: 1.05 ug/ml
RT: 5.628 min Scan# 687
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:107 Resp: 5887

Ion	Ratio	Lower	Upper
107	100		
121	52.8	41.3	61.9
122	88.9	69.3	103.9

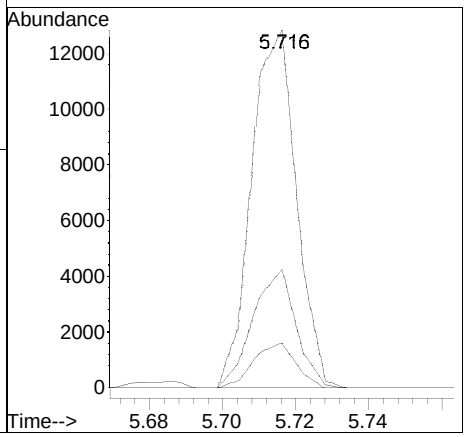


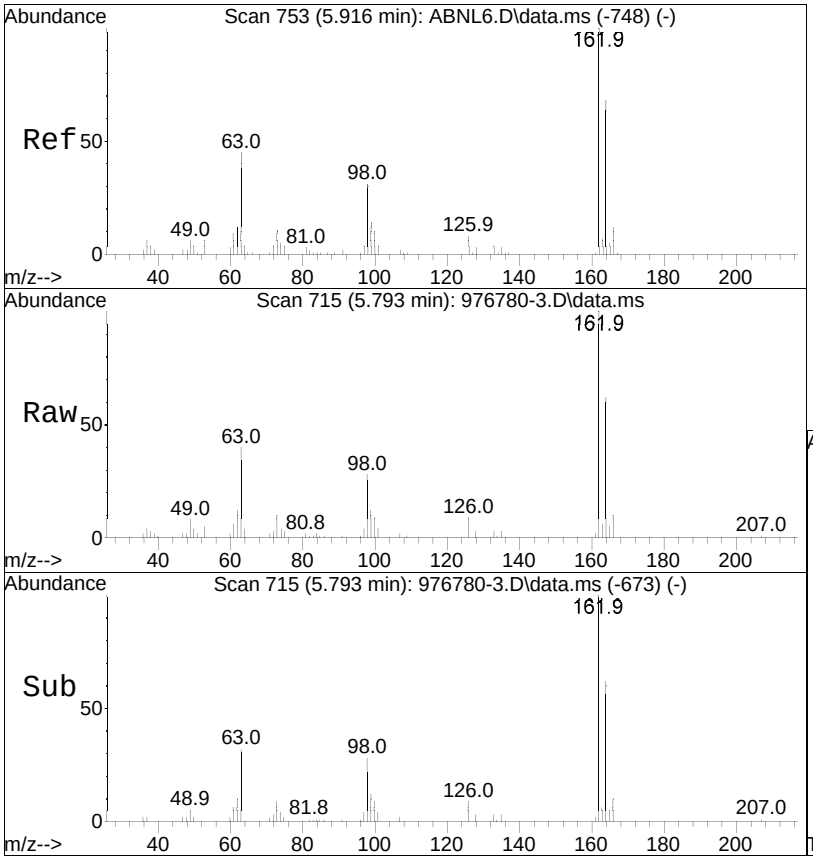


#24
Bis(2-chloroethoxy)methane
Concen: 1.36 ug/ml
RT: 5.716 min Scan# 702
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 93 Resp: 10842

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.8	38.8
123	11.9	9.6	14.4

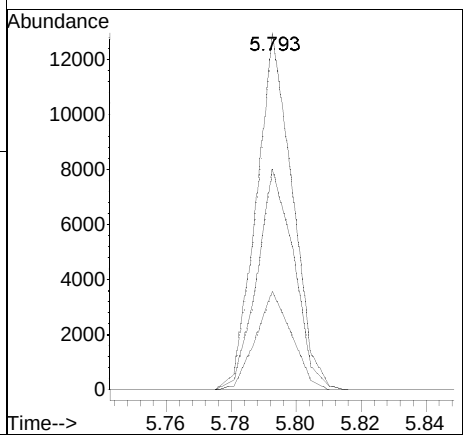


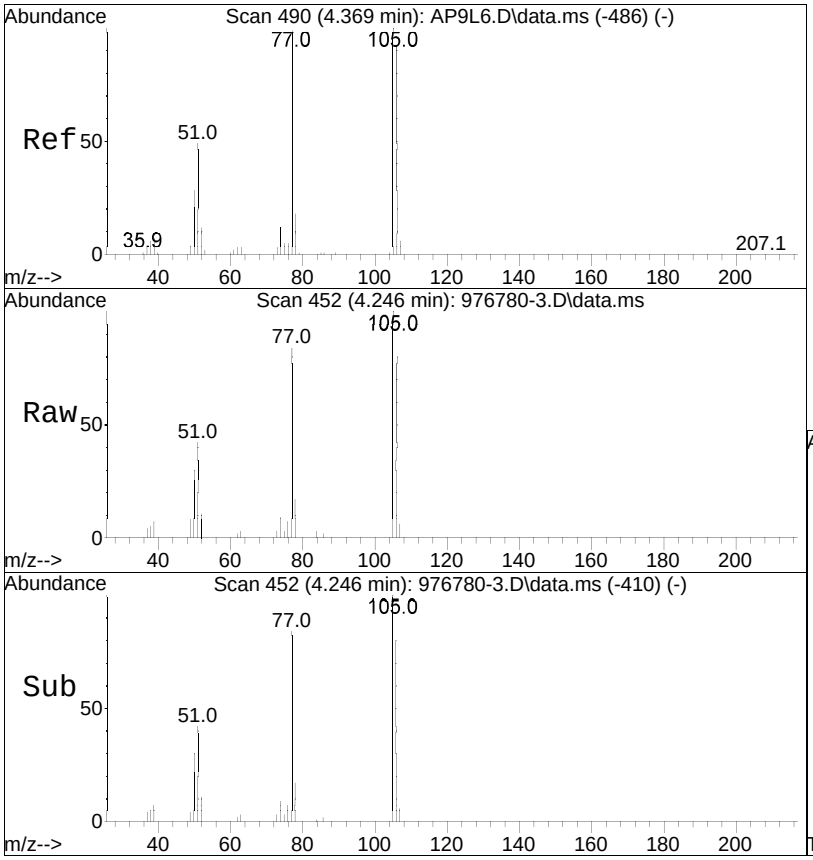


#25
2,4-Dichlorophenol
Concen: 1.68 ug/ml
RT: 5.793 min Scan# 715
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:162 Resp: 9863

Ion	Ratio	Lower	Upper
162	100		
164	63.7	51.1	76.7
98	27.6	32.2	48.2#

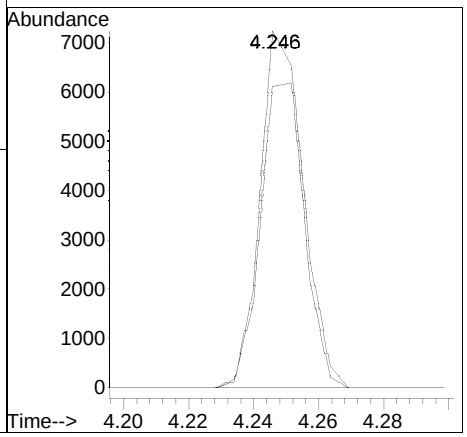


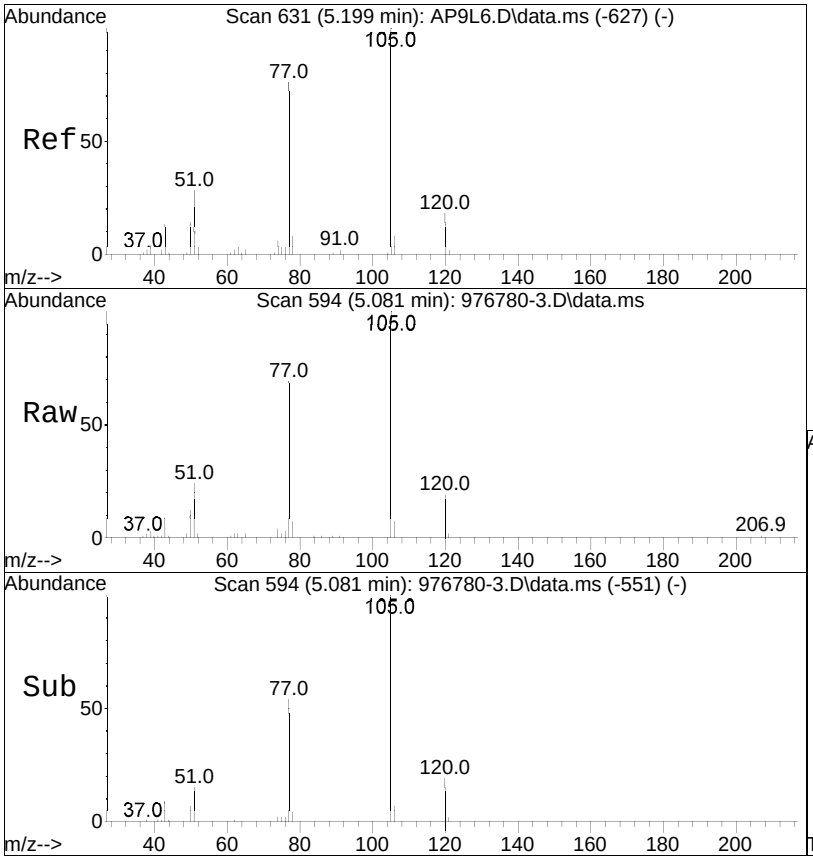


#28
Benzaldehyde
Concen: 1.19 ug/ml
RT: 4.246 min Scan# 452
Delta R.T. -0.006 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:105 Resp: 6649

Ion	Ratio	Lower	Upper
105	100		
77	87.3	77.0	115.6

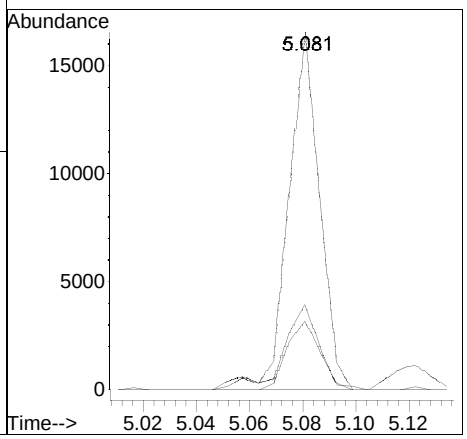


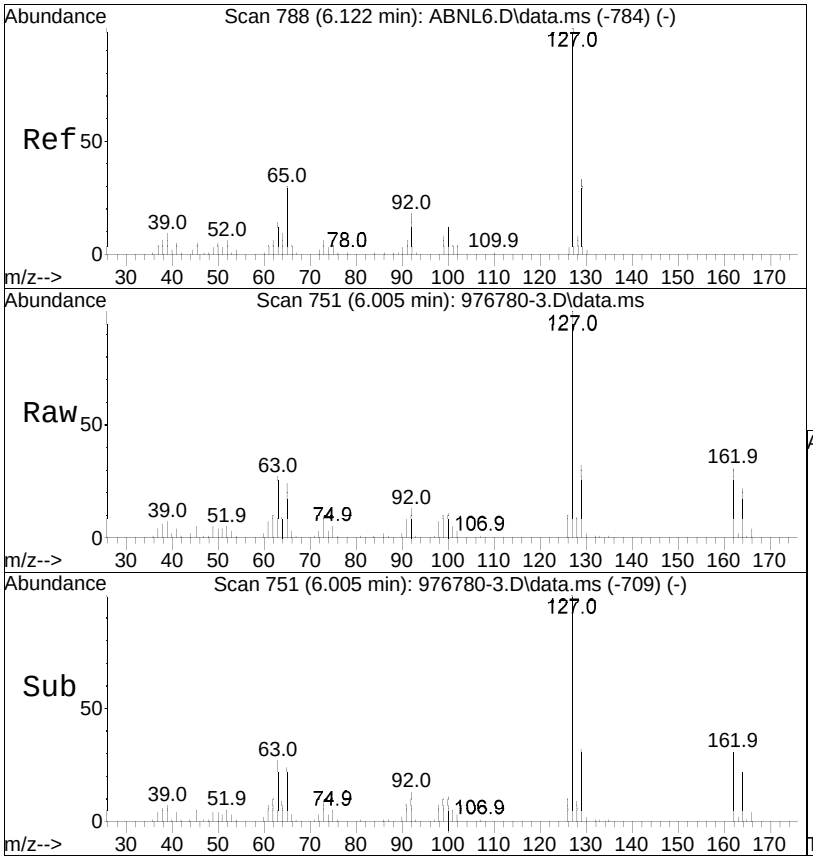


#29
Acetophenone
Concen: 1.36 ug/ml
RT: 5.081 min Scan# 594
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:105 Resp: 13219

Ion	Ratio	Lower	Upper
105	100		
120	20.6	15.2	22.8
51	28.5	23.1	34.7

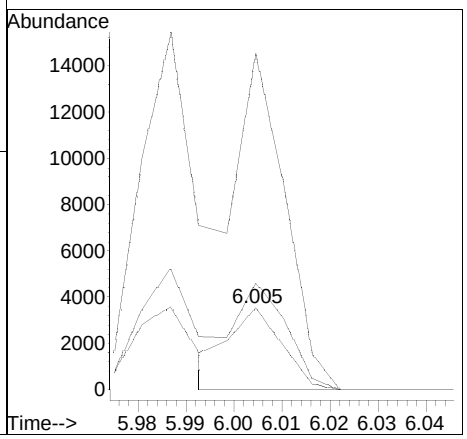


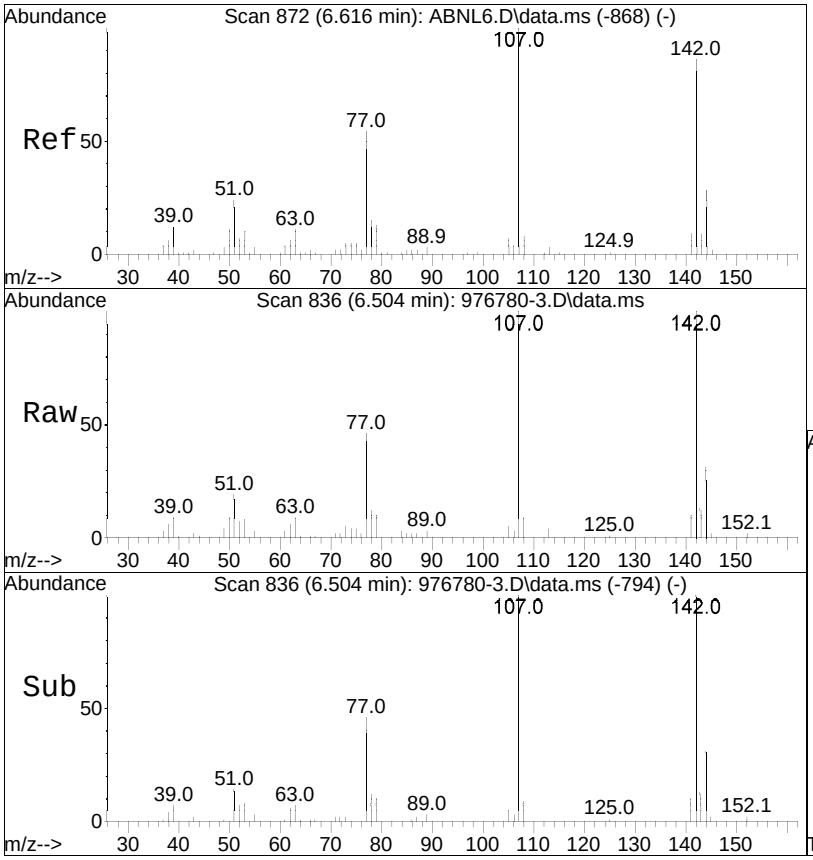


#38
4-Chloroaniline
Concen: 1.23 ug/ml M3
RT: 6.005 min Scan# 751
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 65 Resp: 2759

Ion	Ratio	Lower	Upper
65	100		
127	523.1	266.2	399.4#
129	179.5	85.0	127.4#

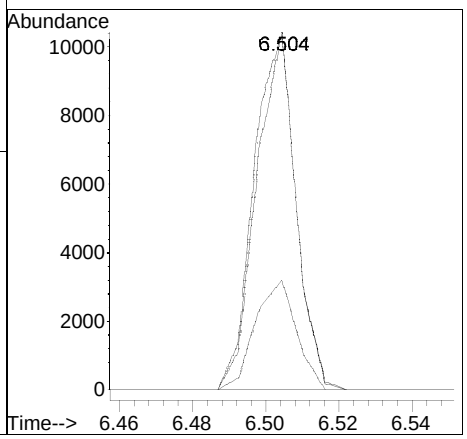


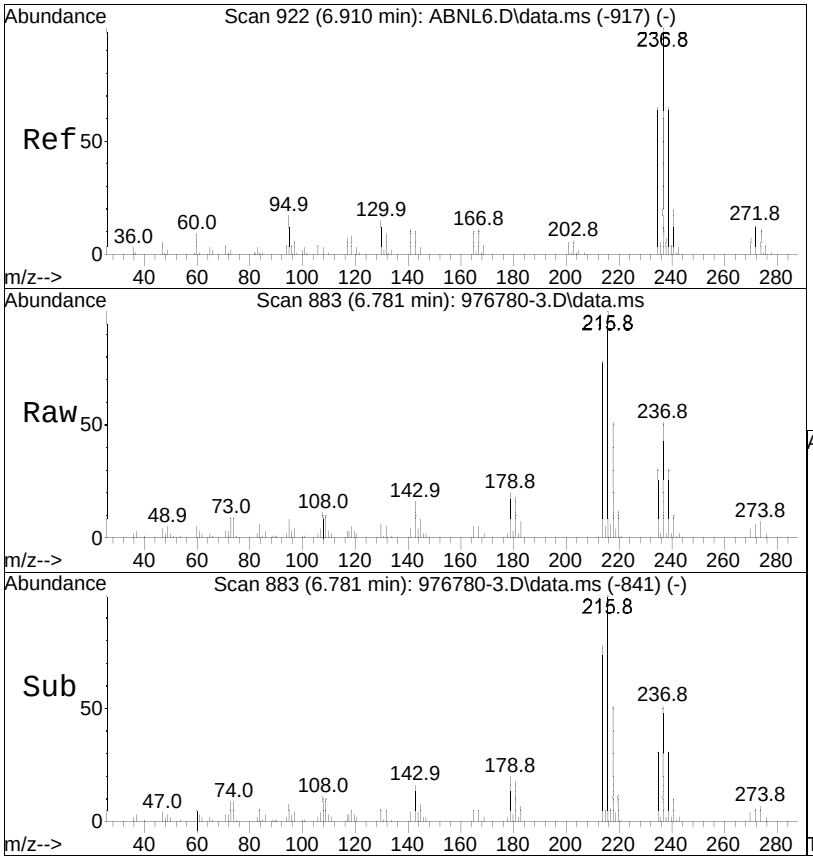


#40
p-Chloro-m-cresol
Concen: 1.55 ug/ml
RT: 6.504 min Scan# 836
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:107 Resp: 8179

Ion	Ratio	Lower	Upper
107	100		
144	30.2	20.3	30.5
142	93.9	63.8	95.6

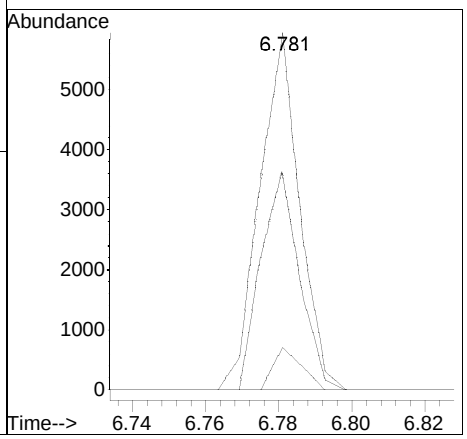


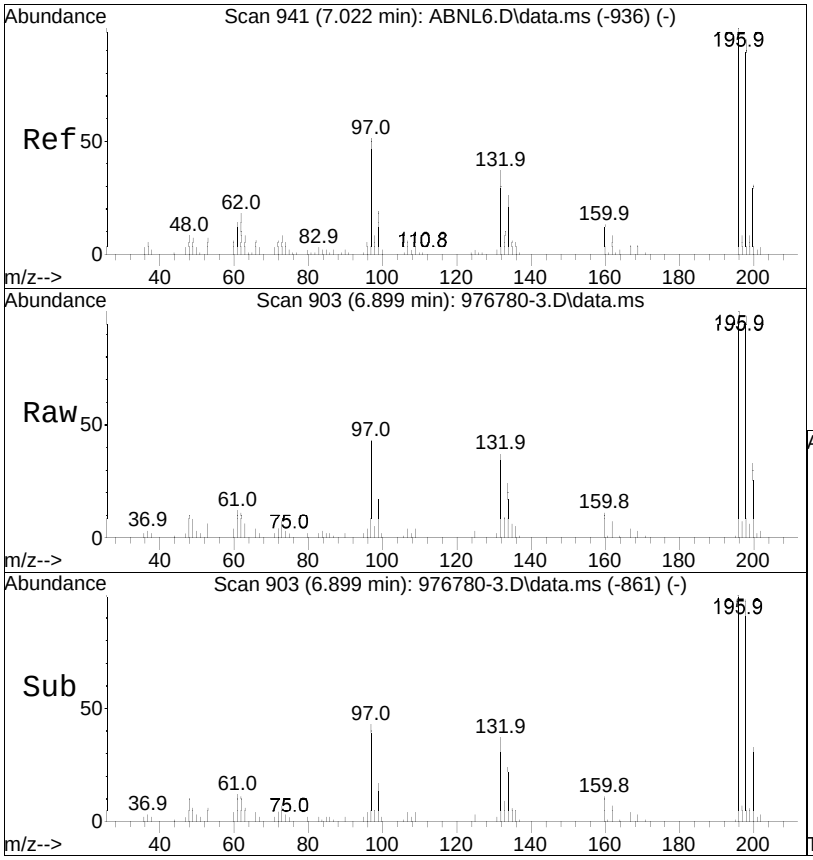


#43
Hexachlorocyclopentadiene
Concen: 0.94 ug/ml
RT: 6.781 min Scan# 883
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:237 Resp: 4464

Ion	Ratio	Lower	Upper
237	100		
235	59.3	50.9	76.3
272	0.0	10.1	15.1#

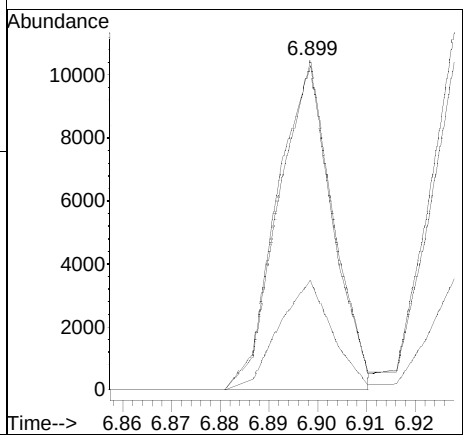


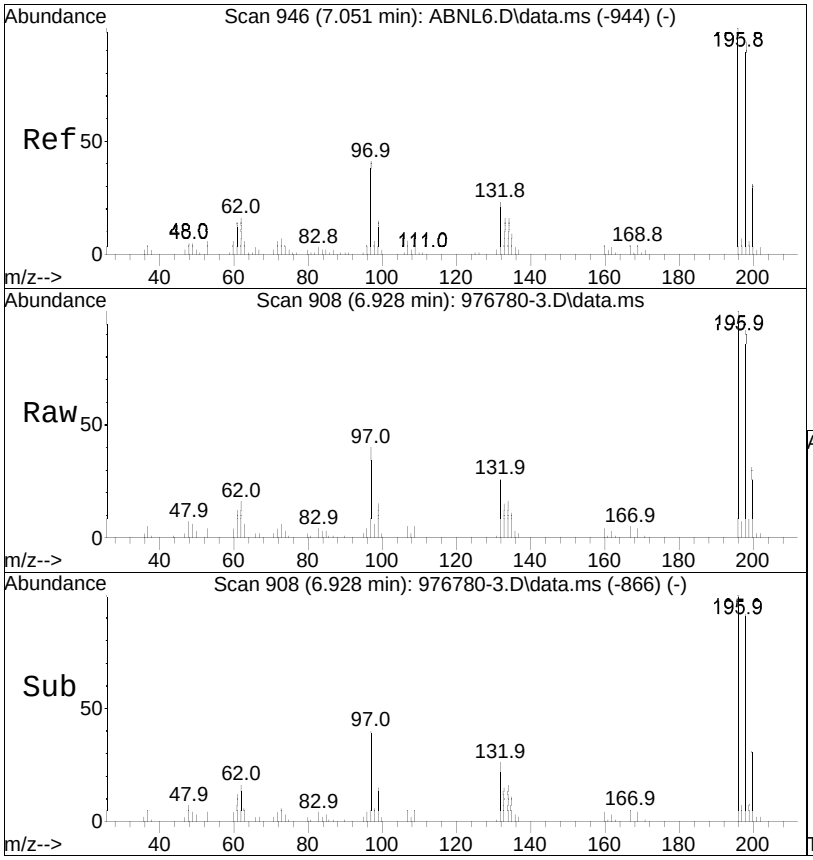


#44
2,4,6-Trichlorophenol
Concen: 1.66 ug/ml
RT: 6.899 min Scan# 903
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:196 Resp: 8088

Ion	Ratio	Lower	Upper
196	100		
198	101.1	76.4	114.6
200	32.9	24.4	36.6

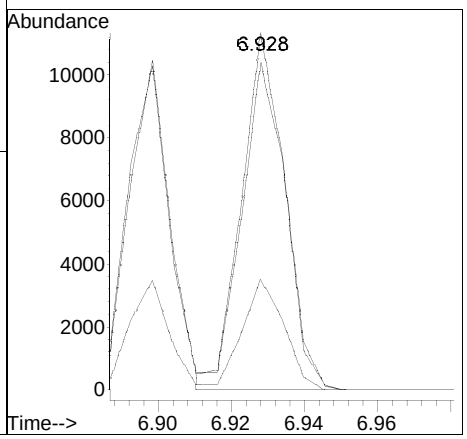


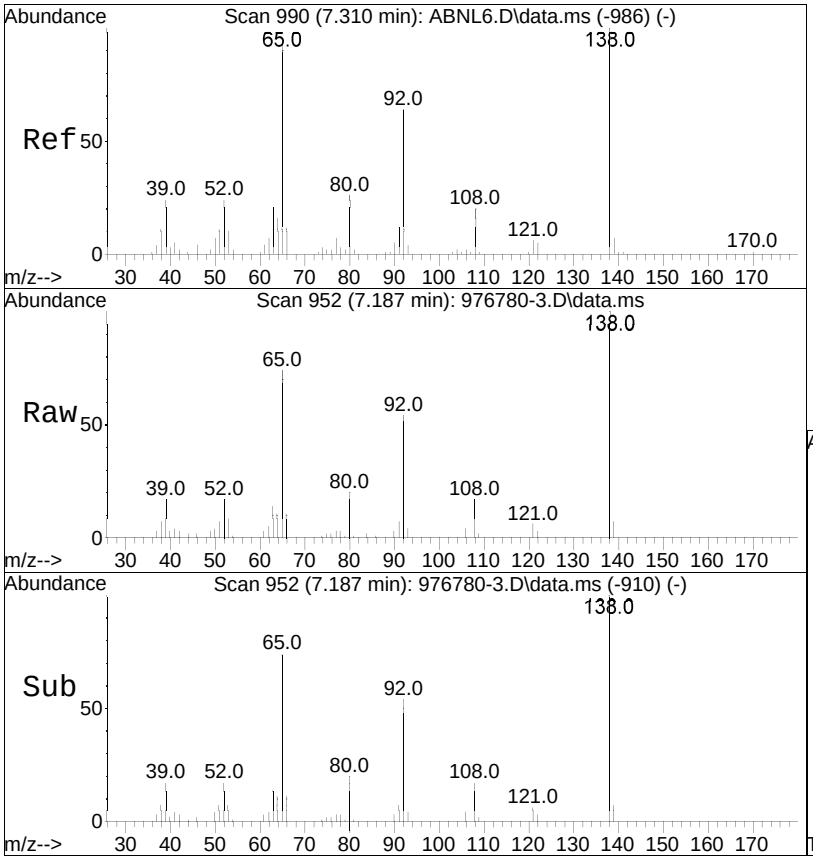


#45
2,4,5-Trichlorophenol
Concen: 1.87 ug/ml
RT: 6.928 min Scan# 908
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:196 Resp: 9305

Ion	Ratio	Lower	Upper
196	100		
200	30.2	24.2	36.4
198	91.1	76.2	114.2

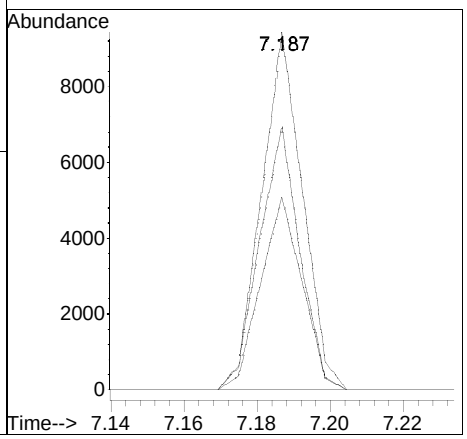


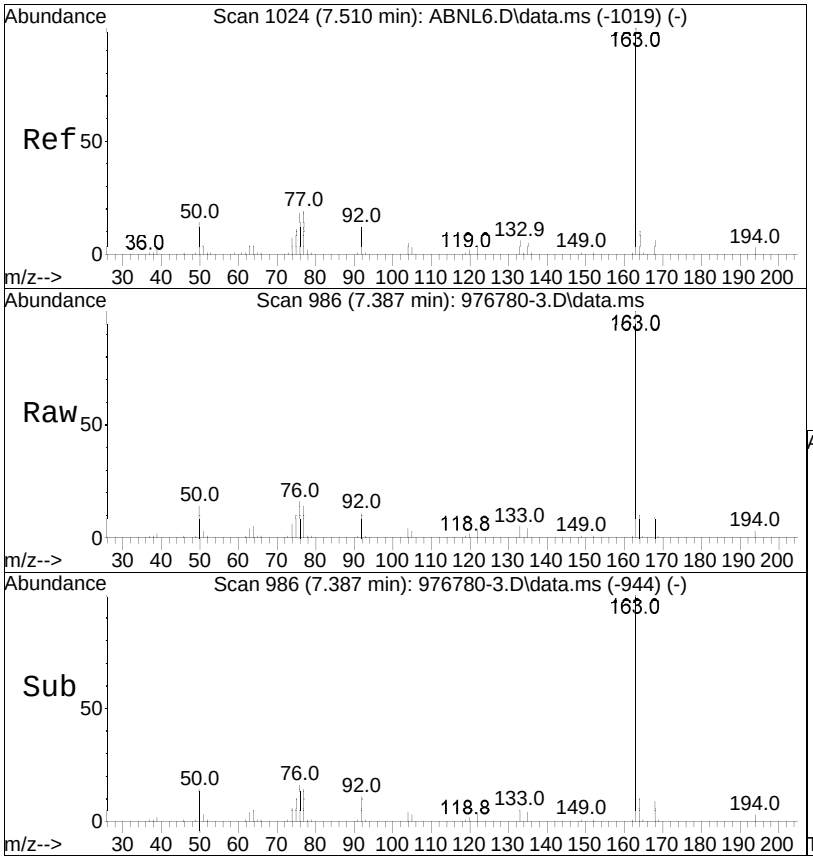


#48
2-Nitroaniline
Concen: 1.91 ug/ml
RT: 7.187 min Scan# 952
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:138 Resp: 7271

Ion	Ratio	Lower	Upper
138	100		
92	54.6	52.1	78.1
65	72.5	75.9	113.9#

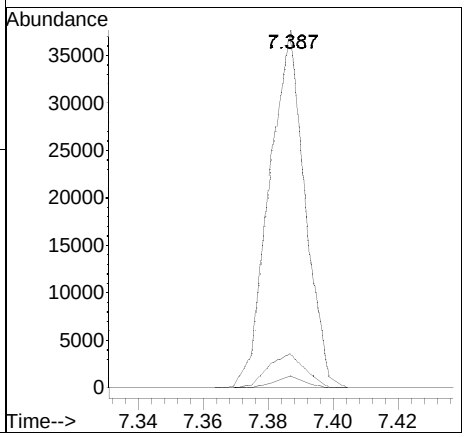


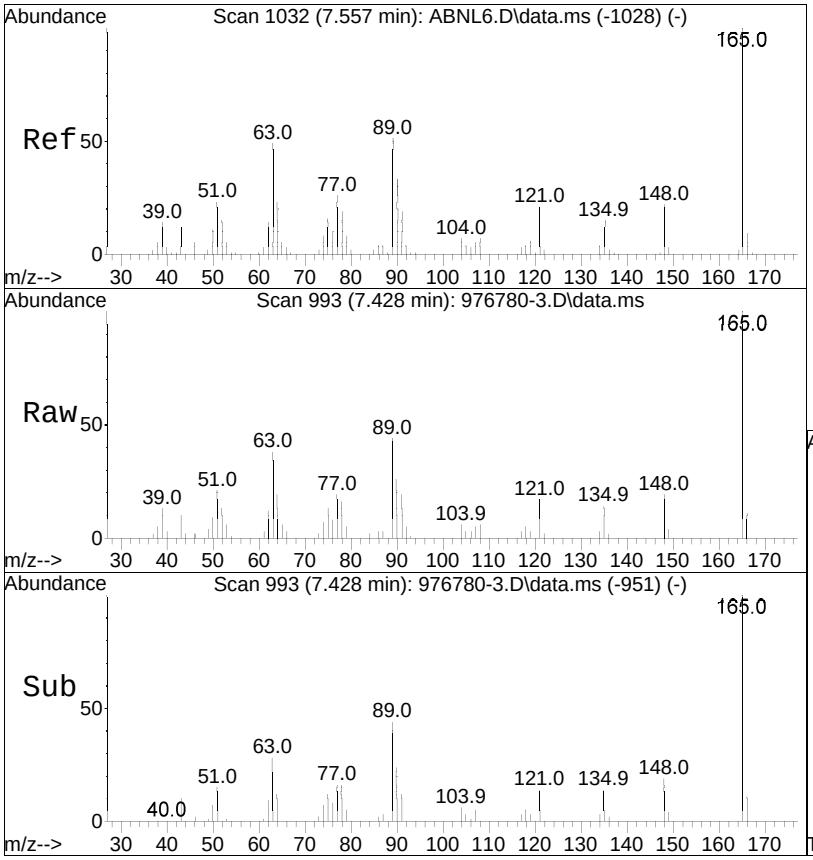


#51
Dimethyl phthalate
Concen: 1.62 ug/ml
RT: 7.387 min Scan# 986
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:163 Resp: 28358

Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.3	3.5
164	10.2	8.2	12.2

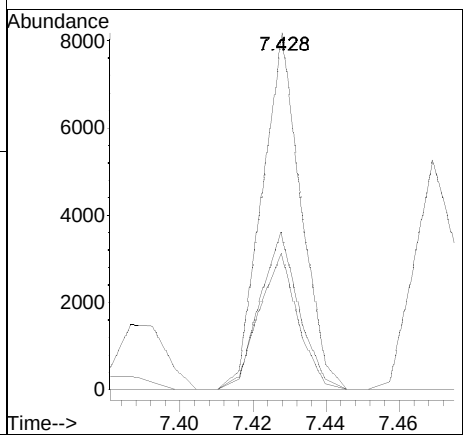


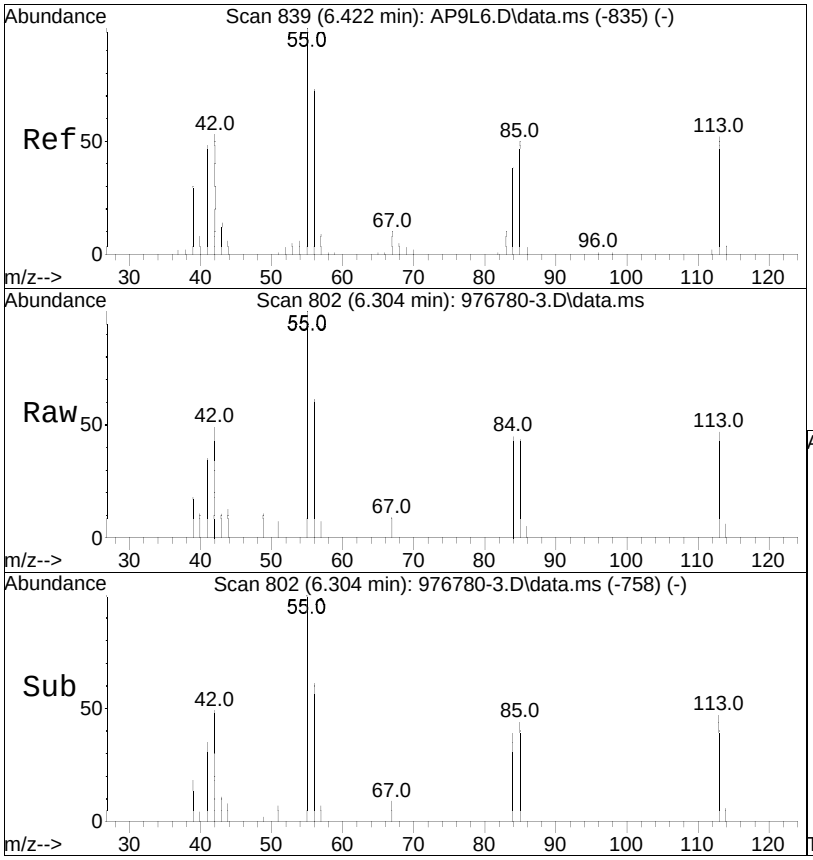


#53
2,6-Dinitrotoluene
Concen: 1.85 ug/ml
RT: 7.428 min Scan# 993
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:165 Resp: 6059

Ion	Ratio	Lower	Upper
165	100		
89	44.2	48.8	73.2#
63	38.4	50.5	75.7#

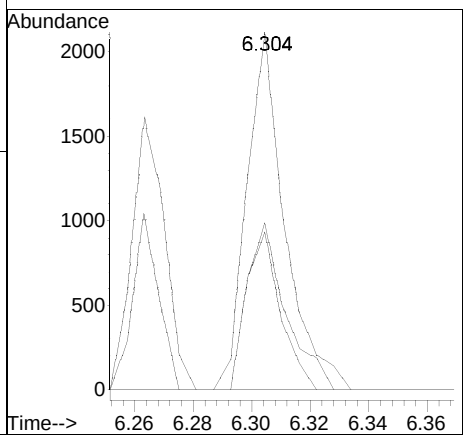


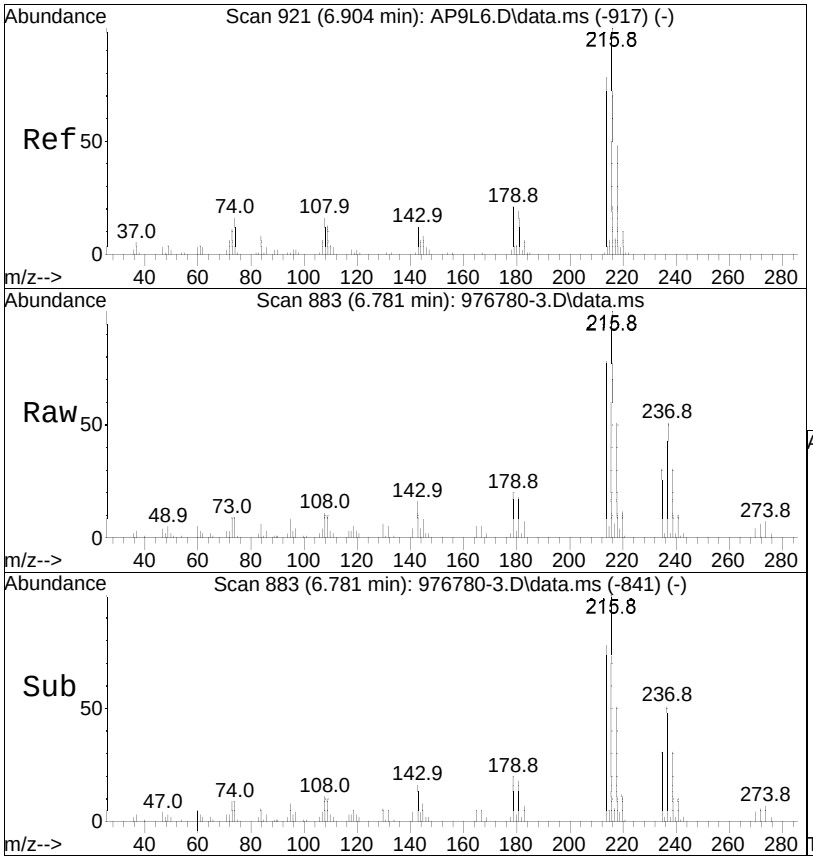


#60
Caprolactam
Concen: 1.02 ug/ml
RT: 6.304 min Scan# 802
Delta R.T. 0.006 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 55 Resp: 1906

Ion	Ratio	Lower	Upper
55	100		
85	39.8	35.2	52.8
113	47.8	36.6	55.0

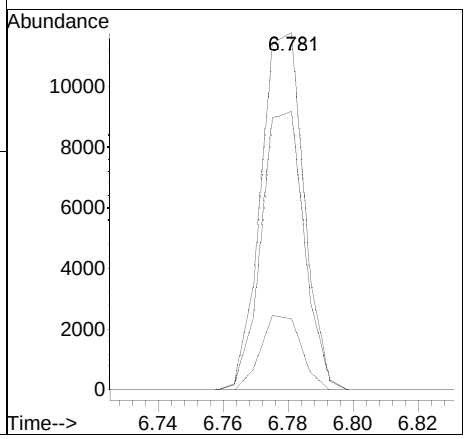


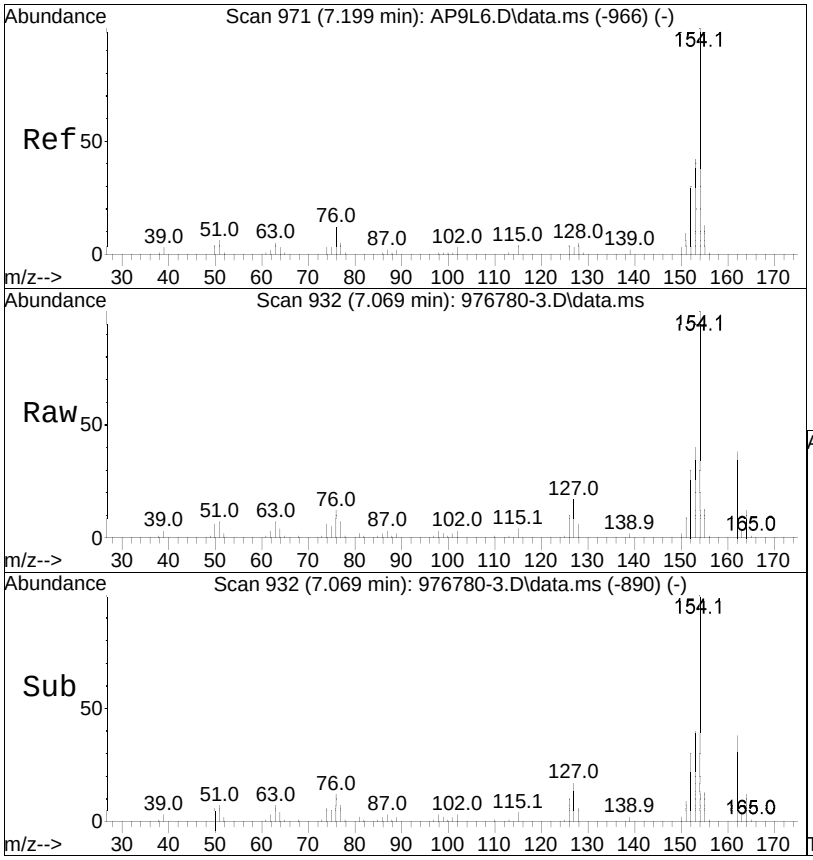


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.19 ug/ml
RT: 6.781 min Scan# 883
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:216 Resp: 10818

Ion	Ratio	Lower	Upper
216	100		
214	77.9	64.0	96.0
179	19.6	18.7	28.1

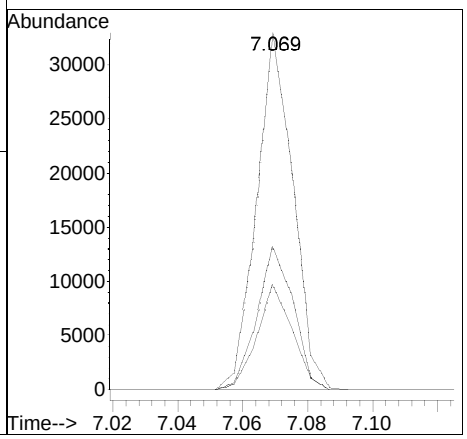


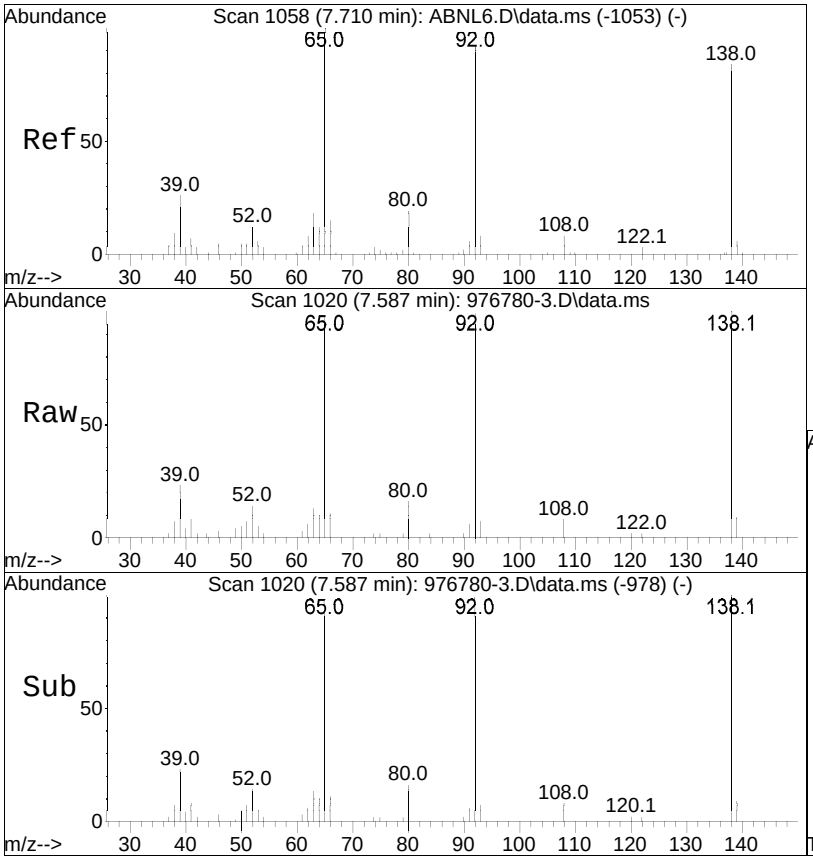


#62
Biphenyl
Concen: 1.30 ug/ml
RT: 7.069 min Scan# 932
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:154 Resp: 25351

Ion	Ratio	Lower	Upper
154	100		
153	40.5	32.5	48.7
152	29.1	22.6	34.0

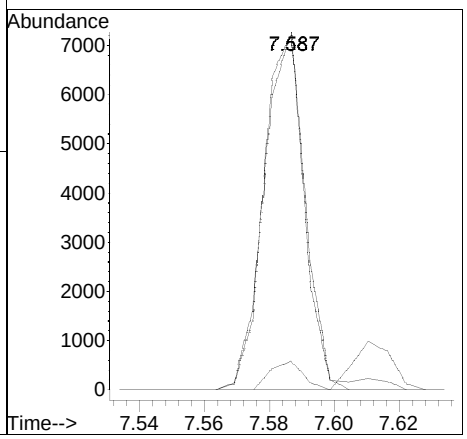


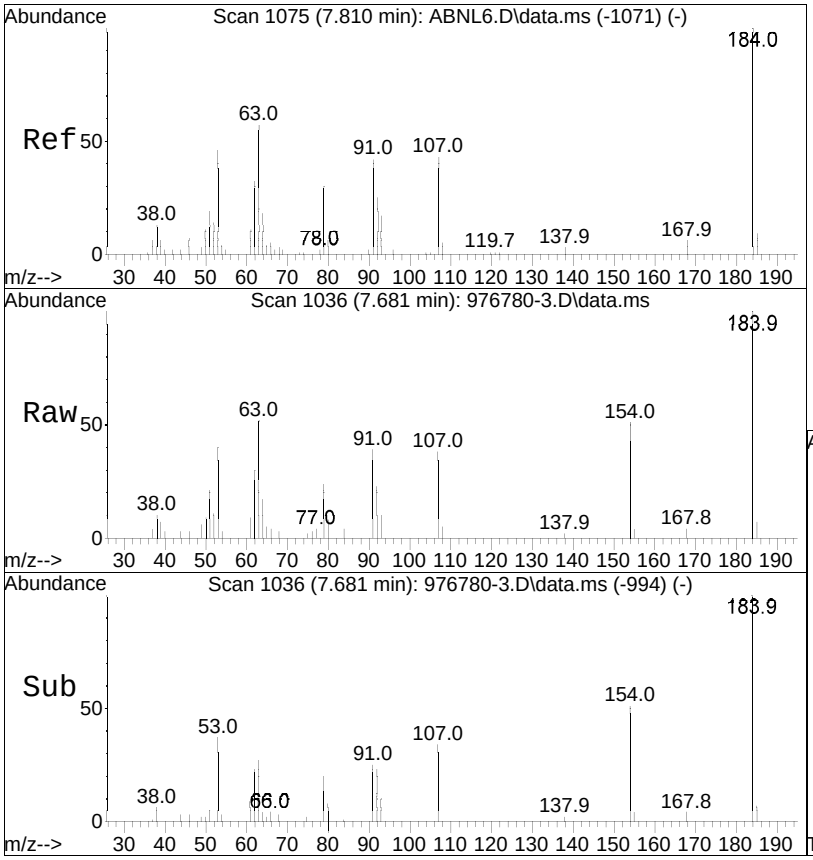


#64
3-Nitroaniline
Concen: 1.67 ug/ml
RT: 7.587 min Scan# 1020
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:138 Resp: 6267

Ion	Ratio	Lower	Upper
138	100		
92	101.2	92.8	139.2
108	13.1	7.9	11.9#

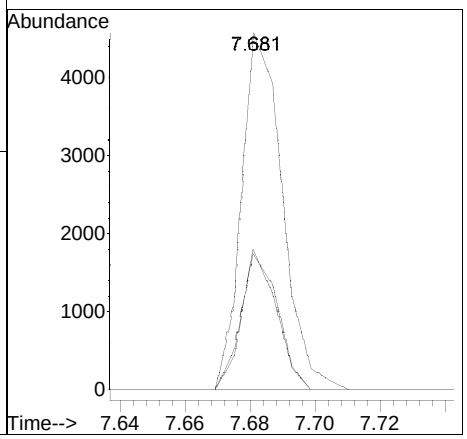


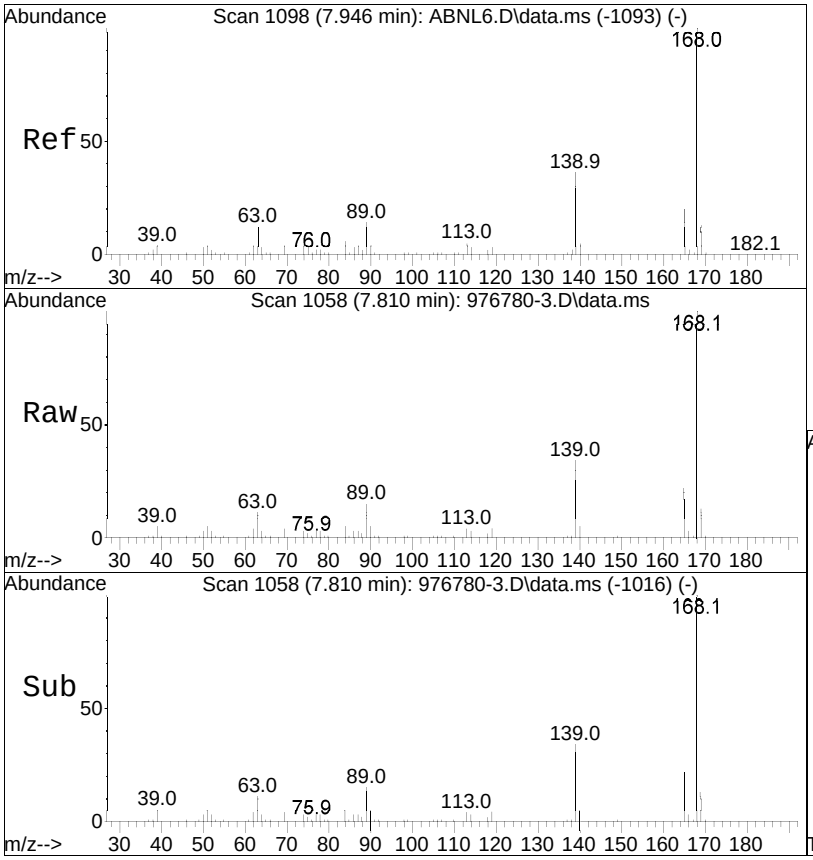


#66
2,4-Dinitrophenol
Concen: 2.20 ug/ml
RT: 7.681 min Scan# 1036
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:184 Resp: 3950

Ion	Ratio	Lower	Upper
184	100		
107	35.1	41.8	62.6#
91	33.7	44.2	66.2#

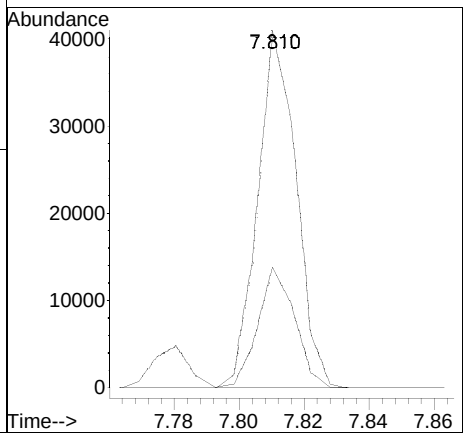


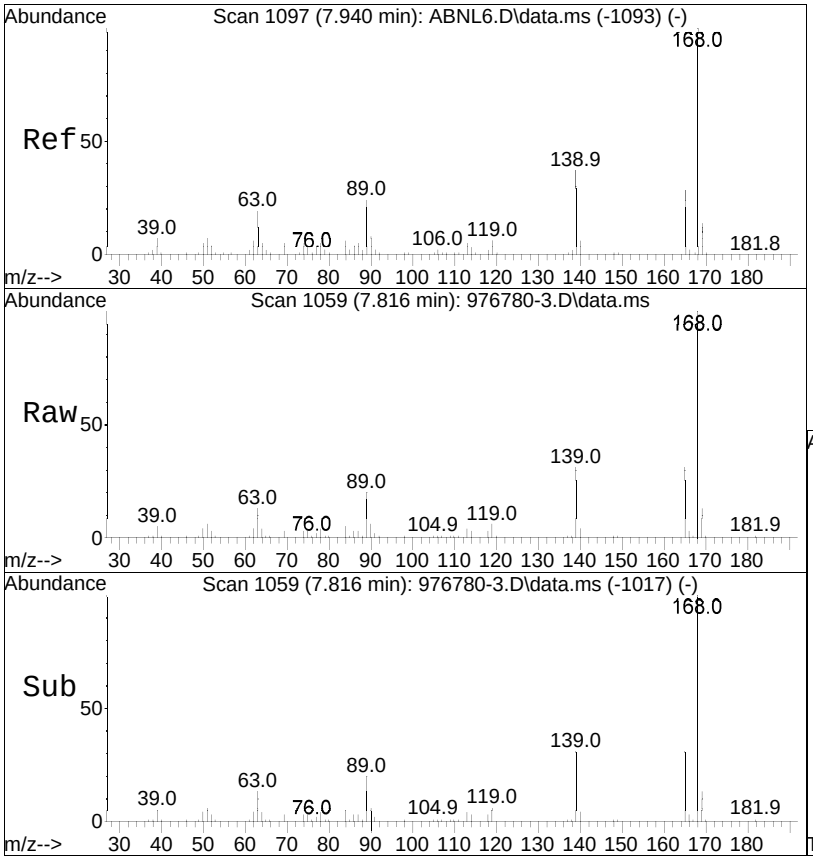


#67
Dibenzofuran
Concen: 1.45 ug/ml
RT: 7.810 min Scan# 1058
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:168 Resp: 33304

Ion	Ratio	Lower	Upper
168	100		
139	32.5	32.3	48.5

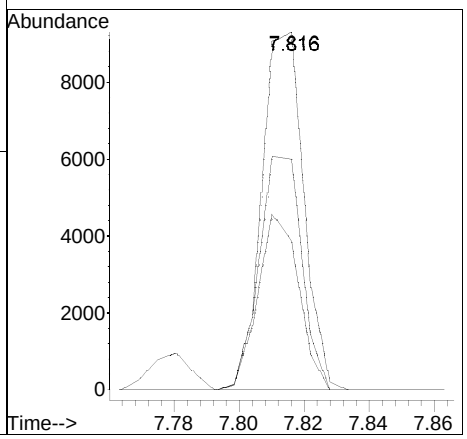


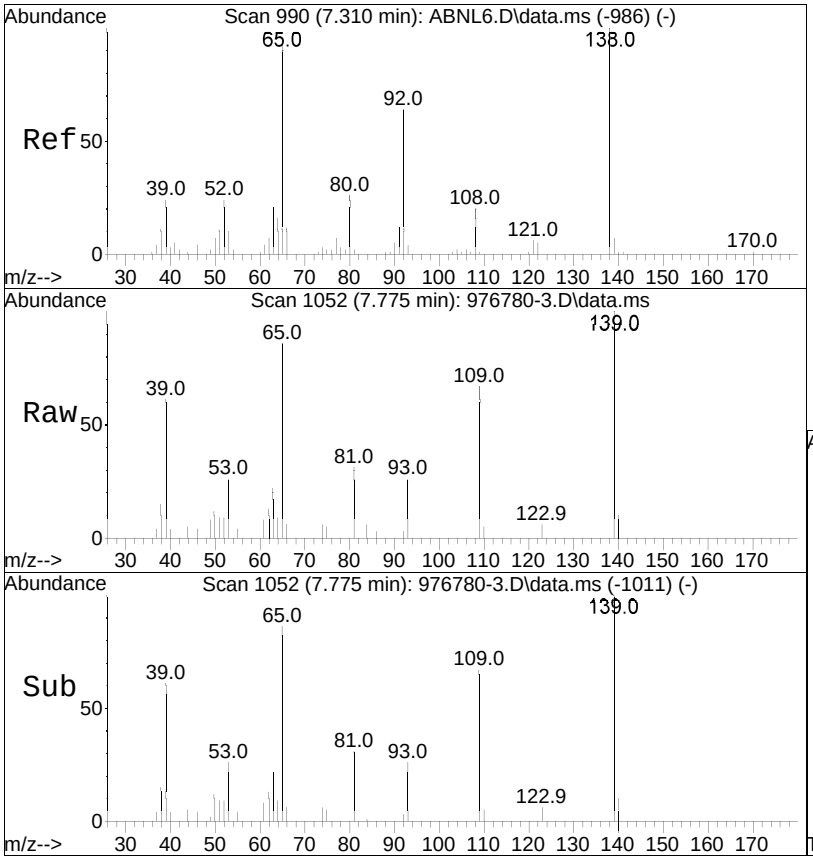


#68
2,4-Dinitrotoluene
Concen: 1.72 ug/ml
RT: 7.816 min Scan# 1059
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:165 Resp: 8236

Ion	Ratio	Lower	Upper
165	100		
89	66.8	73.0	109.4#
63	48.1	56.3	84.5#

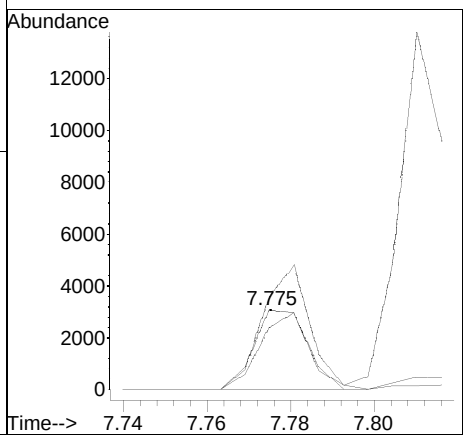


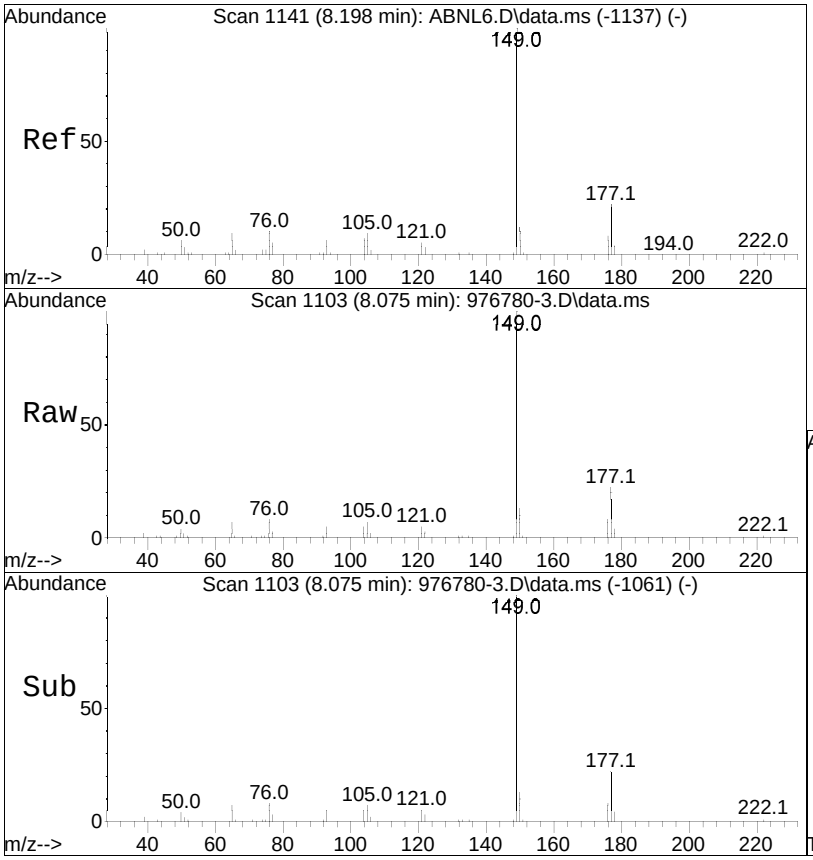


#69
4-Nitrophenol
Concen: 0.76 ug/ml
RT: 7.775 min Scan# 1052
Delta R.T. -0.006 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion: 65 Resp: 2742

Ion	Ratio	Lower	Upper
65	100		
109	88.0	60.2	90.2
139	137.2	81.1	121.7#

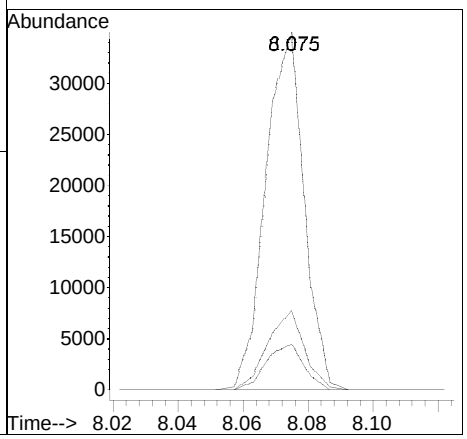


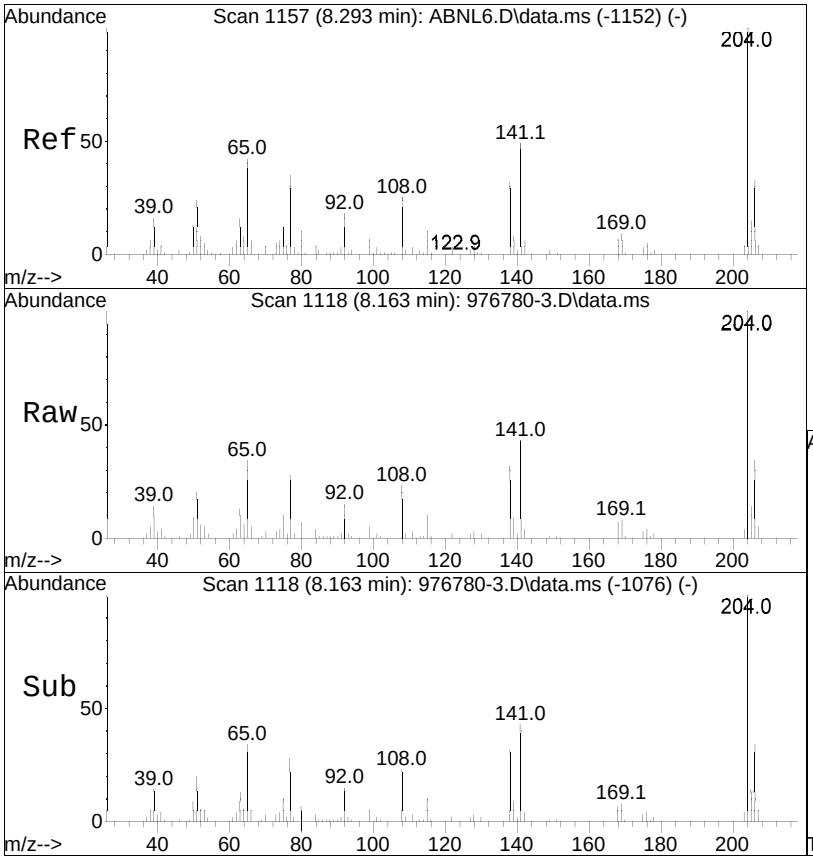


#72
Diethyl phthalate
Concen: 1.52 ug/ml
RT: 8.075 min Scan# 1103
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:149 Resp: 28333

Ion	Ratio	Lower	Upper
149	100		
177	21.4	15.0	22.6
150	12.7	9.8	14.6

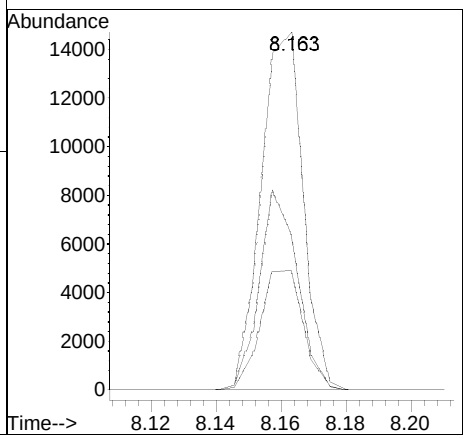


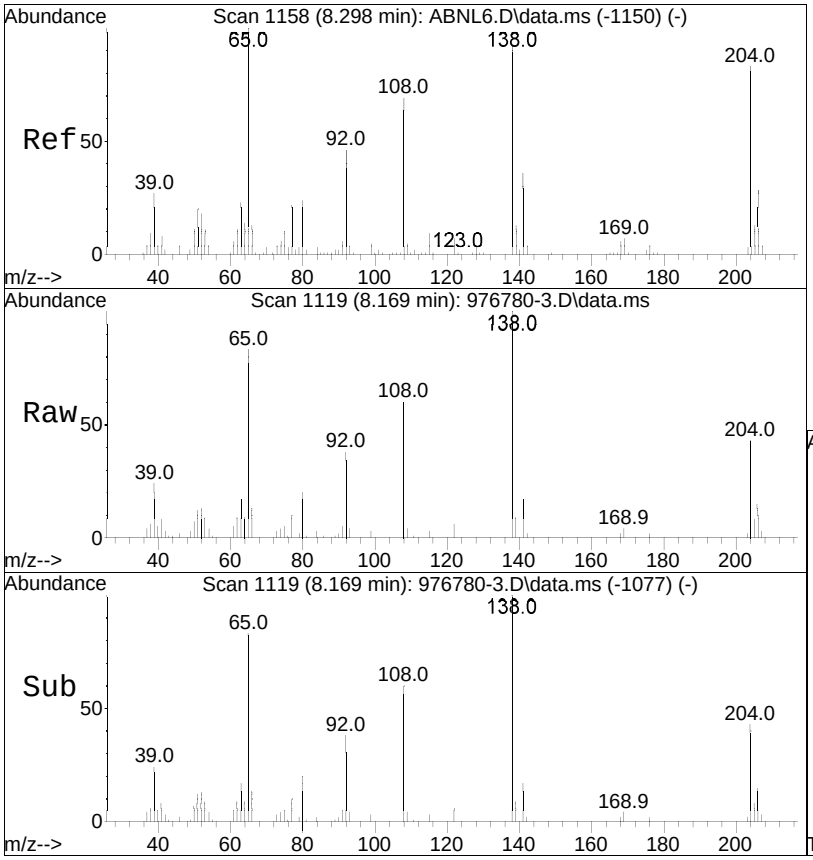


#74
4-Chlorophenyl phenyl ether
Concen: 1.34 ug/ml
RT: 8.163 min Scan# 1118
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:204 Resp: 13121

Ion	Ratio	Lower	Upper
204	100		
206	34.6	26.3	39.5
141	50.7	58.4	87.6#

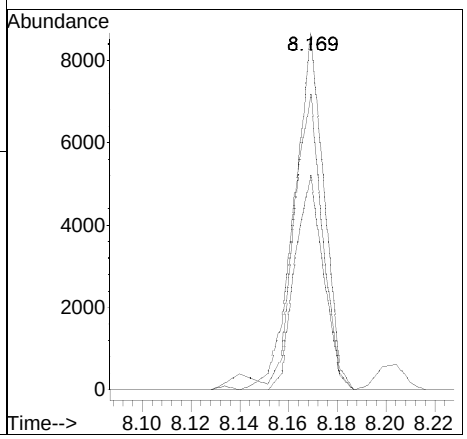


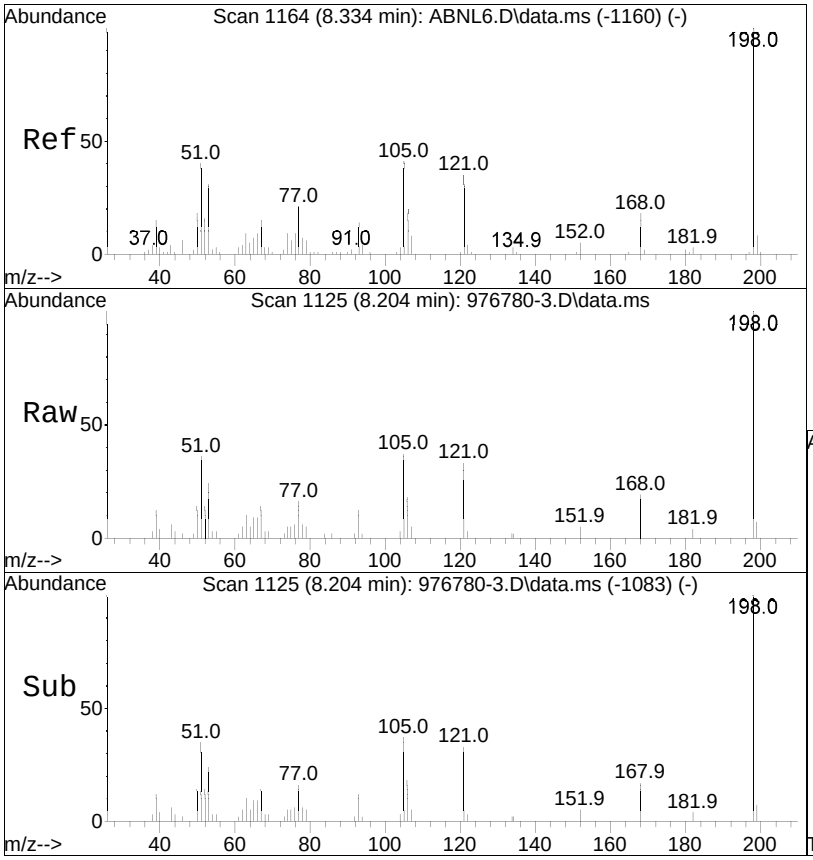


#75
4-Nitroaniline
Concen: 1.81 ug/ml
RT: 8.169 min Scan# 1119
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:138 Resp: 7137

Ion	Ratio	Lower	Upper
138	100		
108	59.2	59.2	88.8#
65	88.3	97.6	146.4#

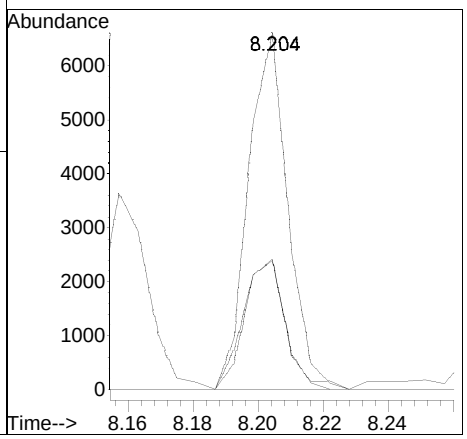


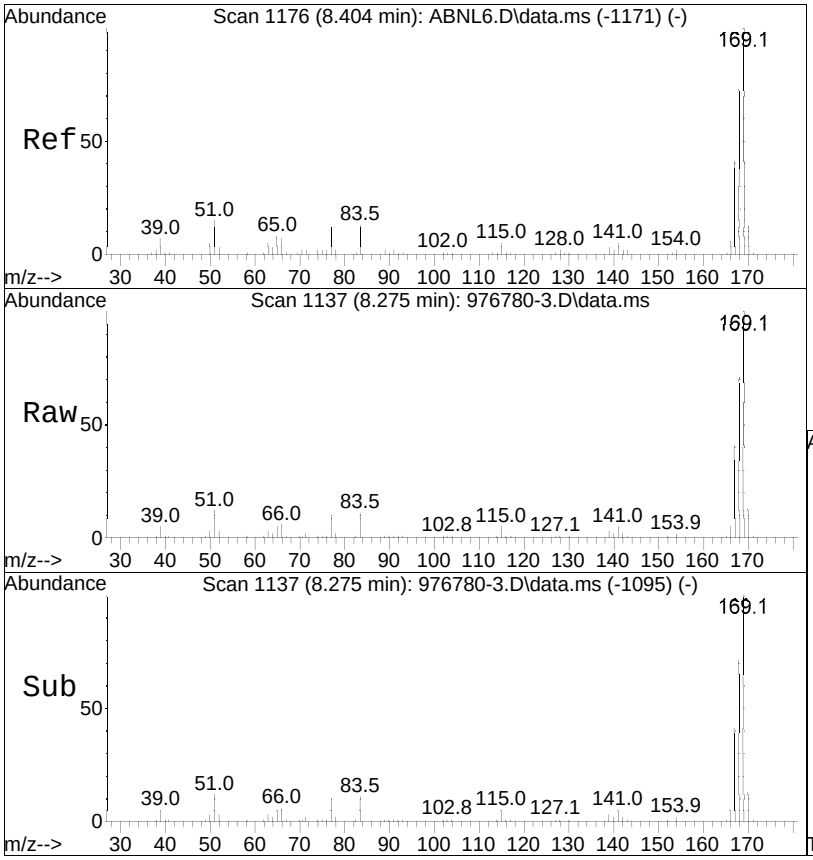


#76
4,6-Dinitro-o-cresol
Concen: 1.95 ug/ml
RT: 8.204 min Scan# 1125
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:198 Resp: 5550

Ion	Ratio	Lower	Upper
198	100		
51	39.3	49.9	74.9#
105	37.1	45.8	68.6#

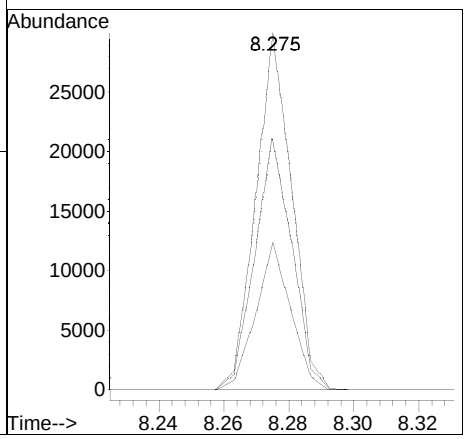


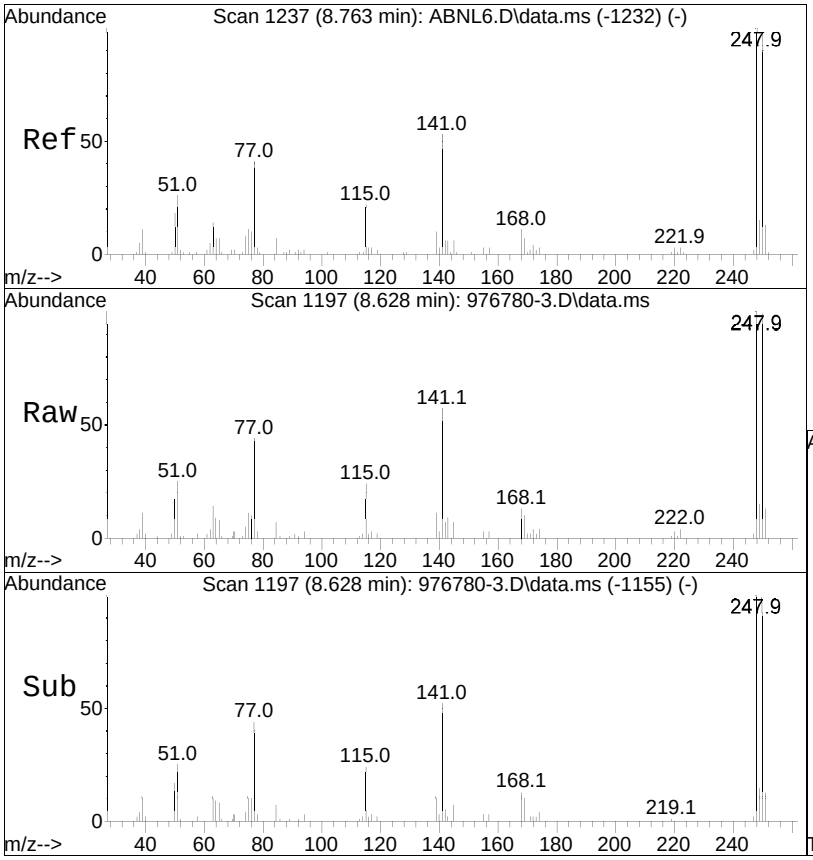


#77
NDPA/DPA
Concen: 1.49 ug/ml
RT: 8.275 min Scan# 1137
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:169 Resp: 22940

Ion	Ratio	Lower	Upper
169	100		
168	72.7	55.2	82.8
167	40.4	30.4	45.6

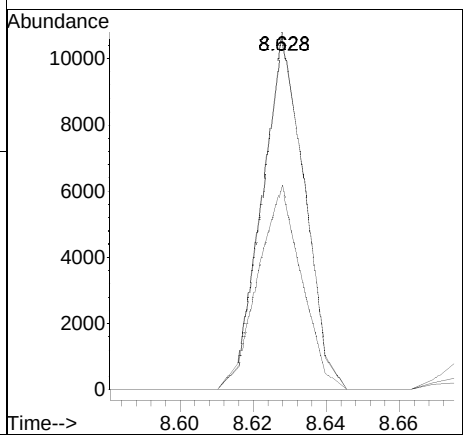


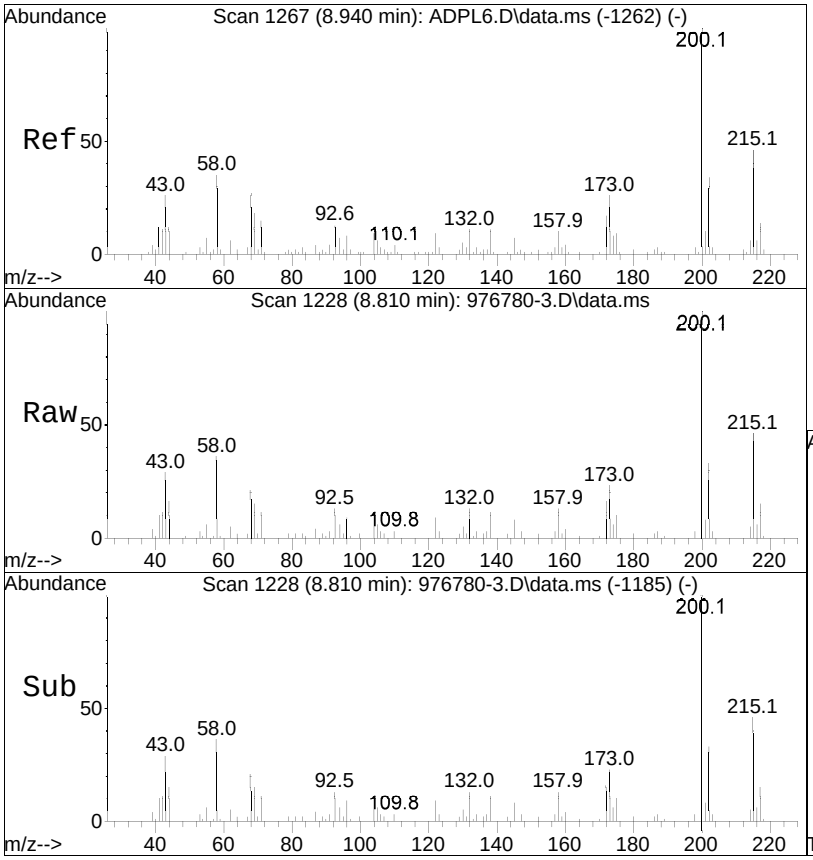


#80
4-Bromophenyl phenyl ether
Concen: 1.38 ug/ml
RT: 8.628 min Scan# 1197
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:248 Resp: 8626

Ion	Ratio	Lower	Upper
248	100		
141	58.6	74.6	111.8#
250	98.5	76.9	115.3

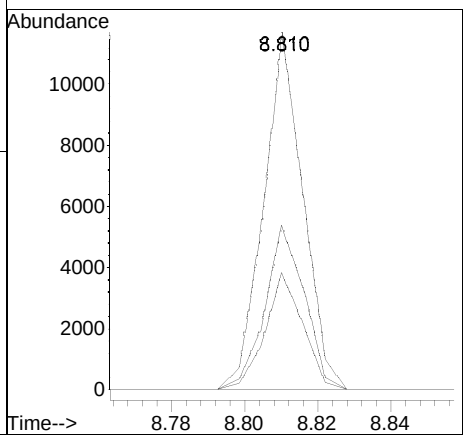


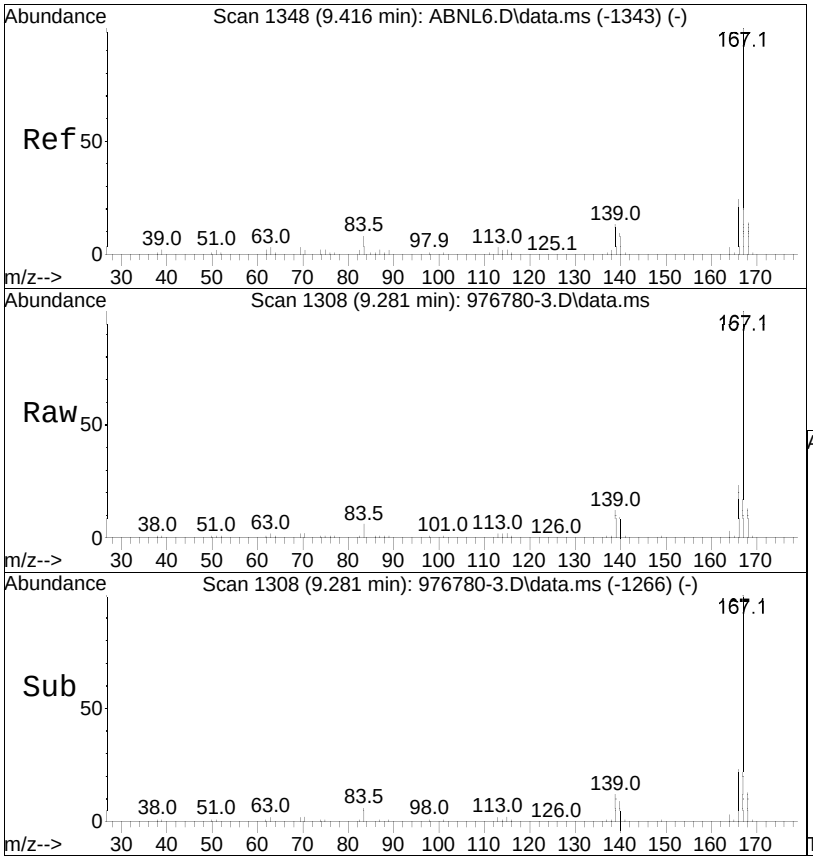


#87
Atrazine
Concen: 1.57 ug/ml
RT: 8.810 min Scan# 1228
Delta R.T. 0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:200 Resp: 8668

Ion	Ratio	Lower	Upper
200	100		
202	31.5	25.0	37.6
215	46.3	34.5	51.7

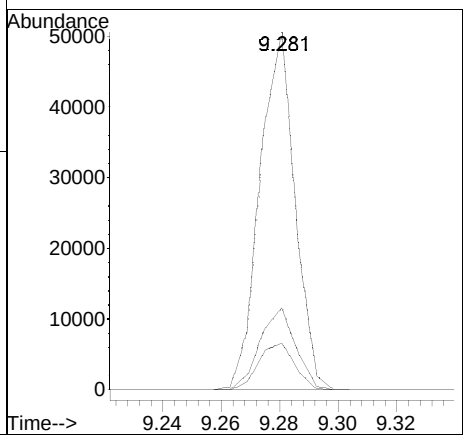


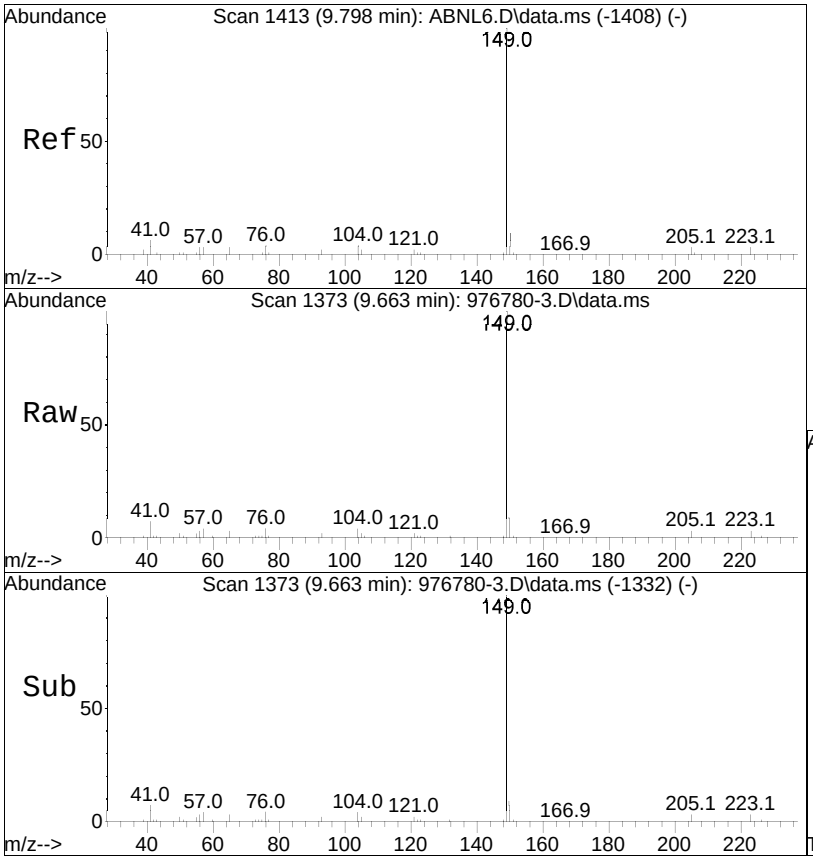


#91
Carbazole
Concen: 1.64 ug/ml
RT: 9.281 min Scan# 1308
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:167 Resp: 41827

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.8	16.2
166	23.6	17.7	26.5

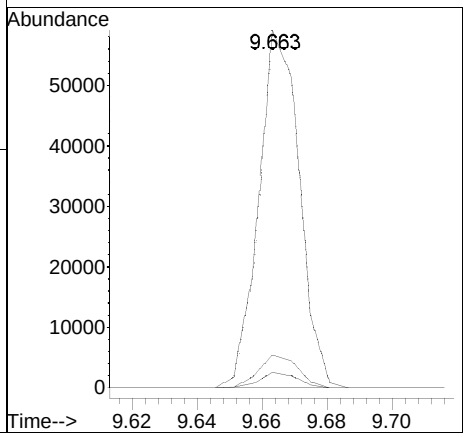


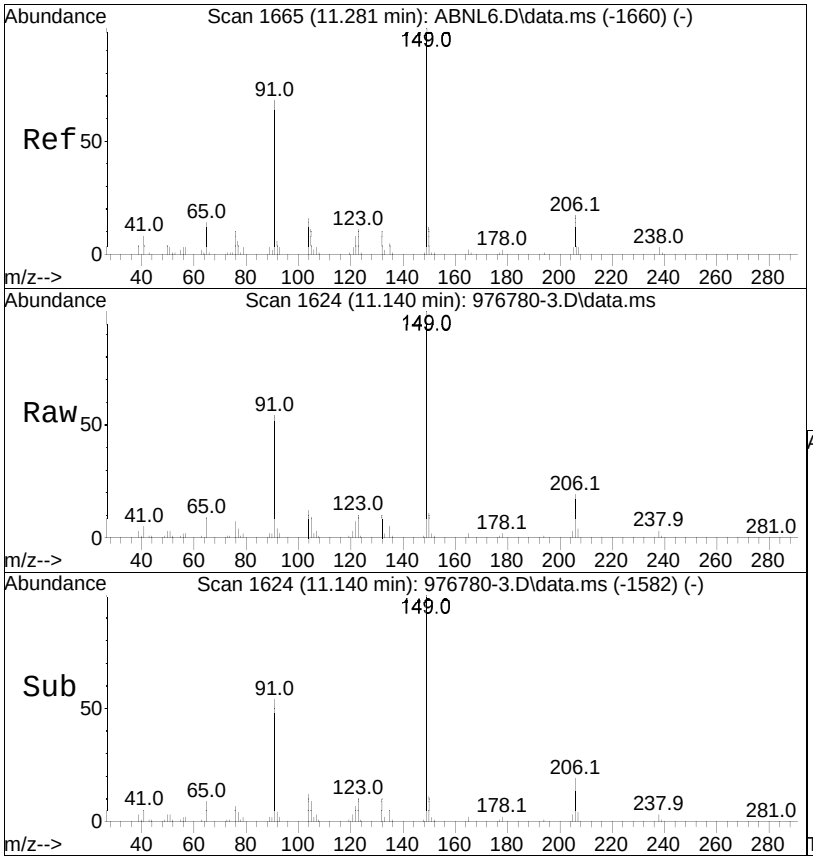


#92
Di-n-butylphthalate
Concen: 1.82 ug/ml
RT: 9.663 min Scan# 1373
Delta R.T. -0.006 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:149 Resp: 50643

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.3	10.9
104	4.1	4.0	6.0

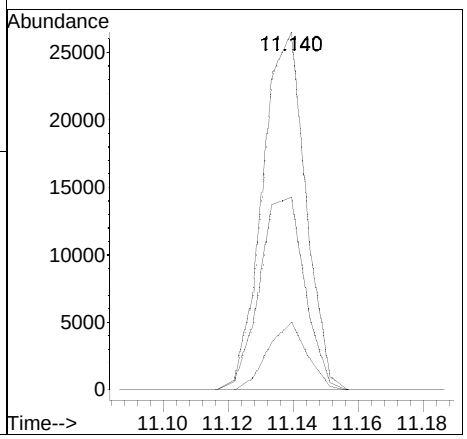


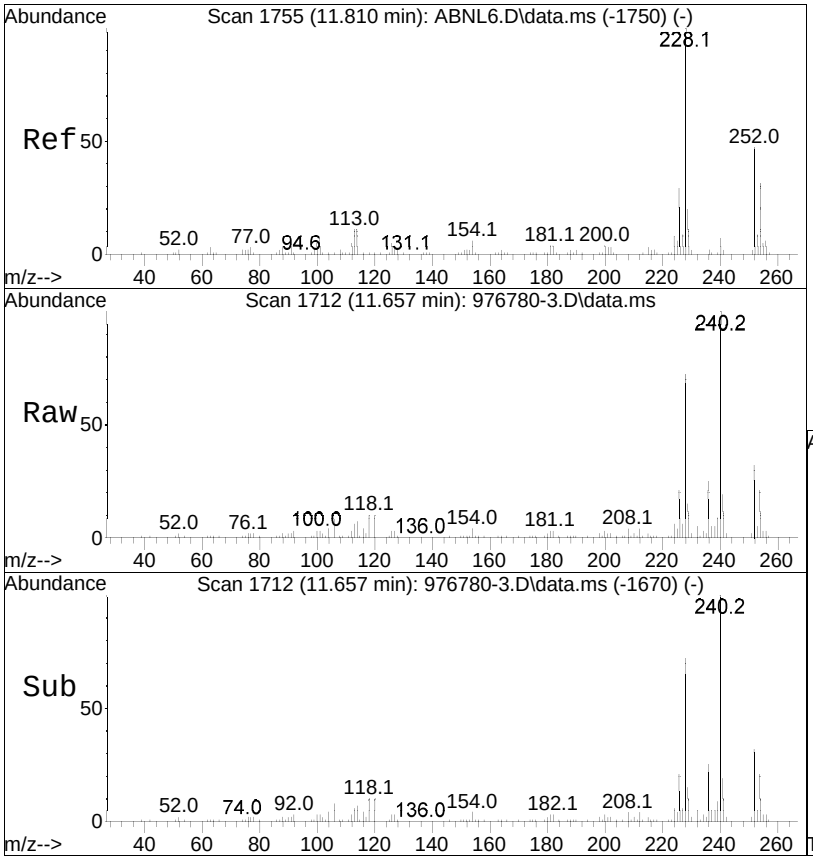


#97
Butyl benzyl phthalate
Concen: 1.97 ug/ml
RT: 11.140 min Scan# 1624
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:149 Resp: 24190

Ion	Ratio	Lower	Upper
149	100		
91	56.8	57.9	86.9#
206	17.4	11.9	17.9

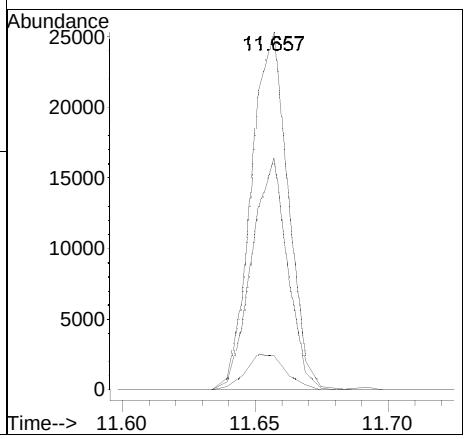


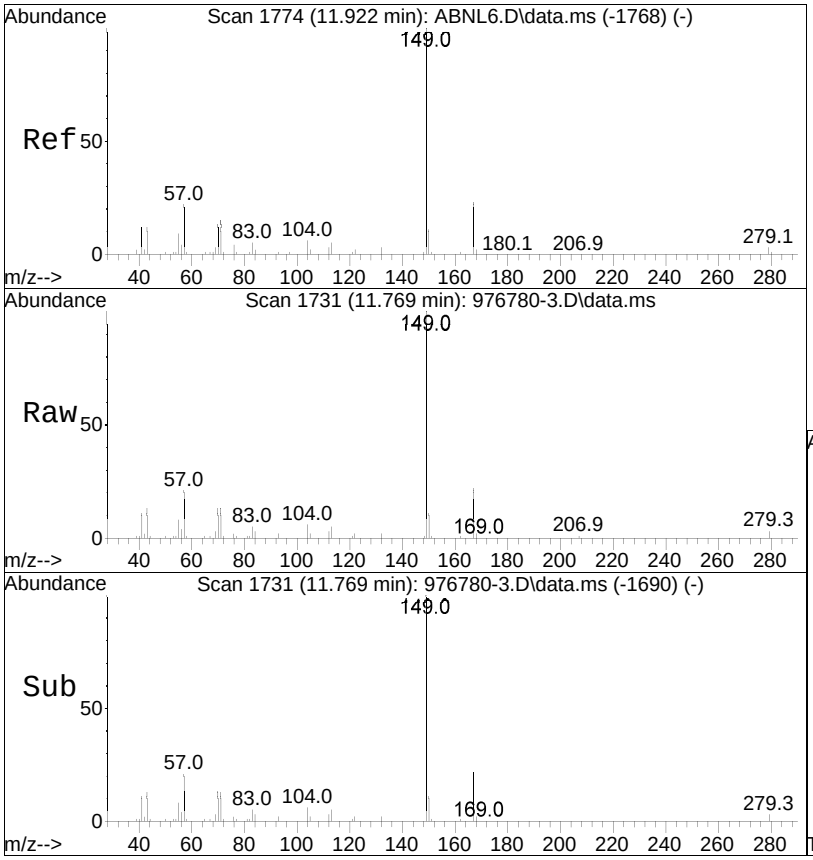


#106
3,3'-Dichlorobenzidine
Concen: 1.63 ug/ml
RT: 11.657 min Scan# 1712
Delta R.T. -0.000 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:252 Resp: 24205

Ion	Ratio	Lower	Upper
252	100		
126	11.0	12.6	19.0#
254	63.1	51.1	76.7

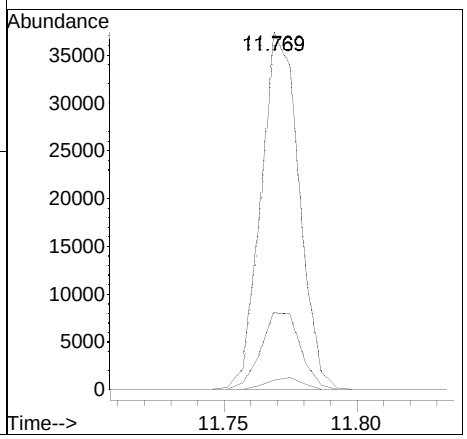


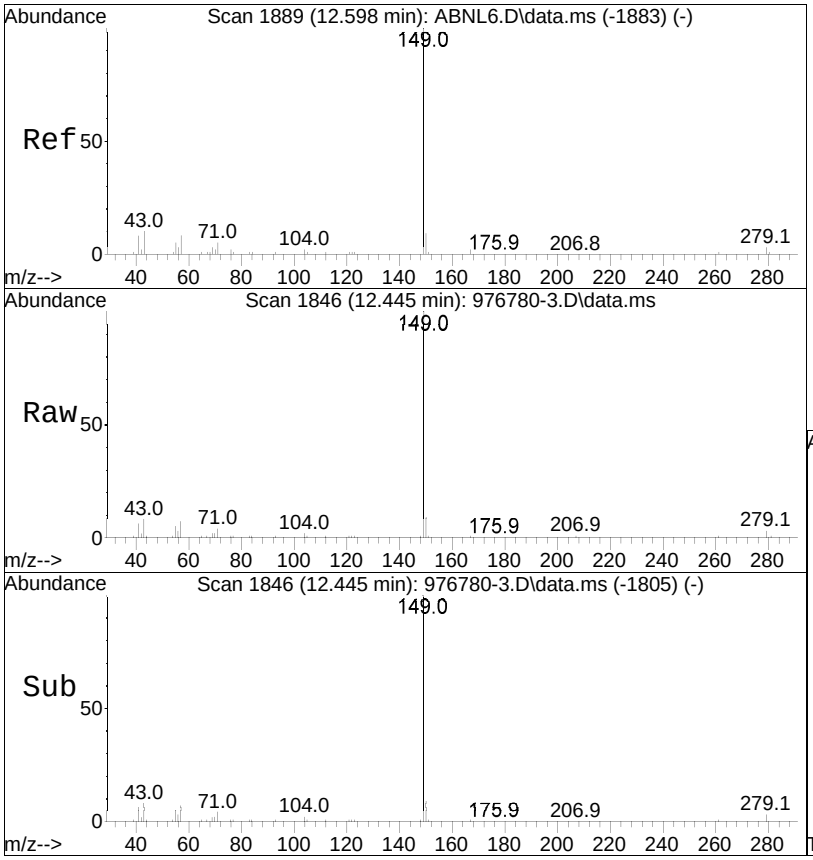


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.82 ug/ml
RT: 11.769 min Scan# 1731
Delta R.T. -0.006 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:149 Resp: 36811

Ion	Ratio	Lower	Upper
149	100		
167	22.5	18.4	27.6
279	2.9	1.7	2.5#

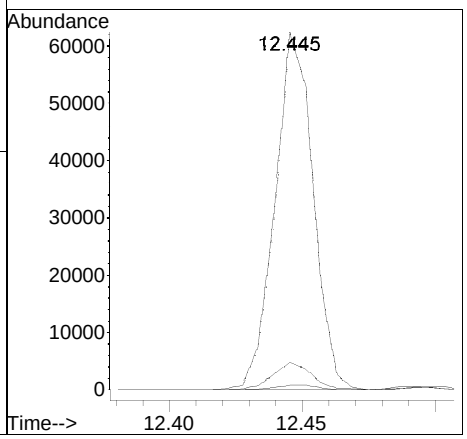




#109
Di-n-octylphthalate
Concen: 1.99 ug/ml
RT: 12.445 min Scan# 1846
Delta R.T. -0.006 min
Lab File: 976780-3.D
Acq: 27 Sep 2024 01:14 pm

Tgt Ion:149 Resp: 61530

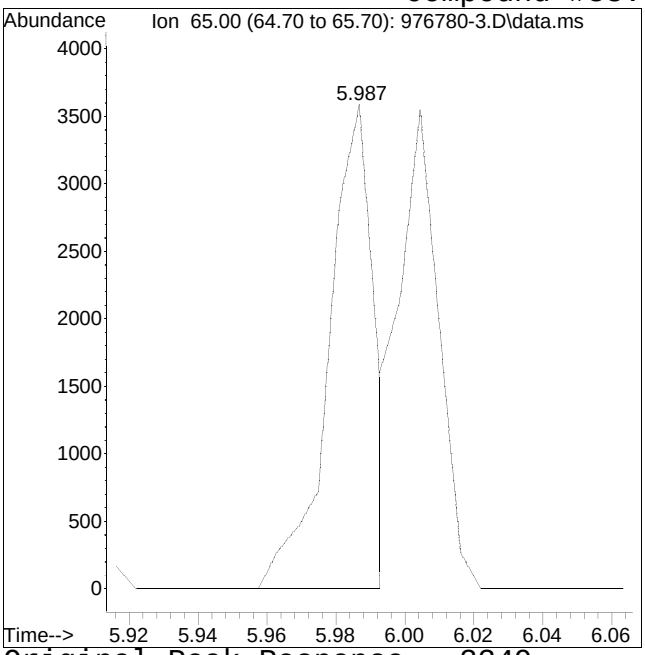
Ion	Ratio	Lower	Upper
149	100		
43	7.9	8.2	12.2#
167	1.4	1.1	1.7



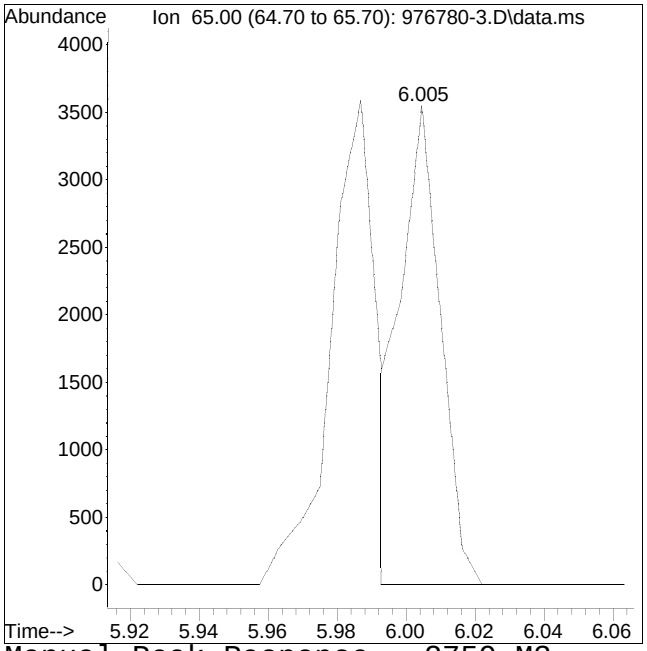
Manual Integration Report

Data Path	: I:\8270\SV112\240927RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 976780-3.D	Operator	: SV112:im
Date Inj'd	: 9/27/2024 1:14 pm	Instrument	: SV112
Sample	: WG1976780-3,32,,gmr	Quant Date	: 9/27/2024 1:33 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 3349



Manual Peak Response = 2759 M3

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 05:55 am

Work Group: WG1976780 for Department: 2 Organic Preparation

Created: 26-SEP-24 Due: Operator: YDA

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2454059-01	MW-4S	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454059-02	MW-4D2	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454092-01	HA-MW-04	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454092-02	HA-MW-03	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454092-03	DUP01-20240919	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454092-05	FB-20240919	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454402-01	HA-MW-06	C	NYTCL-8270-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454402-02	HA-MW-02	C	NYTCL-8270-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454402-03	HA-MW-01	C	NYTCL-8270-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454402-05	FB-20240920	C	NYTCL-8270-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454675-02	SMP-MW-04	C	NYTCL-8270-RVT	WATER	DONE	U	0930	0930	S0	Amber-A.1
L2454678-01	TMW-04	C	NYTCL-8270-RVT	WATER	DONE	U	0930	0930	S0	Amber-A.1
L2455026-01	MW-19	C	NYTCL-8270-RVT	WATER	DONE	U	1001	0927	1C	Amber-A.1
L2455026-02	FB 2024-09-24	C	NYTCL-8270-RVT	WATER	DONE	U	1001	0927	1C	Amber-A.1
WG1976780-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1976780-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1976780-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1976780-4	Matrix Spike	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1976780-5	Matrix Spike Duplica	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG1976780-3	WG1976780-2
WG1976780-4	L2454092-01
WG1976780-5	L2454092-01

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV107\240602ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/2/2024 7:09 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 106	WG1929644,,ical	6/2/2024 7:34 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 106	WG1929644,,ical	6/2/2024 7:59 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 106	WG1929644,,ical	6/2/2024 8:24 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1069	WG1929644,,ical	6/2/2024 8:50 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1929644,,ical	6/2/2024 9:15 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1069	WG1929644,,ical	6/2/2024 9:40 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1929644,,ical	6/2/2024 10:05 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1929644,,ical	6/2/2024 10:30 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1929644,,ical	6/2/2024 10:56 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1929644,,ical	6/2/2024 11:21 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1929644,,ical	6/2/2024 11:47 pm
13	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1929644,,ical	6/3/2024 12:12 am
14	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1070	WG1929644,,ical	6/3/2024 12:37 am
15	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1929644,,ical	6/3/2024 1:08 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1070	WG1929644,,ical	6/3/2024 1:33 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1929644,,ical	6/3/2024 1:58 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1929644,,ical	6/3/2024 2:23 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1929644,,ical	6/3/2024 2:49 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1929644,,ical	6/3/2024 3:14 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1929644,,ical	6/3/2024 3:39 am
22	Tune2.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/3/2024 4:04 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1929644,,ical	6/3/2024 4:29 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1929644,,ical	6/3/2024 4:54 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1929644,,ical	6/3/2024 5:19 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1071	WG1929644,,ical	6/3/2024 5:45 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1929644,,ical	6/3/2024 6:10 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1071	WG1929644,,ical	6/3/2024 6:35 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1929644,,ical	6/3/2024 7:00 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1929644,,ical	6/3/2024 7:25 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1929644,,ical	6/3/2024 7:50 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1929644,,ical	6/3/2024 8:15 am
33	InstBlnk.D	8270RVT.M	Instrument Blank	wg,,ical	6/3/2024 8:40 am

Printed: 06/04/24 Page: 1

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV112\240625RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune Lot#10853	WG1939943	6/25/2024 7:55 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 107	WG1939943	6/25/2024 8:18 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 107	WG1939943	6/25/2024 8:41 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 107	WG1939943	6/25/2024 9:04 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1078	WG1939943	6/25/2024 9:27 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1939943	6/25/2024 9:50 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1078	WG1939943	6/25/2024 10:14 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1939943	6/25/2024 10:37 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1939943	6/25/2024 11:00 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1939943	6/25/2024 11:23 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1939943	6/25/2024 11:47 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1939943	6/26/2024 12:10 am
13	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1079	WG1939943	6/26/2024 12:56 am
14	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1939943	6/26/2024 12:33 am
15	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1939943	6/26/2024 1:19 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1079	WG1939943	6/26/2024 1:43 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1939943	6/26/2024 2:06 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1939943	6/26/2024 2:29 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1939943	6/26/2024 2:52 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1939943	6/26/2024 3:16 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1939943	6/26/2024 3:39 am
22	Tune2.D	8270RVT.M	Tune Lot#10853	WG1939943	6/26/2024 4:02 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1939943	6/26/2024 4:25 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1939943	6/26/2024 4:48 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1939943	6/26/2024 5:11 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1079	WG1939943	6/26/2024 5:35 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1939943	6/26/2024 5:58 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1080	WG1939943	6/26/2024 6:21 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1939943	6/26/2024 6:44 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1939943	6/26/2024 7:08 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1939943	6/26/2024 7:31 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1939943	6/26/2024 7:54 am
33	Blank.D	8270RVT.M	Instrument Blank	WG1939943	6/26/2024 8:18 am

WG1963430

Dep.: GCMS
Inst: SV112
Date: **09/27/24**
Run:

Method
GC: 8270RVT

Seq: **WG1977240**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	DEG0927	wg-1,32,,SV112 Degdftpp Lot # 11038				im 9/27
142	ABN0927	wg-3,32,,ABN 10908 HNY0924A	**Passes Full List**			im 9/27
143	AP90927	wg-4,32,,AP9 10909 HNY0924A				im 9/27
144	ADP0927	wg-5,32,,ADP 10751 HNY0924A				im 9/27
1	976780-1	WG1976780-1,32,,gmr				im 9/27
2	976780-2	WG1976780-2,32,,gmr				im 9/27
3	976780-3	WG1976780-3,32,,gmr				im 9/27
4	976925-1	WG1976925-1,32,,gmr				im 9/27
5	976925-2	WG1976925-2,32,,gmr				im 9/27
6	976925-3	WG1976925-3,32,,gmr				im 9/27
7	55026-01	L2455026-01,32,,R1C,gmr				im 9/27
8	55026-02	L2455026-02,32,,R1C,gmr			gr/sv-hy	im 9/27
9	54228-01	L2454228-01,32,,gmr				9/27jg
10	54228-02	L2454228-02,32,,gmr				9/27jg
11	54092-01	L2454092-01,32,,gmr			hny	
12	4865-01	L2454865-01d,32,10,jg				9/27jg
13	976780-4	WG1976780-4,32,,gmr			**sv-dv**	
14	976780-5	WG1976780-5,32,,gmr				
15	54092-02	L2454092-02,32,,gmr				
16	54092-03	L2454092-03,32,,gmr				
17	54092-05	L2454092-05,32,,gmr				
18	54442-01	L2454442-01,32,,gmr				
19	54442-02	L2454442-02,32,,gmr				
20	54442-03	L2454442-03,32,,gmr				
21	54442-04	L2454442-04,32,,gmr				
22	54442-05	L2454442-05,32,,gmr				
23	54442-06	L2454442-06,32,,gmr			jg	

Dep.: GCMS
Inst: SV107
Date: **09/27/24**
Run: Night Run

Method
GC: 8270RVT

Seq: **WG1977425**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
141	DEG0927n	wg-1,32,,Degdftpp Lot # 11038				09/28 gmr
142	ABN0927n	wg-3,32,,ABN RVT CCV Lot # 10	**Passes Full List**			09/28 gmr
143	AP90927n	wg-4,32,,AP9 RVT CCV Lot #10909				09/28 gmr
144	ADP0927n	wg-5,32,,ADP RVT CCV Lot #10751				09/28 gmr
1	977115-1	WG1977115/144-1,32,,ASK				9/28jg
2	977115-2	WG1977115/144-2,32,,ASK				9/28jg
3	977115-3	WG1977115/144-3,32,,ASK				9/28jg
4	976782-1	WG1976782-1,32,,ASK				09/28 gmr
5	976782-2	WG1976782-2,32,,ASK				09/28 gmr
6	976782-3	WG1976782-3,32,,ASK				09/28 gmr
7	54352-01	L2454352-01,32,,ASK				9/28jg
8	54431-01	L2454431-01,32,,ASK		cmm		9/28jg
9	54431-02	L2454431-02,32,,ASK	RX, surr <10			cmm 9/28
10	54431-03	L2454431-03,32,,ASK				9/28jg
11	54075-02	L2454075-02,32,,RE,ASK	rv, orig needed	jg		
12	54075-04	L2454075-04,32,,RE,ASK	rv, orig needed	jg		
13	54075-05	L2454075-05,32,,RE,ASK	rv, orig needed	jg		
14	55850-01	L2455850-01,32,,R1A,ASK	RX, surr<10			cmm 9/28
15	55855-01	L2455855-01,32,,R1A,ASK				cmm 9/28
16	55855-02	L2455855-02,32,,R1A,ASK				cmm 9/28
17	54059-01	L2454059-01,32,,ASK		cmm		9/28jg
18	54059-02	L2454059-02,32,,ASK				9/28jg
19	54075-03	L2454075-03,32,,ASK	rx, <10%	jg		
20	54402-01	L2454402-01,32,,ASK				9/28jg
21	54402-02	L2454402-02,32,,ASK				9/28jg
22	54402-03	L2454402-03,32,,ASK				9/28jg
23	54402-05	L2454402-05,32,,ASK				9/28jg
24	54278-01	L2454278-01,32,,ASK	rx, <10%	jg		
25	54289-12	L2454289-12,32,,ASK			**ASK**	9/28jg
					sv-gmr	

ORGANIC ELN REPORT

Workgroup: WG1976780

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: ABN **Lot #:** 11001-AY(03/11/2025)
Spike Type: ABN **Lot #:** 10948-AF(02/03/2025), 10949-A
Spike Verify by: YDA
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A091124
Na2SO4	241169
NaOH	10NNaOH082824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ089

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2454059-01 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454059-02 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454075-02 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454075-03 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454075-04 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454075-05 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454092-01 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K

Reported: 30-SEP-24 05:55 AM

ORGANIC ELN REPORT

Workgroup: WG1976780

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2454092-02 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454092-03 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454092-05 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454402-01 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454402-02 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454402-03 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454402-05 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454675-01 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454675-02 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454675-03 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K

ORGANIC ELN REPORT

Workgroup: WG1976780

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2454678-01 WATER	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2455026-01 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2455026-02 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 01:45	Shaylee Amidon	1	K
WG1976780-1 BLANK	09/26/24 15:06 **WG1976781**	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
WG1976780-2 LCS	09/26/24 15:06	Yaw Adu	100	<2,>12	.1	.1	09/27/24 00:53	Shaylee Amidon	1	K
WG1976780-3 LCSD	09/26/24 15:06	Yaw Adu	100	<2,>12	.1	.1	09/27/24 00:53	Shaylee Amidon	1	K
WG1976780-4 MS	09/26/24 15:06	Yaw Adu	100	<2,>12	.1	.1	09/27/24 00:53	Shaylee Amidon	1	K
WG1976780-5 MSD	09/26/24 15:06	Yaw Adu	100	<2,>12	.1	.1	09/27/24 00:53	Shaylee Amidon	1	K

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2454059
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-4S (L2454059-01)	13*	16	77	69	22	78	1
MW-4D2 (L2454059-02)	46	34	76	72	85	81	0
WG1976781-1BLANK	34	41	89	86	53	94	0
WG1976781-2LCS	46	42	86	81	79	87	0
WG1976781-3LCSD	58	45	86	79	95	87	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8270-SIM-RVT

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976781-2 **Analysis Date** : 09/27/24 09:35	**File ID**	: 976781-2
LCSD Sample ID	: WG1976781-3 **Analysis Date** : 09/27/24 09:59	**File ID**	: 976781-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	20	16	83	20	16	82	1	40-140	40
2-Chloronaphthalene	20	16	79	20	16	78	1	40-140	40
Fluoranthene	20	18	90	20	18	90	0	40-140	40
Hexachlorobutadiene	20	13	64	20	12	63	2	40-140	40
Naphthalene	20	15	74	20	15	74	0	40-140	40
Benzo(a)anthracene	20	19	95	20	20	98	3	40-140	40
Benzo(a)pyrene	20	20	101	20	20	103	2	40-140	40
Benzo(b)fluoranthene	20	20	101	20	21	104	3	40-140	40
Benzo(k)fluoranthene	20	19	96	20	19	97	1	40-140	40
Chrysene	20	19	95	20	19	96	1	40-140	40
Acenaphthylene	20	17	85	20	17	84	1	40-140	40
Anthracene	20	18	91	20	18	92	1	40-140	40
Benzo(ghi)perylene	20	19	95	20	19	97	2	40-140	40
Fluorene	20	17	87	20	17	86	1	40-140	40
Phenanthrene	20	17	87	20	18	88	1	40-140	40
Dibenzo(a,h)anthracene	20	20	101	20	20	103	2	40-140	40
Indeno(1,2,3-cd)pyrene	20	21	105	20	21	107	2	40-140	40
Pyrene	20	18	89	20	18	88	1	40-140	40
2-Methylnaphthalene	20	16	80	20	16	78	3	40-140	40
Pentachlorophenol	20	12	63	20	20	100	45 Q	40-140	40
Hexachlorobenzene	20	17	86	20	18	88	2	40-140	40
Hexachloroethane	20	13	64	20	13	63	2	40-140	40
Bis(2-chloroethyl)ether	20	16	79	20	16	81	3	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976781-1	**Lab File ID**	: 976781-1
Instrument ID	: SV120	**Extraction Date**	: 09/26/24
Matrix	: WATER	**Analysis Date**	: 09/27/24 09:19
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1976781-2LCS	WG1976781-2	09/27/24 09:35
WG1976781-3LCSD	WG1976781-3	09/27/24 09:59
MW-4S	L2454059-01	09/27/24 10:48
MW-4D2	L2454059-02	09/27/24 11:05

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/25/24 00:30
Tune Standard	: R1880281-12	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	48.9
68	Less than 2.0% of mass 69	0.8 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.3 (.9)1
127	10.0 - 80.0% of Base Peak	50.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6
275	10.0 - 60.0% of Base Peak	24.5
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17.2
442	Base Peak, or >50% of mass 198	77.8
443	15.0 - 24.0% of mass 442	15.5 (20)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1880281-2	IL10	09/25/24 00:46
IL9	R1880281-10	IL9	09/25/24 01:03
IL8	R1880281-9	IL8	09/25/24 01:19
IL7	R1880281-7	IL7	09/25/24 01:35
IL6	R1880281-8	IL6	09/25/24 01:52
IL5	R1880281-6	IL5	09/25/24 02:11
IL4	R1880281-5	IL4	09/25/24 02:29
IL3	R1880281-4	IL3	09/25/24 02:45
IL2	R1880281-3	IL2	09/25/24 03:02
IL1	R1880281-1	IL1	09/25/24 03:18
ICV Quant Report	R1880281-11	ICV	09/25/24 03:35

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/27/24 07:50
Tune Standard	: WG1977136-1	**Tune File ID**	: deg0927_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.8
68	Less than 2.0% of mass 69	0.7 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	24.2
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	18.2
442	Base Peak, or >50% of mass 198	71.2
443	15.0 - 24.0% of mass 442	15.1 (21.2)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1977136-4TFACTOR-B	WG1977136-4	DEG0927	09/27/24 07:50
WG1977136-5TFACTOR-P	WG1977136-5	DEG0927	09/27/24 07:50
WG1977136-3CCAL	WG1977136-3	CCV0927	09/27/24 08:06
WG1976781-1BLANK	WG1976781-1	976781-1	09/27/24 09:19
WG1976781-2LCS	WG1976781-2	976781-2	09/27/24 09:35
WG1976781-3LCSD	WG1976781-3	976781-3	09/27/24 09:59
MW-4S	L2454059-01	54059-01	09/27/24 10:48
MW-4D2	L2454059-02	54059-02	09/27/24 11:05

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/27/24 08:06:00
Sample No	: WG1977136-3	**Lab File ID**	: CCV0927

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1977136-3	396038	2.09	1485677	2.75	844424	3.72
Upper Limit	792076	2.59	2971354	3.25	1688848	4.22
Lower Limit	198019	1.59	742839	2.25	422212	3.22
Sample ID						
WG1976781-1 BLANK	387219	2.08	1420336	2.74	779074	3.71
WG1976781-2 LCS	391052	2.09	1451649	2.74	791882	3.72
WG1976781-3 LCSD	329882	2.08	1234691	2.74	674795	3.71
MW-4S	377711	2.09	1392331	2.75	770154	3.72
MW-4D2	376779	2.10	1393408	2.75	770715	3.72

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/27/24 08:06:00
Sample No	: WG1977136-3	**Lab File ID**	: CCV0927

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1977136-3	1642445	4.55	1466707	6.09	1469555	7.18
Upper Limit	3284890	5.05	2933414	6.59	2939110	7.68
Lower Limit	821223	4.05	733354	5.59	734778	6.68
Sample ID						
WG1976781-1 BLANK	1474185	4.55	1334629	6.17	1227998	7.28
WG1976781-2 LCS	1560871	4.55	1415598	6.09	1401639	7.19
WG1976781-3 LCSD	1292396	4.55	1155410	6.15	1159970	7.26
MW-4S	1471118	4.55	1364192	6.09	1334377	7.19
MW-4D2	1496800	4.56	1300373	6.09	1217581	7.19

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

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

EPA 8270E Low Level PAH (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 10:48
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 54059-01	**Analyst**	: DV
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 10:48
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 54059-01	**Analyst**	: DV
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 11:05
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 54059-02	**Analyst**	: DV
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 11:05
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 54059-02	**Analyst**	: DV
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976781-1	**Date Collected**	: NA
Client ID	: WG1976781-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 09:19
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 976781-1	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	0.14	0.80	0.06	J
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976781-1	**Date Collected**	: NA
Client ID	: WG1976781-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 09:19
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 976781-1	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 54059-01.D
Acq On : 27 Sep 2024 10:48 am
Operator : SV120:dv
Sample : L2454059-01,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 11:56:33 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.092	152	377711	4000.000	ng/ml	0.00
Standard Area 1 = 396038			Recovery = 95.37%			
8) Naphthalene-d8	2.748	136	1392331	4000.000	ng/ml	0.00
Standard Area 1 = 1485677			Recovery = 93.72%			
17) Acenaphthene-d10	3.719	164	770154	4000.000	ng/ml	0.00
Standard Area 1 = 844424			Recovery = 91.20%			
22) Phenanthrene-d10	4.554	188	1471118	4000.000	ng/ml	0.00
Standard Area 1 = 1642445			Recovery = 89.57%			
31) Chrysene-d12	6.089	240	1364192	4000.000	ng/ml	0.00
Standard Area 1 = 1466707			Recovery = 93.01%			
36) Perylene-d12	7.185	264	1334377	4000.000	ng/ml	0.00
Standard Area 1 = 1469555			Recovery = 90.80%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.534	112	26640	255.093	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 12.75%#			
3) Phenol-d6	1.919	99	39862	325.182	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 16.26%			
7) Nitrobenzene-d5	2.373	82	79333	765.616	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 76.56%			
13) 2-Fluorobiphenyl	3.344	172	183448	693.987	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 69.40%			
21) 2,4,6-Tribromophenol	4.164	330	15480	449.370	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 22.47%			
30) 4-Terphenyl-d14	5.473	244	200643	778.759	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 38.94%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D. d		
11) 2-Methylnaphthalene	0.000		0	N.D. d		
14) 2-Chloronaphthalene	0.000		0	N.D. d		
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 54059-01.D
Acq On : 27 Sep 2024 10:48 am
Operator : SV120:dv
Sample : L2454059-01,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 11:56:33 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

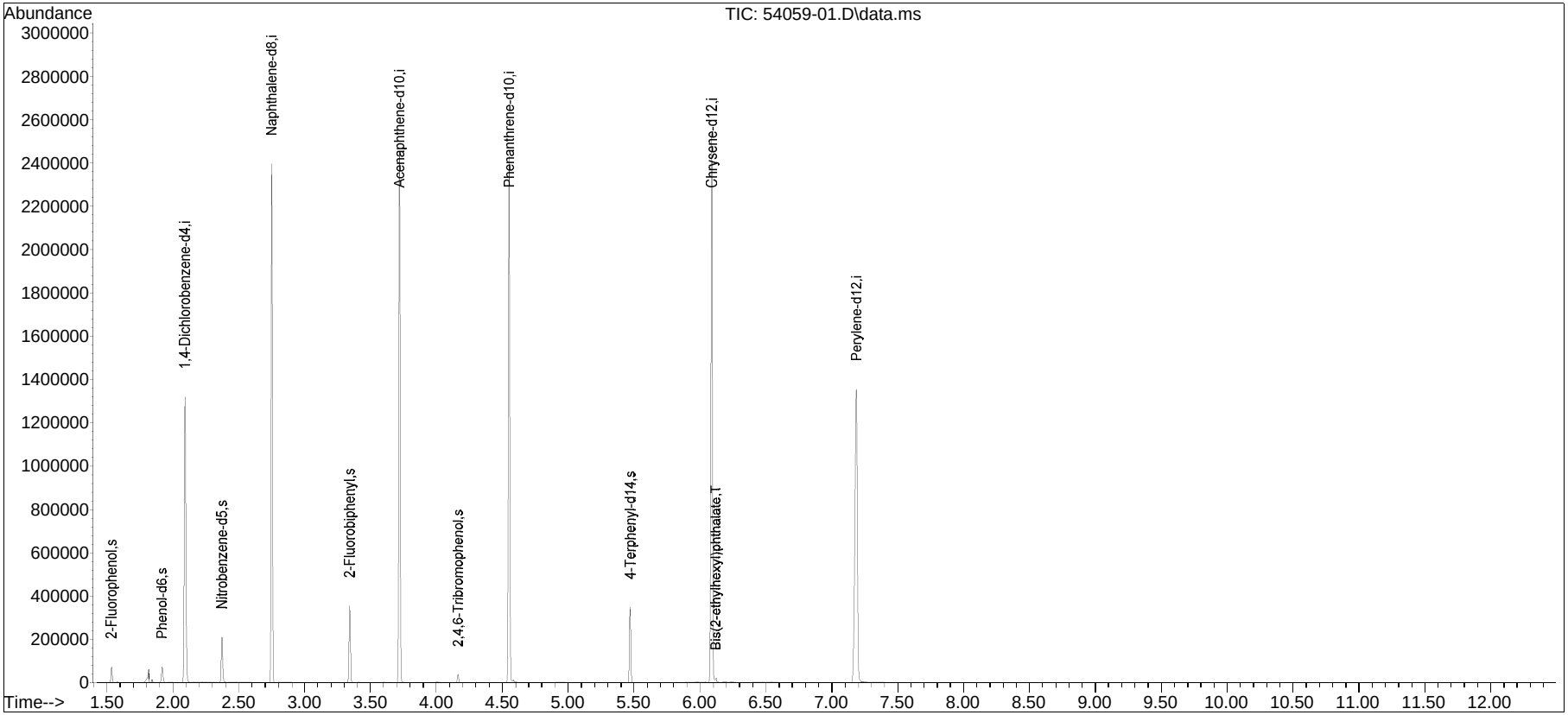
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 54059-01.D
Acq On : 27 Sep 2024 10:48 am
Operator : SV120:dv
Sample : L2454059-01,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 11:56:33 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0927.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240927RVTQ	Method	: SIM-RVT_240925_sv120.M
Data File	: 54059-01.D	Operator	: SV120:dv
Date Inj'd	: 9/27/2024 10:48 am	Instrument	: SV120
Sample	: L2454059-01,32,,kmh	Quant Date	: 9/27/2024 11:01 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 54059-02.D
Acq On : 27 Sep 2024 11:05 am
Operator : SV120:dv
Sample : L2454059-02,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 11:57:50 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	376779	4000.000	ng/ml	0.00
Standard Area 1 = 396038			Recovery = 95.14%			
8) Naphthalene-d8	2.750	136	1393408	4000.000	ng/ml	0.00
Standard Area 1 = 1485677			Recovery = 93.79%			
17) Acenaphthene-d10	3.720	164	770715	4000.000	ng/ml	0.00
Standard Area 1 = 844424			Recovery = 91.27%			
22) Phenanthrene-d10	4.555	188	1496800	4000.000	ng/ml	0.00
Standard Area 1 = 1642445			Recovery = 91.13%			
31) Chrysene-d12	6.089	240	1300373	4000.000	ng/ml	0.00
Standard Area 1 = 1466707			Recovery = 88.66%			
36) Perylene-d12	7.185	264	1217581	4000.000	ng/ml	0.00
Standard Area 1 = 1469555			Recovery = 82.85%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.539	112	96701	928.258	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.41%			
3) Phenol-d6	1.923	99	83358	681.691	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 34.08%			
7) Nitrobenzene-d5	2.373	82	79056	764.829	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 76.48%			
13) 2-Fluorobiphenyl	3.344	172	190193	718.947	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 71.89%			
21) 2,4,6-Tribromophenol	4.165	330	58884	1708.105	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 85.41%			
30) 4-Terphenyl-d14	5.473	244	212985	812.478	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 40.62%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 54059-02.D
Acq On : 27 Sep 2024 11:05 am
Operator : SV120:dv
Sample : L2454059-02,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 11:57:50 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

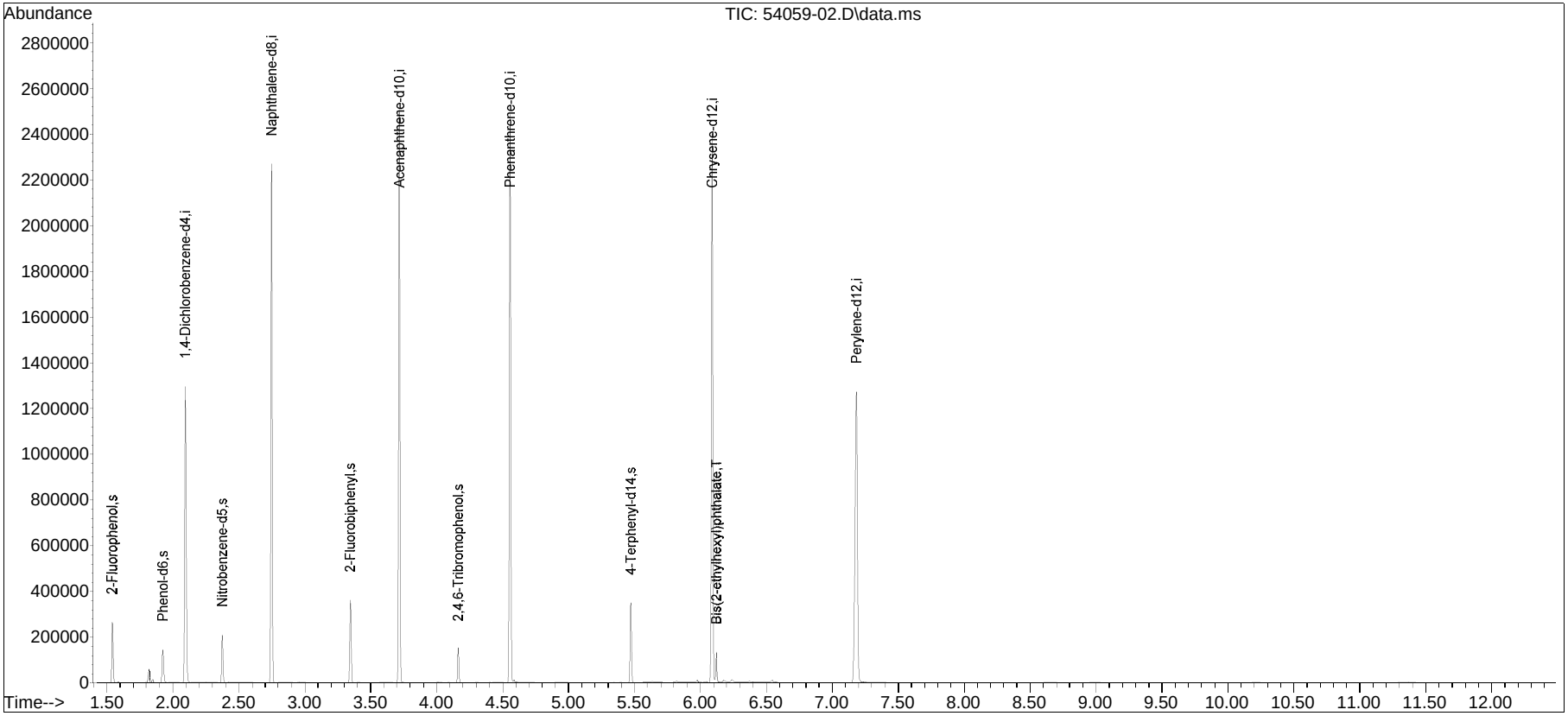
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 54059-02.D
Acq On : 27 Sep 2024 11:05 am
Operator : SV120:dv
Sample : L2454059-02,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 11:57:50 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0927.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240927RVTQ	Method	: SIM-RVT_240925_sv120.M
Data File	: 54059-02.D	Operator	: SV120:dv
Date Inj'd	: 9/27/2024 11:05 am	Instrument	: SV120
Sample	: L2454059-02,32,,kmh	Quant Date	: 9/27/2024 11:18 am

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21522**
Calibration dates	**: 09/25/24 00:46 09/25/24 03:18**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.060	1.092	1.101	1.086	1.088	1.233	1.165	1.104	1.099	1.032	1.106	5.05
3)	s	Phenol-d6	1.150	1.308	1.250	1.243	1.262	1.434	1.346	1.322	1.355	1.312	1.298	5.93
4)	T	bis(2-Chloroethyl)ether			1.144	1.059	1.107	1.429	1.145	1.097	1.103	1.020	1.138	10.94
5)	T	n-Nitrosodi-n-propylamine			0.723	0.729	0.739	0.803	0.777	0.771	0.812	0.805	0.770	4.67
6)	t	Hexachloroethane			0.507	0.498	0.470	0.532	0.495	0.477	0.481	0.457	0.490	4.83
7)	s	Nitrobenzene-d5		0.999	1.012	1.010	1.059	1.202	1.154	1.138	1.166	1.136	1.097	7.06
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.089	1.039	1.031	1.003	0.960	1.065	0.989	0.942	0.948	0.904	0.997	5.94
10)	t	Hexachlorobutadiene		0.194	0.201	0.192	0.190	0.209	0.194	0.184	0.182	0.171	0.191	5.74
11)	t	2-Methylnaphthalene	0.608	0.630	0.602	0.613	0.617	0.692	0.655	0.626	0.628	0.600	0.627	4.46
12)	t	1-Methylnaphthalene	0.636	0.628	0.609	0.598	0.602	0.653	0.605	0.579	0.585	0.556	0.605	4.71
13)	s	2-Fluorobiphenyl	0.708	0.819	0.759	0.769	0.766	0.845	0.775	0.735	0.729	0.688	0.759	6.28
14)	t	2-Chloronaphthalene	0.625	0.667	0.646	0.635	0.647	0.714	0.668	0.646	0.655	0.633	0.654	3.87
15)	t	2,6-Dinitrotoluene					0.124	0.137	0.144	0.151	0.169	0.166	*L	0.9984
16)	t	Acenaphthylene	0.952	0.929	0.896	0.892	0.902	1.003	0.993	0.965	1.004	0.972	0.951	4.61
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.162	1.242	1.227	1.186	1.183	1.309	1.210	1.162	1.165	1.107	1.195	4.62
19)	t	2,4-Dinitrotoluene					0.253	0.304	0.348	0.367	0.404	0.397	*L	0.9989
20)	t	Fluorene	1.308	1.321	1.292	1.287	1.269	1.424	1.358	1.308	1.352	1.283	1.320	3.51
21)	s	2,4,6-Tribromophenol		0.162	0.144	0.156	0.161	0.189	0.195	0.196	0.208	0.201	0.179	12.96
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.060	0.078	0.097	0.104	0.121	0.120	*L	0.9972
24)	t	Hexachlorobenzene	0.247	0.244	0.227	0.228	0.224	0.256	0.232	0.223	0.218	0.200	0.230	6.97
25)	t	Pentachlorophenol				0.064	0.072	0.063	0.095	0.116	0.141		*Q	0.9985
26)	t	Phenanthrene	0.920	1.071	1.031	1.033	1.020	1.108	1.016	0.979	0.982	0.911	1.007	6.09
27)	t	Anthracene	1.065	1.030	0.957	0.918	0.940	1.061	1.006	0.981	0.999	0.924	0.988	5.43
28)	t	Fluoranthene	1.228	1.235	1.129	1.112	1.091	1.200	1.187	1.155	1.208	1.116	1.166	4.48
29)	t	Pyrene	1.384	1.285	1.194	1.176	1.139	1.240	1.266	1.219	1.266	1.163	1.233	5.83
30)	s	4-Terphenyl-d14		0.743	0.691	0.680	0.678	0.737	0.729	0.695	0.712	0.641	0.701	4.72
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	1.335	0.718	0.368	0.234	0.138	0.134	0.124	0.119	0.124	0.117	*L	0.9992
33)	t	3,3'-Dichlorobenzene					0.333	0.402	0.437	0.444	0.486	0.464	0.428	12.65
34)	t	Chrysene	1.056	1.043	0.957	1.082	1.161	1.319	1.239	1.167	1.201	1.110	1.133	9.33
35)	T	bis(2-Ethylhexyl)phthalate					0.473	0.518	0.596	0.643	0.756	0.747	*L	0.9965
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21522**
Calibration dates	**: 09/25/24 00:46 09/25/24 03:18**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.053	1.021	1.031	1.028	1.019	1.193	1.243	1.160	1.186	1.110	1.104	7.69
38) t	Benzo[k]fluoranthene	1.042	1.101	1.045	1.021	1.048	1.142	1.113	1.089	1.157	1.079	1.084	4.18
39) t	Benzo[a]pyrene	0.863	0.883	0.852	0.859	0.861	1.010	1.043	1.006	1.071	1.007	0.946	9.37
40) t	Indeno[1,2,3-cd]pyrene	0.688	0.830	0.810	0.813	0.883	1.049	1.083	1.003	1.086	1.052	0.930	15.26
41) t	Dibenzo[a,h]anthracene	0.749	0.795	0.790	0.810	0.804	0.995	0.993	0.941	0.984	0.924	0.879	11.10
42) t	Benzo[g,h,i]perylene	0.898	0.848	0.854	0.875	0.874	1.061	1.043	0.982	1.032	0.965	0.943	8.83

Response Factor Report SV120

Method Path : I:\8270SIM\sv120\240925RVTical\
Method File : SIM-RVT_240925_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 25 11:34:07 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

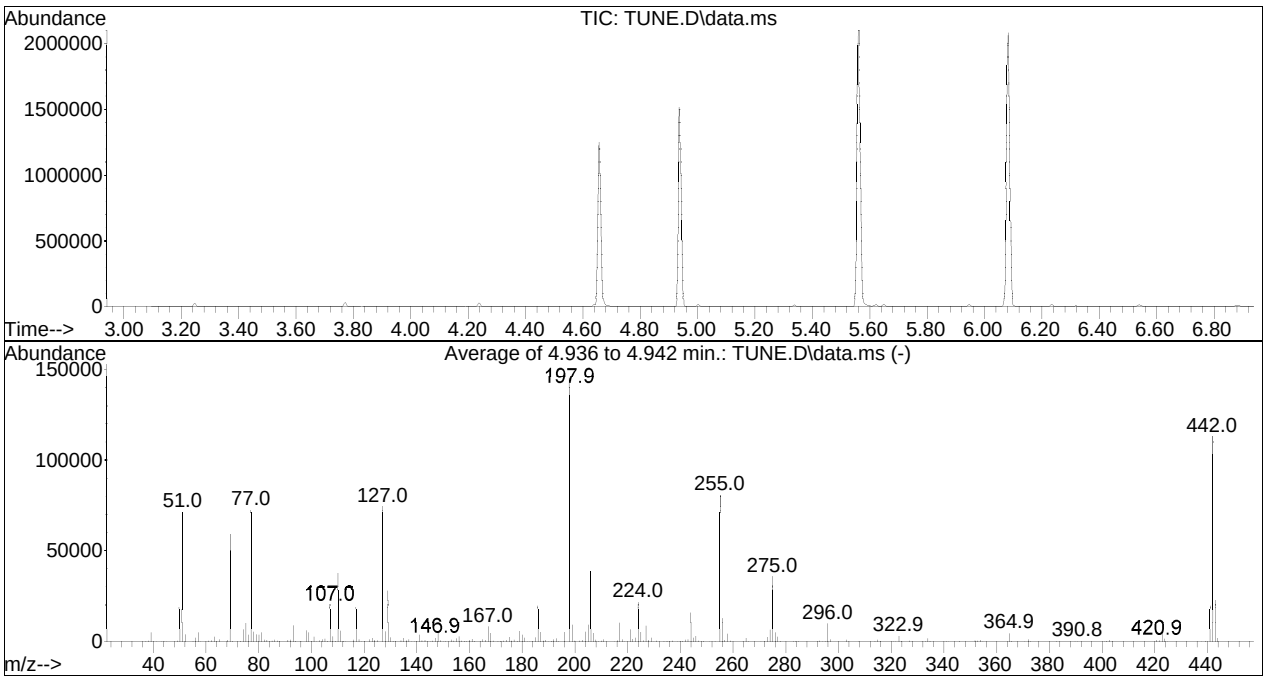
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.060	1.092	1.101	1.086	1.088	1.233	1.165	1.104	1.099	1.032	1.106	5.05
3)	s	Phenol-d6	1.150	1.308	1.250	1.243	1.262	1.434	1.346	1.322	1.355	1.312	1.298	5.93
4)	T	bis(2-Chloroethyl)ether			1.144	1.059	1.107	1.429	1.145	1.097	1.103	1.020	1.138	10.94
5)	T	n-Nitrosodi-n-propylamine			0.723	0.729	0.739	0.803	0.777	0.771	0.812	0.805	0.770	4.67
6)	t	Hexachloroethane			0.507	0.498	0.470	0.532	0.495	0.477	0.481	0.457	0.490	4.83
7)	s	Nitrobenzene-d5		0.999	1.012	1.010	1.059	1.202	1.154	1.138	1.166	1.136	1.097	7.06
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.089	1.039	1.031	1.003	0.960	1.065	0.989	0.942	0.948	0.904	0.997	5.94
10)	t	Hexachlorobutadiene		0.194	0.201	0.192	0.190	0.209	0.194	0.184	0.182	0.171	0.191	5.74
11)	t	2-Methylnaphthalene	0.608	0.630	0.602	0.613	0.617	0.692	0.655	0.626	0.628	0.600	0.627	4.46
12)	t	1-Methylnaphthalene	0.636	0.628	0.609	0.598	0.602	0.653	0.605	0.579	0.585	0.556	0.605	4.71
13)	s	2-Fluorobiphenyl	0.708	0.819	0.759	0.769	0.766	0.845	0.775	0.735	0.729	0.688	0.759	6.28
14)	t	2-Chloronaphthalene	0.625	0.667	0.646	0.635	0.647	0.714	0.668	0.646	0.655	0.633	0.654	3.87
15)	t	2,6-Dinitrotoluene					0.124	0.137	0.144	0.151	0.169	0.166	*L	0.9984
16)	t	Acenaphthylene	0.952	0.929	0.896	0.892	0.902	1.003	0.993	0.965	1.004	0.972	0.951	4.61
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.162	1.242	1.227	1.186	1.183	1.309	1.210	1.162	1.165	1.107	1.195	4.62
19)	t	2,4-Dinitrotoluene					0.253	0.304	0.348	0.367	0.404	0.397	*L	0.9989
20)	t	Fluorene	1.308	1.321	1.292	1.287	1.269	1.424	1.358	1.308	1.352	1.283	1.320	3.51
21)	s	2,4,6-Tribromophenol		0.162	0.144	0.156	0.161	0.189	0.195	0.196	0.208	0.201	0.179	12.96
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.060	0.078	0.097	0.104	0.121	0.120	*L	0.9972
24)	t	Hexachlorobenzene	0.247	0.244	0.227	0.228	0.224	0.256	0.232	0.223	0.218	0.200	0.230	6.97
25)	t	Pentachlorophenol				0.064	0.072	0.063	0.095	0.116	0.141		*Q	0.9985
26)	t	Phenanthrene	0.920	1.071	1.031	1.033	1.020	1.108	1.016	0.979	0.982	0.911	1.007	6.09
27)	t	Anthracene	1.065	1.030	0.957	0.918	0.940	1.061	1.006	0.981	0.999	0.924	0.988	5.43
28)	t	Fluoranthene	1.228	1.235	1.129	1.112	1.091	1.200	1.187	1.155	1.208	1.116	1.166	4.48
29)	t	Pyrene	1.384	1.285	1.194	1.176	1.139	1.240	1.266	1.219	1.266	1.163	1.233	5.83
30)	s	4-Terphenyl-d14		0.743	0.691	0.680	0.678	0.737	0.729	0.695	0.712	0.641	0.701	4.72
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	1.335	0.718	0.368	0.234	0.138	0.134	0.124	0.119	0.124	0.117	*L	0.9992
33)	t	3,3'-Dichlorob...					0.333	0.402	0.437	0.444	0.486	0.464	0.428	12.65
34)	t	Chrysene	1.056	1.043	0.957	1.082	1.161	1.319	1.239	1.167	1.201	1.110	1.133	9.33
35)	T	bis(2-Ethylhexyl)phthalate					0.473	0.518	0.596	0.643	0.756	0.747	*L	0.9965
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.053	1.021	1.031	1.028	1.019	1.193	1.243	1.160	1.186	1.110	1.104	7.69
38)	t	Benzo[k]fluora...	1.042	1.101	1.045	1.021	1.048	1.142	1.113	1.089	1.157	1.079	1.084	4.18
39)	t	Benzo[a]pyrene	0.863	0.883	0.852	0.859	0.861	1.010	1.043	1.006	1.071	1.007	0.946	9.37
40)	t	Indeno[1,2,3-c...	0.688	0.830	0.810	0.813	0.883	1.049	1.083	1.003	1.086	1.052	0.930	15.26
41)	t	Dibenzo[a,h]anthracene	0.749	0.795	0.790	0.810	0.804	0.995	0.993	0.941	0.984	0.924	0.879	11.10
42)	t	Benzo[g,h,i]pe...	0.898	0.848	0.854	0.875	0.874	1.061	1.043	0.982	1.032	0.965	0.943	8.83

(#) = Out of Range

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : TUNE.D
Acq On : 25 Sep 2024 12:30 am
Operator : SV120:mrg
Sample : TUNE Lot#11037
Misc : WG1976347
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 25 11:34:07 2024



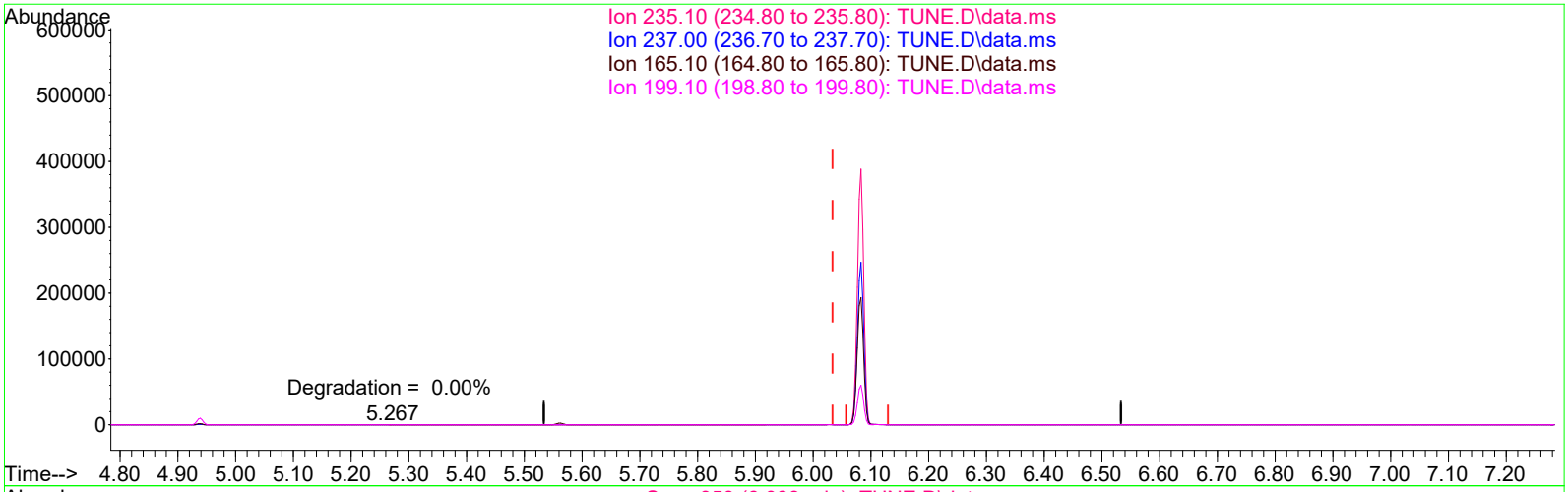
Spectrum Information: Average of 4.936 to 4.942 min.

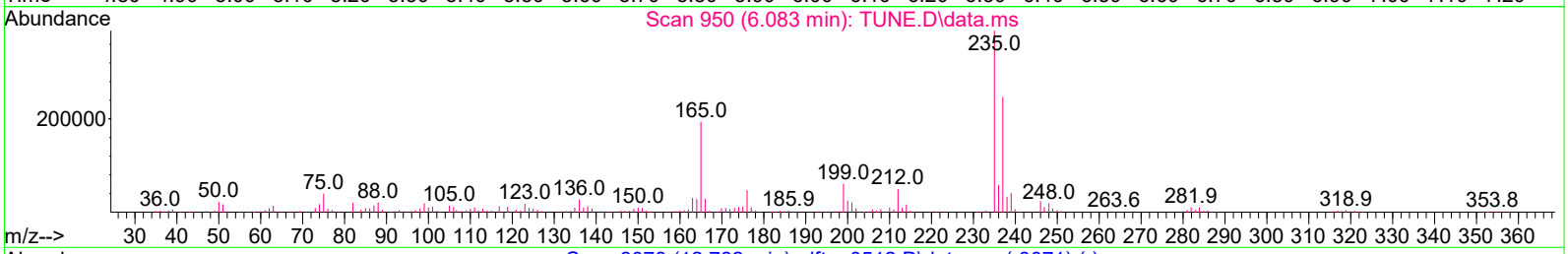
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.9	71189	PASS
68	69	0.00	2	1.9	1116	PASS
69	69	100	100	100.0	58763	PASS
70	69	0.00	2	0.9	507	PASS
127	198	10	80	50.9	74080	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	145483	PASS
199	198	5	9	6.0	8736	PASS
275	198	10	60	24.5	35693	PASS
365	198	1	100	3.0	4431	PASS
441	442	0.01	24	17.2	19468	PASS
442	198	50	100	77.8	113141	PASS
443	442	15	24	20.0	22576	PASS

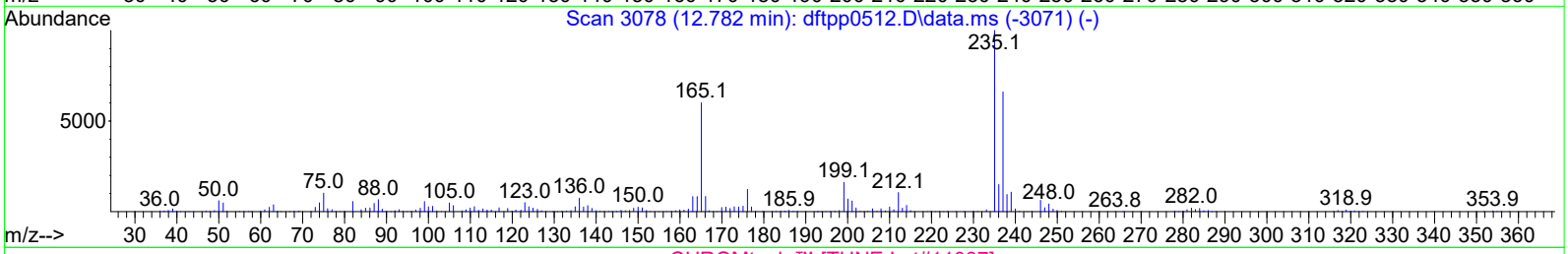
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : TUNE.D
Acq On : 25 Sep 2024 12:30 am
Operator : SV120:mrg
Sample : TUNE Lot#11037
Misc : WG1976347
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 11:34:16 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE Lot#11037]

(6) ddt (T)

6.083min (+ 0.049) 48.77

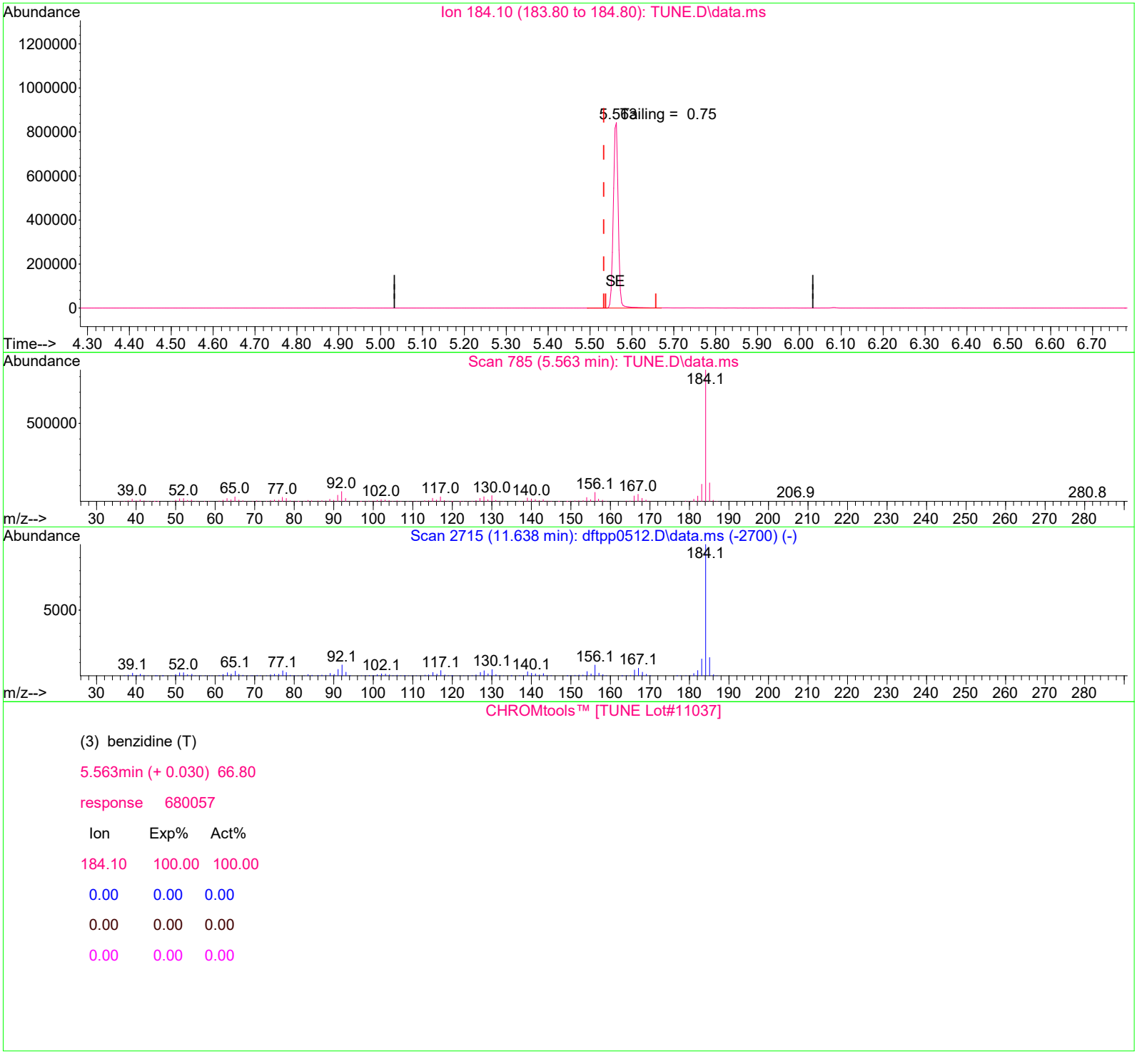
response 297288

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.60
165.10	53.30	50.99
199.10	17.10	15.48

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : TUNE.D
Acq On : 25 Sep 2024 12:30 am
Operator : SV120:mrg
Sample : TUNE Lot#11037
Misc : WG1976347
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 11:34:16 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) benzidine (T)

5.563min (+ 0.030) 66.80

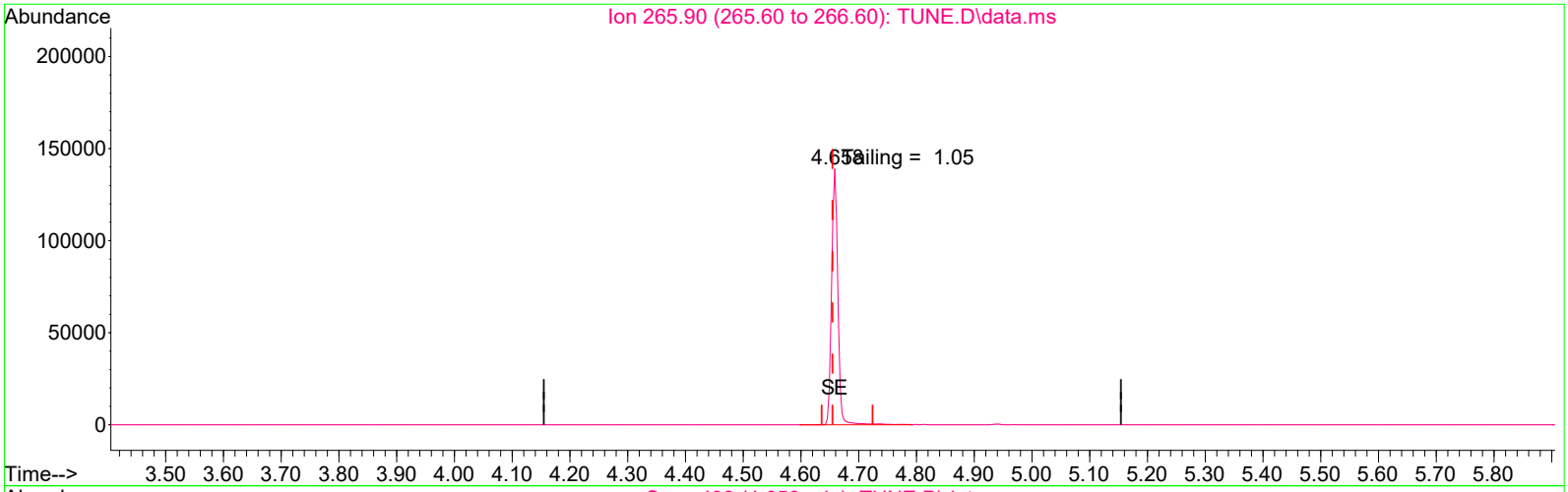
response 680057

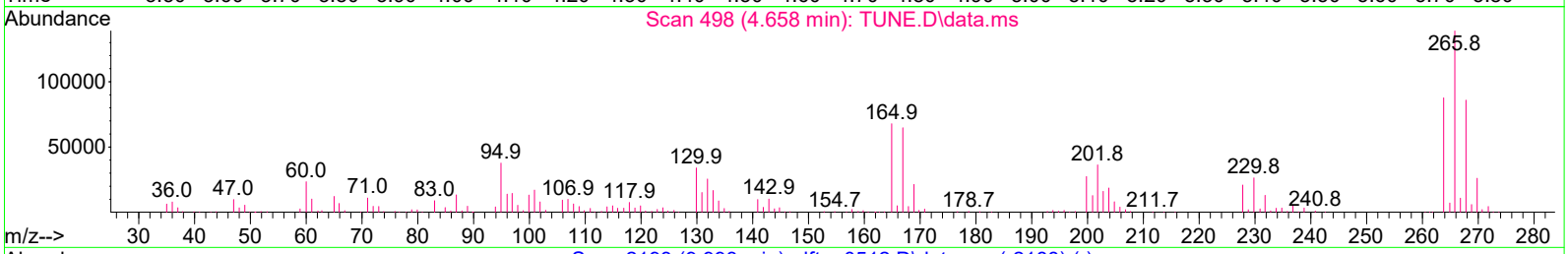
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

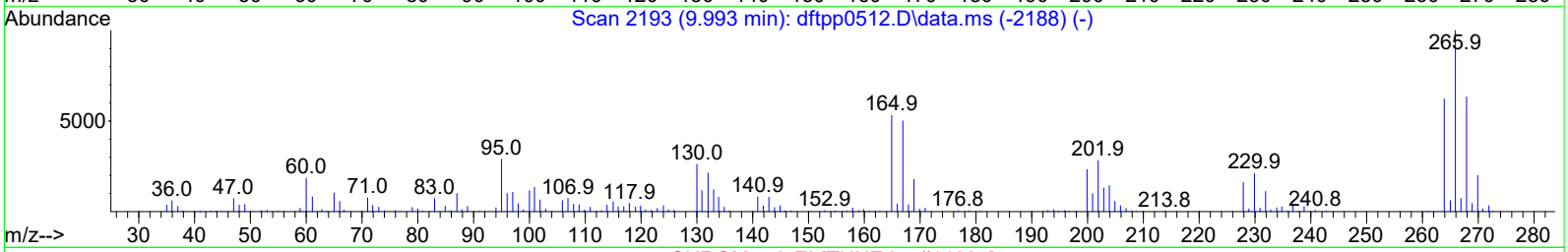
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : TUNE.D
Acq On : 25 Sep 2024 12:30 am
Operator : SV120:mrg
Sample : TUNE Lot#11037
Misc : WG1976347
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 11:34:16 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE Lot#11037]

(1) pentachlorophenol (T)

4.658min (+ 0.003) 49.49

response 103948

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL10.D
Acq On : 25 Sep 2024 12:46 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1976347
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 25 18:06:37 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.089	152	278529	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 88.79%			
8) Naphthalene-d8	2.748	136	1071111	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 90.38%			
17) Acenaphthene-d10	3.722	164	640098	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 94.93%			
22) Phenanthrene-d10	4.560	188	1381454	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 100.75%			
31) Chrysene-d12	6.111	240	1371302	4000.000	ng/ml	0.00
Standard Area 1 = 1370492			Recovery = 100.06%			
36) Perylene-d12	7.211	264	1421912	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 98.86%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.521	112	359396	4666.884	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 233.34%#			
3) Phenol-d6	1.913	99	456768	5053.032	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 252.65%#			
7) Nitrobenzene-d5	2.370	82	395418	5174.906	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 517.49%#			
13) 2-Fluorobiphenyl	3.347	172	921644	4532.203	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 453.22%#			
21) 2,4,6-Tribromophenol	4.169	330	160458	5604.360	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 280.22%#			
30) 4-Terphenyl-d14	5.483	244	1106960	4575.326	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 228.77%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.960	93	355285	4483.696	ng/ml	97
5) n-nitrosodi-n-propylamine	2.293	70	280253	5227.834	ng/ml	100
6) Hexachloroethane	2.343	117	159088	4665.089	ng/ml	99
9) Naphthalene	2.758	128	1210168	4532.497	ng/ml	100
10) Hexachlorobutadiene	2.833	225	229523	4491.006	ng/ml	100
11) 2-Methylnaphthalene	3.138	142	802910	4781.059	ng/ml	98
12) 1-Methylnaphthalene	3.191	142	744330	4594.169	ng/ml	99
14) 2-Chloronaphthalene	3.407	162	847029	4840.184	ng/ml	99
15) 2,6-Dinitrotoluene	3.611	165	222910	5049.435	ng/ml	98
16) Acenaphthylene	3.641	152	1301260	5111.507	ng/ml	100
18) Acenaphthene	3.738	153	885764	4631.214	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL10.D
Acq On : 25 Sep 2024 12:46 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1976347
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 25 18:06:37 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.836	165	317539	5026.940	ng/ml	96
20) Fluorene	4.032	166	1026833	4860.783	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.070	198	206653	5071.058	ng/ml	98
24) Hexachlorobenzene	4.349	284	345672	4352.335	ng/ml	98
25) Pentachlorophenol	4.463	266	248364	4092.764	ng/ml	100
26) Phenanthrene	4.574	178	1573505	4524.482	ng/ml	99
27) Anthracene	4.602	178	1595101	4674.815	ng/ml	99
28) Fluoranthene	5.253	202	1926770	4784.310	ng/ml	99
29) Pyrene	5.383	202	2008724	4716.713	ng/ml	99
32) Benzo[a]anthracene	6.101	228	2001314	4897.643	ng/ml	99
33) 3,3'-Dichlorobenzene	6.096	252	795299	5423.218	ng/ml	99
34) Chrysene	6.126	228	1901796	4894.616	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.138	149	1280397	5084.769	ng/ml	99
37) Benzo[b]fluoranthene	6.871	252	1972687	5024.460	ng/ml	99
38) Benzo[k]fluoranthene	6.898	252	1917742	4978.440	ng/ml	98
39) Benzo[a]pyrene	7.155	252	1790665	5327.424	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.334	276	1871010	5661.059	ng/ml	98
41) Dibenzo[a,h]anthracene	8.369	278	1641895M6	5257.406	ng/ml	
42) Benzo[g,h,i]perylene	8.657	276	1715345	5115.366	ng/ml	100

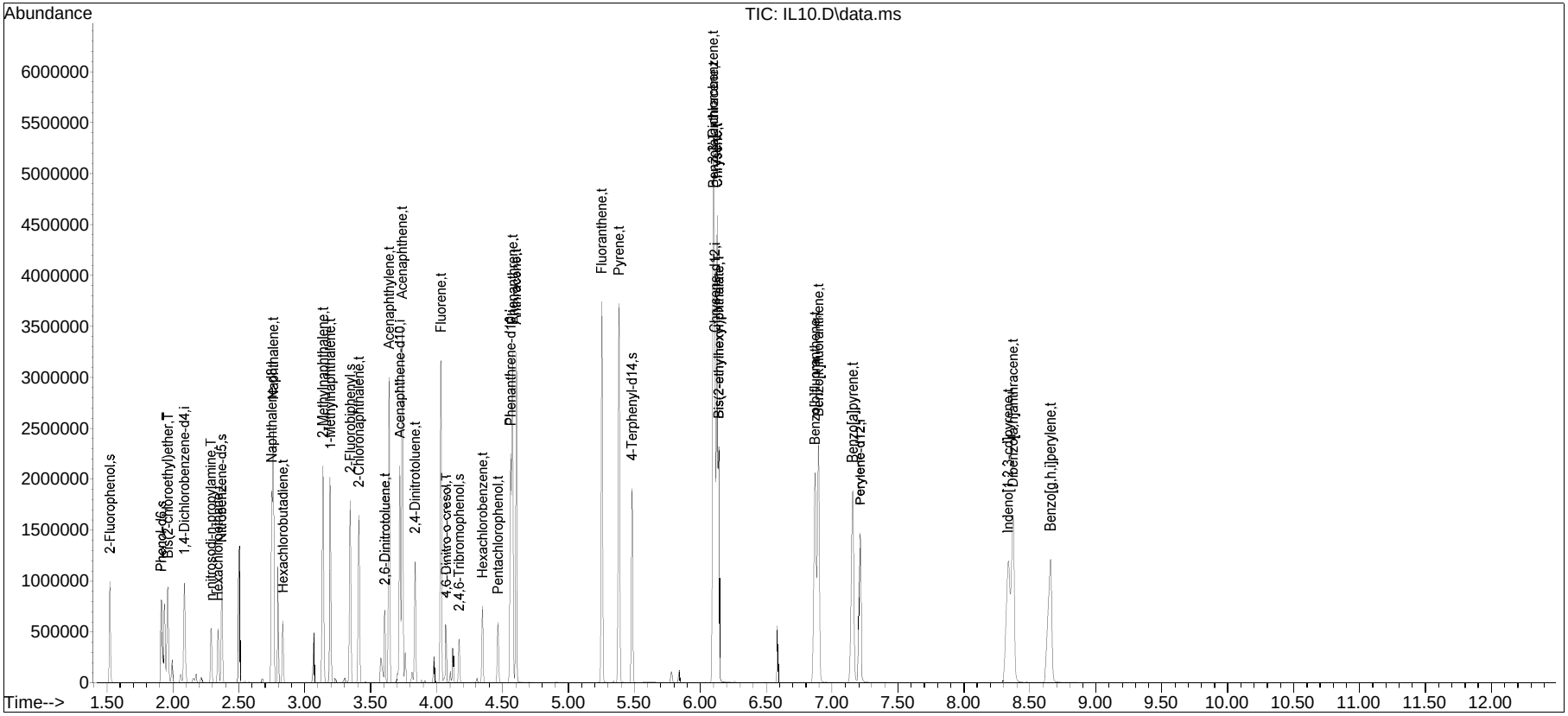
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL10.D
Acq On : 25 Sep 2024 12:46 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1976347
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 25 18:06:37 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

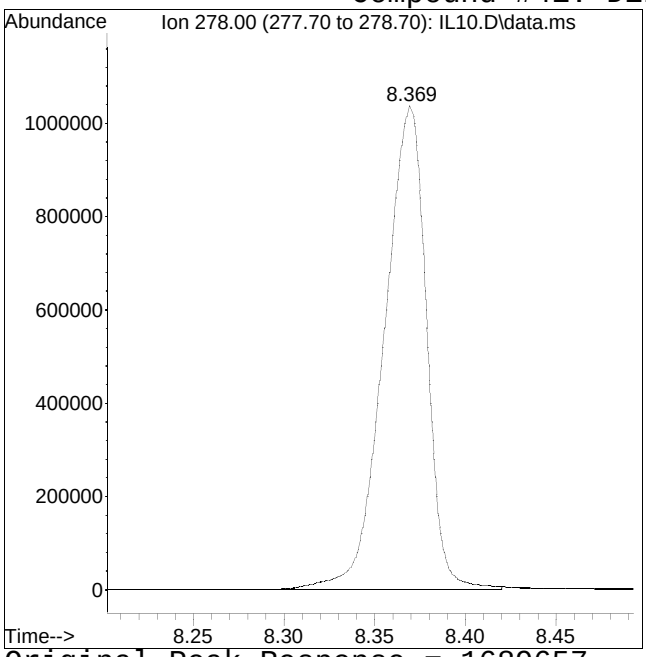
Sub List : Default - All compounds listedical\IL8.D•



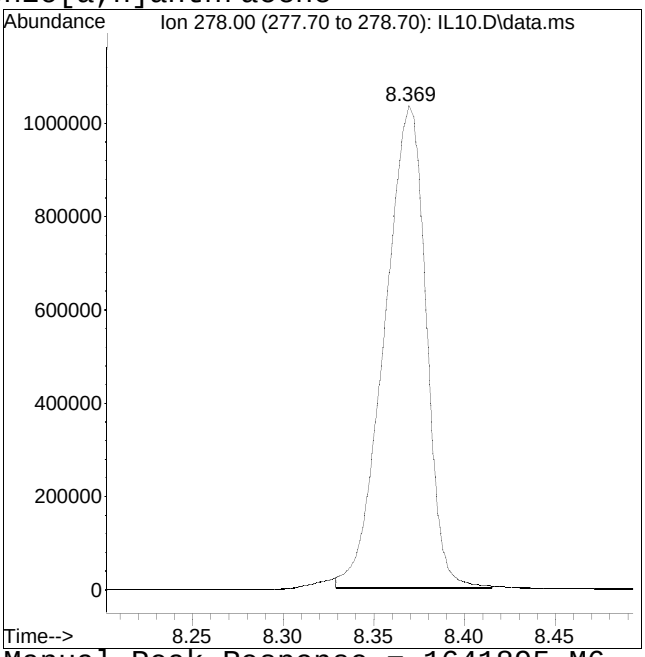
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQMethod : SIM-RVT_240925_sv120.M
Data File : IL10.D Operator : SV120:mrg
Date Inj'd : 9/25/2024 12:46 am Instrument : SV120
Sample : IL10,32,,5000.0ng/mL lot# Quant Date : 9/25/2024 6:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1689657



Manual Peak Response = 1641895 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL9.D
Acq On : 25 Sep 2024 01:03 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1976347
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 18:07:11 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.092	152	269545	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 85.92%			
8) Naphthalene-d8	2.750	136	1031424	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 87.03%			
17) Acenaphthene-d10	3.723	164	605282	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 89.76%			
22) Phenanthrene-d10	4.562	188	1266945	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 92.40%			
31) Chrysene-d12	6.105	240	1309689	4000.000	ng/ml	0.00
Standard Area 1 = 1370492			Recovery = 95.56%			
36) Perylene-d12	7.207	264	1382736	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 96.14%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.523	112	185175	2484.708	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 124.24%#			
3) Phenol-d6	1.917	99	228270	2609.422	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 130.47%#			
7) Nitrobenzene-d5	2.373	82	196379	2655.708	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 265.57%#			
13) 2-Fluorobiphenyl	3.347	172	470228	2401.330	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 240.13%#			
21) 2,4,6-Tribromophenol	4.168	330	78538	2900.903	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 145.05%#			
30) 4-Terphenyl-d14	5.482	244	563412	2539.188	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 126.96%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.960	93	185784	2422.739	ng/ml	100
5) n-nitrosodi-n-propylamine	2.295	70	136872	2638.307	ng/ml	100
6) Hexachloroethane	2.345	117	81037	2455.528	ng/ml	100
9) Naphthalene	2.761	128	611300	2377.626	ng/ml	100
10) Hexachlorobutadiene	2.836	225	117133	2380.093	ng/ml	100
11) 2-Methylnaphthalene	3.138	142	404914	2503.902	ng/ml	98
12) 1-Methylnaphthalene	3.195	142	377147	2417.405	ng/ml	99
14) 2-Chloronaphthalene	3.411	162	422554	2507.512	ng/ml	100
15) 2,6-Dinitrotoluene	3.610	165	108703	2565.010	ng/ml	99
16) Acenaphthylene	3.640	152	647165	2639.959	ng/ml	100
18) Acenaphthene	3.740	153	440713	2436.809	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL9.D
Acq On : 25 Sep 2024 01:03 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1976347
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 18:07:11 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.835	165	152745	2567.000	ng/ml	98
20) Fluorene	4.031	166	511278	2559.483	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.067	198	95999	2582.941	ng/ml	98
24) Hexachlorobenzene	4.348	284	172857	2373.142	ng/ml	99
25) Pentachlorophenol	4.462	266	111770	2490.259	ng/ml	100
26) Phenanthrene	4.573	178	777372	2437.296	ng/ml	100
27) Anthracene	4.601	178	791368	2528.910	ng/ml	100
28) Fluoranthene	5.252	202	956878	2590.745	ng/ml	100
29) Pyrene	5.382	202	1002284	2566.189	ng/ml	100
32) Benzo[a]anthracene	6.095	228	1016936	2600.982	ng/ml	100
33) 3,3'-Dichlorobenzene	6.090	252	397872	2840.762	ng/ml	99
34) Chrysene	6.120	228	983664	2650.736	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.134	149	619161	2586.555	ng/ml	100
37) Benzo[b]fluoranthene	6.864	252	1025267	2685.355	ng/ml	100
38) Benzo[k]fluoranthene	6.887	252	999697	2668.732	ng/ml	99
39) Benzo[a]pyrene	7.145	252	925281	2830.805	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.322	276	938330	2919.514	ng/ml	98
41) Dibenzo[a,h]anthracene	8.357	278	850544M6	2800.634	ng/ml	
42) Benzo[g,h,i]perylene	8.639	276	892644	2737.392	ng/ml	100

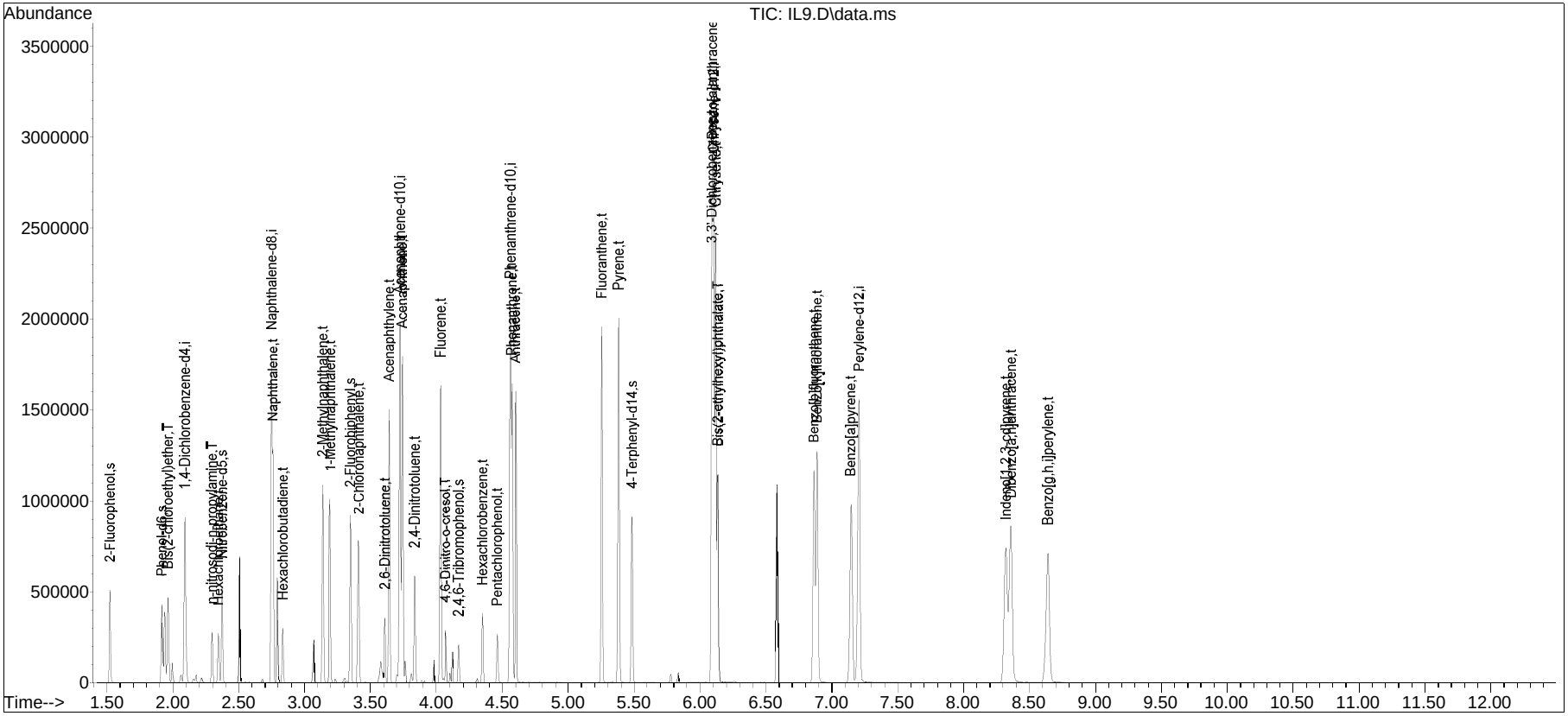
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL9.D
Acq On : 25 Sep 2024 01:03 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1976347
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 18:07:11 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

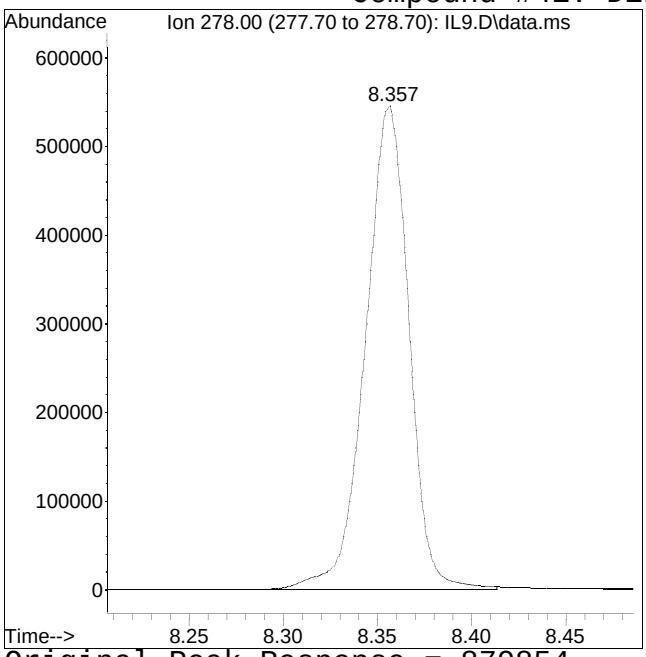
Sub List : Default - All compounds listedical\IL8.D•



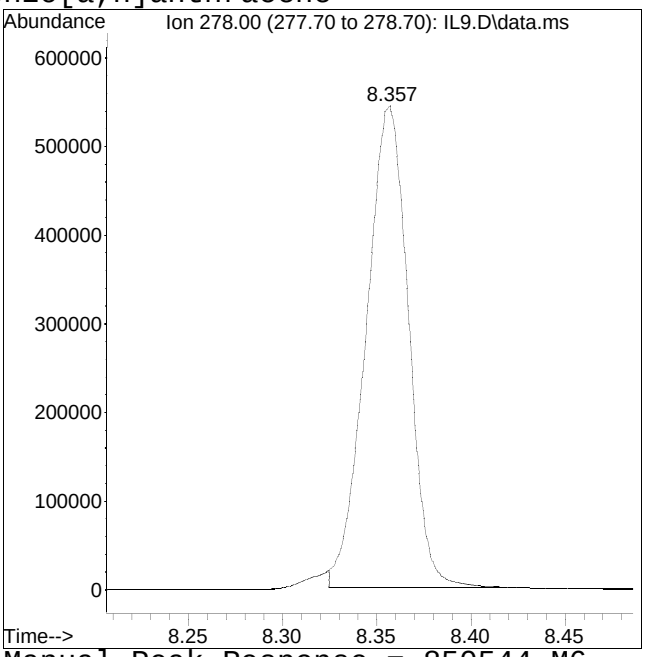
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQMethod : SIM-RVT_240925_sv120.M
Data File : IL9.D Operator : SV120:mrg
Date Inj'd : 9/25/2024 1:03 am Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 879854



Manual Peak Response = 850544 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL8.D
Acq On : 25 Sep 2024 01:19 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1976347
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 18:07:07 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	313709	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 100.00%			
8) Naphthalene-d8	2.750	136	1185096	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 100.00%			
17) Acenaphthene-d10	3.724	164	674310	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 100.00%			
22) Phenanthrene-d10	4.562	188	1371198	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 100.00%			
31) Chrysene-d12	6.100	240	1370492	4000.000	ng/ml	0.00
Standard Area 1 = 1370492			Recovery = 100.00%			
36) Perylene-d12	7.201	264	1438322	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.529	112	86581	998.205	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.91%			
3) Phenol-d6	1.920	99	103688	1018.423	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.92%			
7) Nitrobenzene-d5	2.373	82	89253	1037.080	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 103.71%			
13) 2-Fluorobiphenyl	3.347	172	217753	967.813	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.78%			
21) 2,4,6-Tribromophenol	4.169	330	33075	1096.608	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.83%			
30) 4-Terphenyl-d14	5.480	244	238199	991.896	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.59%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	86065	964.338	ng/ml	100
5) n-nitrosodi-n-propylamine	2.298	70	60431	1000.863	ng/ml	100
6) Hexachloroethane	2.348	117	37432	974.561	ng/ml	100
9) Naphthalene	2.761	128	279093	944.761	ng/ml	100
10) Hexachlorobutadiene	2.836	225	54504	963.888	ng/ml	100
11) 2-Methylnaphthalene	3.141	142	185552	998.628	ng/ml	100
12) 1-Methylnaphthalene	3.194	142	171631	957.454	ng/ml	100
14) 2-Chloronaphthalene	3.410	162	191370	988.367	ng/ml	100
15) 2,6-Dinitrotoluene	3.610	165	44803	930.350	ng/ml	100
16) Acenaphthylene	3.641	152	285793	1014.653	ng/ml	100
18) Acenaphthene	3.741	153	195907	972.330	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL8.D
Acq On : 25 Sep 2024 01:19 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1976347
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 18:07:07 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.838	165	61796	944.939	ng/ml	100
20) Fluorene	4.031	166	220495	990.814	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.067	198	35742	907.573	ng/ml	100
24) Hexachlorobenzene	4.348	284	76434	969.574	ng/ml	100
25) Pentachlorophenol	4.462	266	39658	1044.089	ng/ml	100
26) Phenanthrene	4.573	178	335543	972.042	ng/ml	100
27) Anthracene	4.601	178	336173	992.602	ng/ml	100
28) Fluoranthene	5.253	202	395801	990.154	ng/ml	100
29) Pyrene	5.380	202	417988	988.825	ng/ml	100
32) Benzo[a]anthracene	6.090	228	408427	992.014	ng/ml	100
33) 3,3'-Dichlorobenzene	6.085	252	152173	1038.295	ng/ml	100
34) Chrysene	6.112	228	400013	1030.114	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.130	149	220301	895.579	ng/ml	100
37) Benzo[b]fluoranthene	6.857	252	417073	1050.171	ng/ml	100
38) Benzo[k]fluoranthene	6.881	252	391448	1004.601	ng/ml	100
39) Benzo[a]pyrene	7.138	252	361650	1063.673	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.311	276	360616	1078.656	ng/ml	100
41) Dibenzo[a,h]anthracene	8.343	278	338339M6	1071.013	ng/ml	
42) Benzo[g,h,i]perylene	8.623	276	353390	1041.828	ng/ml	100

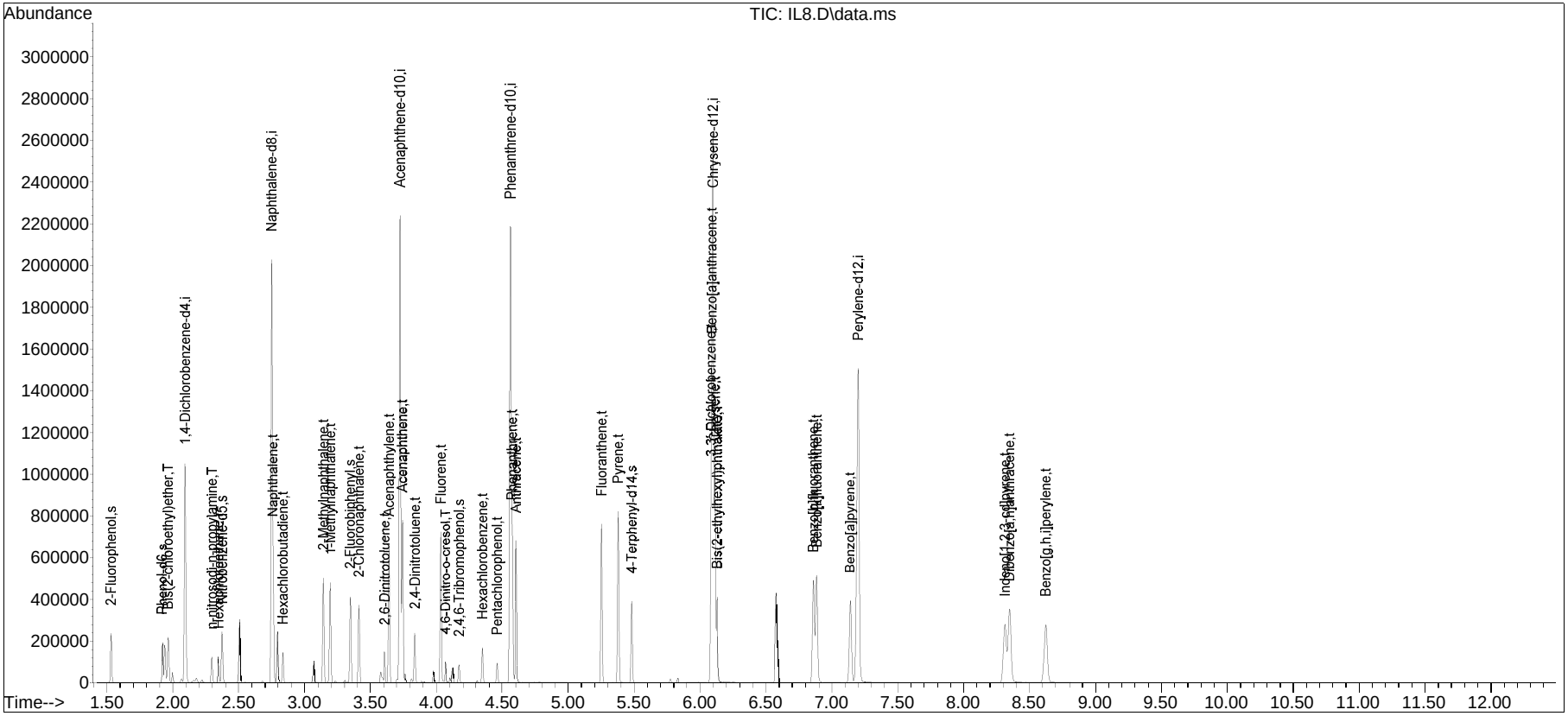
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL8.D
Acq On : 25 Sep 2024 01:19 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1976347
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 18:07:07 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

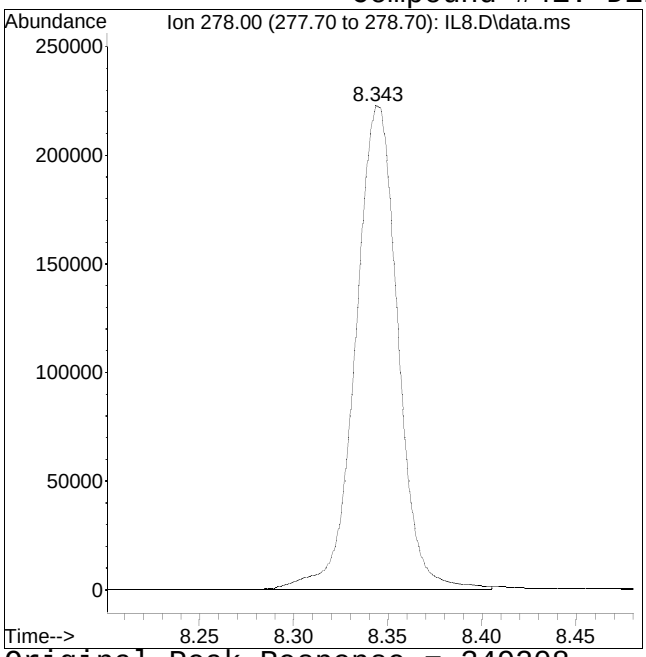
Sub List : Default - All compounds listedical\IL8.D•



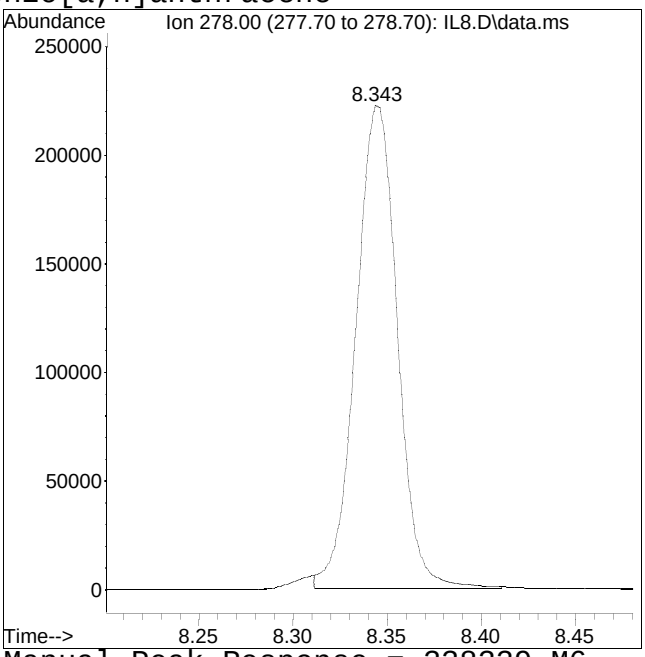
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL8.D
Date Inj'd : 9/25/2024 1:19 am
Sample : IL8,32,,1000.0ng/mL lot# 1
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 349208



Manual Peak Response = 338339 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL7.D
Acq On : 25 Sep 2024 01:35 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1976347
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 18:07:03 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	280461	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 89.40%			
8) Naphthalene-d8	2.751	136	1042462	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 87.96%			
17) Acenaphthene-d10	3.722	164	592218	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 87.83%			
22) Phenanthrene-d10	4.560	188	1199588	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 87.48%			
31) Chrysene-d12	6.098	240	1238039	4000.000	ng/ml	-0.01
Standard Area 1 = 1370492			Recovery = 90.34%			
36) Perylene-d12	7.199	264	1309808	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 91.07%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.532	112	40838	526.643	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.33%			
3) Phenol-d6	1.920	99	47195	518.502	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.93%			
7) Nitrobenzene-d5	2.374	82	40442	525.626	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 52.56%			
13) 2-Fluorobiphenyl	3.351	172	100949	510.061	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 51.01%			
21) 2,4,6-Tribromophenol	4.170	330	14414	544.144	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 27.21%			
30) 4-Terphenyl-d14	5.481	244	109285	520.182	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 26.01%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.967	93	40139	503.065	ng/ml	99
5) n-nitrosodi-n-propylamine	2.299	70	27256	504.930	ng/ml	99
6) Hexachloroethane	2.349	117	17348	505.208	ng/ml	100
9) Naphthalene	2.762	128	128938	496.189	ng/ml	100
10) Hexachlorobutadiene	2.837	225	25237	507.375	ng/ml	100
11) 2-Methylnaphthalene	3.142	142	85298	521.880	ng/ml	100
12) 1-Methylnaphthalene	3.195	142	78823	499.883	ng/ml	99
14) 2-Chloronaphthalene	3.411	162	87054	511.124	ng/ml	100
15) 2,6-Dinitrotoluene	3.608	165	18739	450.742	ng/ml	96
16) Acenaphthylene	3.642	152	129357	522.094	ng/ml	100
18) Acenaphthene	3.742	153	89598	506.337	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL7.D
Acq On : 25 Sep 2024 01:35 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1976347
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 18:07:03 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.836	165	25756	458.931	ng/ml	97
20) Fluorene	4.032	166	100523	514.324	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.068	198	14480	435.846	ng/ml	100
24) Hexachlorobenzene	4.349	284	34821	504.898	ng/ml	100
25) Pentachlorophenol	4.463	266	14304	484.747	ng/ml	100
26) Phenanthrene	4.571	178	152385	504.600	ng/ml	100
27) Anthracene	4.602	178	150865	509.177	ng/ml	100
28) Fluoranthene	5.251	202	178056	509.155	ng/ml	100
29) Pyrene	5.380	202	189764	513.142	ng/ml	100
32) Benzo[a]anthracene	6.091	228	191393	509.713	ng/ml	100
33) 3,3'-Dichlorobenzene	6.084	252	67682	511.209	ng/ml#	99
34) Chrysene	6.111	228	191830	546.852	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.128	149	92153	427.803	ng/ml	99
37) Benzo[b]fluoranthene	6.856	252	203614	562.994	ng/ml	100
38) Benzo[k]fluoranthene	6.877	252	182354	513.906	ng/ml	100
39) Benzo[a]pyrene	7.137	252	170905	551.979	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.310	276	177490	582.989	ng/ml	99
41) Dibenzo[a,h]anthracene	8.342	278	162735M6	565.682	ng/ml	
42) Benzo[g,h,i]perylene	8.619	276	170813	552.982	ng/ml	100

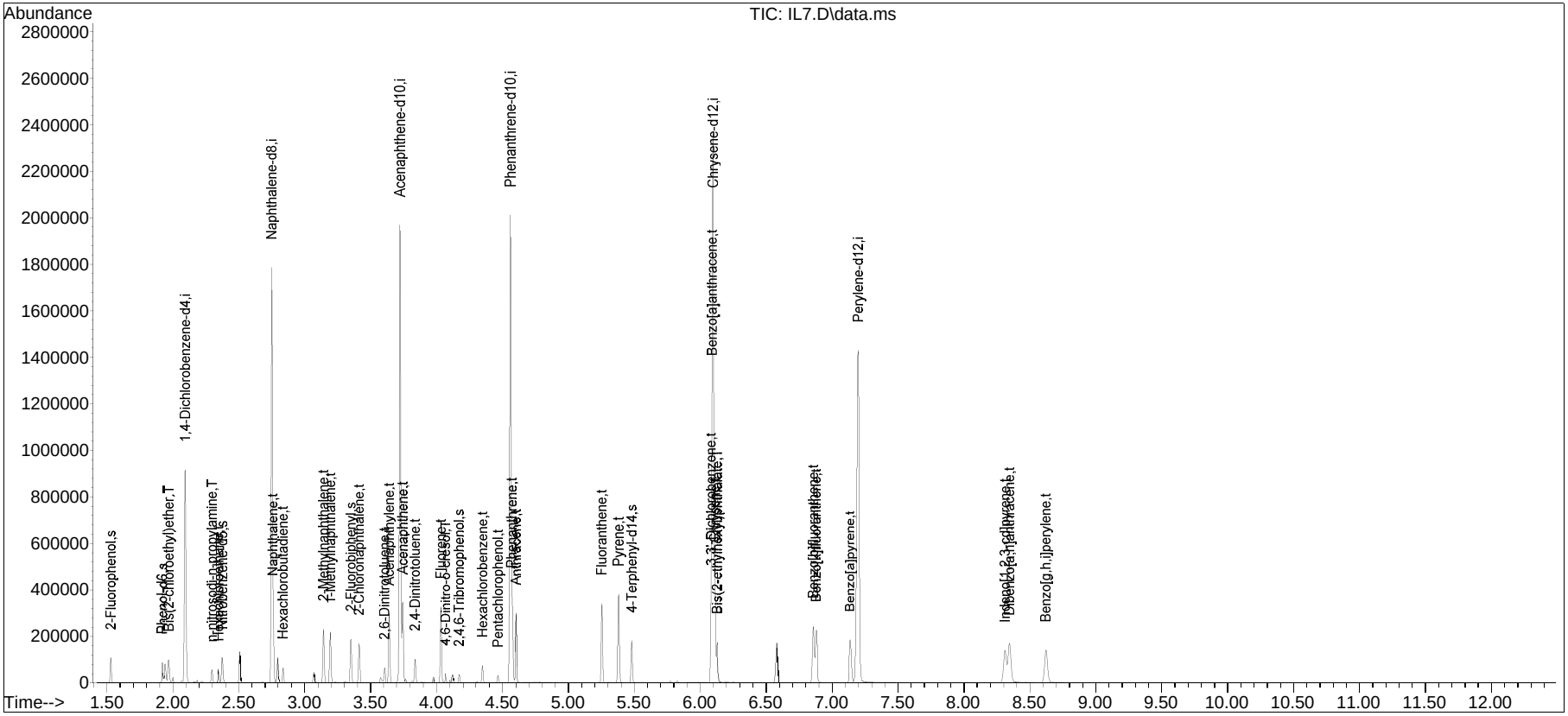
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL7.D
Acq On : 25 Sep 2024 01:35 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1976347
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 18:07:03 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

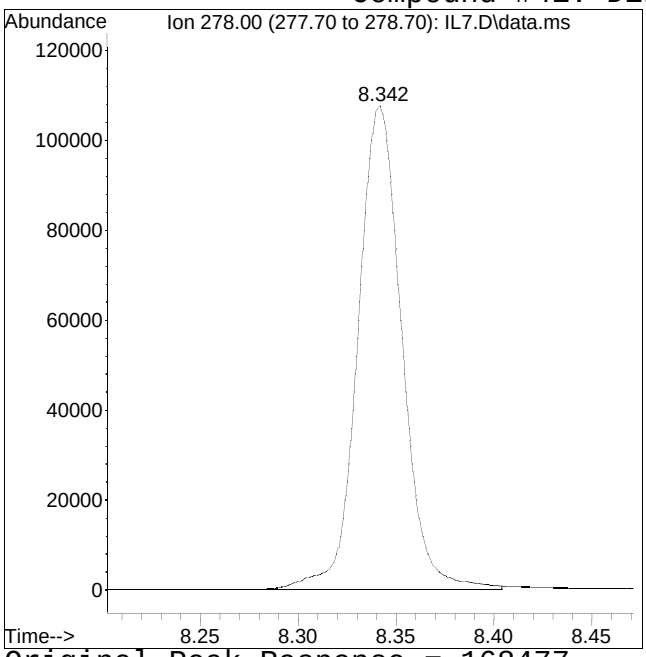
Sub List : Default - All compounds listedical\IL8.D•



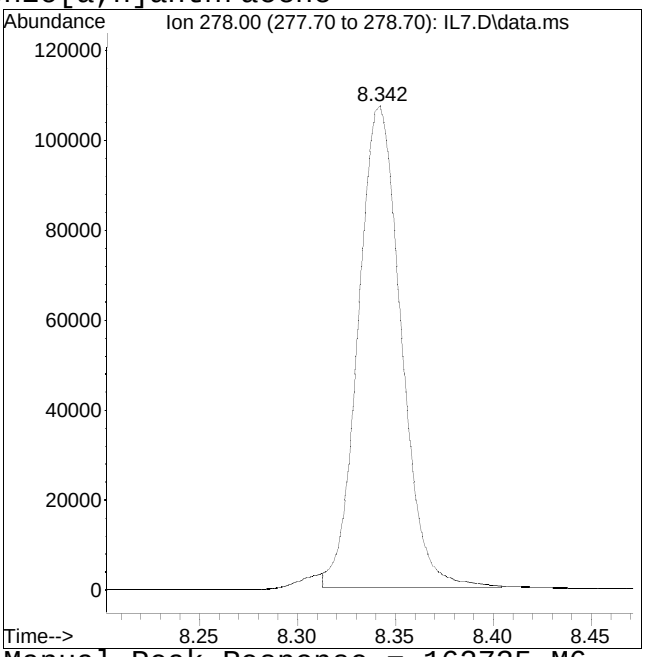
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQMethod : SIM-RVT_240925_sv120.M
Data File : IL7.D Operator : SV120:mrg
Date Inj'd : 9/25/2024 1:35 am Instrument : SV120
Sample : IL7,32,,500.0ng/mL lot# 10Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 168477



Manual Peak Response = 162735 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL6.D
Acq On : 25 Sep 2024 01:52 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1976347
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:06:59 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	316312	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 100.83%			
8) Naphthalene-d8	2.753	136	1175987	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 99.23%			
17) Acenaphthene-d10	3.723	164	658215	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 97.61%			
22) Phenanthrene-d10	4.561	188	1293757	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 94.35%			
31) Chrysene-d12	6.094	240	1195279	4000.000	ng/ml	-0.02
Standard Area 1 = 1370492			Recovery = 87.22%			
36) Perylene-d12	7.194	264	1222752	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 85.01%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.529	112	9749	111.473	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.57%#			
3) Phenol-d6	1.920	99	11337	110.436	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.52%#			
7) Nitrobenzene-d5	2.376	82	9509	109.581	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.96%#			
13) 2-Fluorobiphenyl	3.351	172	24842	111.267	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 11.13%#			
21) 2,4,6-Tribromophenol	4.170	330	3103	105.396	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.27%#			
30) 4-Terphenyl-d14	5.479	244	23853	105.273	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 5.26%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.967	93	11297	125.539	ng/ml	87
5) n-nitrosodi-n-propylamine	2.301	70	6349M6	104.287	ng/ml	
6) Hexachloroethane	2.349	117	4209	108.682	ng/ml	99
9) Naphthalene	2.764	128	31310	106.809	ng/ml	100
10) Hexachlorobutadiene	2.839	225	6143	109.479	ng/ml	99
11) 2-Methylnaphthalene	3.142	142	20354	110.392	ng/ml	99
12) 1-Methylnaphthalene	3.195	142	19187	107.865	ng/ml	98
14) 2-Chloronaphthalene	3.411	162	20987	109.231	ng/ml	100
15) 2,6-Dinitrotoluene	3.609	165	4016	98.570	ng/ml	92
16) Acenaphthylene	3.642	152	29485	105.492	ng/ml	100
18) Acenaphthene	3.739	153	21536	109.502	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL6.D
Acq On : 25 Sep 2024 01:52 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1976347
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:06:59 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.840	165	5003	96.691	ng/ml	87
20) Fluorene	4.032	166	23426	107.841	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.069	198	2514	94.487	ng/ml	99
24) Hexachlorobenzene	4.350	284	8276	111.266	ng/ml	100
25) Pentachlorophenol	4.466	266	2055	75.638	ng/ml	99
26) Phenanthrene	4.572	178	35827	110.001	ng/ml	95
27) Anthracene	4.603	178	34350	107.495	ng/ml	100
28) Fluoranthene	5.251	202	38824	102.937	ng/ml	100
29) Pyrene	5.381	202	40121	100.595	ng/ml	100
32) Benzo[a]anthracene	6.089	228	40037	102.482	ng/ml	98
33) 3,3'-Dichlorobenzene	6.084	252	12028	94.099	ng/ml#	89
34) Chrysene	6.109	228	39424	116.407	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.126	149	15482	94.591	ng/ml	100
37) Benzo[b]fluoranthene	6.854	252	36506	108.126	ng/ml	99
38) Benzo[k]fluoranthene	6.877	252	34939	105.475	ng/ml	100
39) Benzo[a]pyrene	7.132	252	30893	106.880	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.305	276	32091	112.912	ng/ml	100
41) Dibenzo[a,h]anthracene	8.340	278	30441M6	113.349	ng/ml	
42) Benzo[g,h,i]perylene	8.617	276	32437	112.486	ng/ml	100

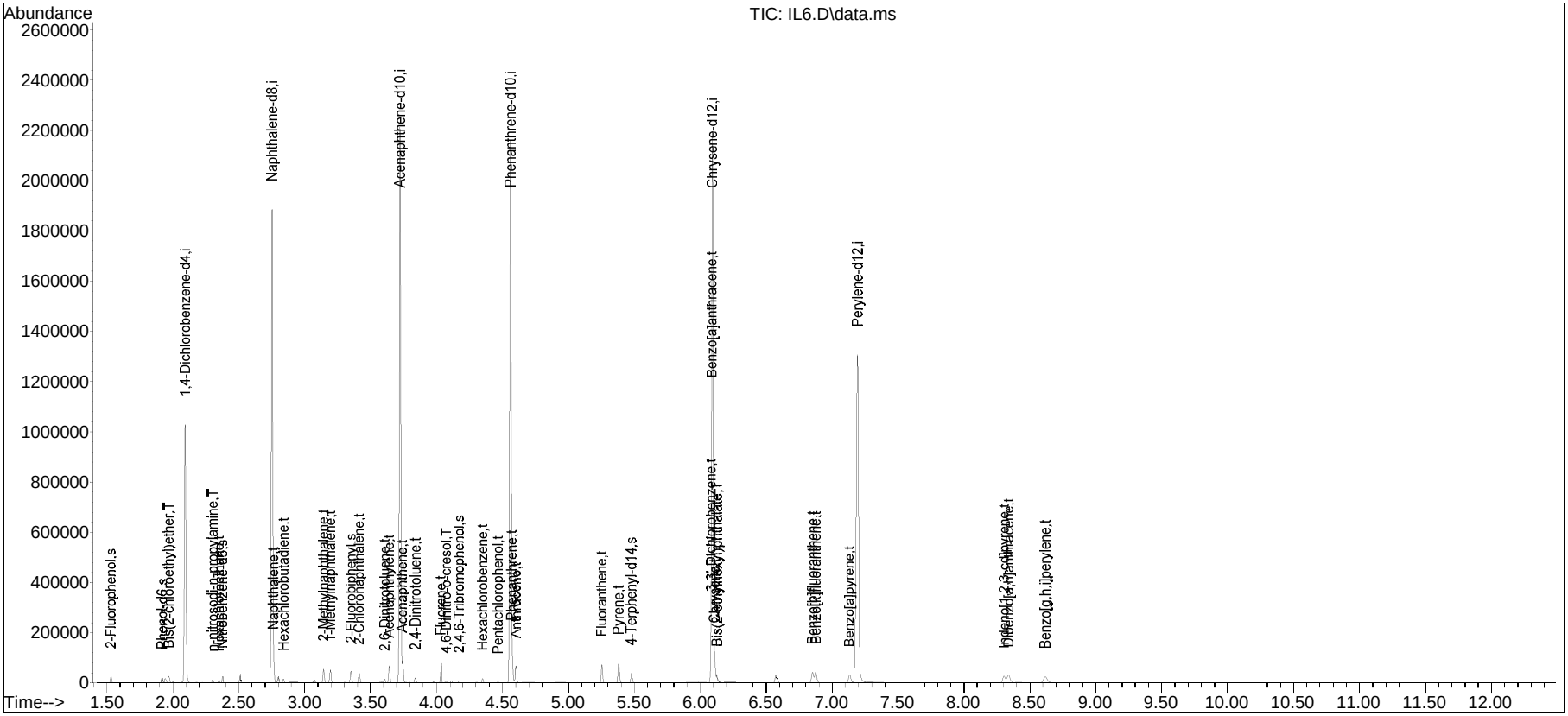
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL6.D
Acq On : 25 Sep 2024 01:52 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1976347
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:06:59 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

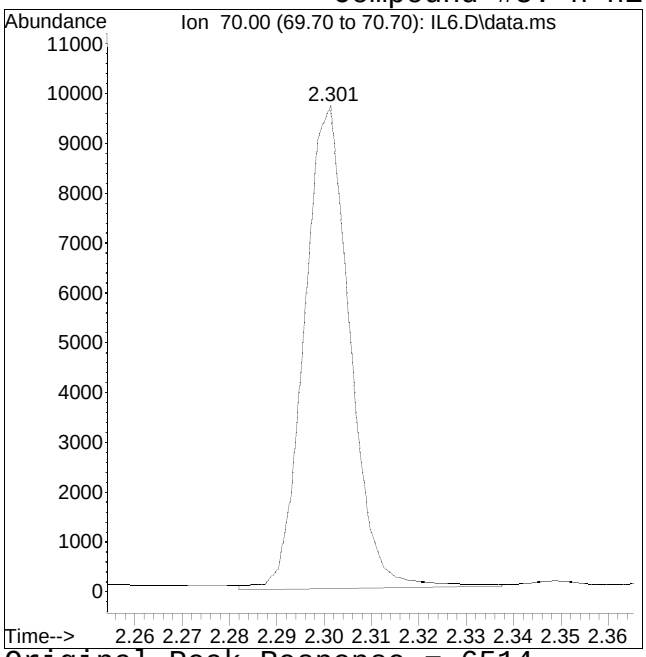
Sub List : Default - All compounds listedical\IL8.D•



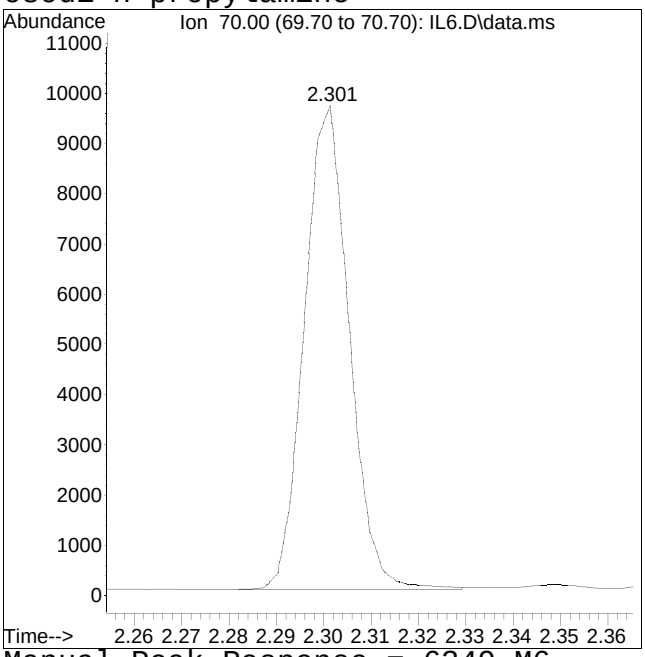
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL6.D
Date Inj'd : 9/25/2024 1:52 am
Sample : IL6,32,,100.0ng/mL lot# 10
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 6514



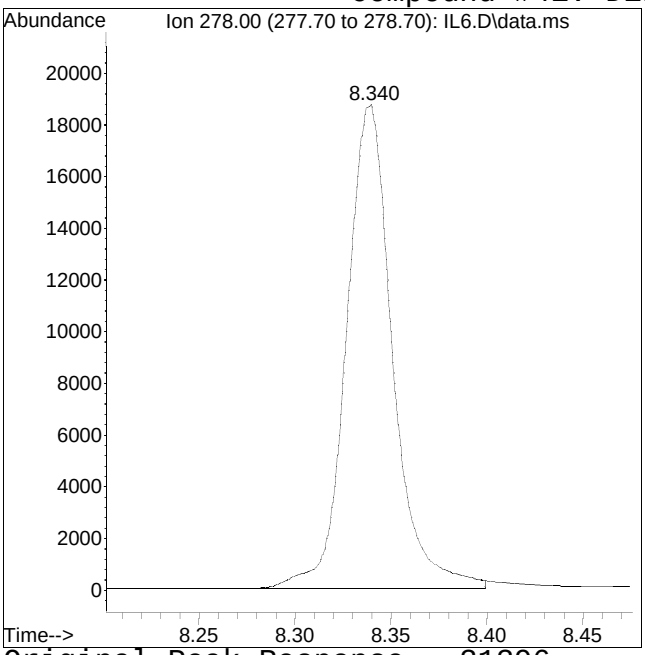
Manual Peak Response = 6349 M6

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

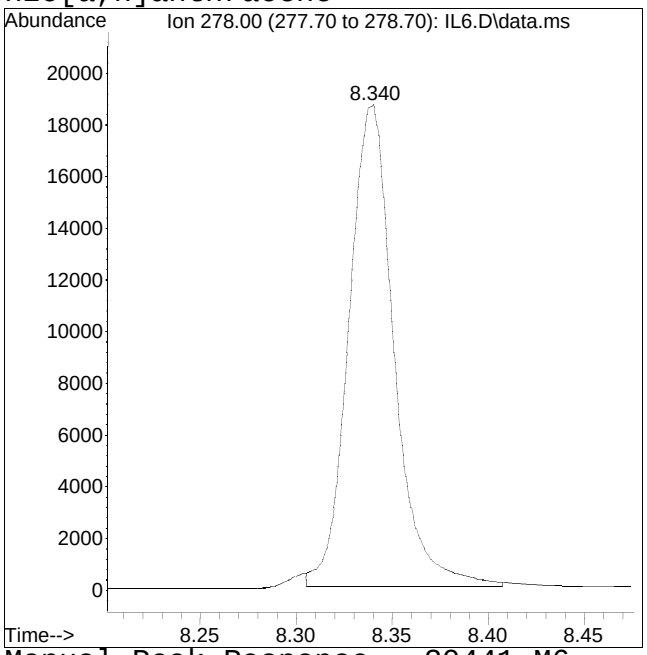
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL6.D
Date Inj'd : 9/25/2024 1:52 am
Sample : IL6,32,,100.0ng/mL lot# 10
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 31396



Manual Peak Response = 30441 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL5.D
Acq On : 25 Sep 2024 02:11 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1976347
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 25 18:06:55 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.089	152	309852	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 98.77%			
8) Naphthalene-d8	2.749	136	1154850	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 97.45%			
17) Acenaphthene-d10	3.723	164	652555	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 96.77%			
22) Phenanthrene-d10	4.561	188	1327296	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 96.80%			
31) Chrysene-d12	6.122	240	1336887	4000.000	ng/ml	0.01
Standard Area 1 = 1370492			Recovery = 97.55%			
36) Perylene-d12	7.227	264	1339174	4000.000	ng/ml	0.02
Standard Area 1 = 1438322			Recovery = 93.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.524	112	3371	39.349	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.97%#			
3) Phenol-d6	1.917	99	3910	38.882	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.94%#			
7) Nitrobenzene-d5	2.374	82	3282	38.610	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.86%#			
13) 2-Fluorobiphenyl	3.349	172	8846	40.346	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.03%#			
21) 2,4,6-Tribromophenol	4.171	330	1052	36.042	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.80%#			
30) 4-Terphenyl-d14	5.492	244	9000	38.717	ng/ml	0.01
Spiked Amount 2000.000	Range 30 - 130		Recovery = 1.94%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	3431	38.922	ng/ml	99
5) n-nitrosodi-n-propylamine	2.296	70	2290	38.399	ng/ml	98
6) Hexachloroethane	2.346	117	1456	38.380	ng/ml	99
9) Naphthalene	2.759	128	11088	38.517	ng/ml	99
10) Hexachlorobutadiene	2.834	225	2196	39.853	ng/ml	99
11) 2-Methylnaphthalene	3.140	142	7123	39.340	ng/ml	99
12) 1-Methylnaphthalene	3.193	142	6953	39.804	ng/ml	100
14) 2-Chloronaphthalene	3.409	162	7470	39.591	ng/ml	99
15) 2,6-Dinitrotoluene	3.609	165	1427	45.859	ng/ml#	78
16) Acenaphthylene	3.640	152	10415	37.945	ng/ml	100
18) Acenaphthene	3.740	153	7720	39.593	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL5.D
Acq On : 25 Sep 2024 02:11 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1976347
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 25 18:06:55 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.840	165	1652	45.526	ng/ml#	78
20) Fluorene	4.033	166	8279	38.443	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.072	198	798	49.256	ng/ml	99
24) Hexachlorobenzene	4.350	284	2974	38.973	ng/ml	99
25) Pentachlorophenol	4.467	266	960	37.858	ng/ml	96
26) Phenanthrene	4.573	178	13538	40.516	ng/ml#	84
27) Anthracene	4.603	178	12489	38.095	ng/ml	99
28) Fluoranthene	5.260	202	14485	37.435	ng/ml	100
29) Pyrene	5.389	202	15124	36.962	ng/ml	100
32) Benzo[a]anthracene	6.114	228	18497	36.368	ng/ml	95
33) 3,3'-Dichlorobenzene	6.112	252	4450	31.126	ng/ml#	67
34) Chrysene	6.134	228	15509	40.943	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.156	149	6319	50.010	ng/ml	100
37) Benzo[b]fluoranthene	6.887	252	13651	36.917	ng/ml	100
38) Benzo[k]fluoranthene	6.908	252	14041	38.702	ng/ml	96
39) Benzo[a]pyrene	7.165	252	11545	36.470	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.341	276	11837M6	38.028	ng/ml	
41) Dibenzo[a,h]anthracene	8.373	278	10768M6	36.610	ng/ml	
42) Benzo[g,h,i]perylene	8.652	276	11699	37.043	ng/ml	100

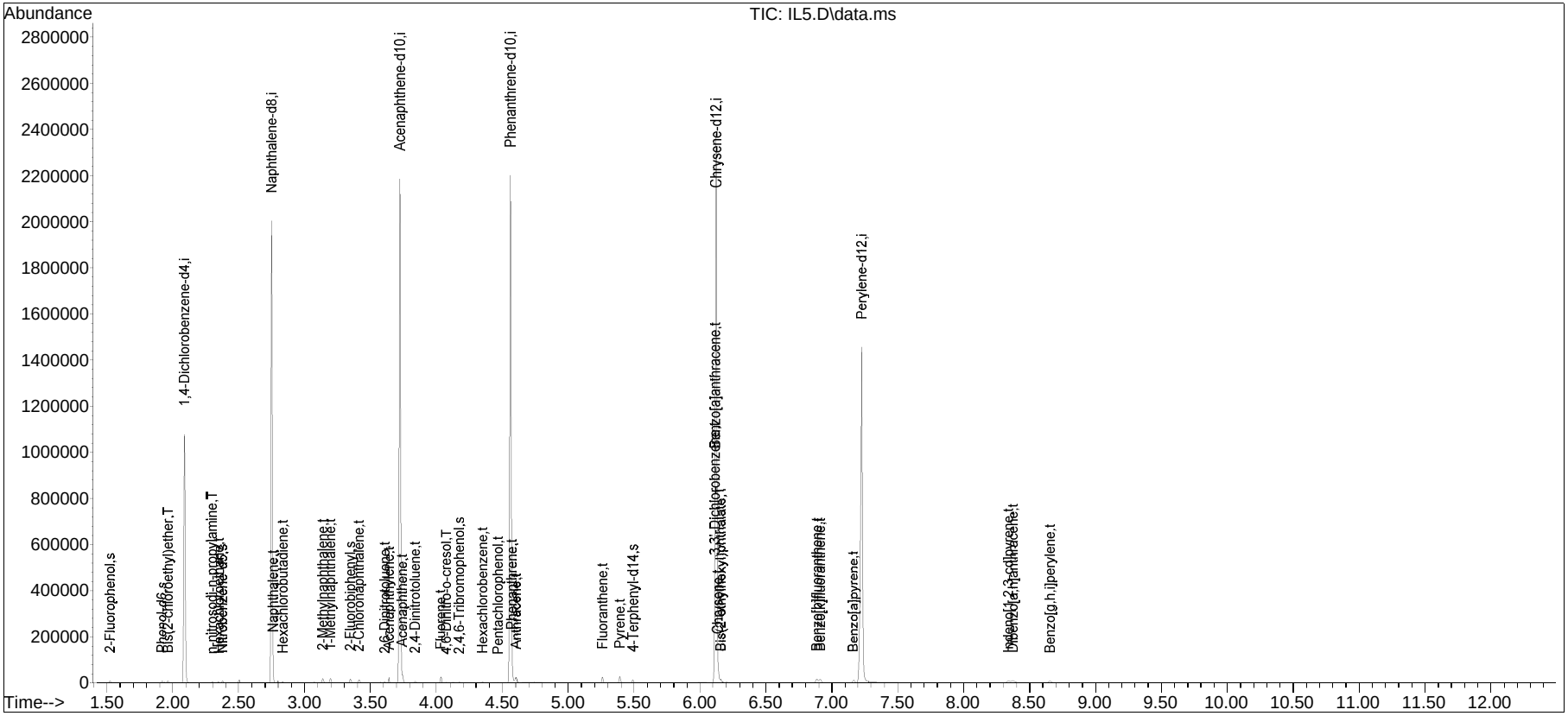
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL5.D
Acq On : 25 Sep 2024 02:11 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1976347
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 25 18:06:55 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

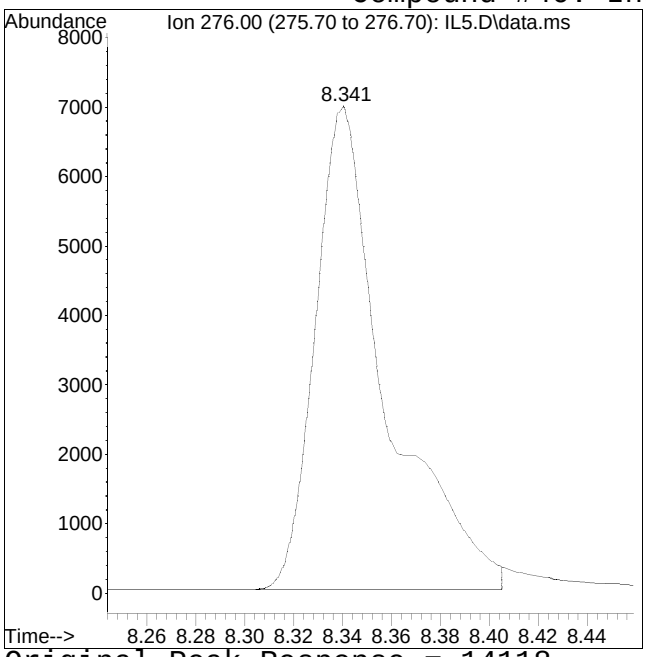
Sub List : Default - All compounds listedical\IL8.D•



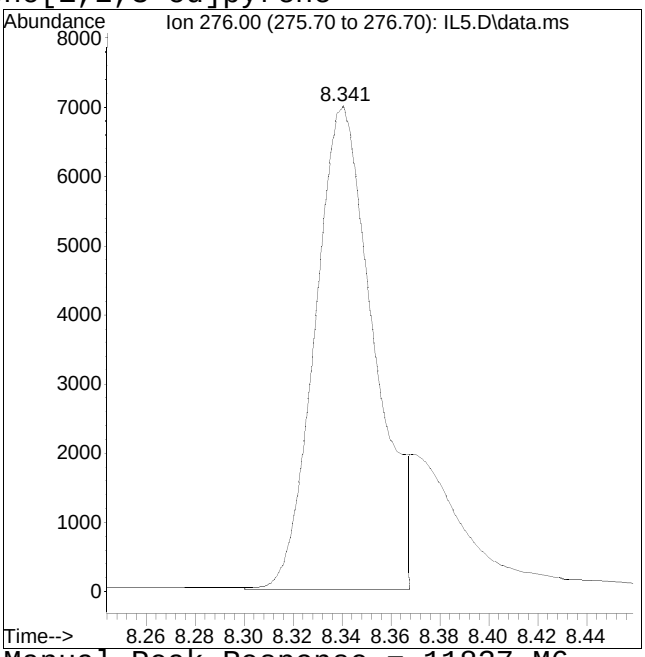
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL5.D
Date Inj'd : 9/25/2024 2:11 am
Sample : IL5,32,,40.0ng/mL lot# 108
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 14118



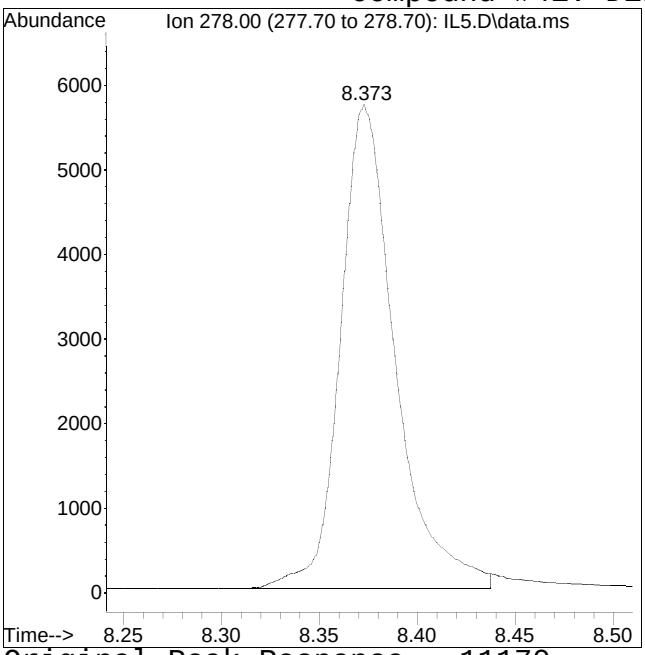
Manual Peak Response = 11837 M6

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

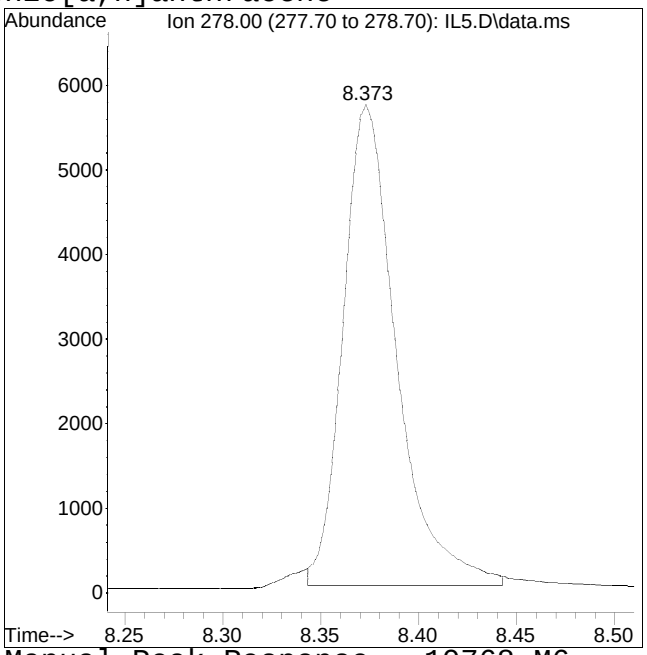
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL5.D
Date Inj'd : 9/25/2024 2:11 am
Sample : IL5,32,,40.0ng/mL lot# 108
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 11170



Manual Peak Response = 10768 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL4.D
Acq On : 25 Sep 2024 02:29 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1976347
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 25 18:06:50 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.093	152	296932	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 94.65%			
8) Naphthalene-d8	2.750	136	1088942	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 91.89%			
17) Acenaphthene-d10	3.723	164	619765	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 91.91%			
22) Phenanthrene-d10	4.561	188	1245441	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 90.83%			
31) Chrysene-d12	6.104	240	1328349	4000.000	ng/ml	0.00
Standard Area 1 = 1370492			Recovery = 96.92%			
36) Perylene-d12	7.203	264	1334399	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 92.77%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.526	112	806	9.818	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
3) Phenol-d6	1.920	99	923	9.578	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.48%#			
7) Nitrobenzene-d5	2.376	82	750	9.207	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.92%#			
13) 2-Fluorobiphenyl	3.351	172	2094	10.129	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.01%#			
21) 2,4,6-Tribromophenol	4.173	330	241	8.694	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.43%#			
30) 4-Terphenyl-d14	5.484	244	2117	9.706	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.49%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	786M6	9.305	ng/ml	
5) n-nitrosodi-n-propylamine	2.301	70	541	9.466	ng/ml#	88
6) Hexachloroethane	2.348	117	370	10.177	ng/ml	95
9) Naphthalene	2.761	128	2730	10.057	ng/ml#	96
10) Hexachlorobutadiene	2.836	225	524	10.085	ng/ml	99
11) 2-Methylnaphthalene	3.142	142	1670	9.781	ng/ml	99
12) 1-Methylnaphthalene	3.195	142	1627	9.878	ng/ml	99
14) 2-Chloronaphthalene	3.411	162	1728	9.713	ng/ml	99
15) 2,6-Dinitrotoluene	3.611	165	337M4	23.458	ng/ml	
16) Acenaphthylene	3.642	152	2429	9.385	ng/ml	100
18) Acenaphthene	3.739	153	1837M6	9.920	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL4.D
Acq On : 25 Sep 2024 02:29 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1976347
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 25 18:06:50 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.848	165	351	25.691	ng/ml#	75
20) Fluorene	4.032	166	1994	9.749	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.079	198	146	32.942	ng/ml#	81
24) Hexachlorobenzene	4.350	284	709	9.902	ng/ml	98
25) Pentachlorophenol	4.469	266	200	12.924	ng/ml	96
26) Phenanthrene	4.572	178	3216M1	10.257	ng/ml	
27) Anthracene	4.603	178	2857M6	9.288	ng/ml	
28) Fluoranthene	5.254	202	3462	9.535	ng/ml	99
29) Pyrene	5.384	202	3661	9.535	ng/ml	100
32) Benzo[a]anthracene	6.102	228	7776	9.526	ng/ml#	86
33) 3,3'-Dichlorobenzene	6.097	252	1099	7.737	ng/ml#	1
34) Chrysene	6.119	228	3592	9.544	ng/ml	95
35) Bis(2-ethylhexyl)phtha...	6.136	149	1964	32.406	ng/ml	98
37) Benzo[b]fluoranthene	6.866	252	3433	9.317	ng/ml	99
38) Benzo[k]fluoranthene	6.890	252	3408M4	9.427	ng/ml	
39) Benzo[a]pyrene	7.141	252	2867	9.089	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.324	276	2713M6	8.747	ng/ml	
41) Dibenzo[a,h]anthracene	8.357	278	2704M6	9.226	ng/ml	
42) Benzo[g,h,i]perylene	8.636	276	2909	9.244	ng/ml	99

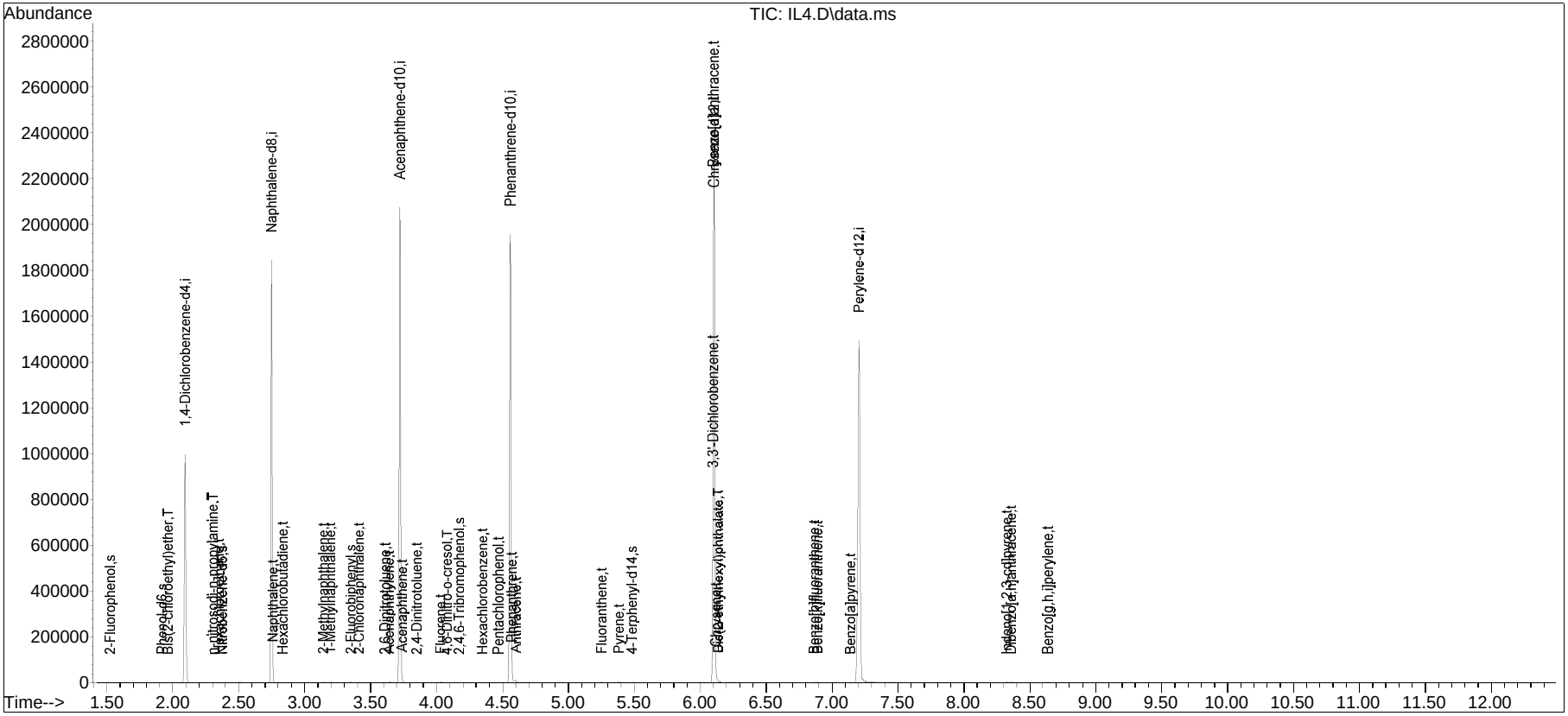
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL4.D
Acq On : 25 Sep 2024 02:29 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1976347
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 25 18:06:50 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

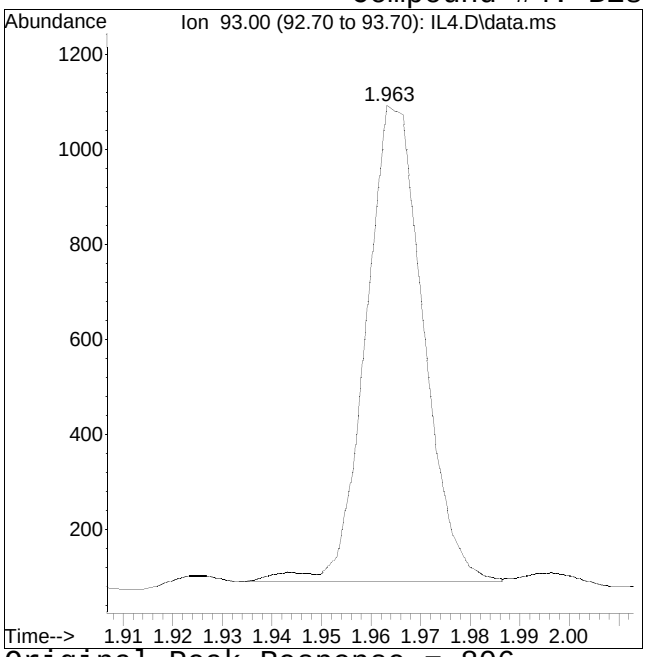
Sub List : Default - All compounds listedical\IL8.D•



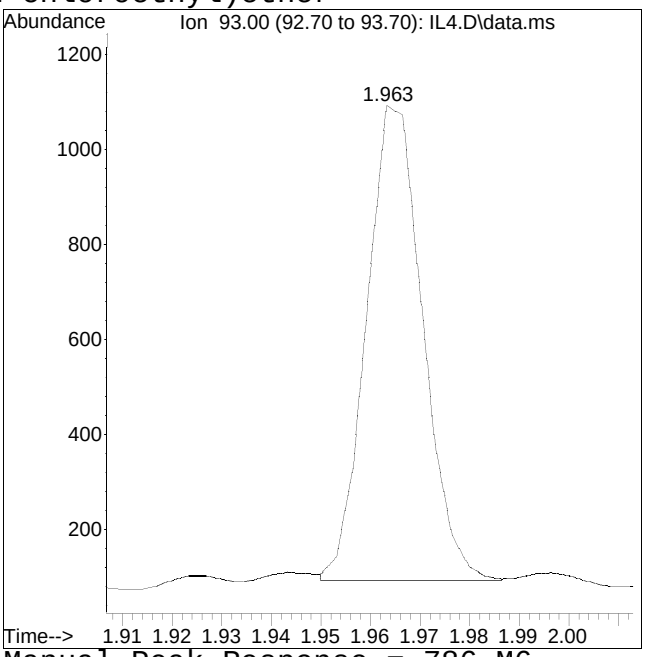
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 806



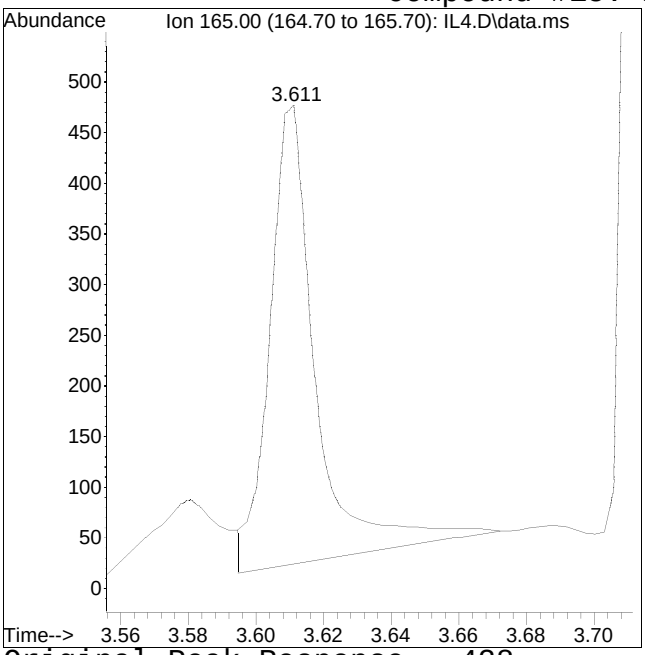
Manual Peak Response = 786 M6

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

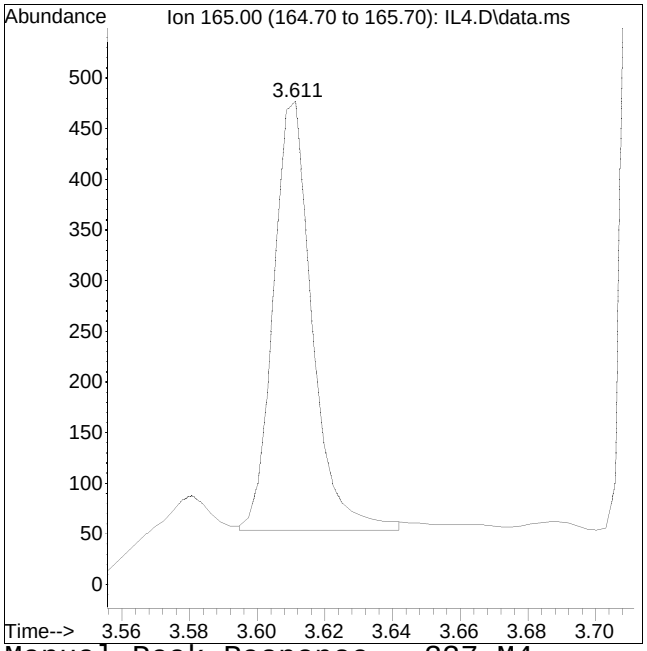
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 428



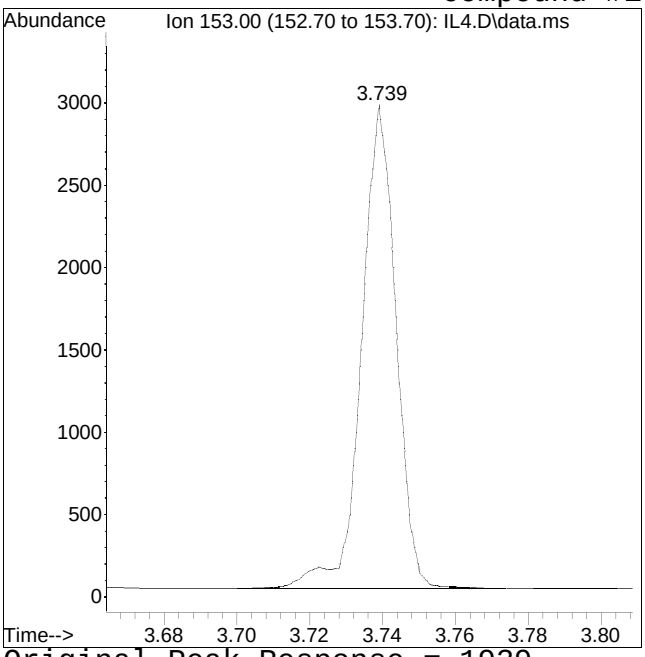
Manual Peak Response = 337 M4

M4 = Poor automated baseline construction.

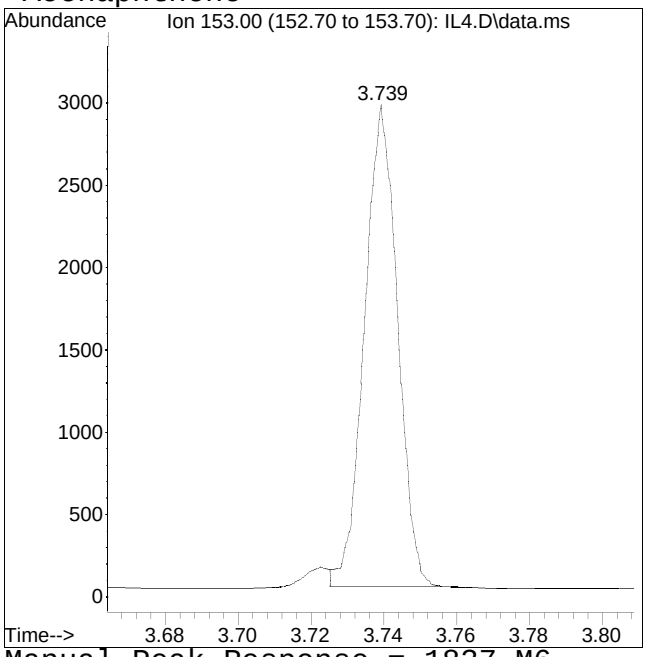
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #18: Acenaphthene



Original Peak Response = 1939



Manual Peak Response = 1837 M6

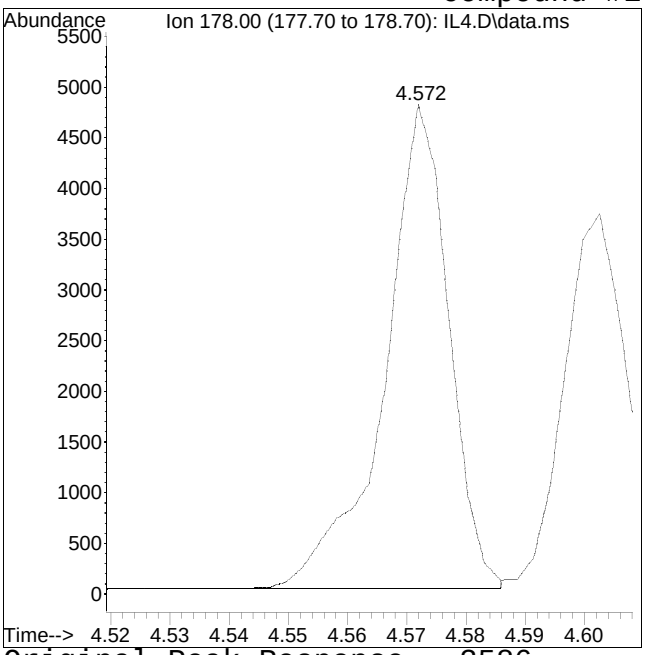
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

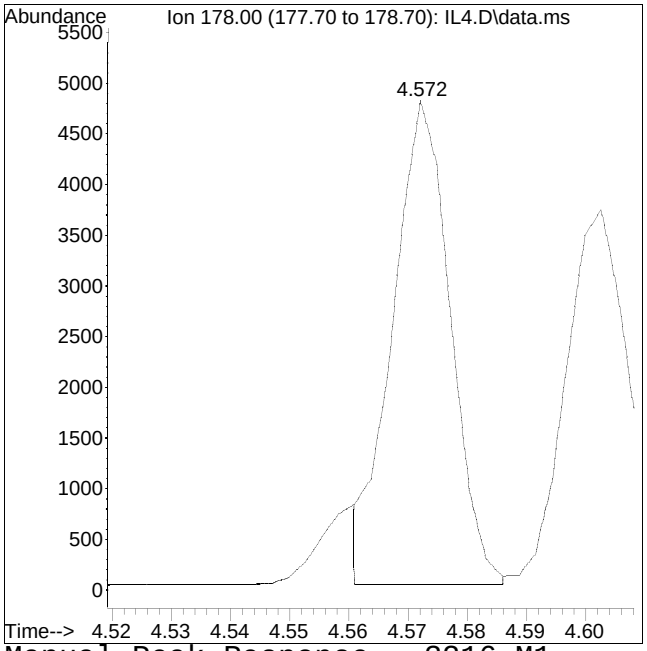
Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089

Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #26: Phenanthrene



Original Peak Response = 3586



Manual Peak Response = 3216 M1

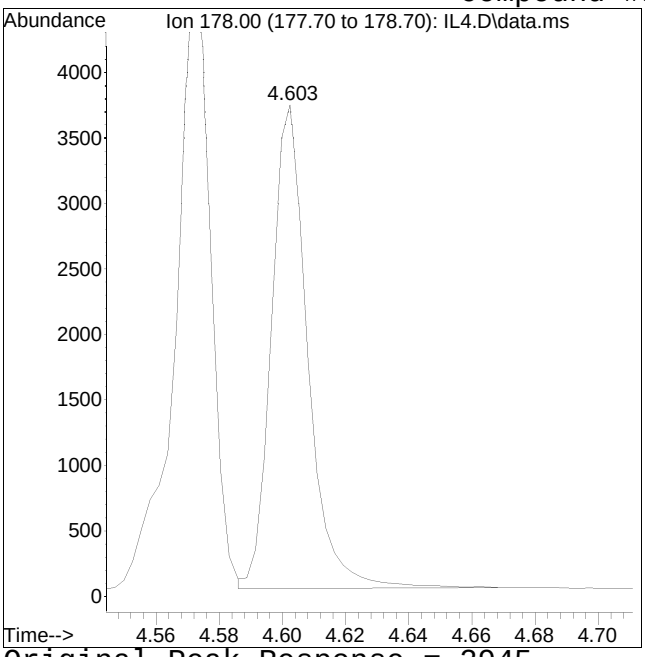
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

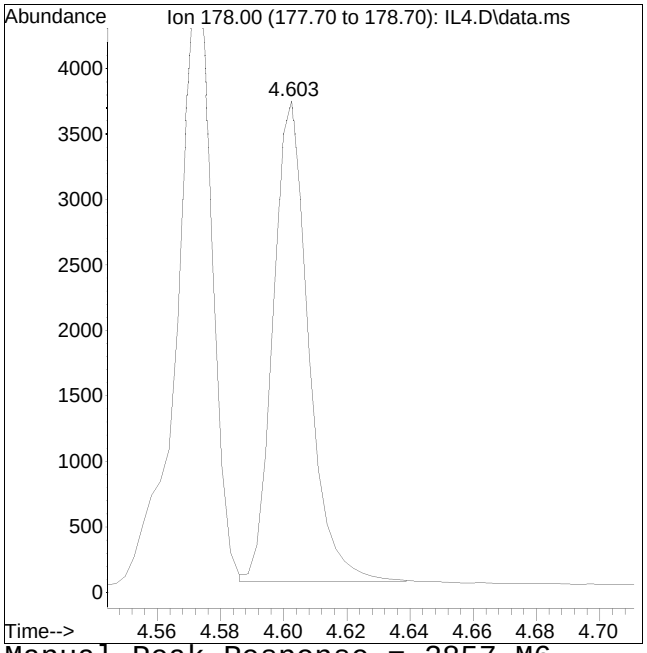
Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089

Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #27: Anthracene



Original Peak Response = 2945



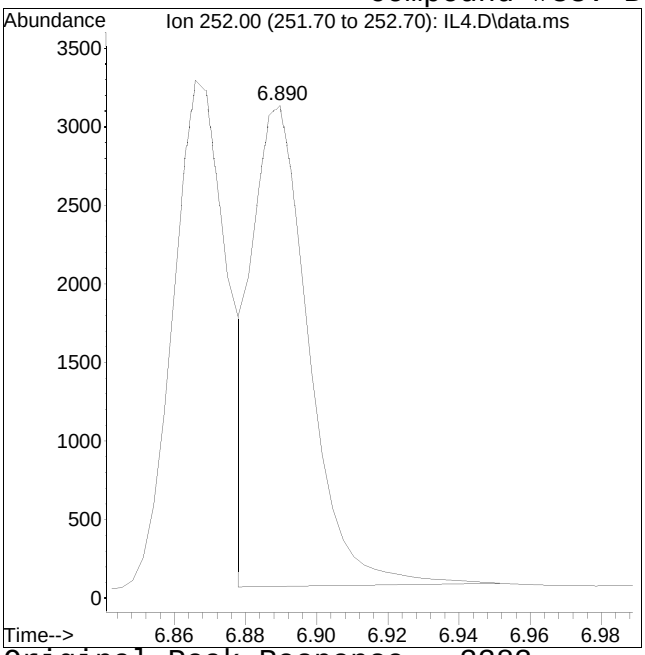
Manual Peak Response = 2857 M6

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

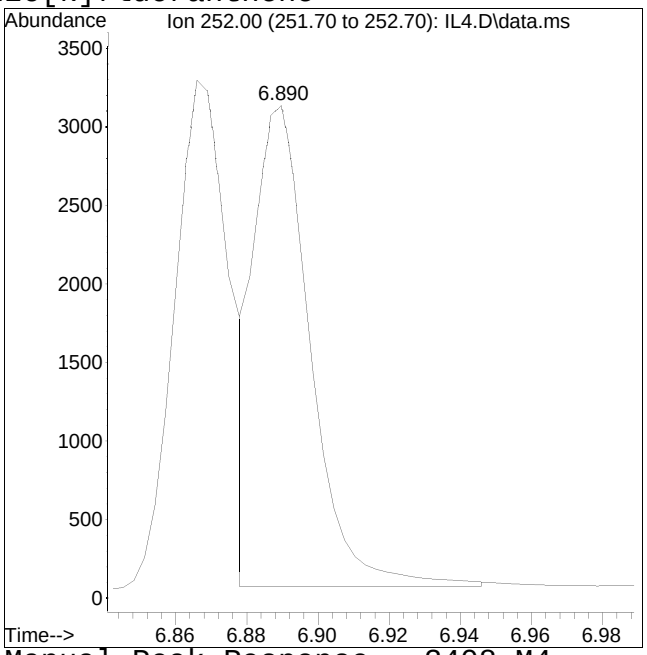
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 3383



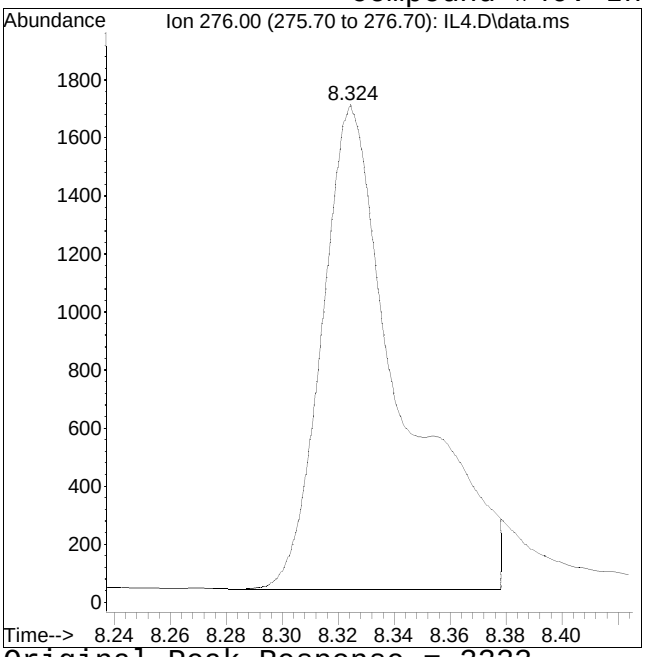
Manual Peak Response = 3408 M4

M4 = Poor automated baseline construction.

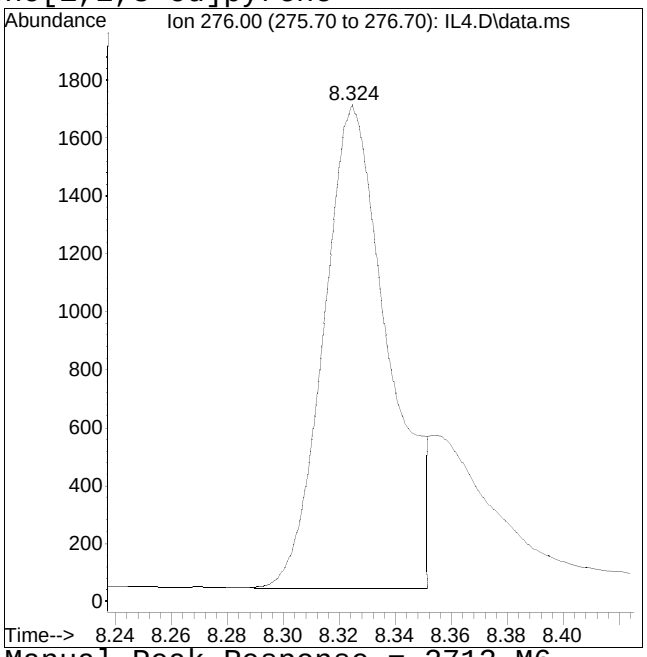
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 3333



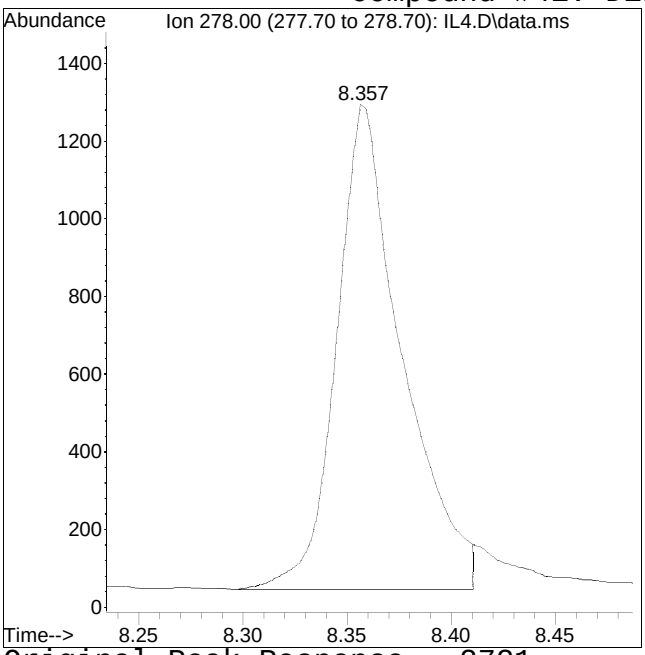
Manual Peak Response = 2713 M6

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

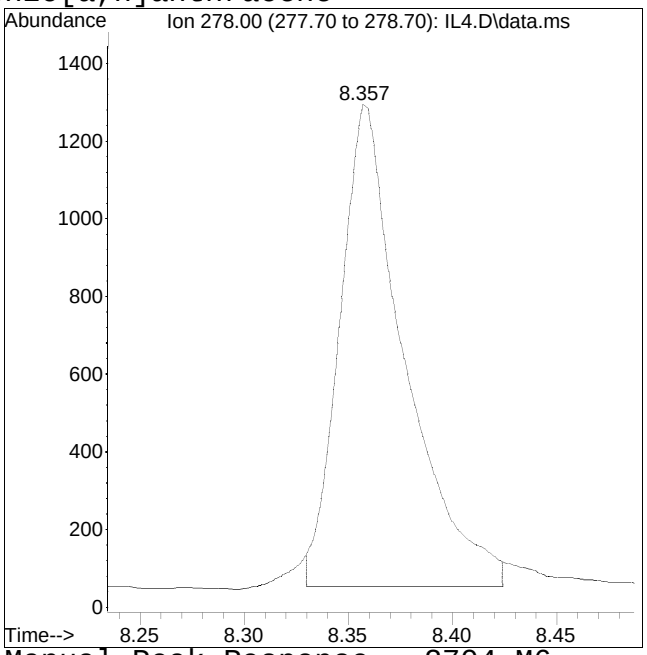
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 2721



Manual Peak Response = 2704 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL3.D
Acq On : 25 Sep 2024 02:45 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1976347
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 18:06:45 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.092	152	315427	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 100.55%			
8) Naphthalene-d8	2.750	136	1171081	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 98.82%			
17) Acenaphthene-d10	3.722	164	666477	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 98.84%			
22) Phenanthrene-d10	4.561	188	1341247	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 97.82%			
31) Chrysene-d12	6.099	240	1352874	4000.000	ng/ml	-0.01
Standard Area 1 = 1370492			Recovery = 98.71%			
36) Perylene-d12	7.197	264	1338167	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 93.04%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.531	112	434	4.976	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
3) Phenol-d6	1.920	99	493	4.816	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.379	82	399	4.611	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.46%#			
13) 2-Fluorobiphenyl	3.351	172	1111	4.997	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.50%#			
21) 2,4,6-Tribromophenol	4.172	330	120	4.025	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.20%#			
30) 4-Terphenyl-d14	5.486	244	1160	4.938	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.25%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.966	93	451	5.026	ng/ml	97
5) n-nitrosodi-n-propylamine	2.301	70	285	4.694	ng/ml	97
6) Hexachloroethane	2.348	117	200	5.179	ng/ml	94
9) Naphthalene	2.761	128	1509M4	5.169	ng/ml	
10) Hexachlorobutadiene	2.836	225	294	5.262	ng/ml	94
11) 2-Methylnaphthalene	3.142	142	881	4.798	ng/ml	96
12) 1-Methylnaphthalene	3.198	142	891	5.030	ng/ml	95
14) 2-Chloronaphthalene	3.414	162	945	4.939	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D. d		
16) Acenaphthylene	3.642	152	1311	4.710	ng/ml	99
18) Acenaphthene	3.739	153	1022M6	5.132	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL3.D
Acq On : 25 Sep 2024 02:45 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1976347
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 18:06:45 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.035	166	1076	4.892	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.349	284	380	4.928	ng/ml	96
25) Pentachlorophenol	4.469	266	131M6	10.117	ng/ml	
26) Phenanthrene	4.572	178	1728M6	5.118	ng/ml	
27) Anthracene	4.602	178	1605M6	4.845	ng/ml	
28) Fluoranthene	5.257	202	1892	4.839	ng/ml	98
29) Pyrene	5.383	202	2001	4.839	ng/ml	100
32) Benzo[a]anthracene	6.099	228	6225M6	5.314	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.114	228	1617M3	4.218	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.131	149	1264	29.456	ng/ml	99
37) Benzo[b]fluoranthene	6.862	252	1726	4.671	ng/ml	99
38) Benzo[k]fluoranthene	6.886	252	1750M4	4.827	ng/ml	
39) Benzo[a]pyrene	7.138	252	1427	4.511	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.324	276	1356M6	4.360	ng/ml	
41) Dibenzo[a,h]anthracene	8.359	278	1323M4	4.501	ng/ml	
42) Benzo[g,h,i]perylene	8.633	276	1422	4.506	ng/ml	100

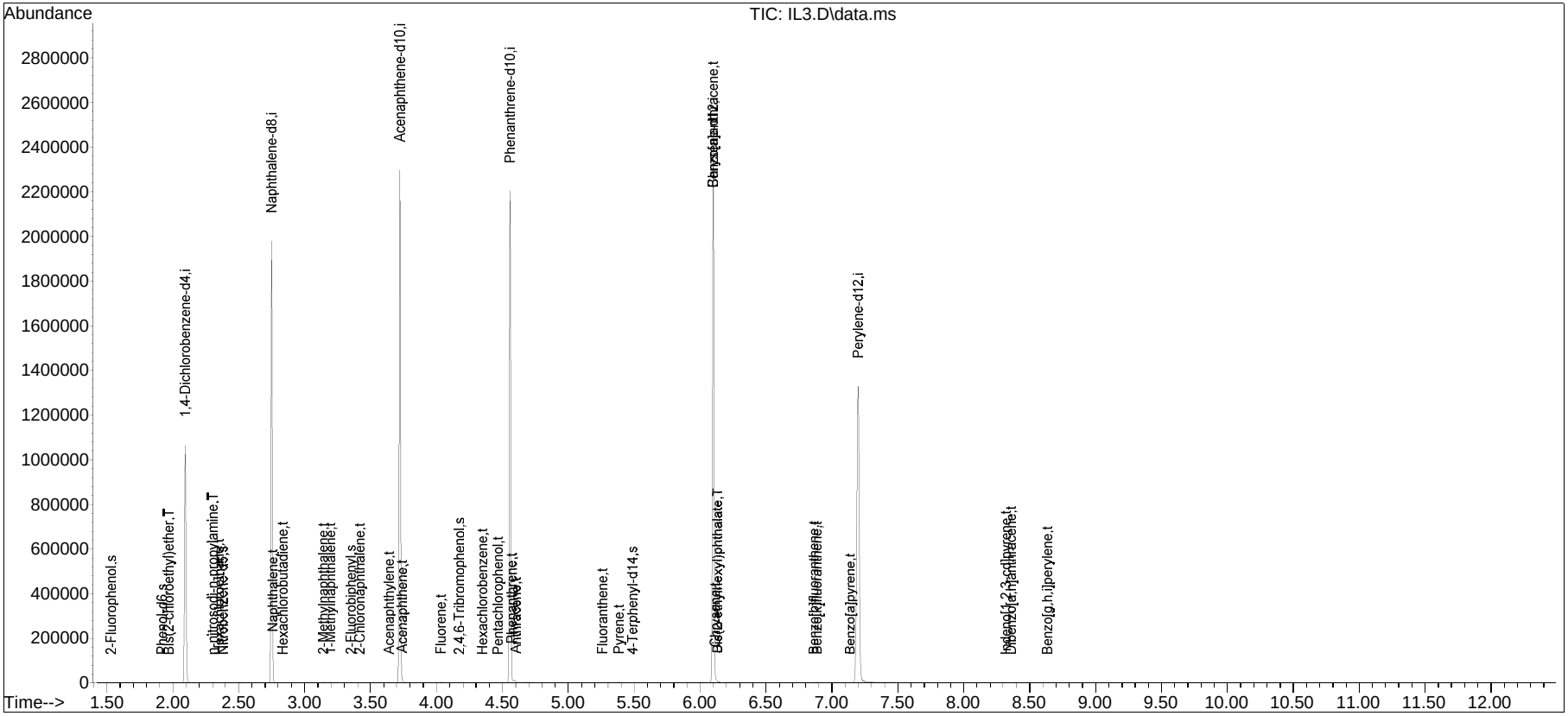
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL3.D
Acq On : 25 Sep 2024 02:45 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1976347
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 18:06:45 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

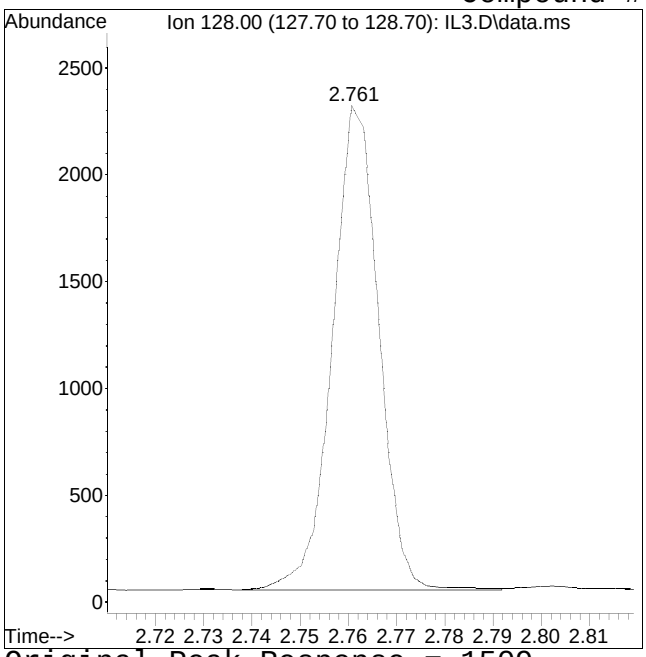
Sub List : Default - All compounds listedical\IL8.D•



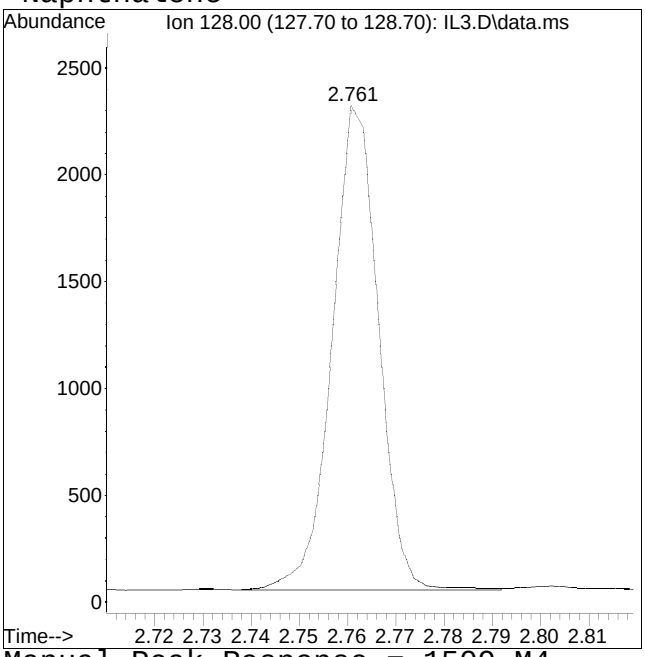
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #9: Naphthalene



Original Peak Response = 1509



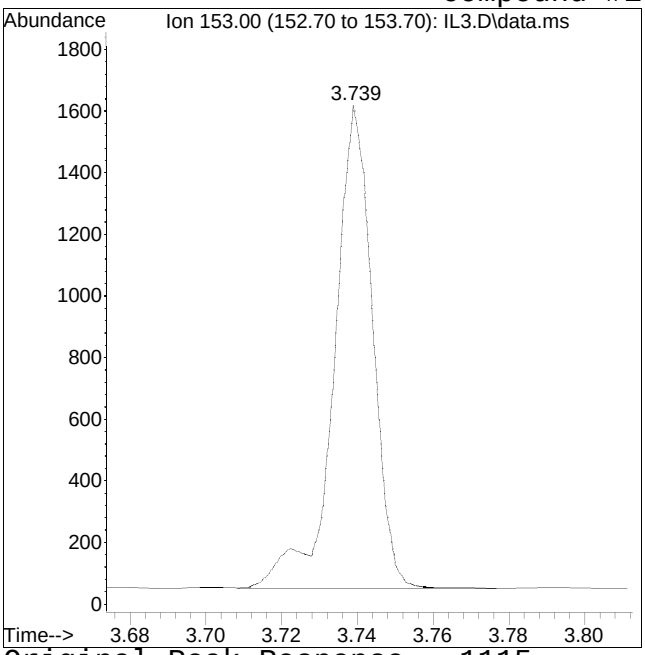
Manual Peak Response = 1509 M4

M4 = Poor automated baseline construction.

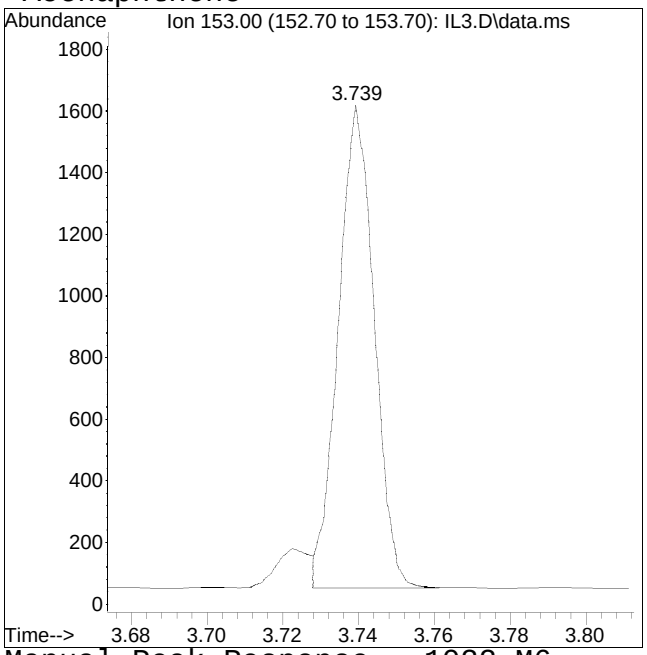
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #18: Acenaphthene



Original Peak Response = 1115



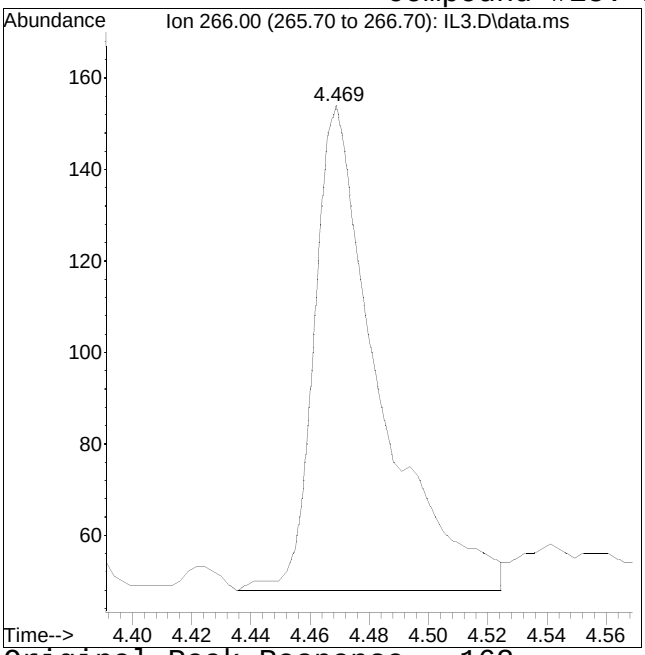
Manual Peak Response = 1022 M6

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

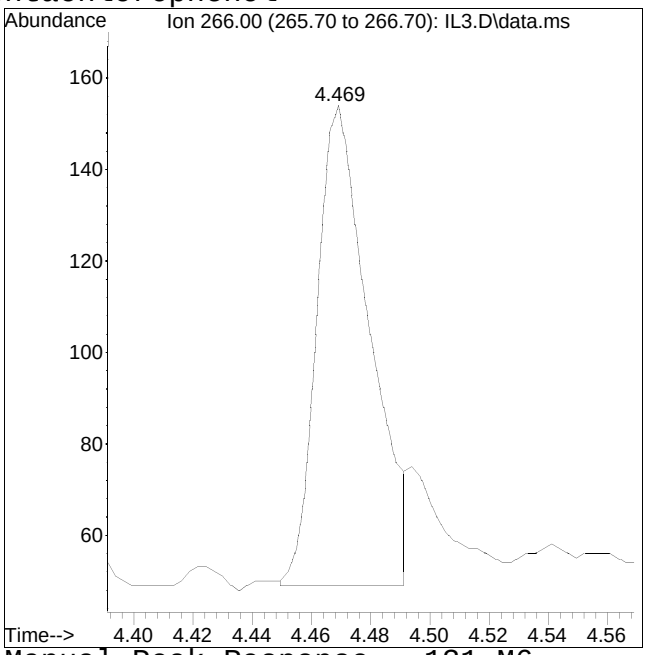
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #25: Pentachlorophenol



Original Peak Response = 162



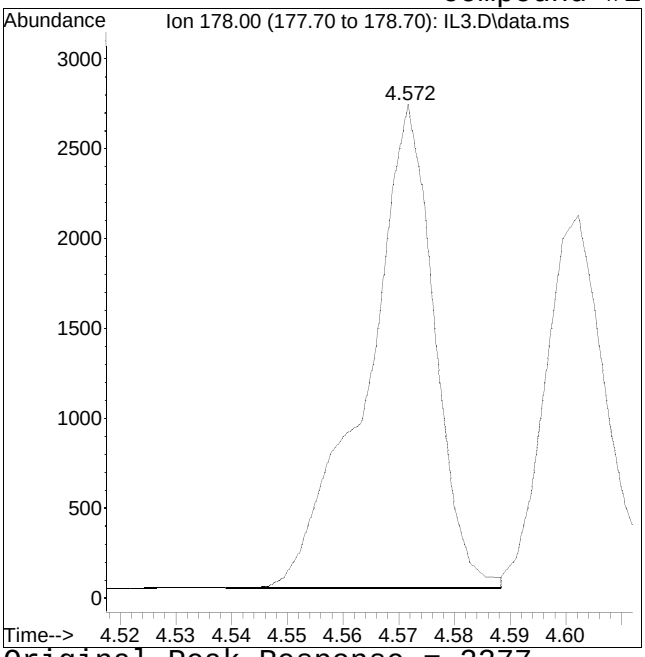
Manual Peak Response = 131 M6

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

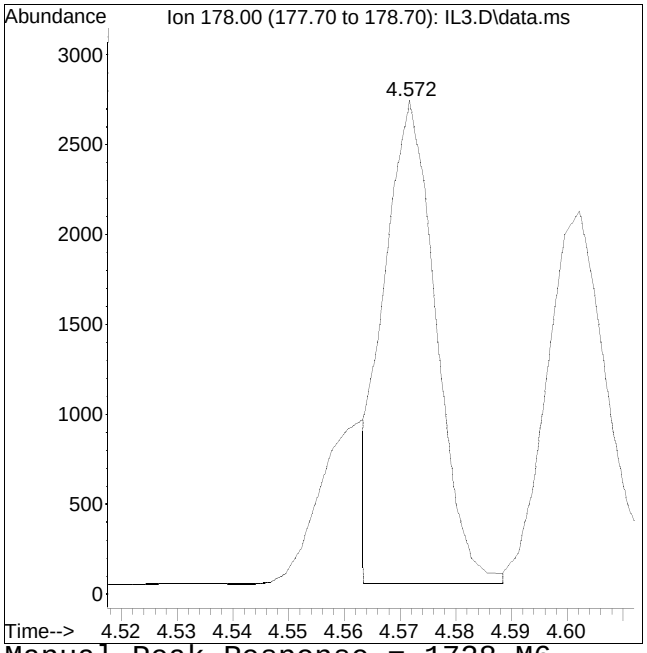
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #26: Phenanthrene



Original Peak Response = 2277



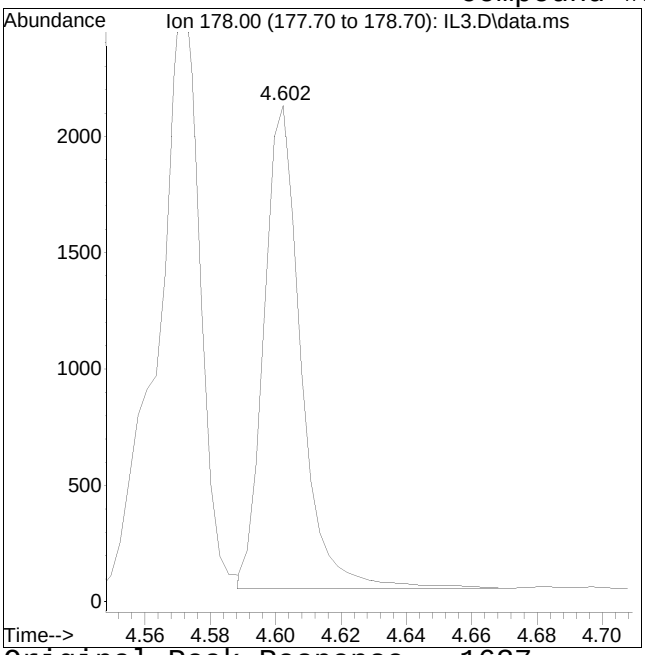
Manual Peak Response = 1728 M6

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

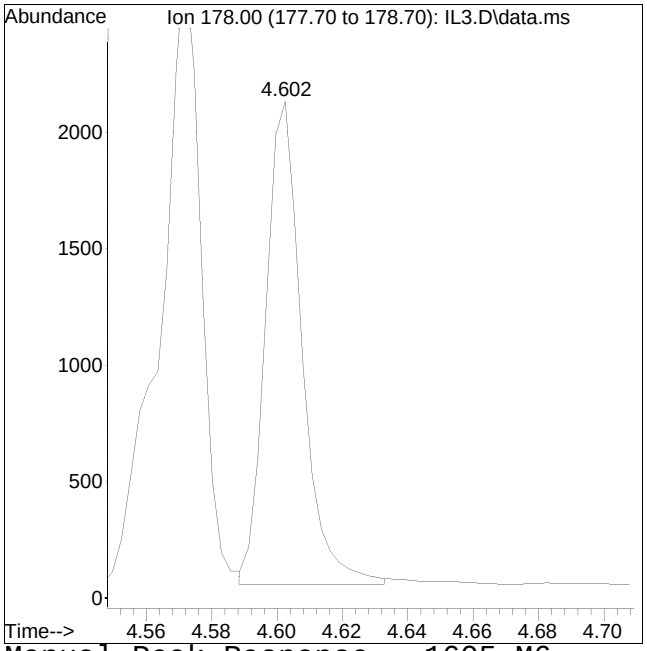
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #27: Anthracene



Original Peak Response = 1637



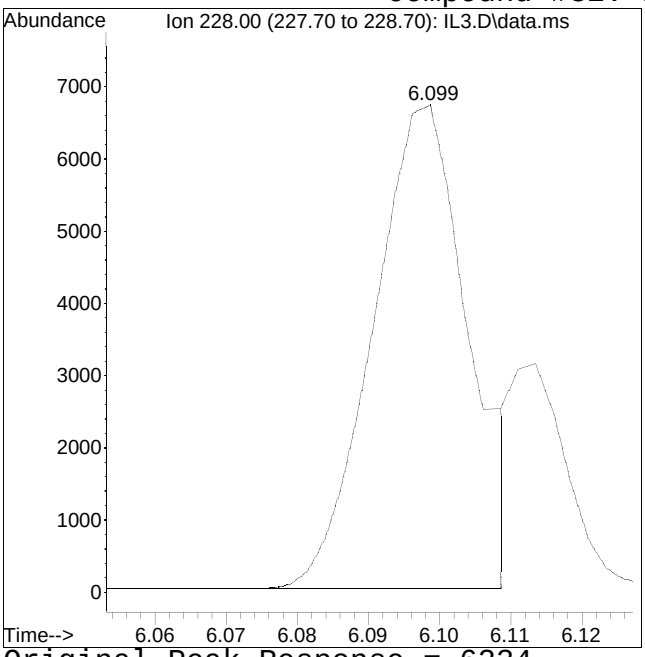
Manual Peak Response = 1605 M6

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

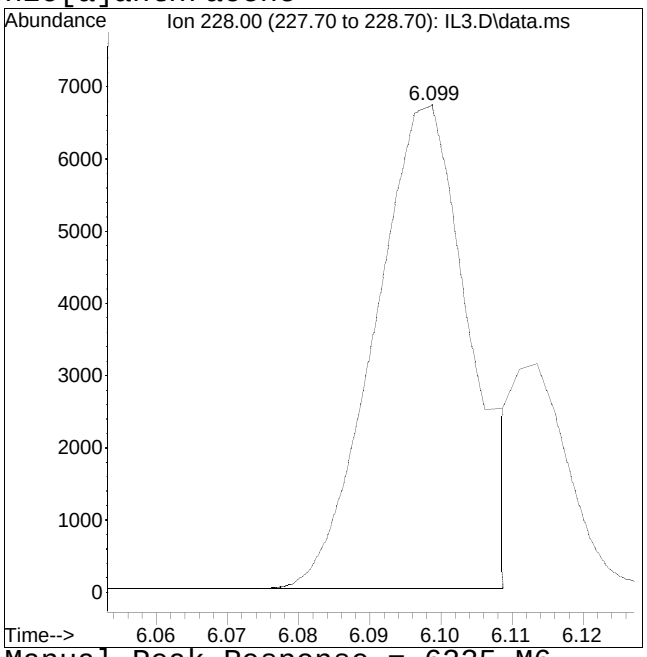
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 6234



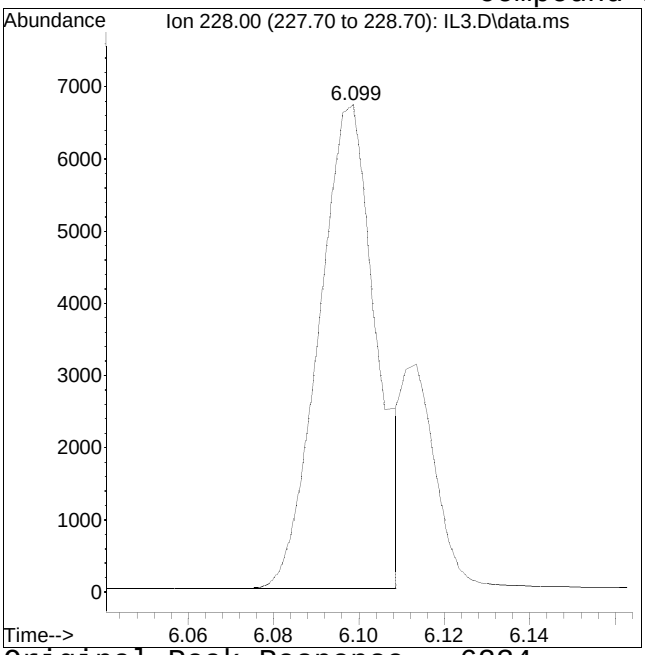
Manual Peak Response = 6225 M6

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

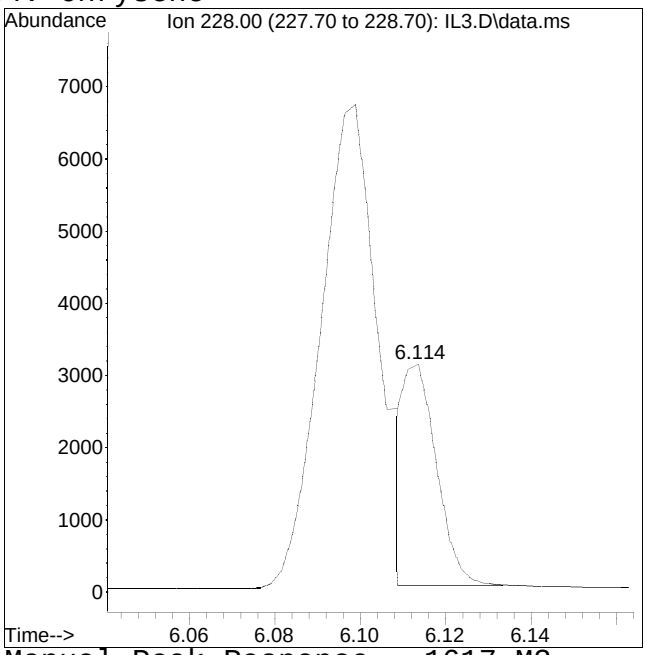
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #34: Chrysene



Original Peak Response = 6234



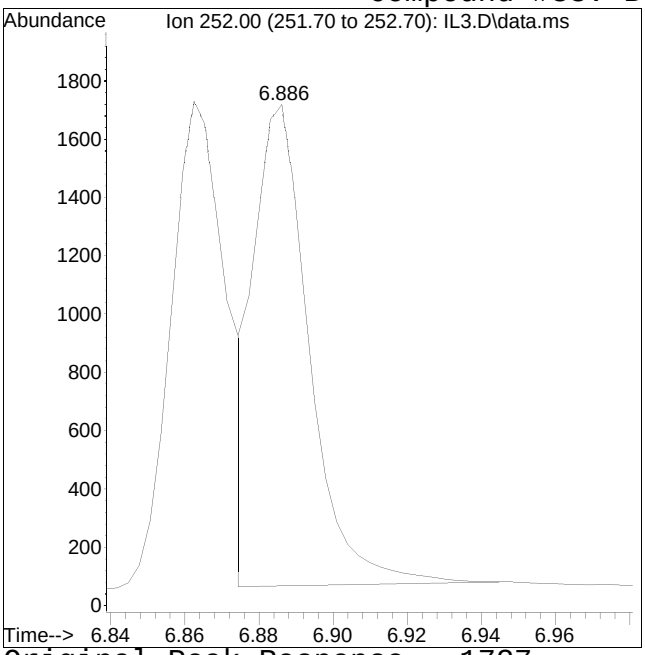
Manual Peak Response = 1617 M3

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

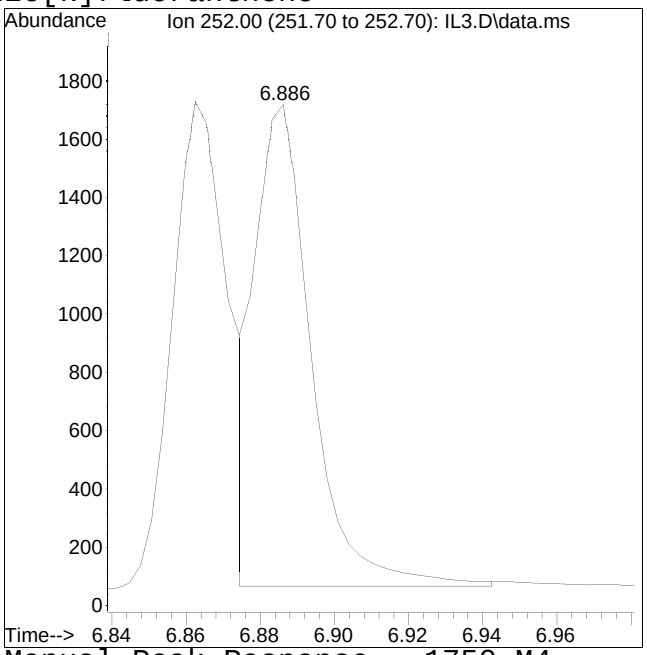
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 1727



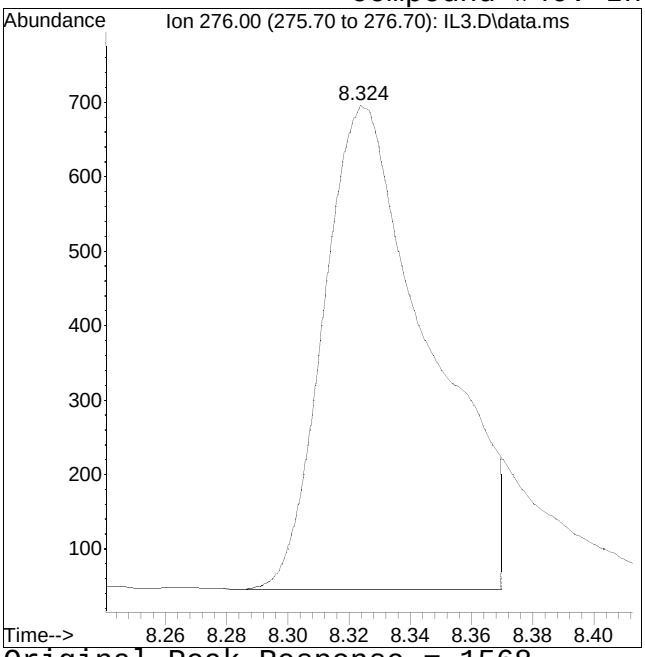
Manual Peak Response = 1750 M4

M4 = Poor automated baseline construction.

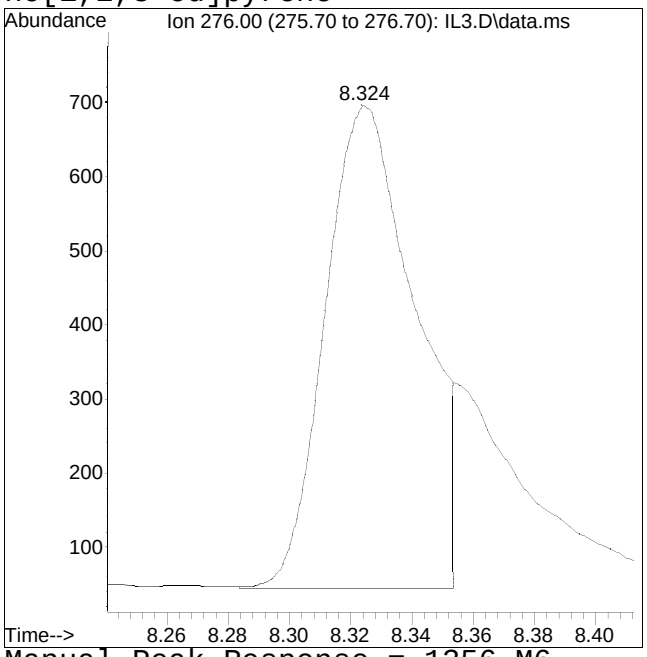
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 1568



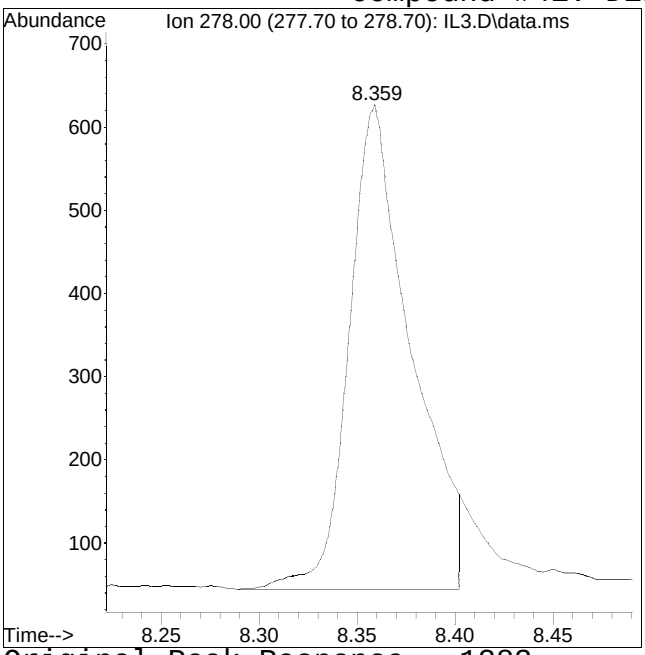
Manual Peak Response = 1356 M6

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

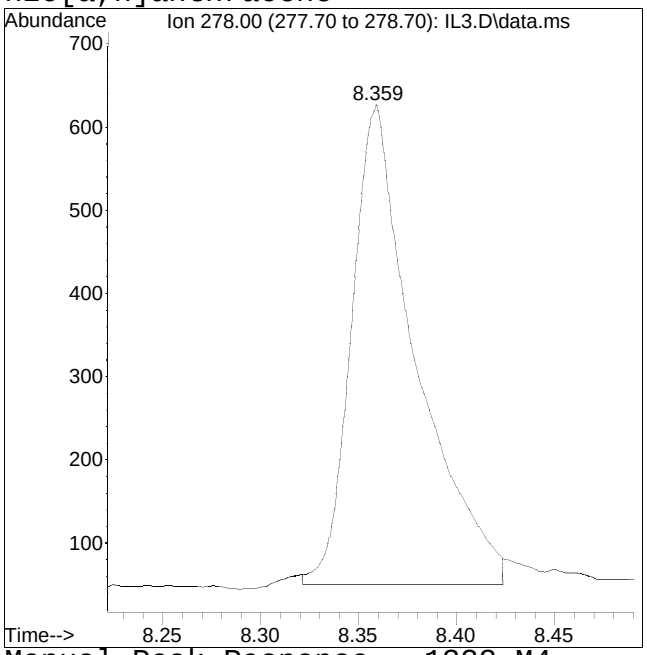
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1283



Manual Peak Response = 1323 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL2.D
Acq On : 25 Sep 2024 03:02 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1976347
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 18:06:41 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	324280	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 103.37%			
8) Naphthalene-d8	2.751	136	1203389	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 101.54%			
17) Acenaphthene-d10	3.724	164	679761	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 100.81%			
22) Phenanthrene-d10	4.559	188	1374775	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 100.26%			
31) Chrysene-d12	6.095	240	1388979	4000.000	ng/ml	-0.01
Standard Area 1 = 1370492			Recovery = 101.35%			
36) Perylene-d12	7.194	264	1371533	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 95.36%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.531	112	177	1.974	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
3) Phenol-d6	1.923	99	212	2.014	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
7) Nitrobenzene-d5	2.379	82	162	1.821	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.18%#			
13) 2-Fluorobiphenyl	3.353	172	493	2.158	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.22%#			
21) 2,4,6-Tribromophenol	4.176	330	55M6	1.809	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.09%#			
30) 4-Terphenyl-d14	5.485	244	511	2.122	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.11%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.966	93	216	2.341	ng/ml	83
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.764	128	625M4	2.084	ng/ml	
10) Hexachlorobutadiene	2.837	225	117	2.038	ng/ml	90
11) 2-Methylnaphthalene	3.144	142	379	2.009	ng/ml	98
12) 1-Methylnaphthalene	3.197	142	378	2.077	ng/ml	95
14) 2-Chloronaphthalene	3.416	162	401	2.040	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.643	152	559	1.954	ng/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL2.D
Acq On : 25 Sep 2024 03:02 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1976347
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 18:06:41 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.740	153	422	2.078	ng/ml	87
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.036	166	449	2.001	ng/ml	93
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.351	284	168	2.126	ng/ml	97
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.573	178	736M6	2.127	ng/ml	
27) Anthracene	4.601	178	708	2.085	ng/ml	98
28) Fluoranthene	5.257	202	849	2.118	ng/ml	99
29) Pyrene	5.384	202	883	2.083	ng/ml	98
32) Benzo[a]anthracene	6.095	228	4984M6	1.907	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.107	228	724M3	1.840	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.124	149	751	27.323	ng/ml	98
37) Benzo[b]fluoranthene	6.860	252	701	1.851	ng/ml	98
38) Benzo[k]fluoranthene	6.881	252	756M1	2.035	ng/ml	
39) Benzo[a]pyrene	7.132	252	606	1.869	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	8.324	276	570M6	1.788	ng/ml	
41) Dibenzo[a,h]anthracene	8.356	278	546M4	1.813	ng/ml	
42) Benzo[g,h,i]perylene	8.633	276	578	1.787	ng/ml	98

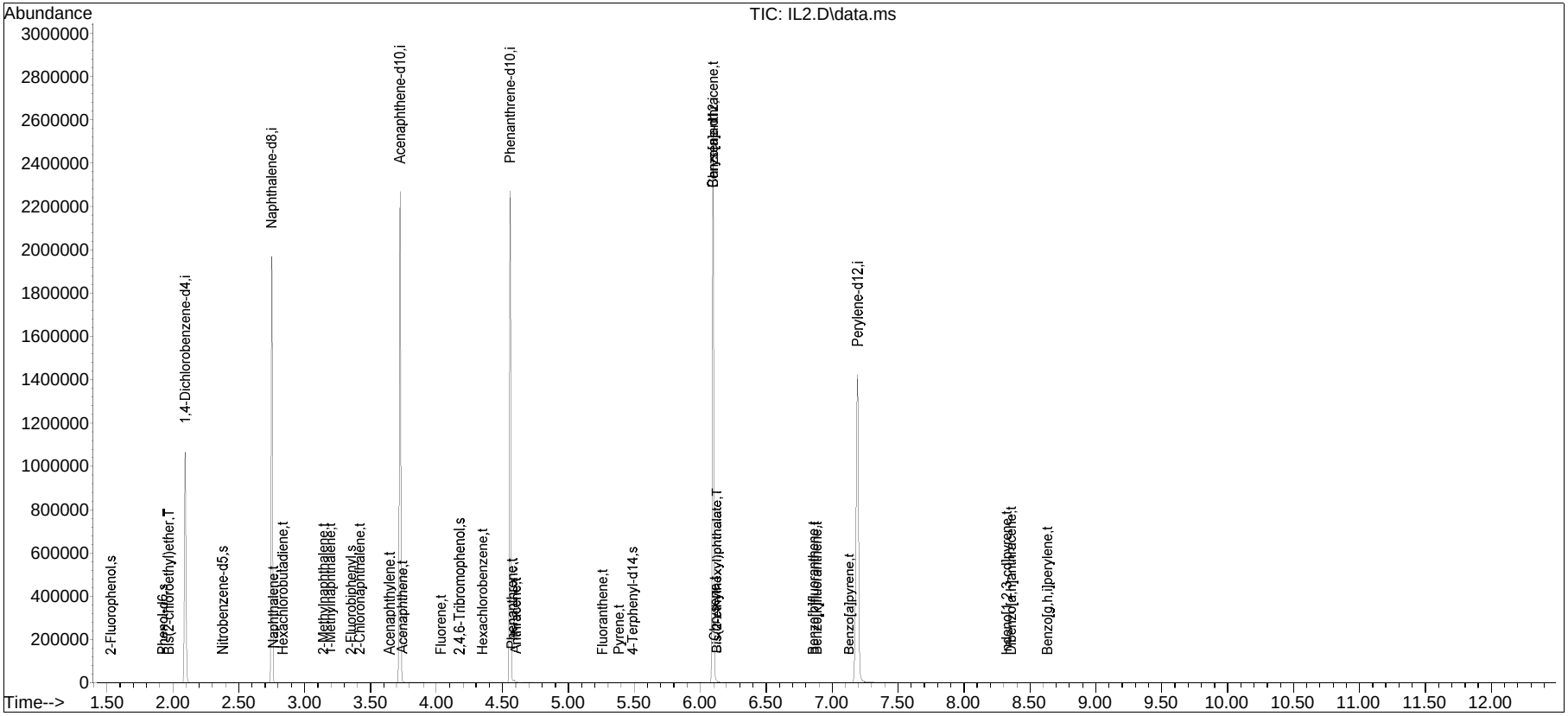
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL2.D
Acq On : 25 Sep 2024 03:02 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1976347
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 18:06:41 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

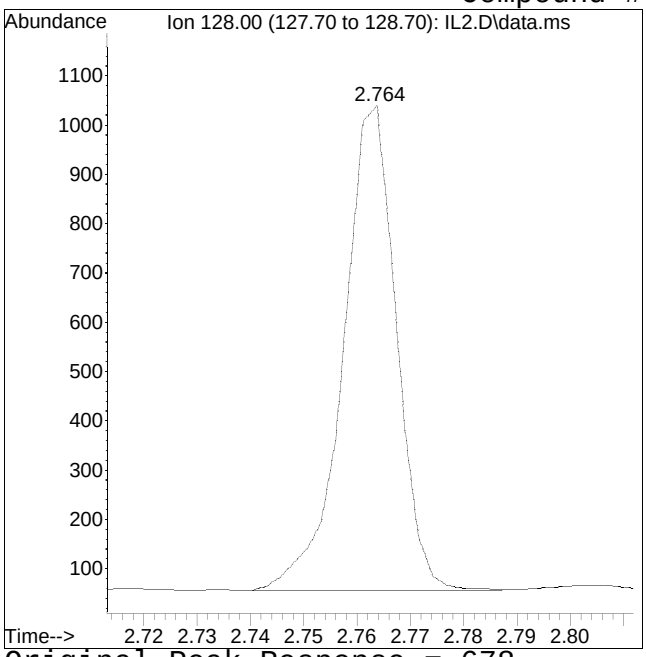
Sub List : Default - All compounds listedical\IL8.D•



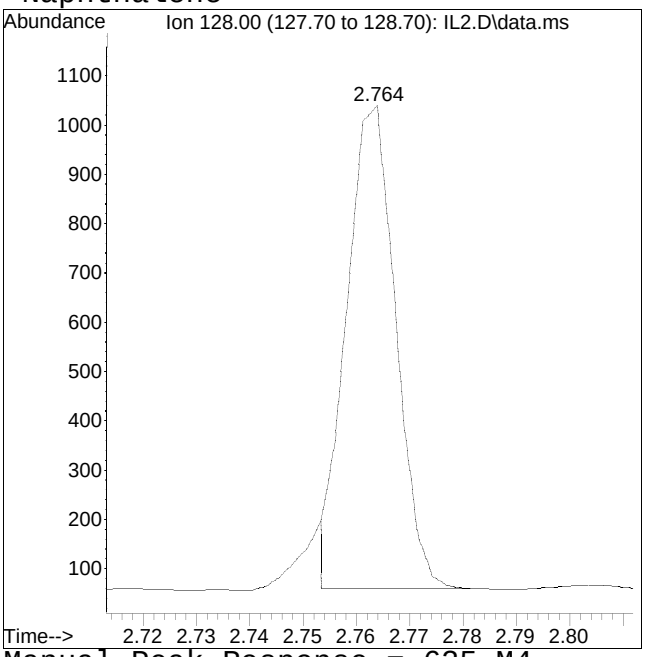
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #9: Naphthalene



Original Peak Response = 678



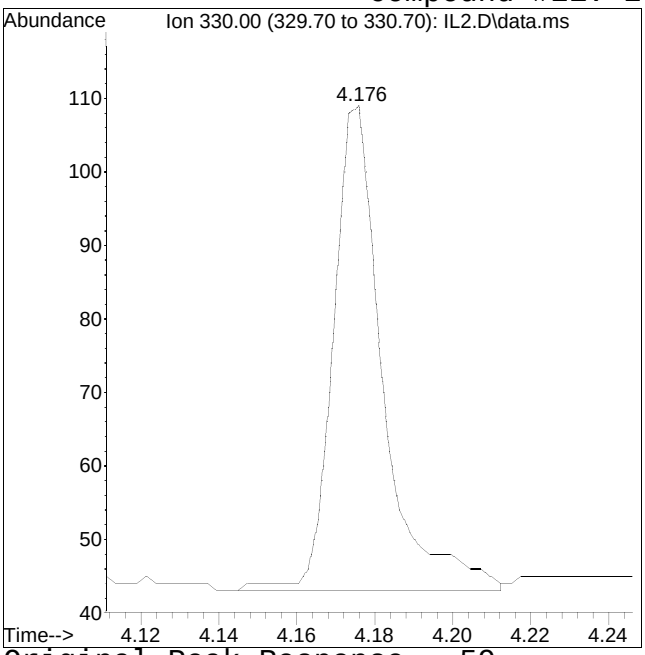
Manual Peak Response = 625 M4

M4 = Poor automated baseline construction.

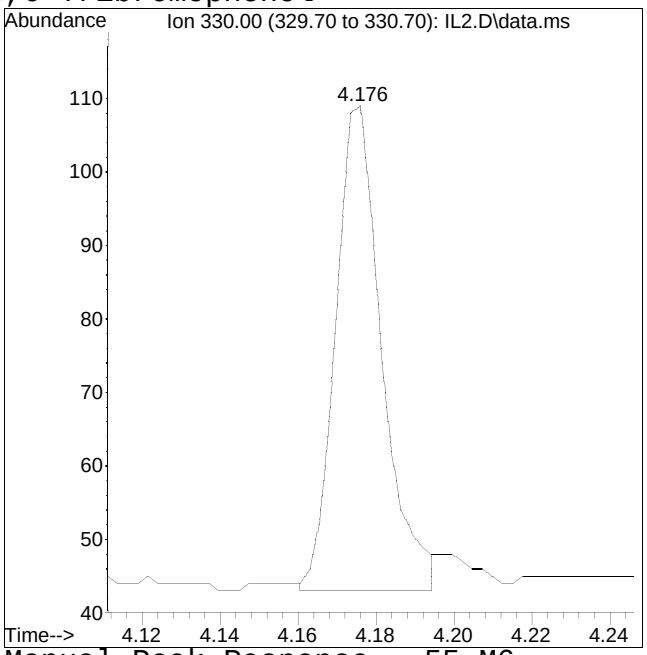
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 59



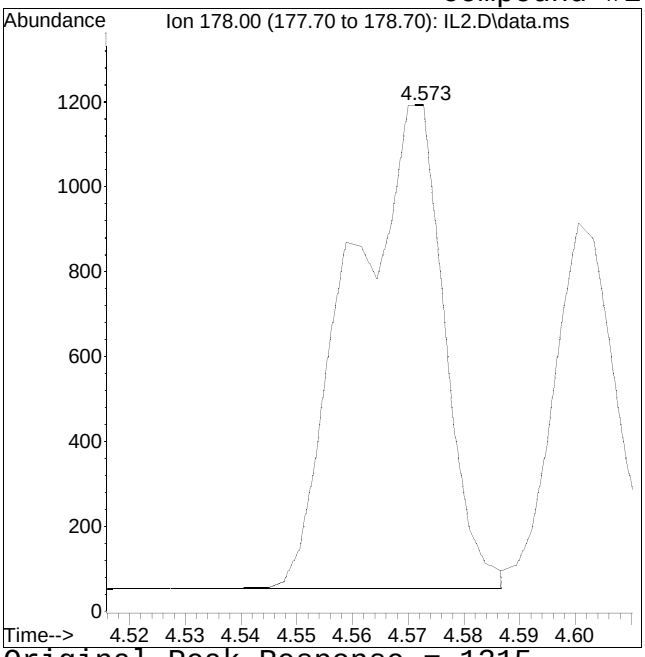
Manual Peak Response = 55 M6

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

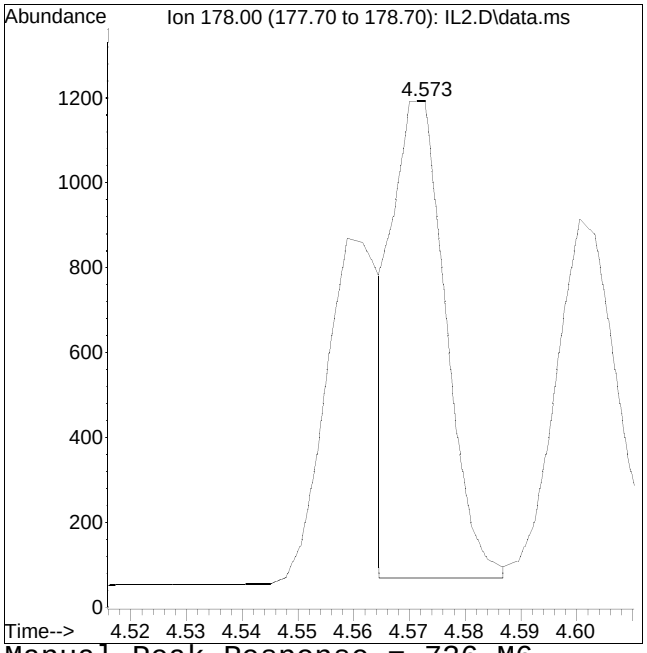
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #26: Phenanthrene



Original Peak Response = 1315



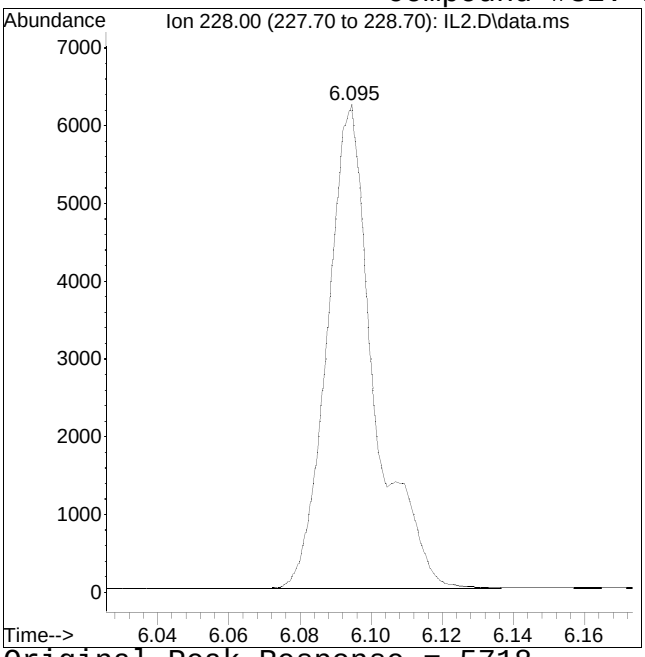
Manual Peak Response = 736 M6

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

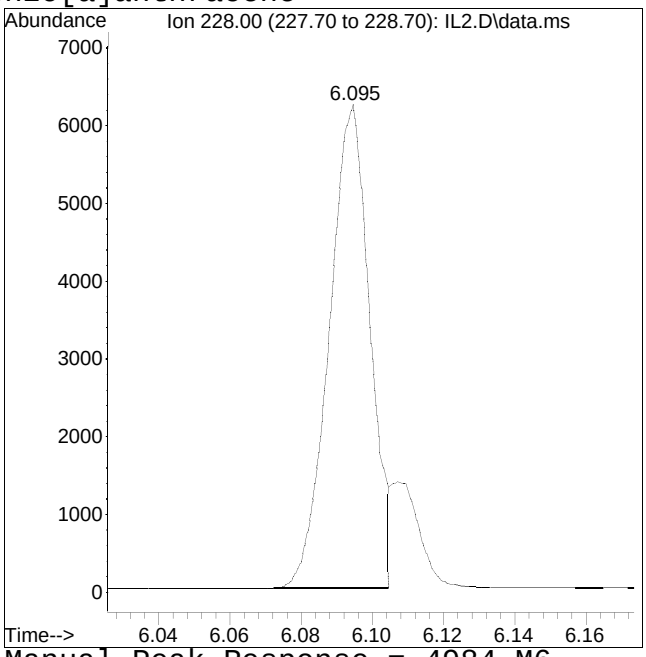
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 5718



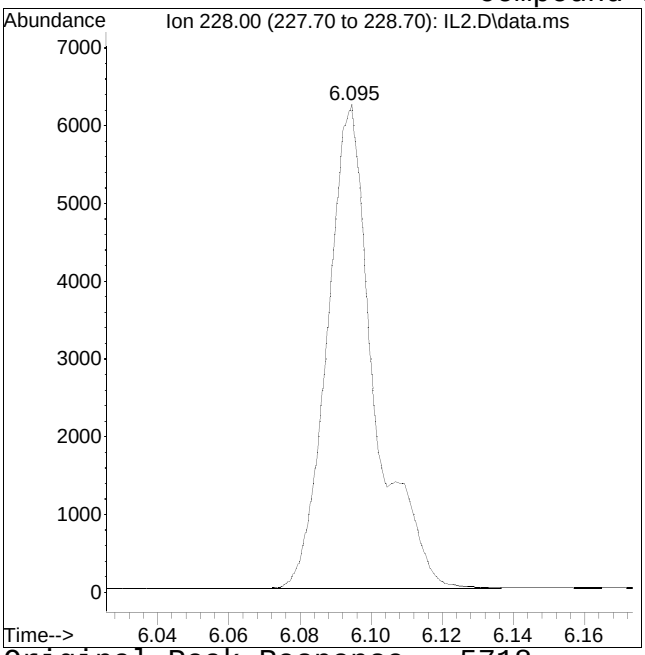
Manual Peak Response = 4984 M6

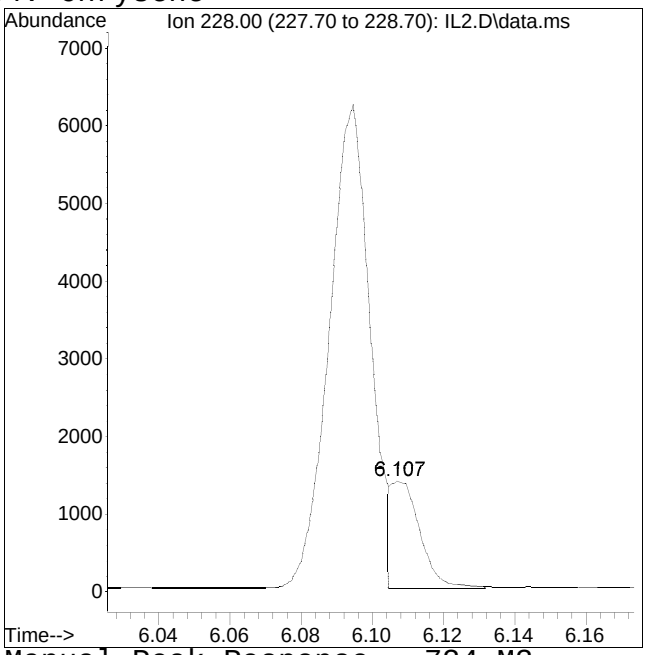
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #34: Chrysene





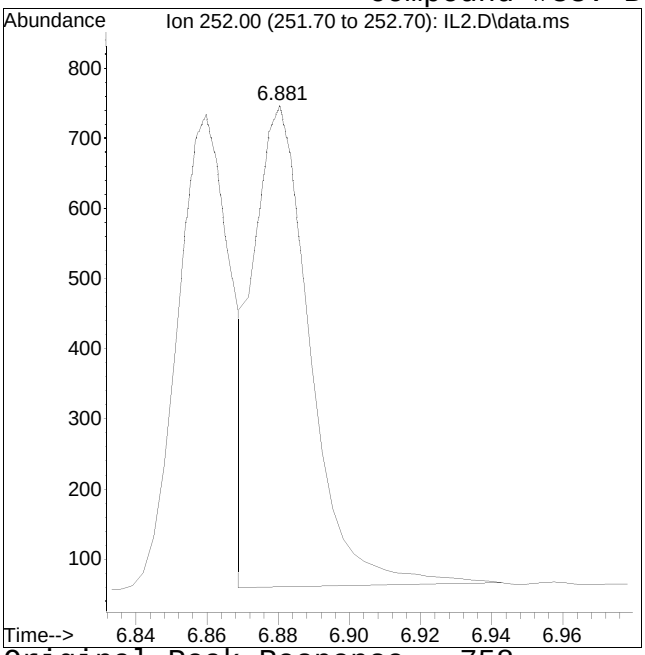
Original Peak Response = 5718 Manual Peak Response = 724 M3

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

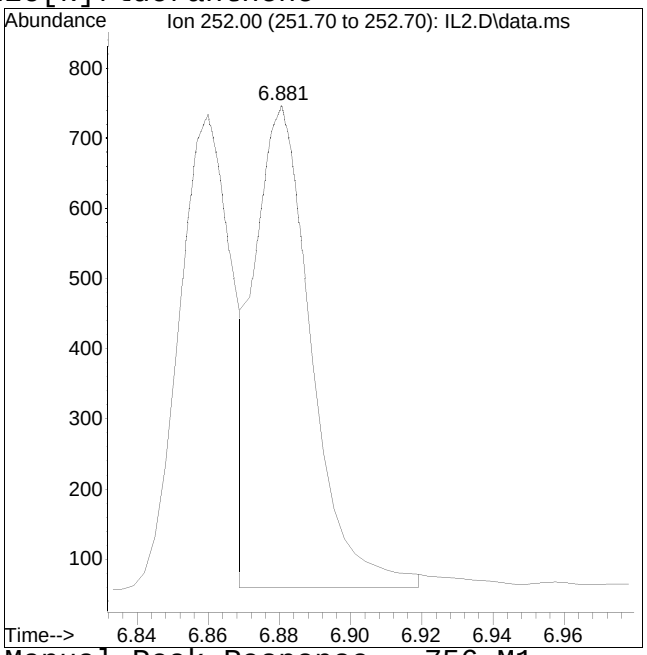
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 758



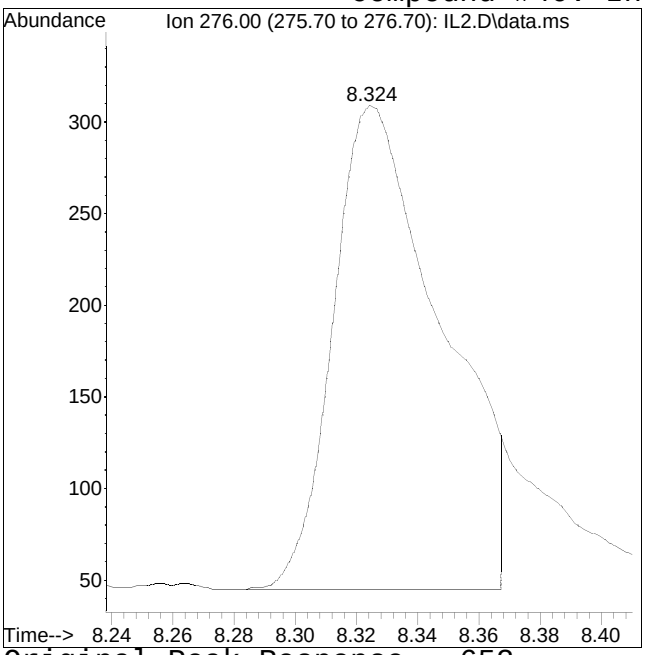
Manual Peak Response = 756 M1

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

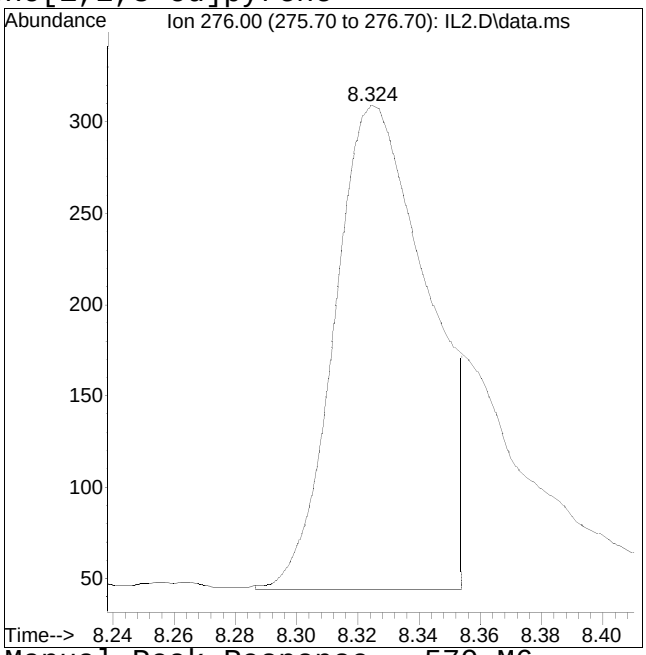
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 652



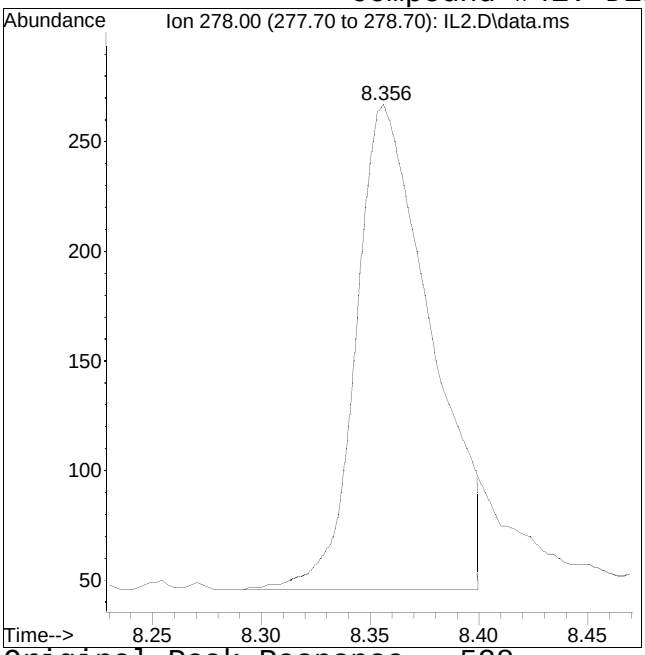
Manual Peak Response = 570 M6

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

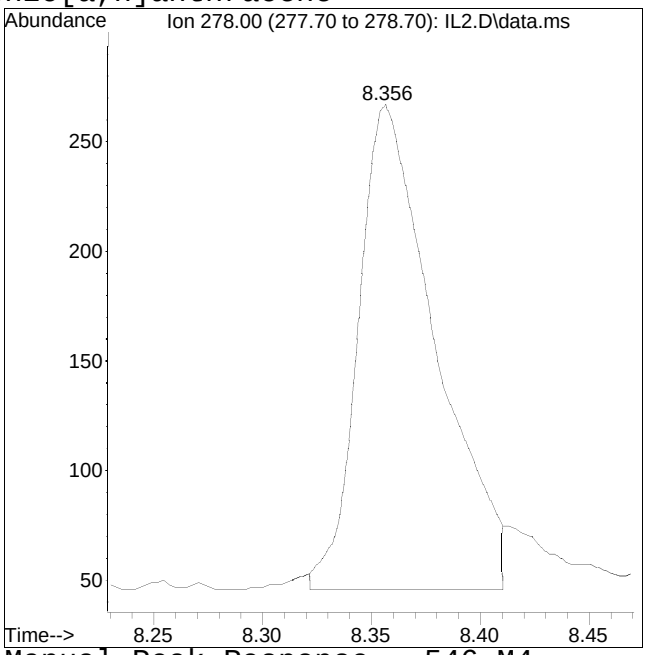
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 528



Manual Peak Response = 546 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL1.D
Acq On : 25 Sep 2024 03:18 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1976347
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 18:06:33 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	313124	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 99.81%			
8) Naphthalene-d8	2.753	136	1164023	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 98.22%			
17) Acenaphthene-d10	3.722	164	654155	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 97.01%			
22) Phenanthrene-d10	4.558	188	1326269	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 96.72%			
31) Chrysene-d12	6.092	240	1368347	4000.000	ng/ml	-0.02
Standard Area 1 = 1370492			Recovery = 99.84%			
36) Perylene-d12	7.188	264	1365742	4000.000	ng/ml	-0.01
Standard Area 1 = 1438322			Recovery = 94.95%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.531	112	83	0.959	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
3) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	2.382	82	84	0.978	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.10%#			
13) 2-Fluorobiphenyl	3.354	172	206M6	0.932	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.09%#			
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.484	244	278M6	1.197	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.06%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.763	128	317M4	1.093	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.145	142	177	0.970	ng/ml	97
12) 1-Methylnaphthalene	3.198	142	185	1.051	ng/ml	95
14) 2-Chloronaphthalene	3.417	162	182	0.957	ng/ml	97
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL1.D
Acq On : 25 Sep 2024 03:18 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1976347
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 18:06:33 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.642	152	277	1.001	ng/ml	95
18) Acenaphthene	3.739	153	190M6	0.972	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.035	166	214	0.991	ng/ml	86
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.350	284	82M4	1.075	ng/ml	
25) Pentachlorophenol	0.000		0	N.D. d		
26) Phenanthrene	4.572	178	305M3	0.913	ng/ml	
27) Anthracene	4.600	178	353	1.078	ng/ml	100
28) Fluoranthene	5.257	202	407	1.053	ng/ml	96
29) Pyrene	5.384	202	459	1.123	ng/ml	98
32) Benzo[a]anthracene	6.092	228	4564M6	1.057	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	6.102	228	361M3	0.931	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.121	149	675	27.066	ng/ml	99
37) Benzo[b]fluoranthene	6.854	252	360	0.955	ng/ml	98
38) Benzo[k]fluoranthene	6.878	252	356M6	0.962	ng/ml	
39) Benzo[a]pyrene	7.129	252	295	0.914	ng/ml	95
40) Indeno[1,2,3-cd]pyrene	8.324	276	235M6	0.740	ng/ml	
41) Dibenzo[a,h]anthracene	8.365	278	256M1	0.853	ng/ml	
42) Benzo[g,h,i]perylene	8.628	276	307M1	0.953	ng/ml	

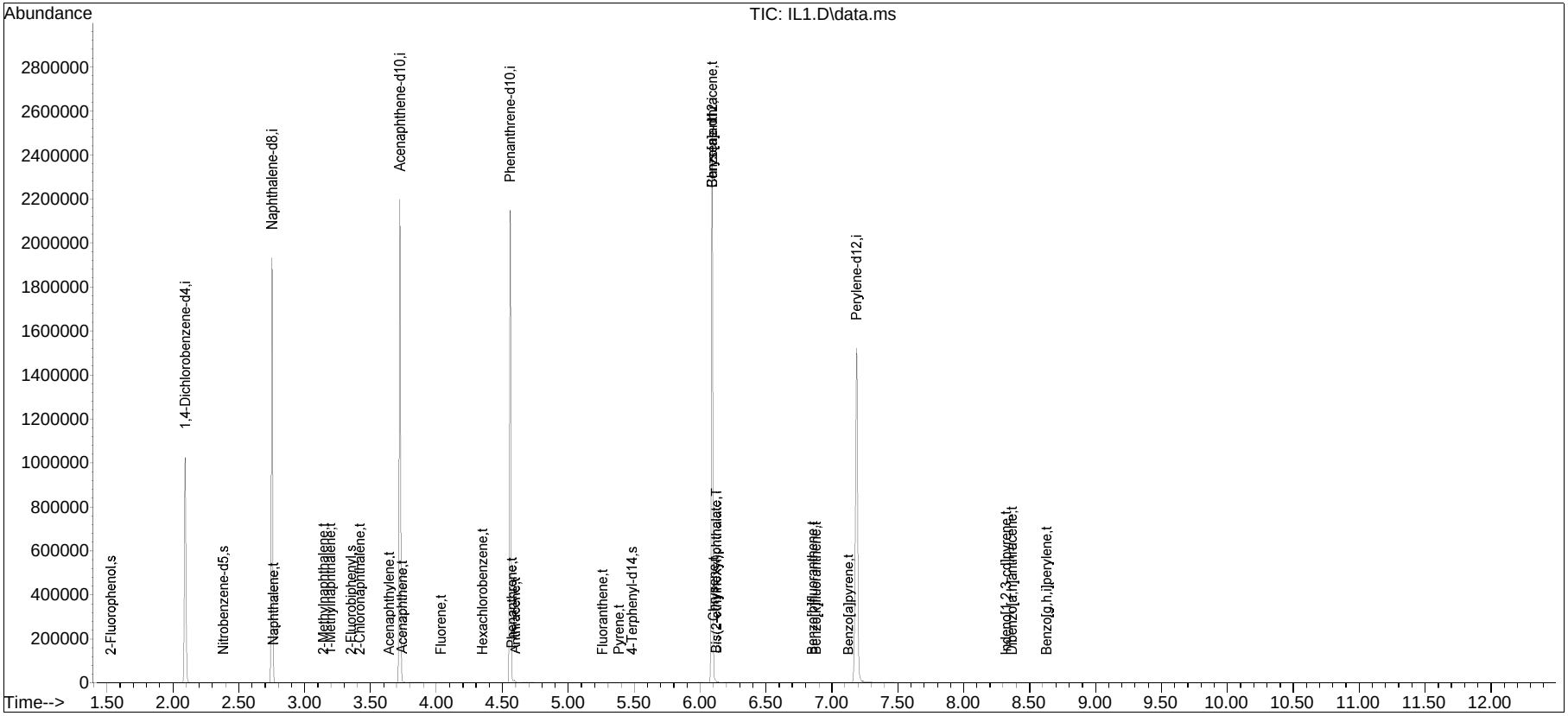
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL1.D
Acq On : 25 Sep 2024 03:18 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1976347
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 18:06:33 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

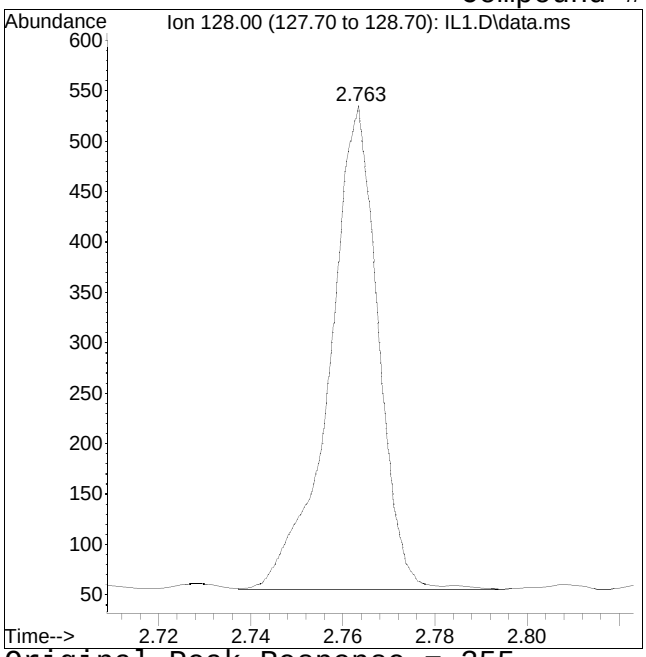
Sub List : Default - All compounds listedical\IL8.D•



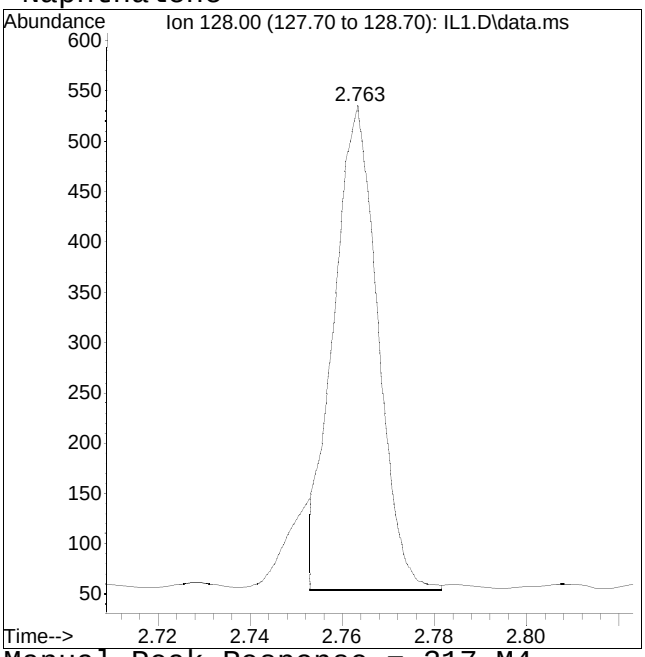
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #9: Naphthalene



Original Peak Response = 355



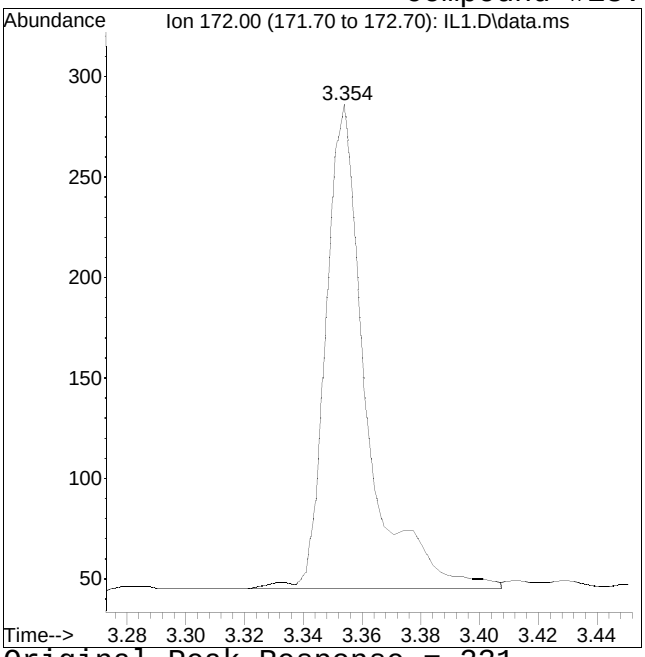
Manual Peak Response = 317 M4

M4 = Poor automated baseline construction.

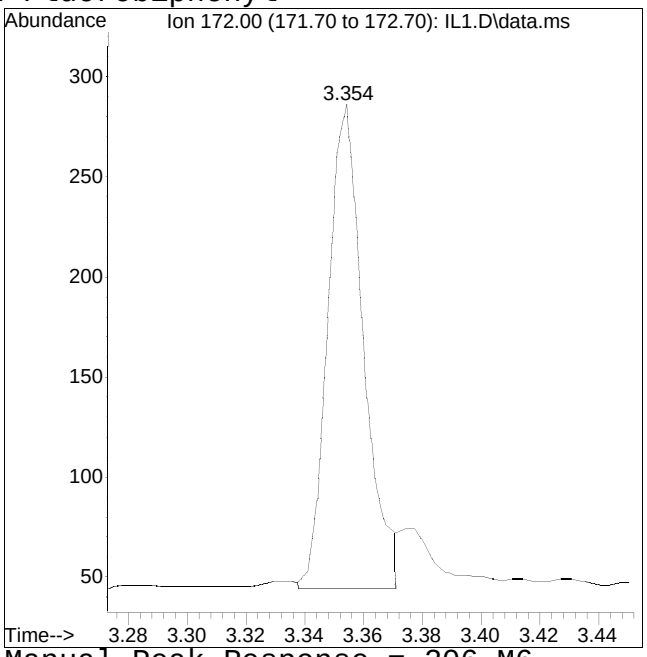
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 231



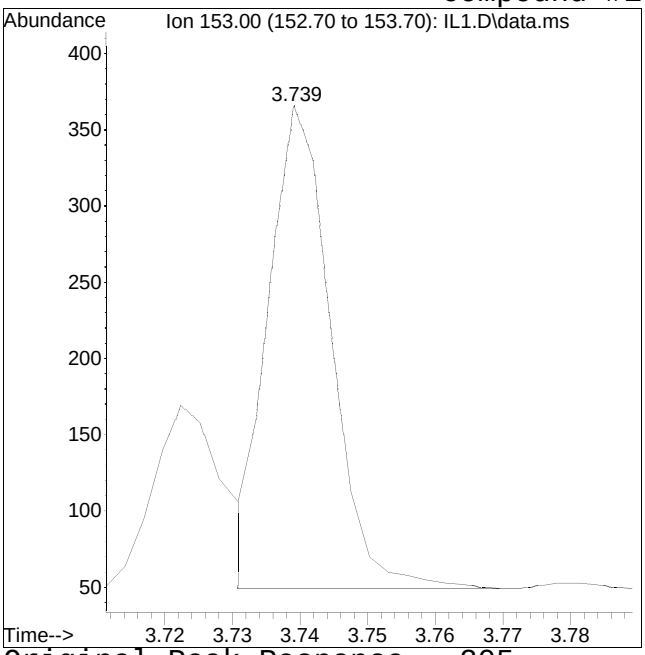
Manual Peak Response = 206 M6

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

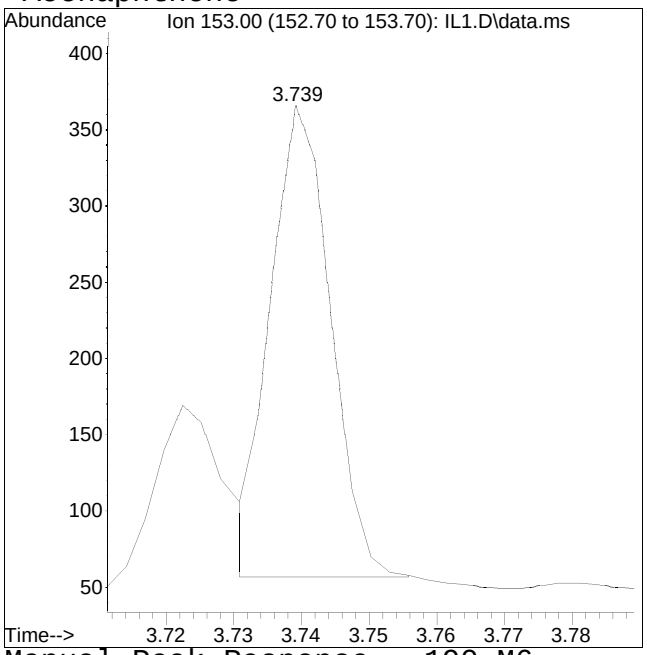
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #18: Acenaphthene



Original Peak Response = 205



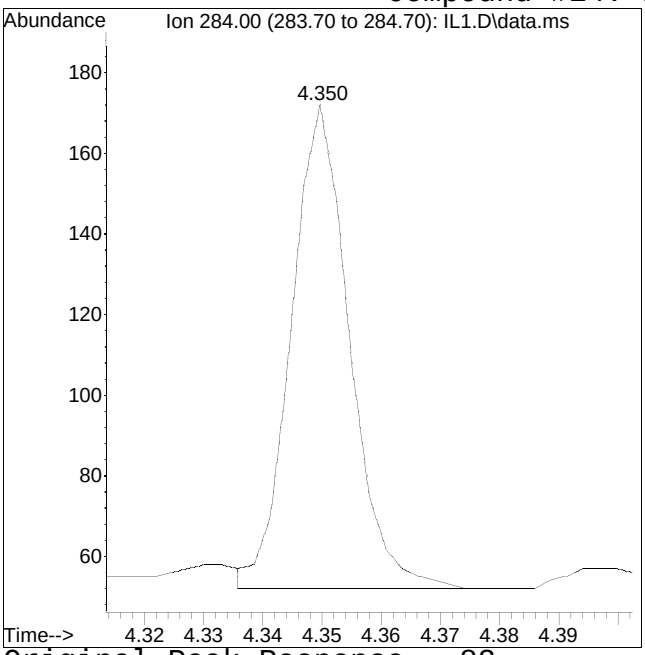
Manual Peak Response = 190 M6

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

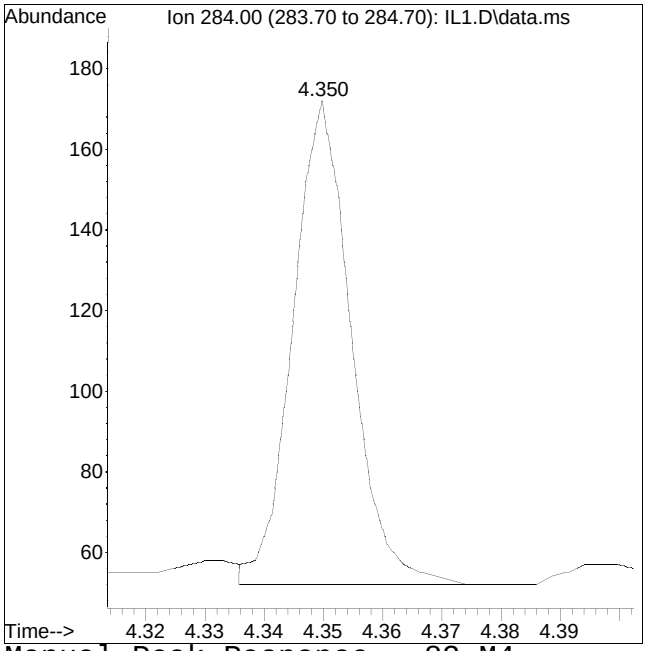
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 82



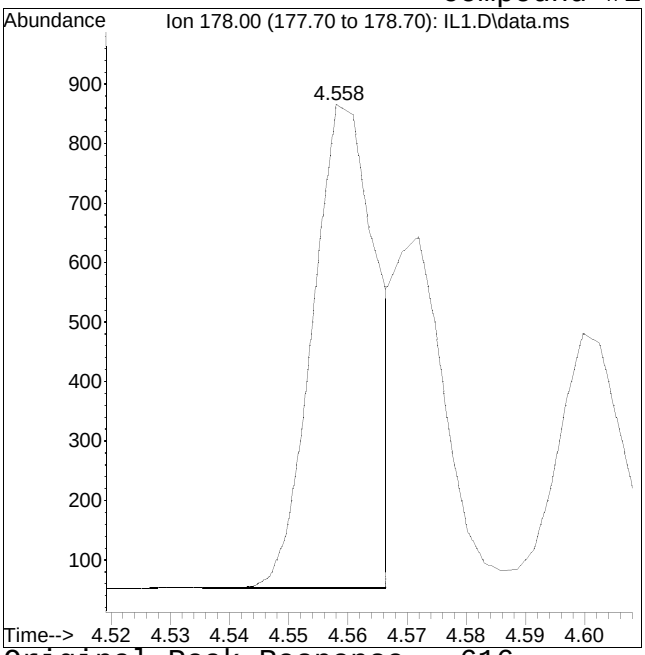
Manual Peak Response = 82 M4

M4 = Poor automated baseline construction.

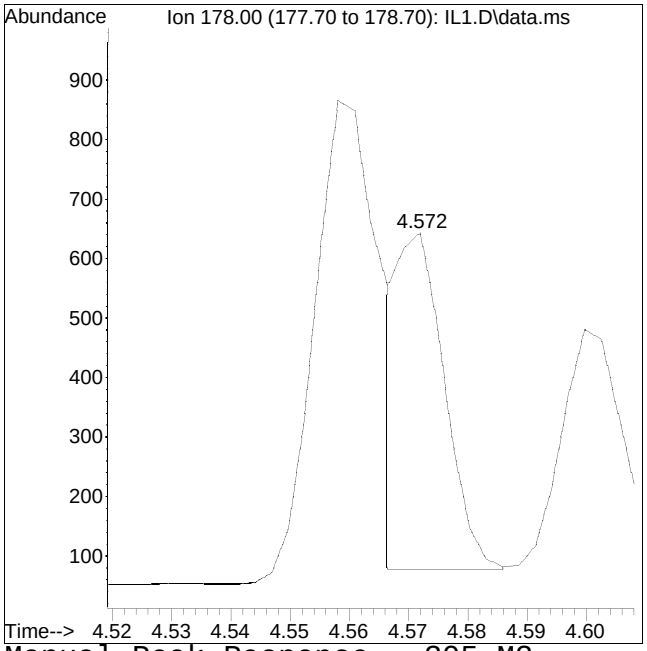
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #26: Phenanthrene



Original Peak Response = 616



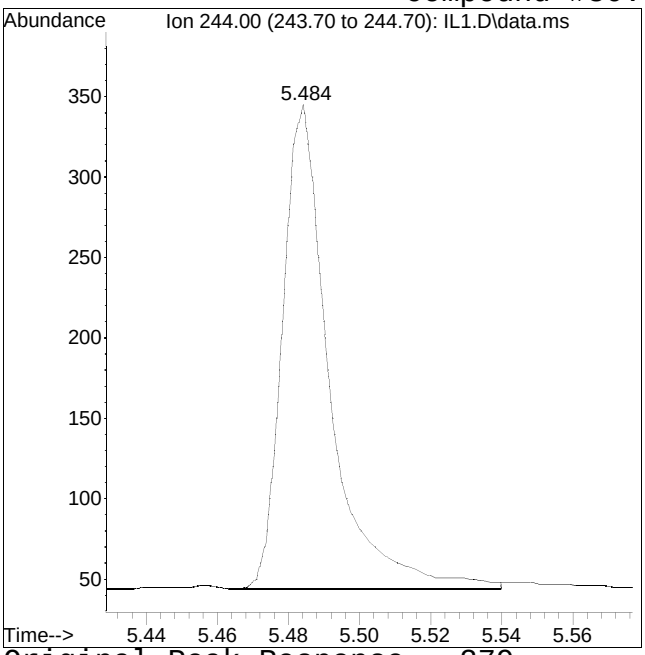
Manual Peak Response = 305 M3

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

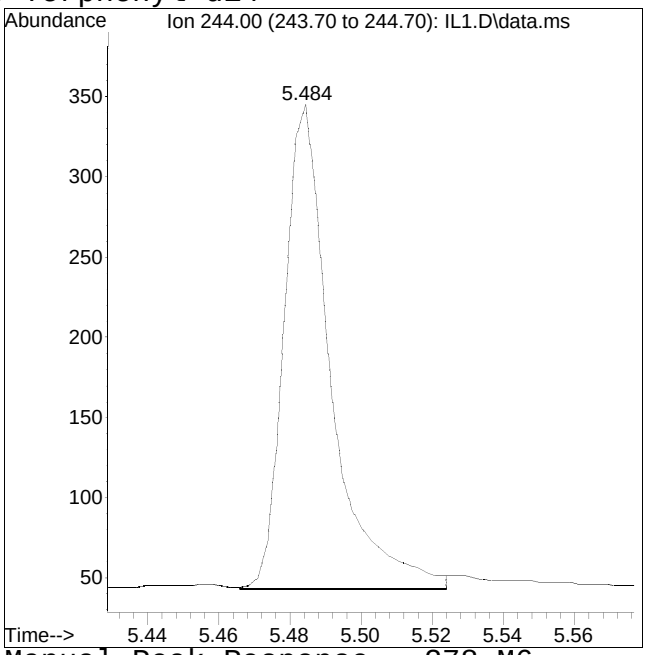
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 279



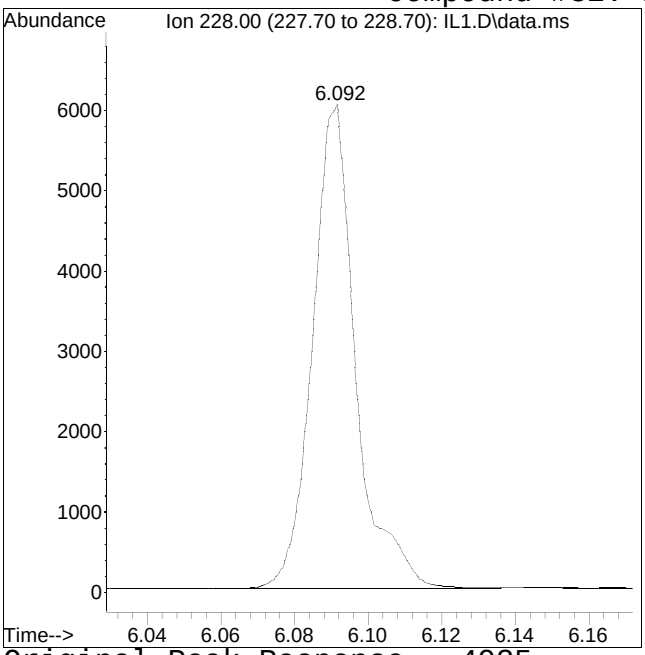
Manual Peak Response = 278 M6

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

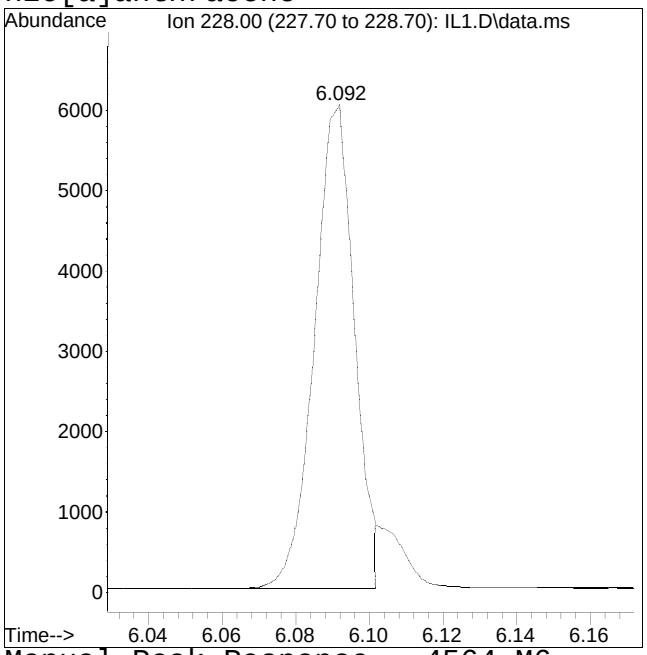
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 4935



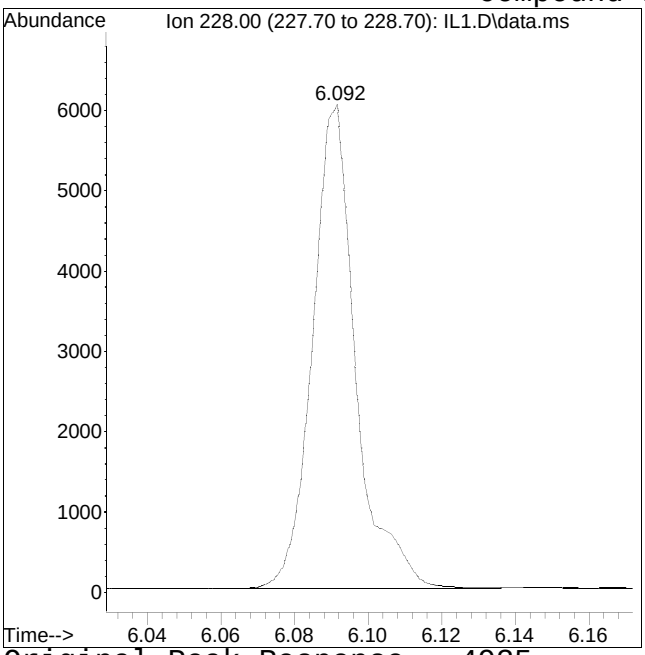
Manual Peak Response = 4564 M6

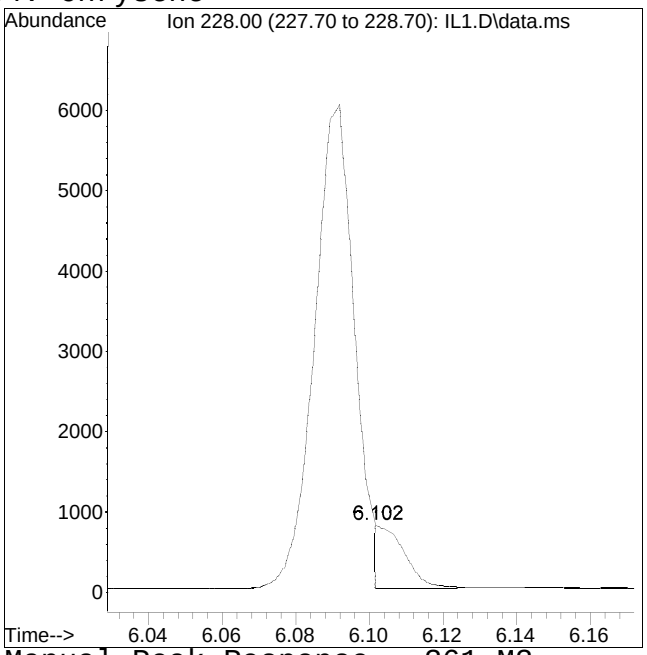
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #34: Chrysene





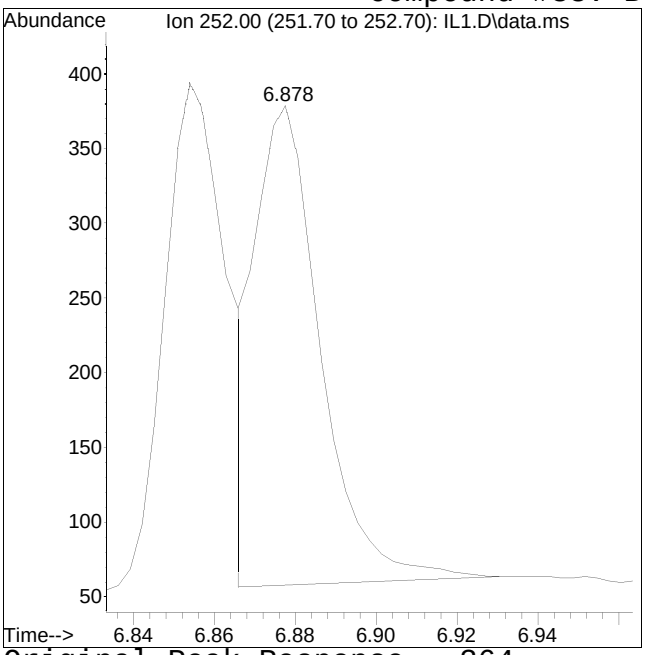
Original Peak Response = 4935 Manual Peak Response = 361 M3

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

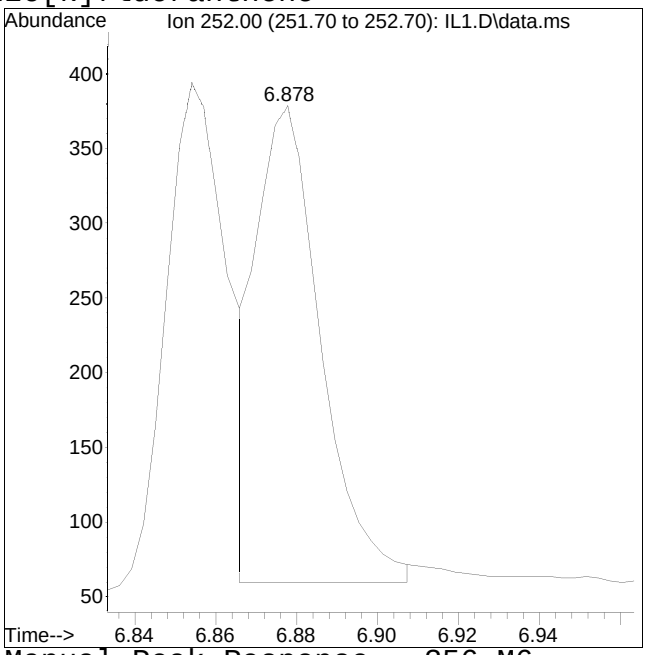
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 364



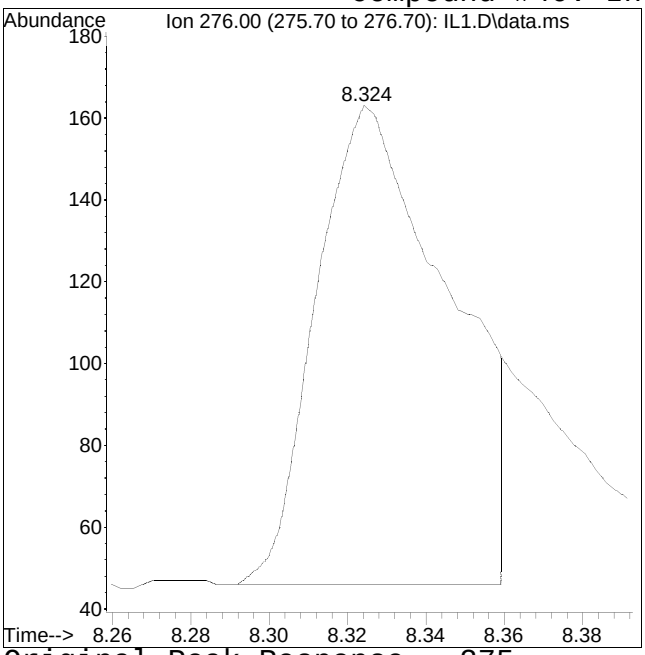
Manual Peak Response = 356 M6

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

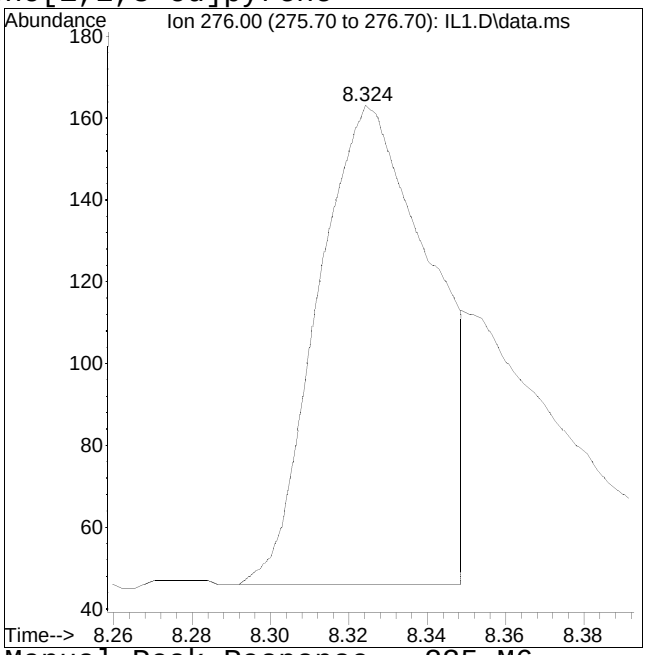
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 275



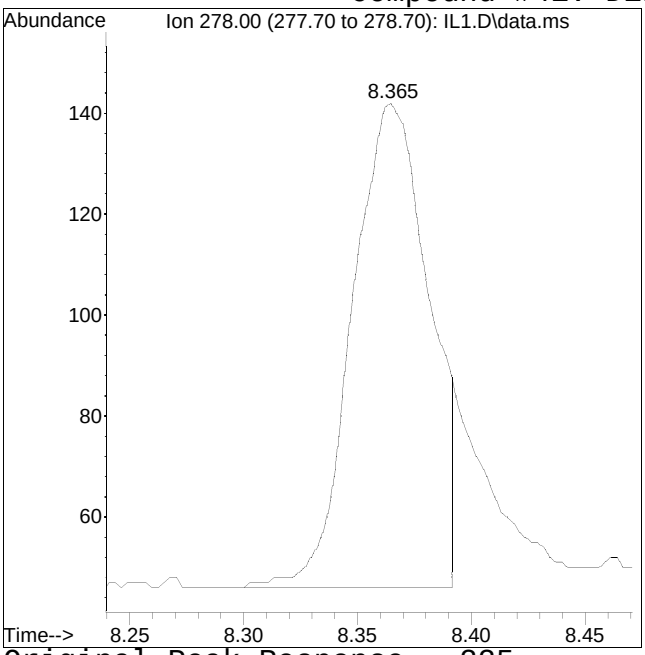
Manual Peak Response = 235 M6

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

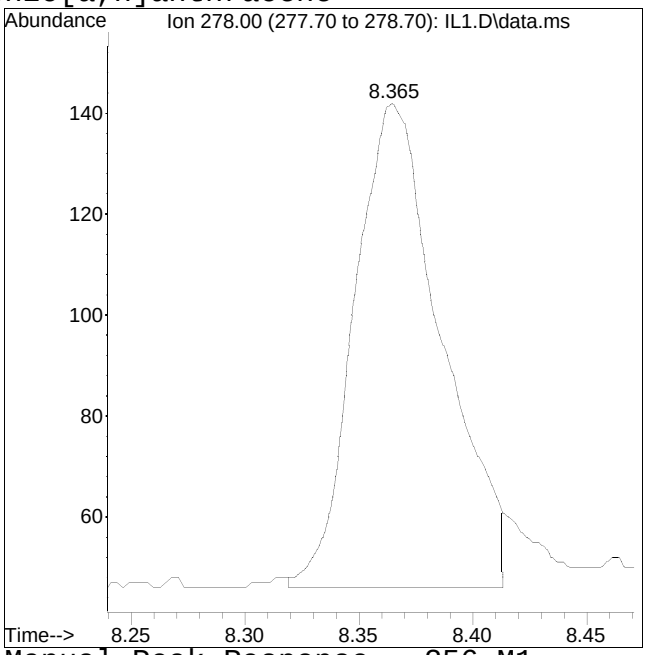
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 225



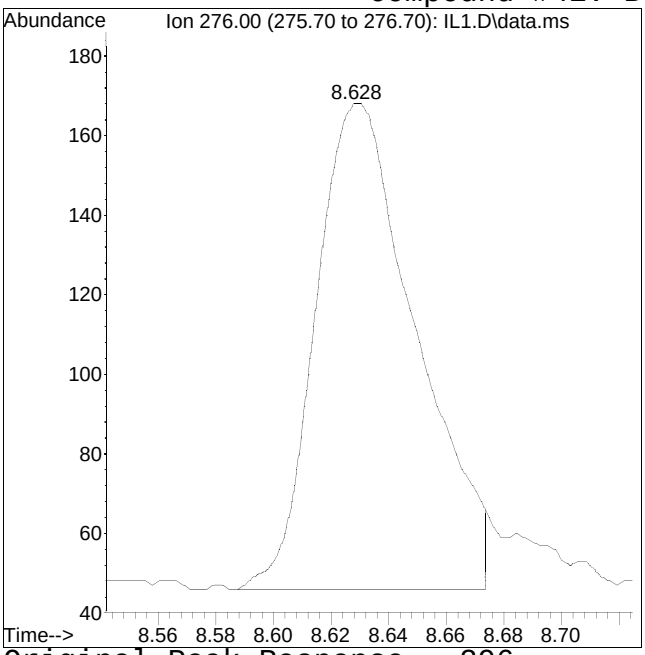
Manual Peak Response = 256 M1

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

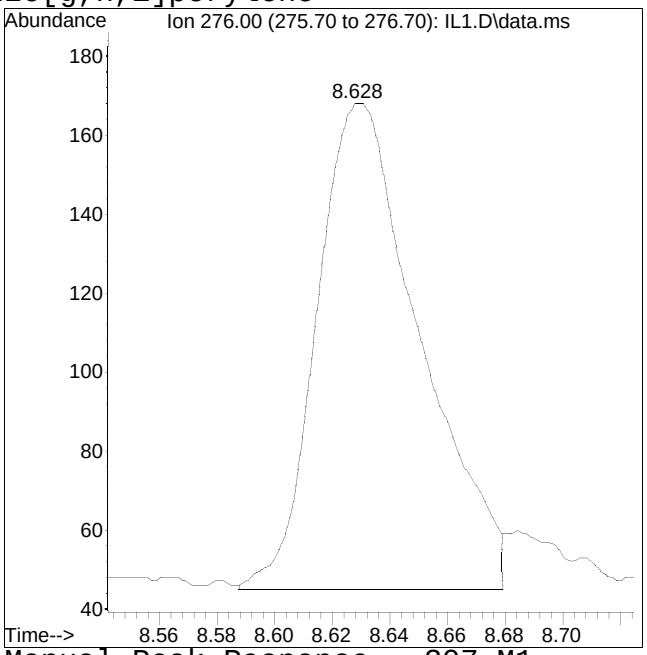
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 296



Manual Peak Response = 307 M1

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

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
2	s	2-Fluorophenol	1.106	1.114	-0.7	95	0.00
3	s	Phenol-d6	1.298	1.326	-2.2	95	0.00
4	T	Bis(2-chloroethyl)ether	1.138	1.081	5.0	93	0.00
5	T	n-nitrosodi-n-propylamine	0.770	0.740	3.9	91	0.00
6	t	Hexachloroethane	0.490	0.463	5.5	92	0.00
7	s	Nitrobenzene-d5	1.097	1.118	-1.9	93	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	95	0.00
9	t	Naphthalene	0.997	0.927	7.0	94	0.00
10	t	Hexachlorobutadiene	0.191	0.182	4.7	94	0.00
11	t	2-Methylnaphthalene	0.627	0.632	-0.8	96	0.00
12	t	1-Methylnaphthalene	0.605	0.580	4.1	95	0.00
13	s	2-Fluorobiphenyl	0.759	0.735	3.2	95	0.00
14	t	2-Chloronaphthalene	0.654	0.643	1.7	95	0.00
15	t	2,6-Dinitrotoluene	*1000.000	894.692	10.5	91	0.00
16	t	Acenaphthylene	0.951	0.963	-1.3	95	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
18	t	Acenaphthene	1.195	1.130	5.4	95	0.00
19	t	2,4-Dinitrotoluene	*1000.000	910.682	8.9	94	0.00
20	t	Fluorene	1.320	1.289	2.3	96	0.00
21	s	2,4,6-Tribromophenol	0.179	0.200	-11.7	99	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	838.239	16.2	92	0.00
24	t	Hexachlorobenzene	0.230	0.213	7.4	95	0.00
25	t	Pentachlorophenol	*1000.000	1009.942	-1.0	96	0.00
26	t	Phenanthrene	1.007	0.934	7.2	95	0.00
27	t	Anthracene	0.988	0.965	2.3	98	0.00
28	t	Fluoranthene	1.166	1.149	1.5	99	0.00
29	t	Pyrene	1.233	1.232	0.1	101	0.00
30	s	4-Terphenyl-d14	0.701	0.690	1.6	99	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	102	-0.02
32	t	Benzo[a]anthracene	*1000.000	994.305	0.6	102	-0.02
33	t	3,3'-Dichlorobenzene	0.428	0.459	-7.2	105	-0.02
34	t	Chrysene	1.133	1.111	1.9	97	-0.02
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	884.101	11.6	100	-0.02

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	99	-0.01
37	t	Benzo[b]fluoranthene	1.104	1.158	-4.9	99	-0.02
38	t	Benzo[k]fluoranthene	1.084	1.043	3.8	95	-0.02
39	t	Benzo[a]pyrene	0.946	0.991	-4.8	97	-0.02
40	t	Indeno[1,2,3-cd]pyrene	0.930	0.957	-2.9	94	-0.01
41	t	Dibenzo[a,h]anthracene	0.879	0.903	-2.7	95	-0.01
42	t	Benzo[g,h,i]perylene	0.943	0.937	0.6	94	-0.01

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	296061	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 94.37%			
8) Naphthalene-d8	2.751	136	1127189	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 95.11%			
17) Acenaphthene-d10	3.723	164	656527	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 97.36%			
22) Phenanthrene-d10	4.561	188	1365766	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 99.60%			
31) Chrysene-d12	6.092	240	1393978	4000.000	ng/ml	-0.02
Standard Area 1 = 1370492			Recovery = 101.71%			
36) Perylene-d12	7.191	264	1420863	4000.000	ng/ml	-0.01
Standard Area 1 = 1438322			Recovery = 98.79%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.526	112	82448	1007.217	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.36%			
3) Phenol-d6	1.920	99	98124	1021.224	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.06%			
7) Nitrobenzene-d5	2.376	82	82744	1018.760	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.88%			
13) 2-Fluorobiphenyl	3.349	172	207197	968.205	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.82%			
21) 2,4,6-Tribromophenol	4.167	330	32770	1115.925	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 55.80%			
30) 4-Terphenyl-d14	5.476	244	235620	985.059	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.25%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	80046	950.360	ng/ml	100
5) n-nitrosodi-n-propylamine	2.298	70	54757	960.949	ng/ml	99
6) Hexachloroethane	2.348	117	34298	946.195	ng/ml	100
9) Naphthalene	2.764	128	261100	929.258	ng/ml	100
10) Hexachlorobutadiene	2.837	225	51301	953.852	ng/ml	99
11) 2-Methylnaphthalene	3.140	142	178146	1008.024	ng/ml	100
12) 1-Methylnaphthalene	3.196	142	163569	959.357	ng/ml	100
14) 2-Chloronaphthalene	3.412	162	181122	983.496	ng/ml	99
15) 2,6-Dinitrotoluene	3.609	165	40952	894.692	ng/ml	97
16) Acenaphthylene	3.642	152	271254	1012.509	ng/ml	100
18) Acenaphthene	3.739	153	185396	945.085	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.837	165	57938	910.682	ng/ml	99
20) Fluorene	4.030	166	211530	976.275	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.066	198	32791	838.239	ng/ml	100
24) Hexachlorobenzene	4.350	284	72897	928.385	ng/ml	100
25) Pentachlorophenol	4.463	266	37954	1009.942	ng/ml	100
26) Phenanthrene	4.572	178	318819	927.268	ng/ml	100
27) Anthracene	4.600	178	329588	977.030	ng/ml	100
28) Fluoranthene	5.249	202	392481	985.753	ng/ml	100
29) Pyrene	5.378	202	420626	999.023	ng/ml	100
32) Benzo[a]anthracene	6.084	228	416376	994.305	ng/ml	100
33) 3,3'-Dichlorobenzene	6.077	252	159820	1072.099	ng/ml	100
34) Chrysene	6.106	228	387154	980.202	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.121	149	221124	884.101	ng/ml	100
37) Benzo[b]fluoranthene	6.847	252	411219	1048.154	ng/ml	100
38) Benzo[k]fluoranthene	6.868	252	370464	962.431	ng/ml	99
39) Benzo[a]pyrene	7.126	252	351911	1047.747	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.297	276	340008	1029.512	ng/ml	98
41) Dibenzo[a,h]anthracene	8.329	278	320729M6	1027.744	ng/ml	
42) Benzo[g,h,i]perylene	8.611	276	332724	992.956	ng/ml	100

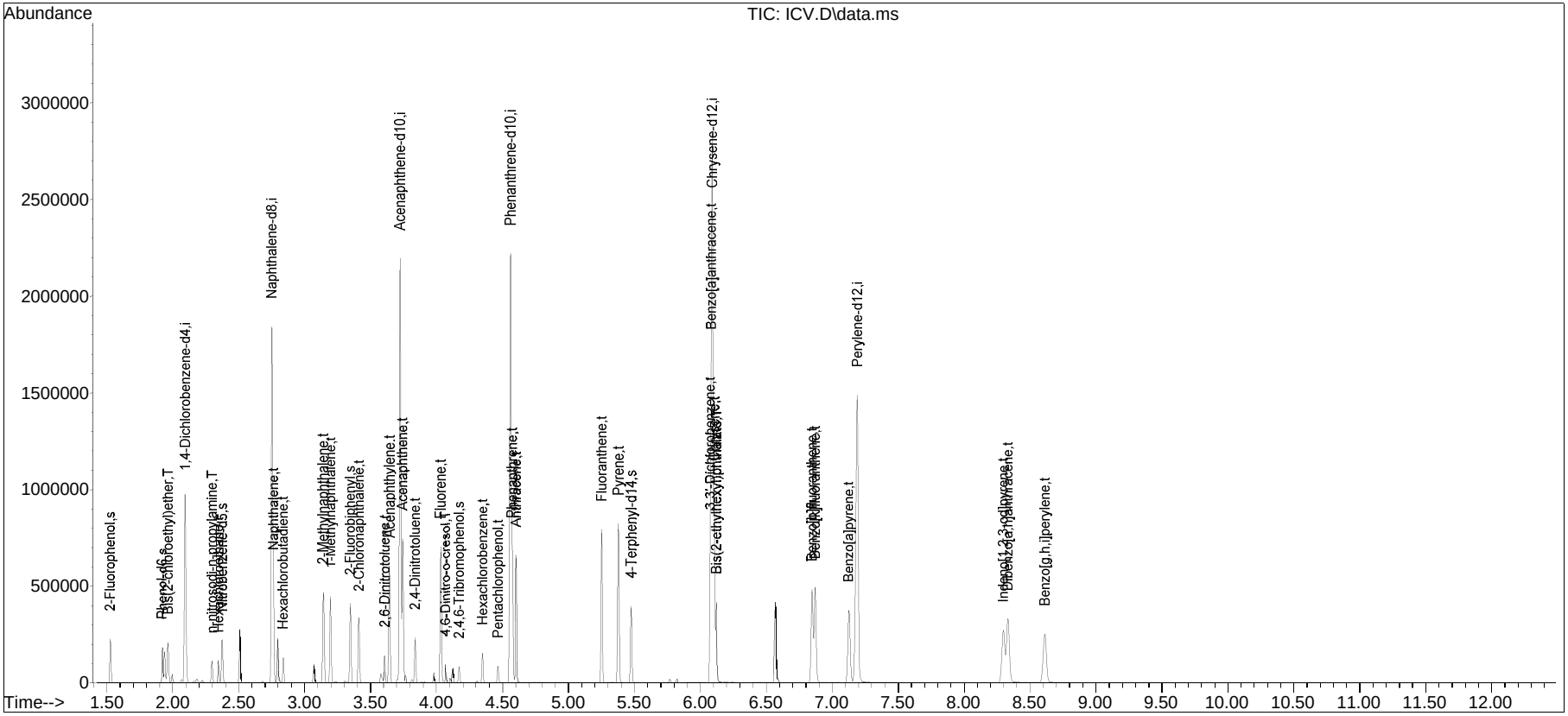
(#) = qualifier out of range (m) = manual integration (+) = signals summed

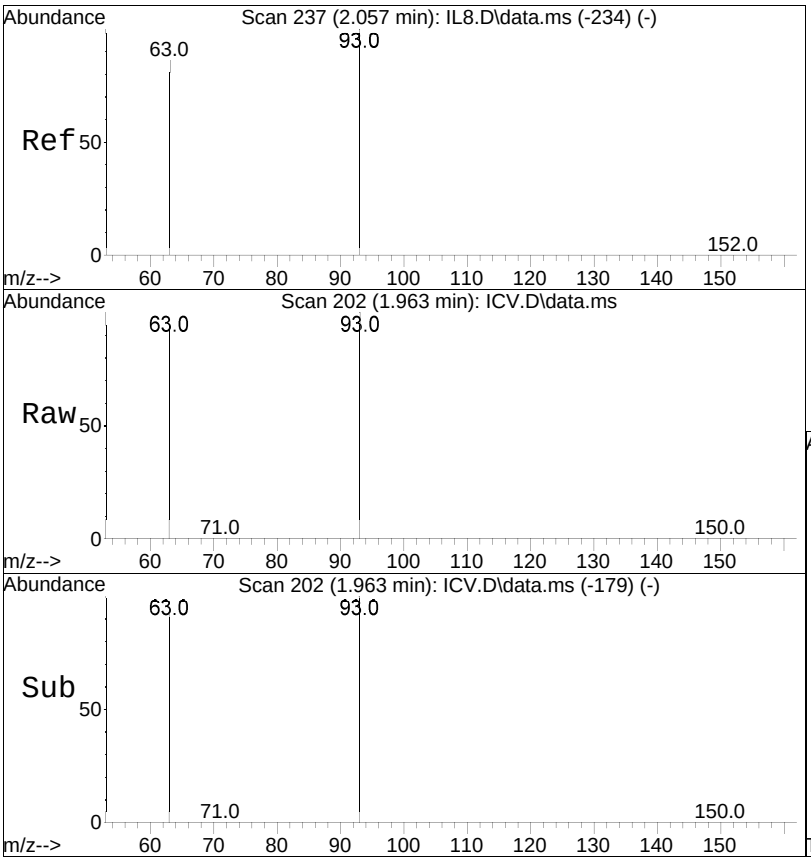
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

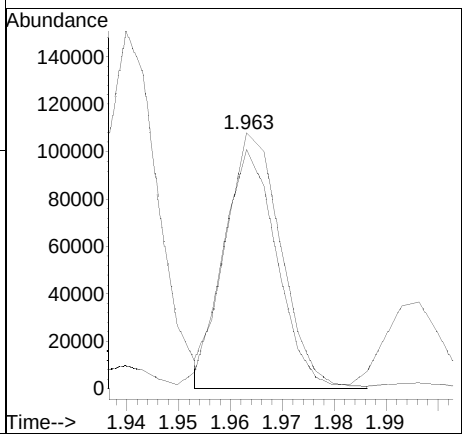


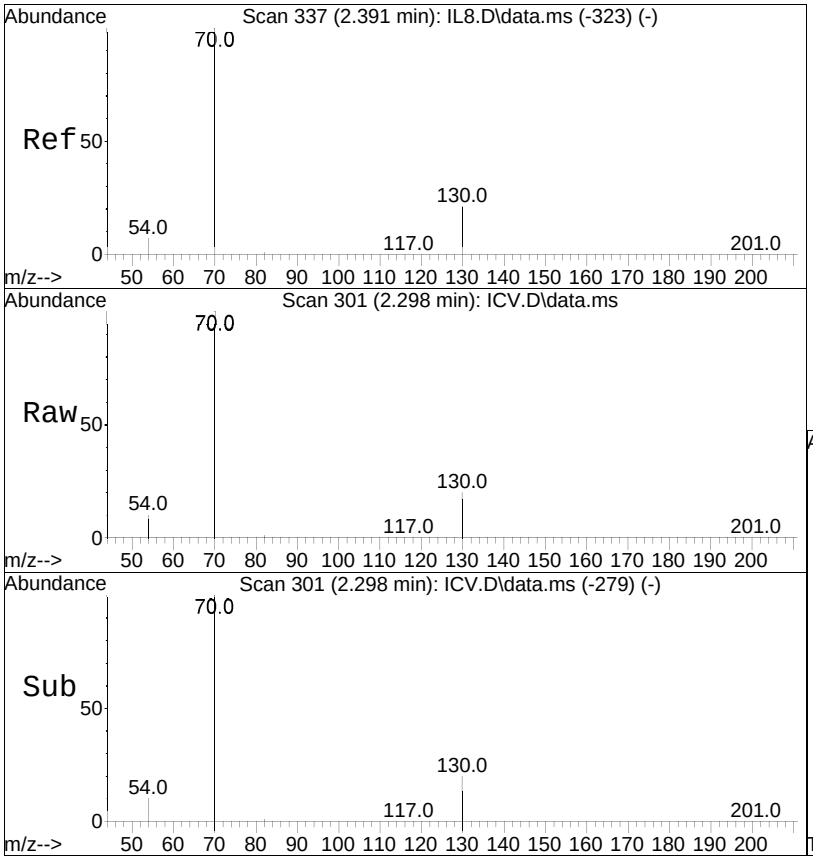


#4
Bis(2-chloroethyl)ether
Concen: 950.36 ng/ml
RT: 1.963 min Scan# 202
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion: 93 Resp: 80046

Ion	Ratio	Lower	Upper
93	100		
63	91.3	73.0	109.4

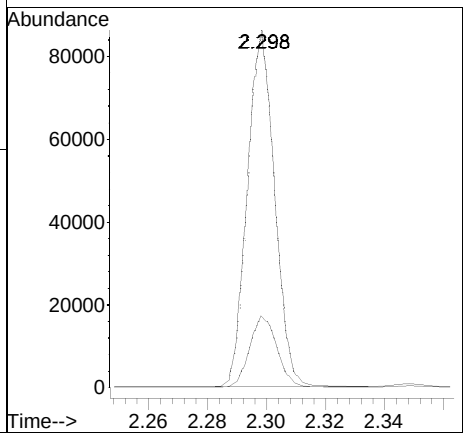


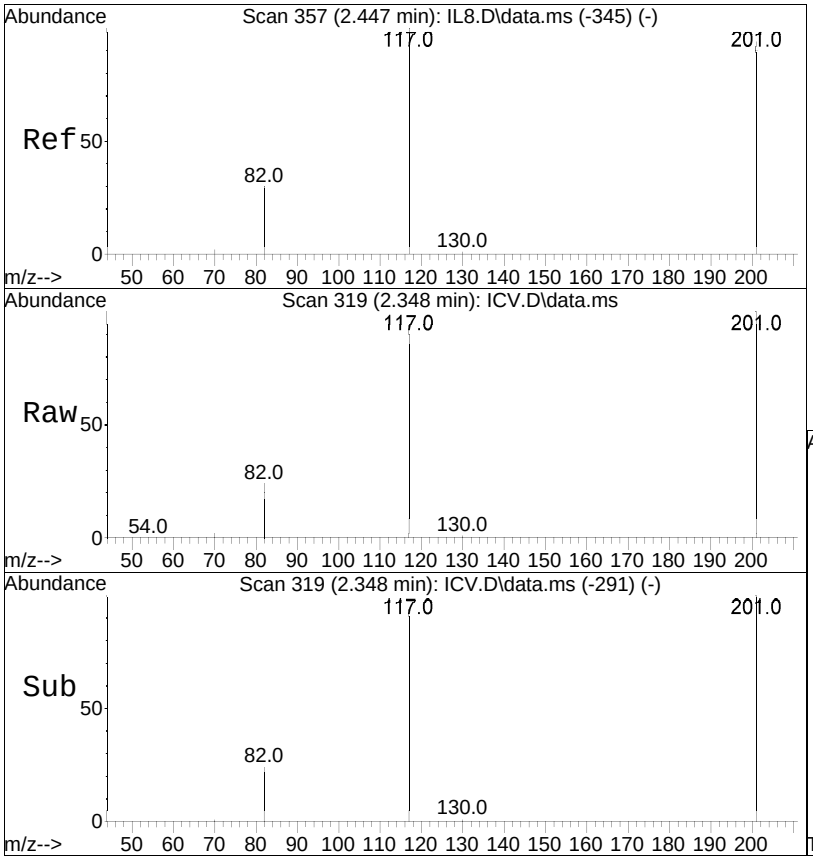


#5
n-nitrosodi-n-propylamine
Concen: 960.95 ng/ml
RT: 2.298 min Scan# 301
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion: 70 Resp: 54757

Ion	Ratio	Lower	Upper
70	100		
130	20.2	16.4	24.6

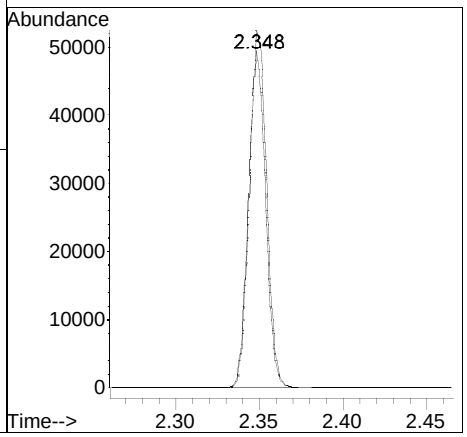


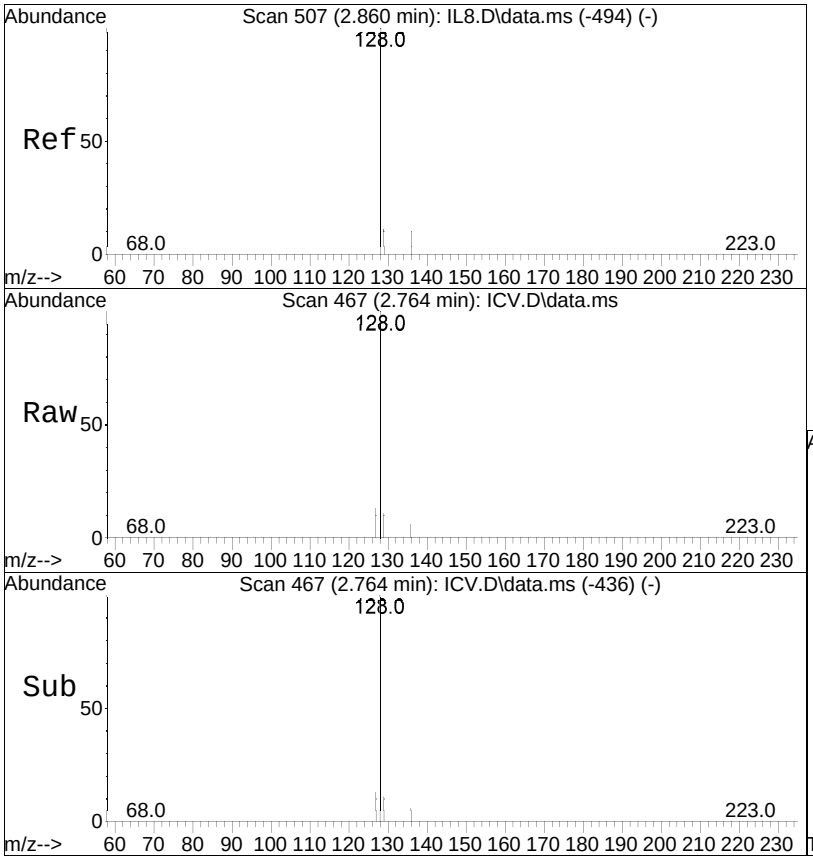


#6
Hexachloroethane
Concen: 946.19 ng/ml
RT: 2.348 min Scan# 319
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:117 Resp: 34298

Ion	Ratio	Lower	Upper
117	100		
201	107.5	86.2	129.2

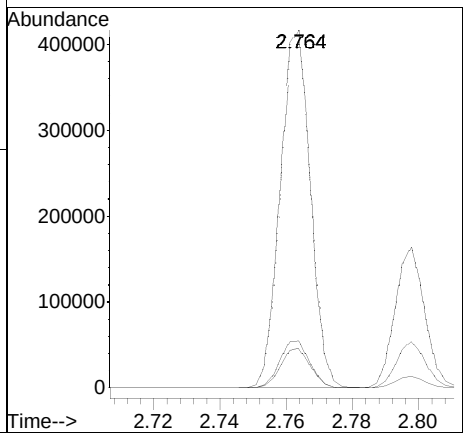


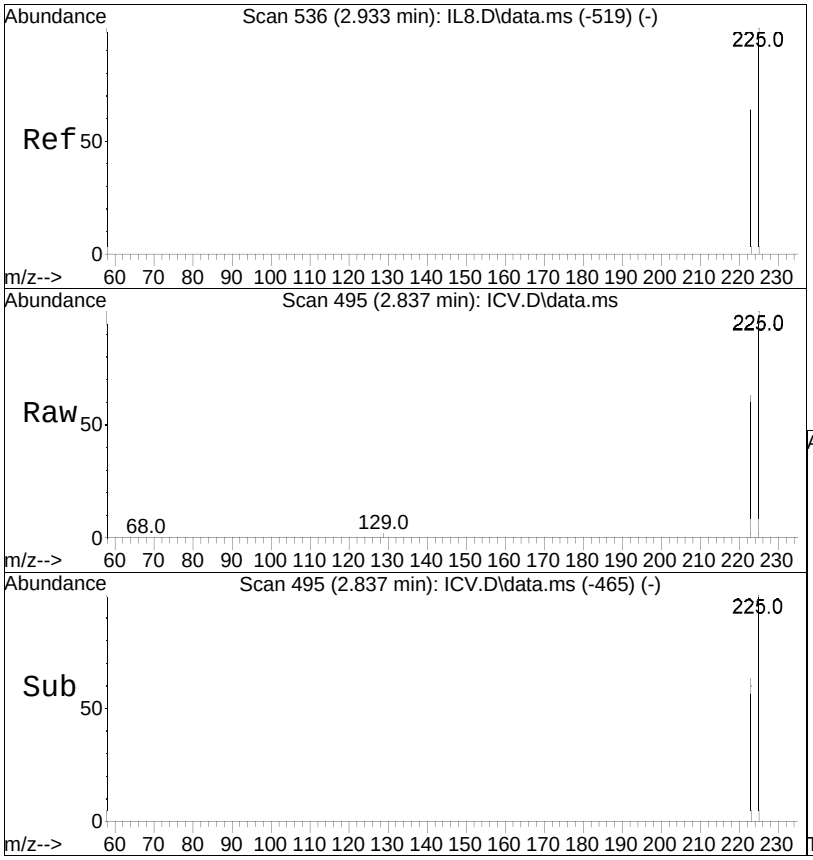


#9
Naphthalene
Concen: 929.26 ng/ml
RT: 2.764 min Scan# 467
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:128 Resp: 261100

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.2	10.6	16.0

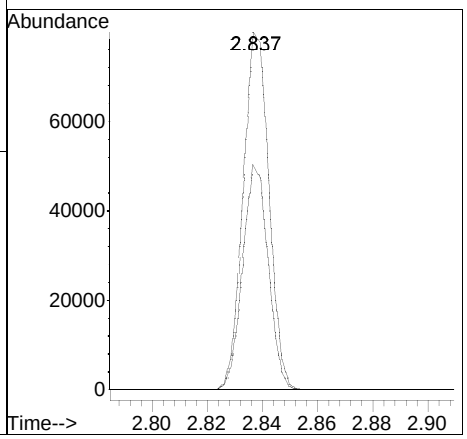


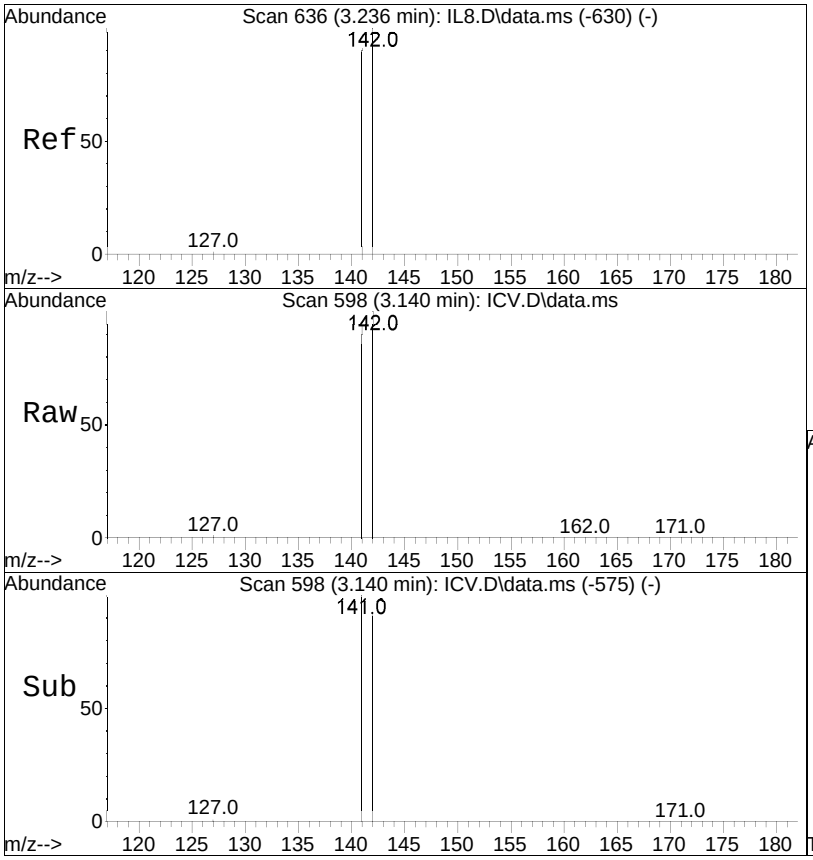


#10
Hexachlorobutadiene
Concen: 953.85 ng/ml
RT: 2.837 min Scan# 495
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:225 Resp: 51301

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.3	75.5

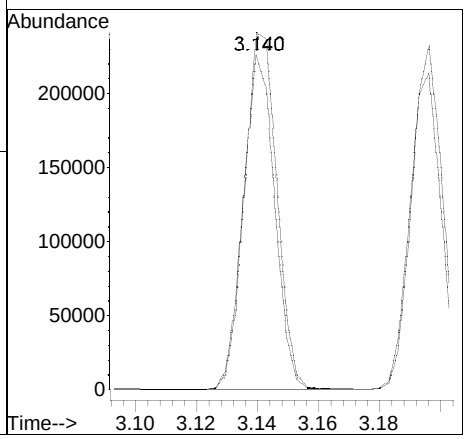


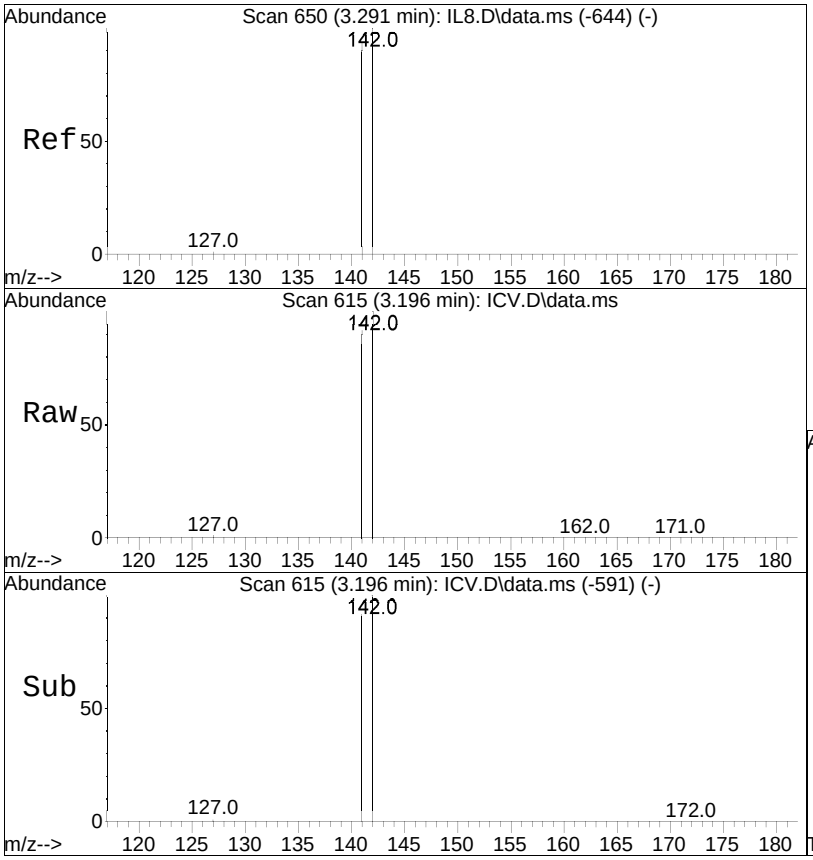


#11
2-Methylnaphthalene
Concen: 1008.02 ng/ml
RT: 3.140 min Scan# 598
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:142 Resp: 178146

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.3	109.9

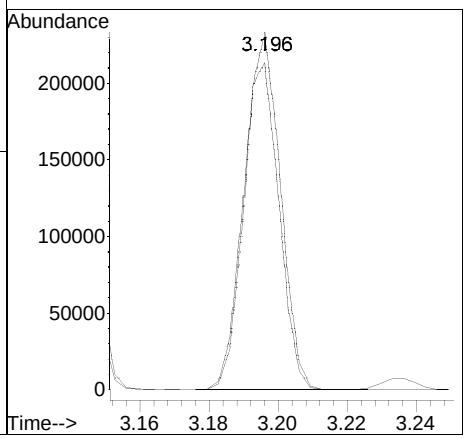


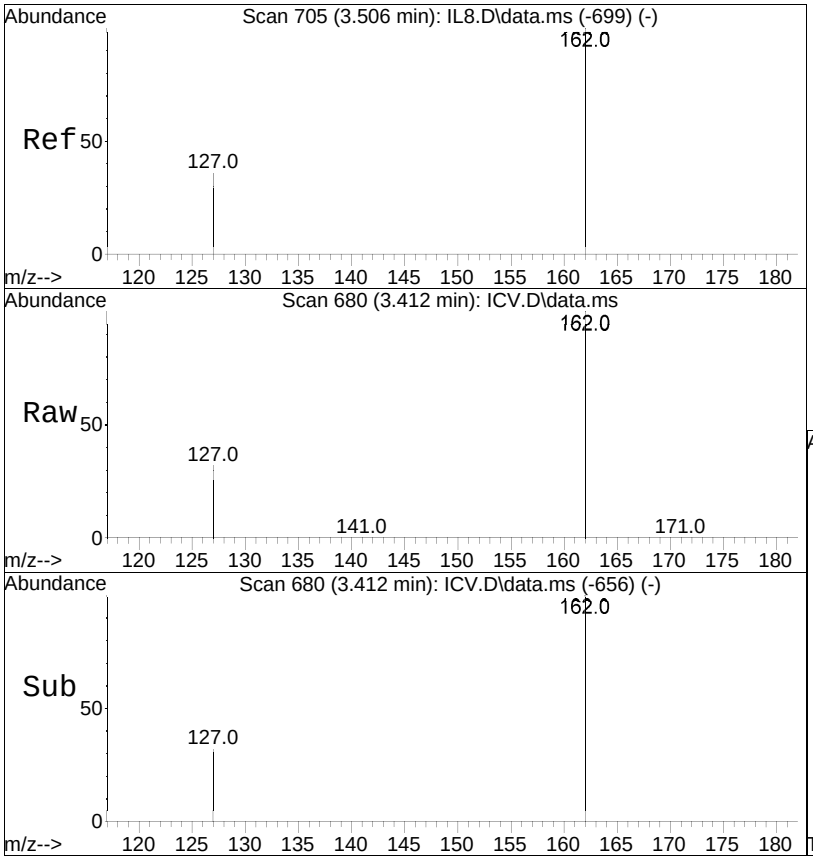


#12
1-Methylnaphthalene
Concen: 959.36 ng/ml
RT: 3.196 min Scan# 615
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:142 Resp: 163569

Ion	Ratio	Lower	Upper
142	100		
141	94.0	74.9	112.3

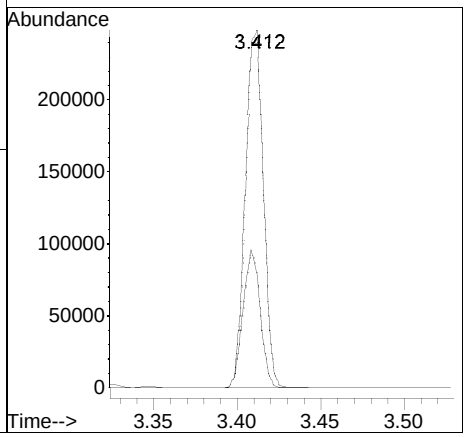


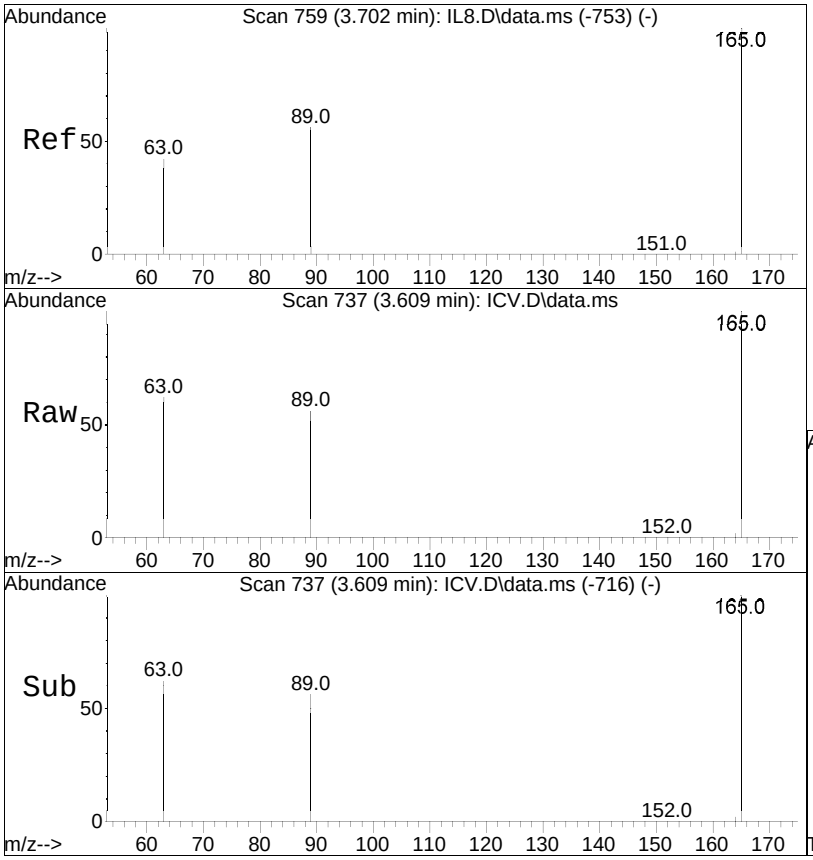


#14
2-Chloronaphthalene
Concen: 983.50 ng/ml
RT: 3.412 min Scan# 680
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:162 Resp: 181122

Ion	Ratio	Lower	Upper
162	100		
127	37.1	30.1	45.1

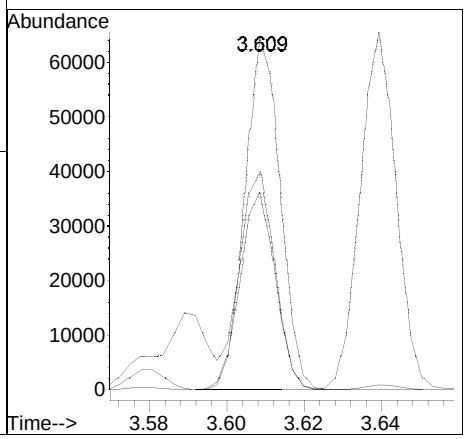


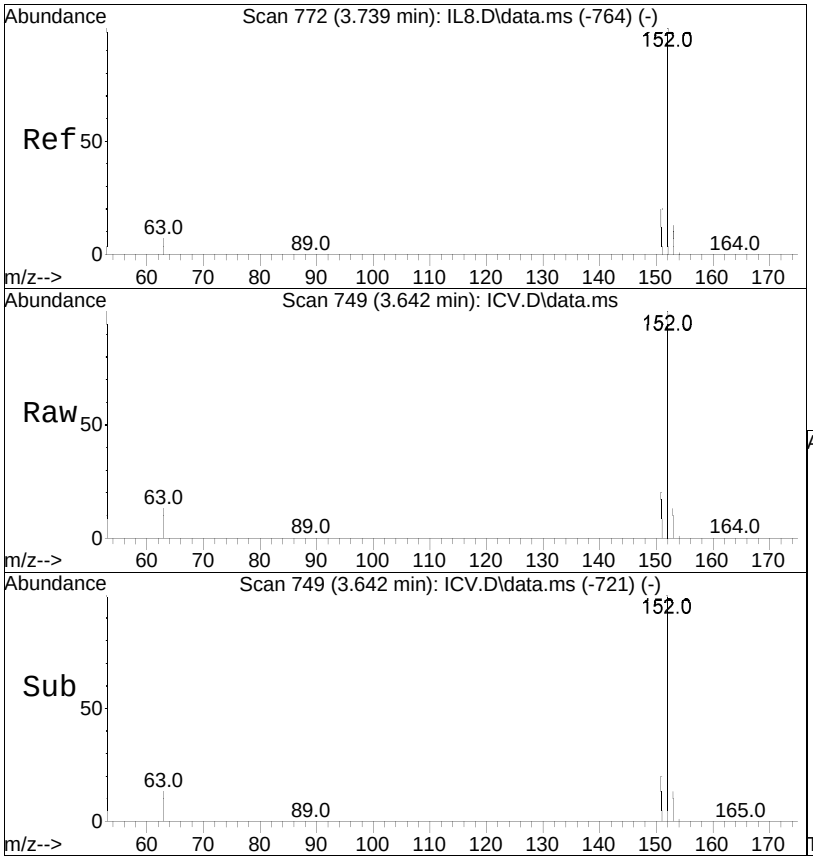


#15
2,6-Dinitrotoluene
Concen: 894.69 ng/ml
RT: 3.609 min Scan# 737
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:165 Resp: 40952

Ion	Ratio	Lower	Upper
165	100		
89	56.1	44.0	66.0
63	62.0	47.5	71.3

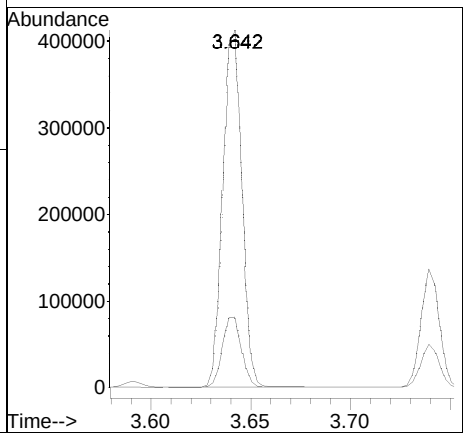


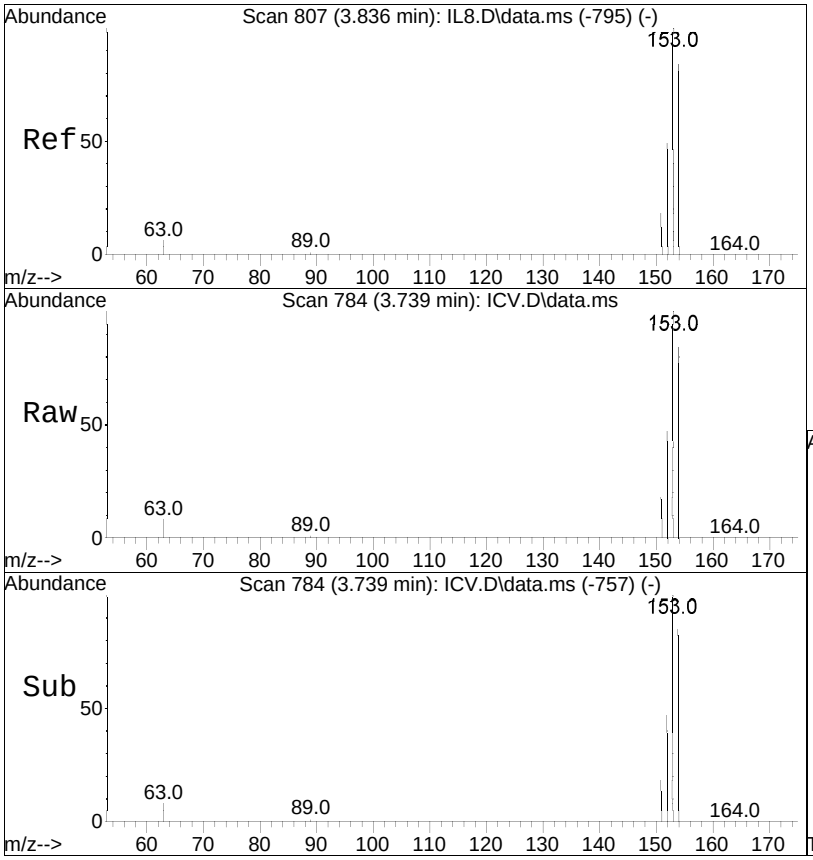


#16
Acenaphthylene
Concen: 1012.51 ng/ml
RT: 3.642 min Scan# 749
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:152 Resp: 271254

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2

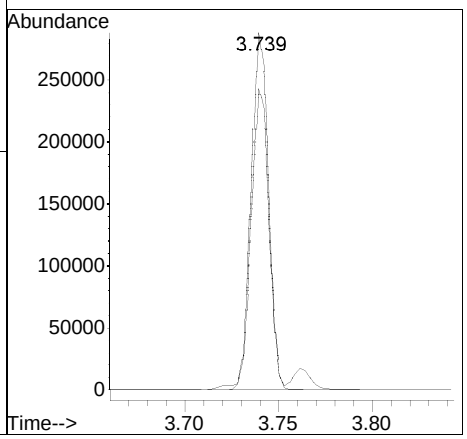


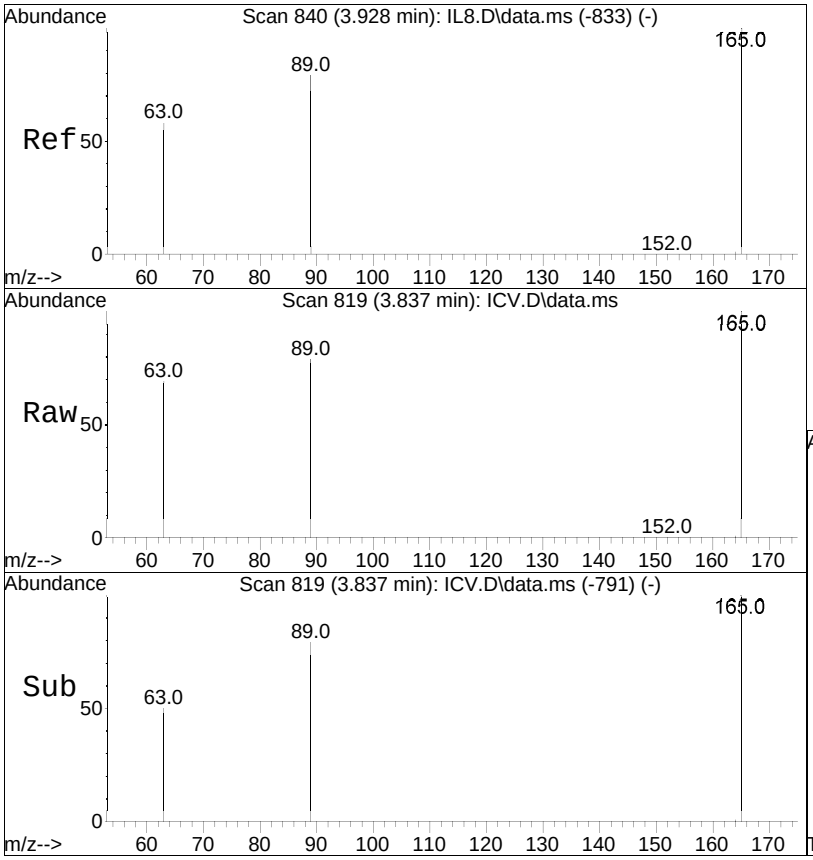


#18
Acenaphthene
Concen: 945.09 ng/ml
RT: 3.739 min Scan# 784
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:153 Resp: 185396

Ion	Ratio	Lower	Upper
153	100		
154	86.3	69.1	103.7

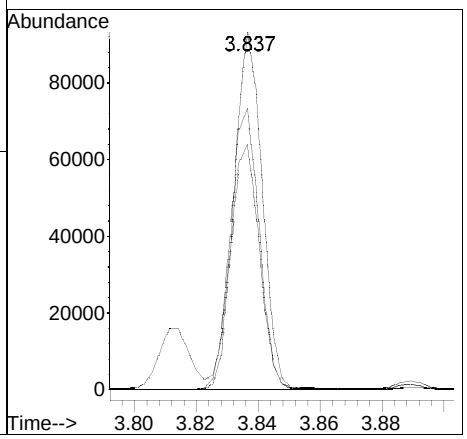


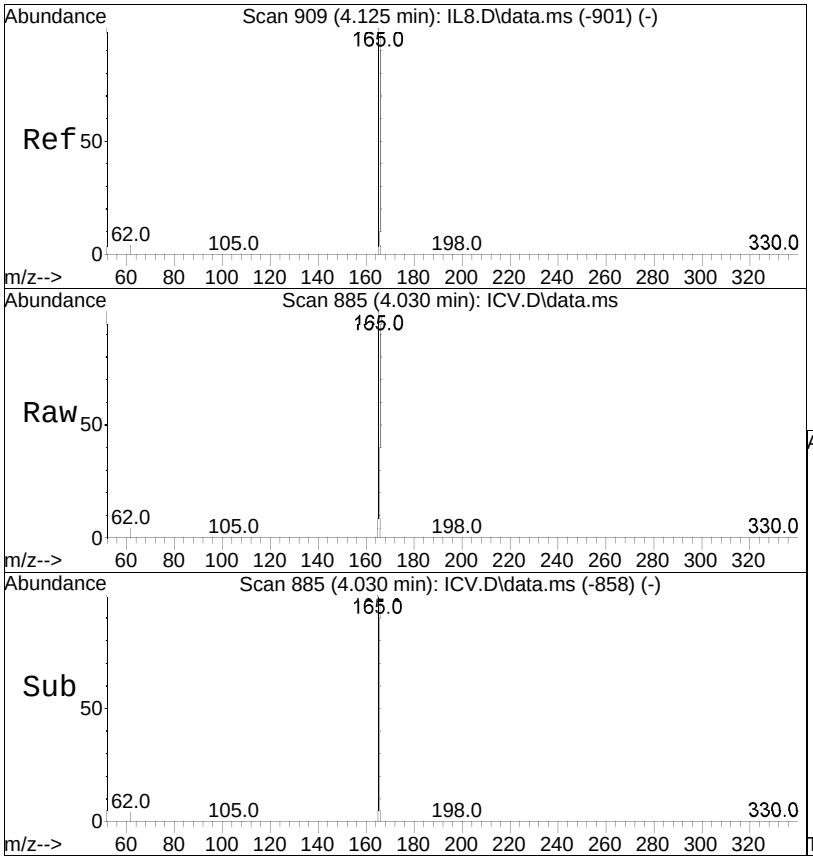


#19
2,4-Dinitrotoluene
Concen: 910.68 ng/ml
RT: 3.837 min Scan# 819
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:165 Resp: 57938

Ion	Ratio	Lower	Upper
165	100		
89	81.0	64.6	96.8
63	71.7	56.5	84.7

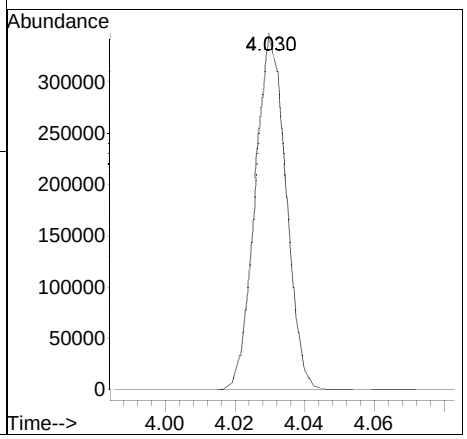


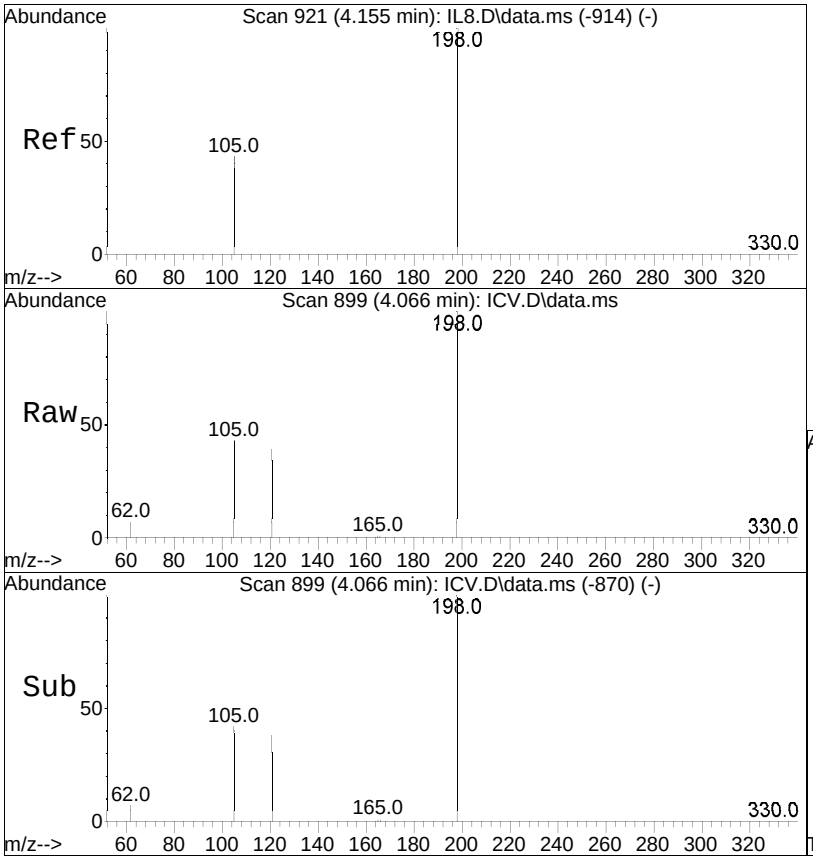


#20
Fluorene
Concen: 976.28 ng/ml
RT: 4.030 min Scan# 885
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:166 Resp: 211530

Ion	Ratio	Lower	Upper
166	100		
165	101.0	81.4	122.2

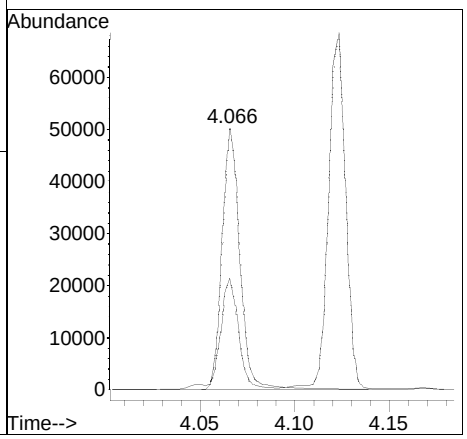


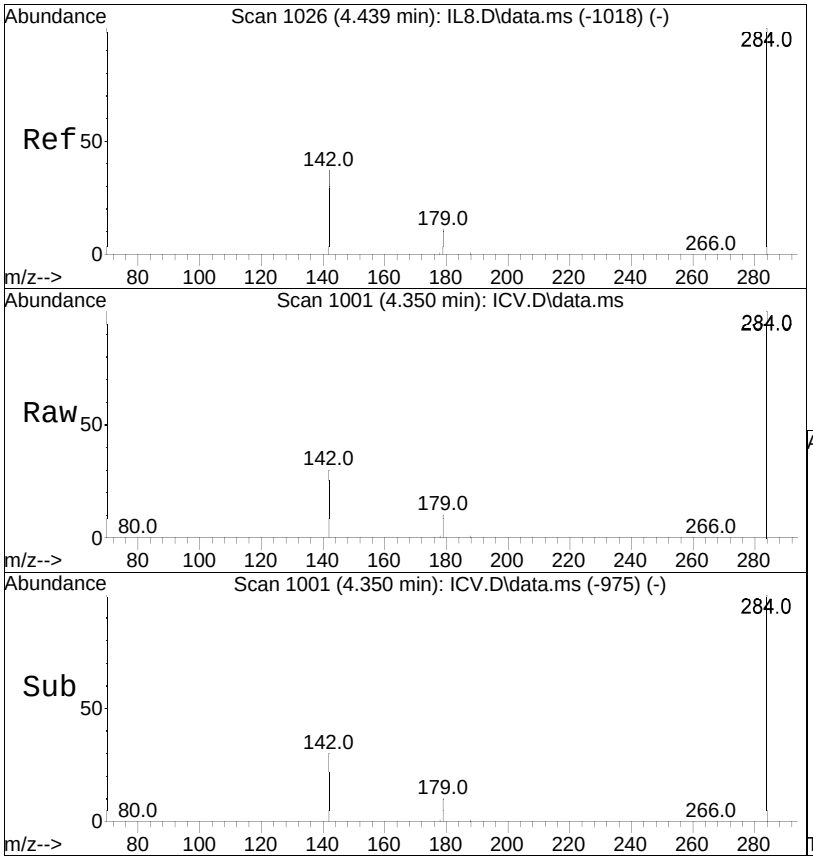


#23
4,6-Dinitro-o-cresol
Concen: 838.24 ng/ml
RT: 4.066 min Scan# 899
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:198 Resp: 32791

Ion	Ratio	Lower	Upper
198	100		
105	43.8	34.9	52.3

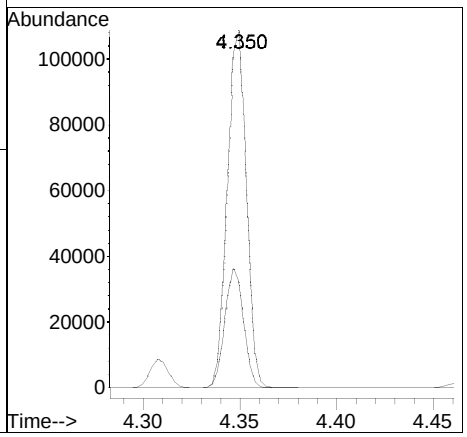


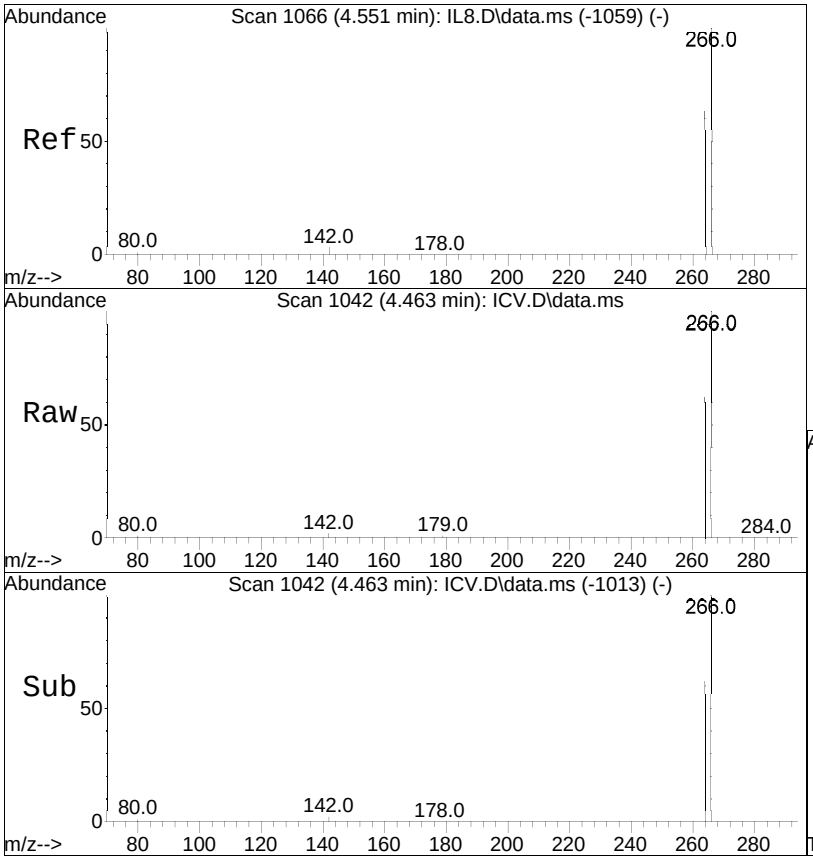


#24
Hexachlorobenzene
Concen: 928.38 ng/ml
RT: 4.350 min Scan# 1001
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:284 Resp: 72897

Ion	Ratio	Lower	Upper
284	100		
142	33.2	26.6	40.0

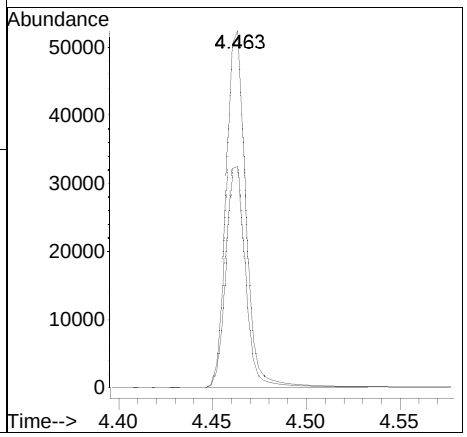


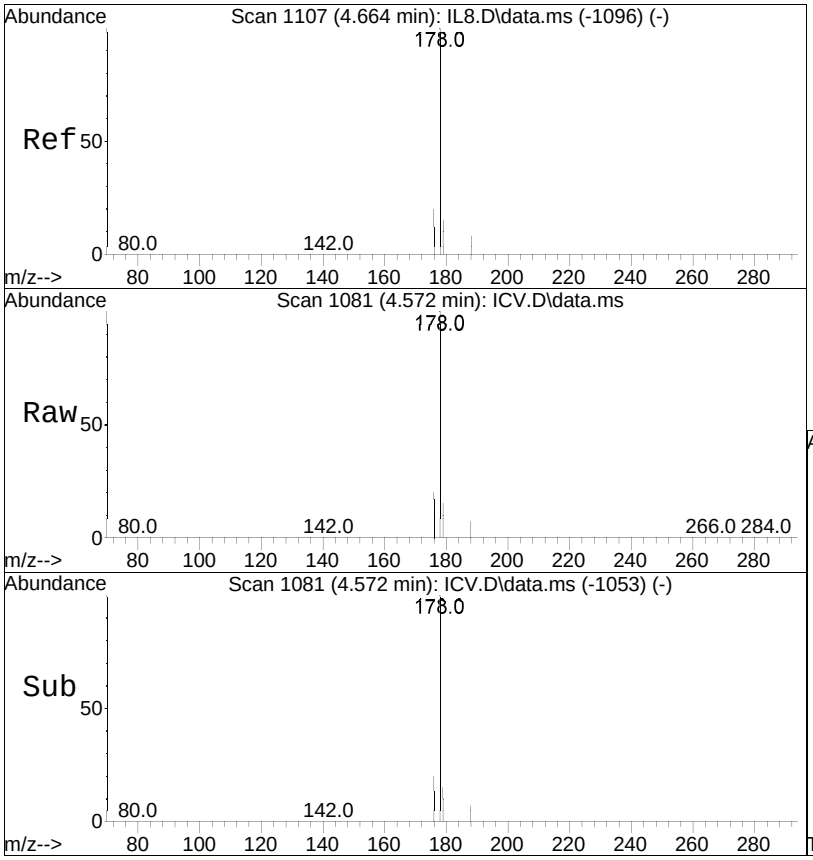


#25
Pentachlorophenol
Concen: 1009.94 ng/ml
RT: 4.463 min Scan# 1042
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:266 Resp: 37954

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.4

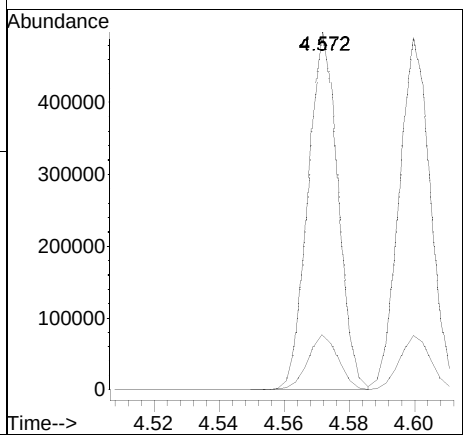


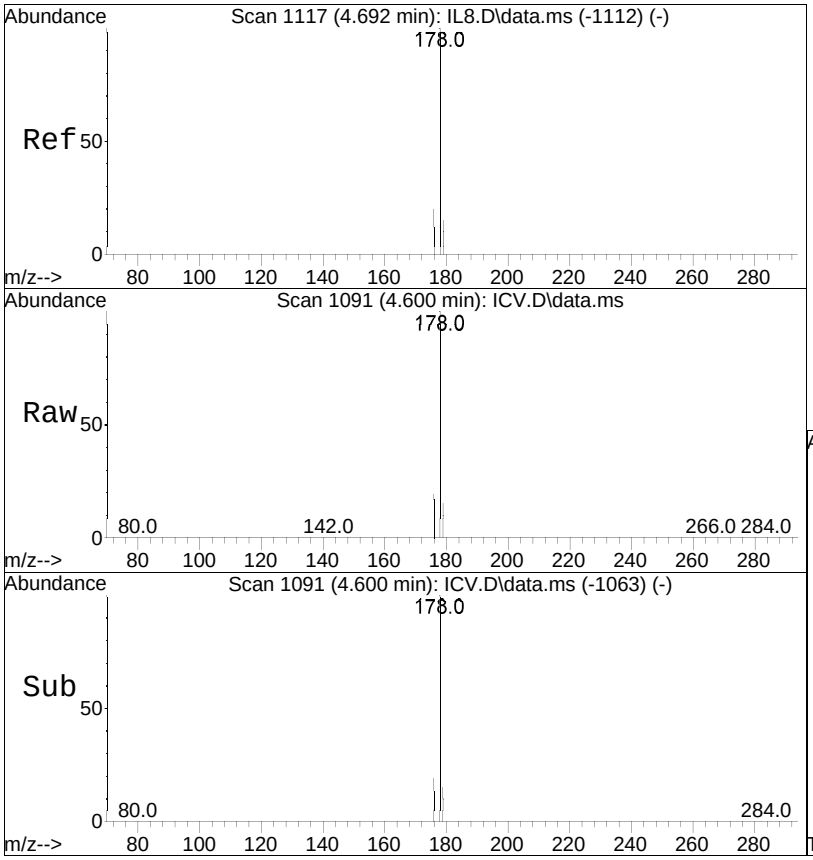


#26
Phenanthrene
Concen: 927.27 ng/ml
RT: 4.572 min Scan# 1081
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:178 Resp: 318819

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

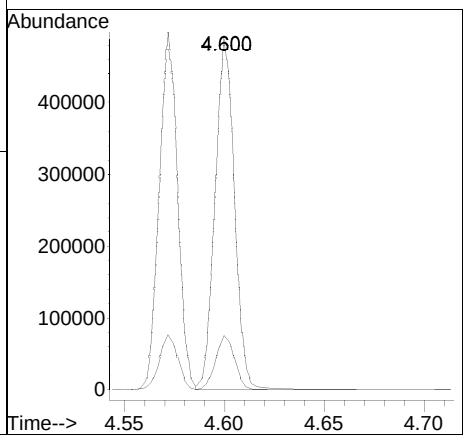


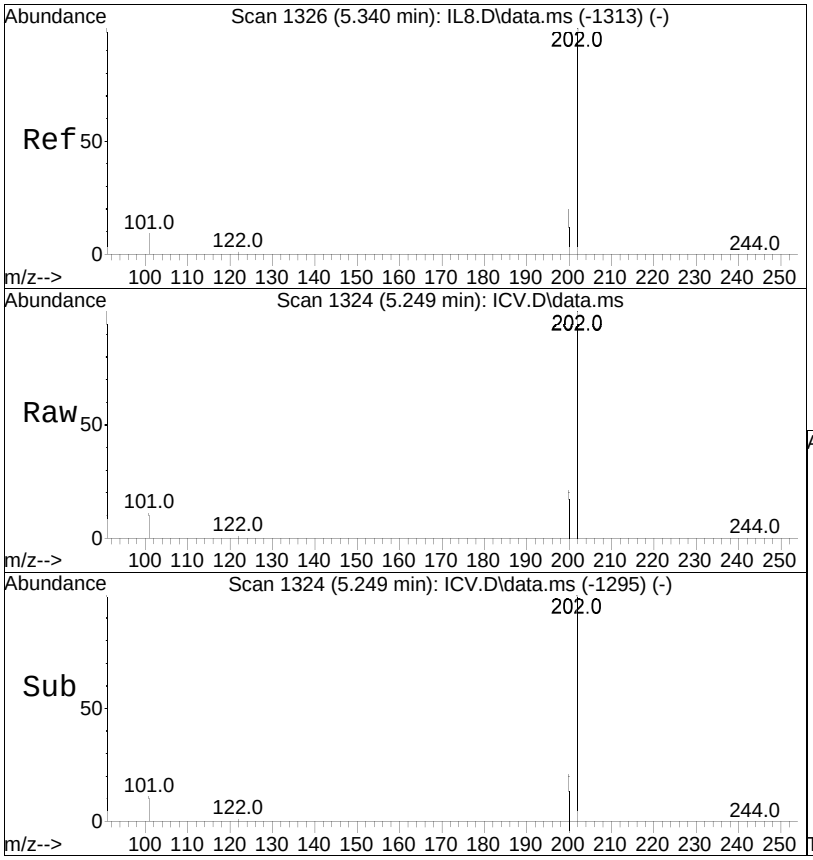


#27
Anthracene
Concen: 977.03 ng/ml
RT: 4.600 min Scan# 1091
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:178 Resp: 329588

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

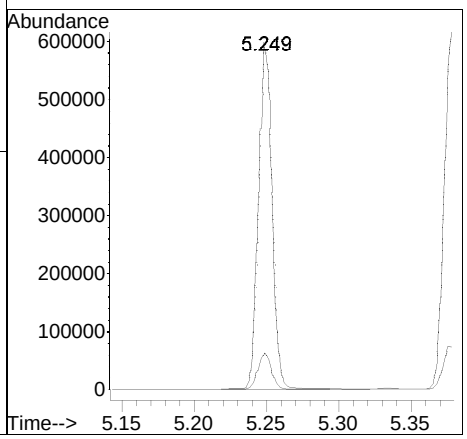


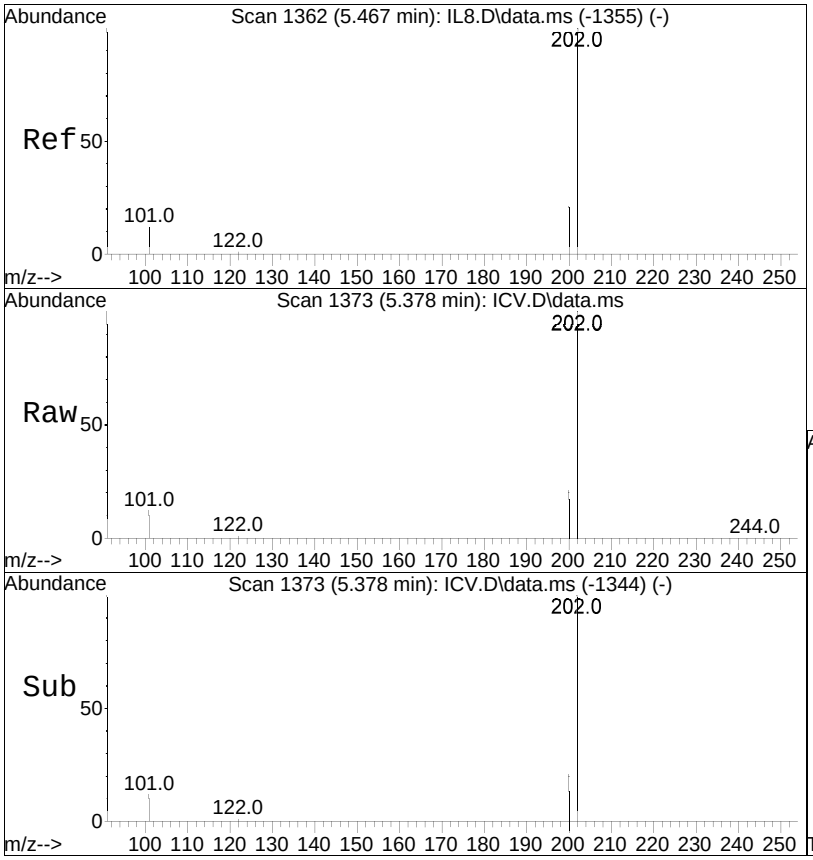


#28
Fluoranthene
Concen: 985.75 ng/ml
RT: 5.249 min Scan# 1324
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:202 Resp: 392481

Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.3	12.5

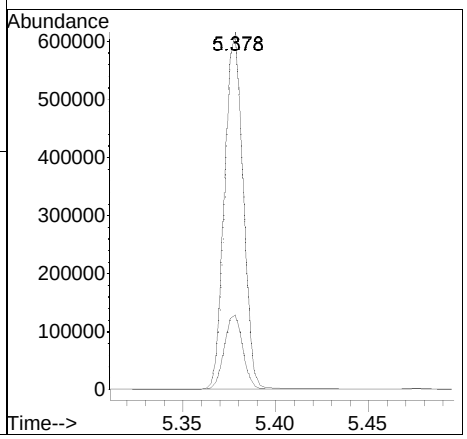


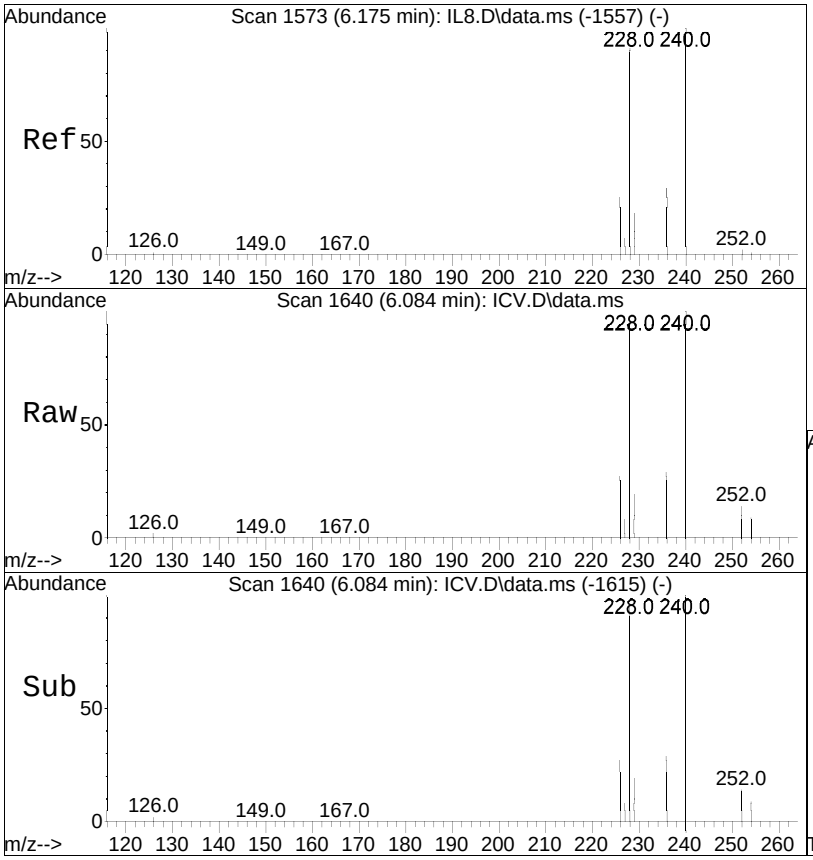


#29
Pyrene
Concen: 999.02 ng/ml
RT: 5.378 min Scan# 1373
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:202 Resp: 420626

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3

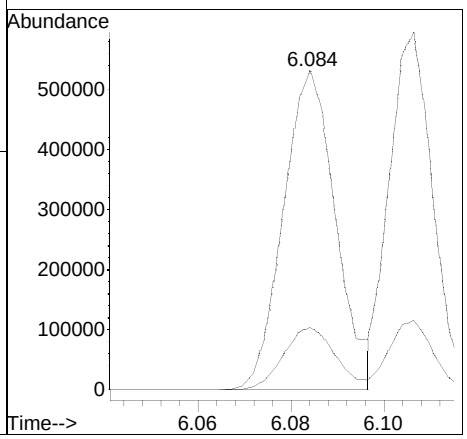


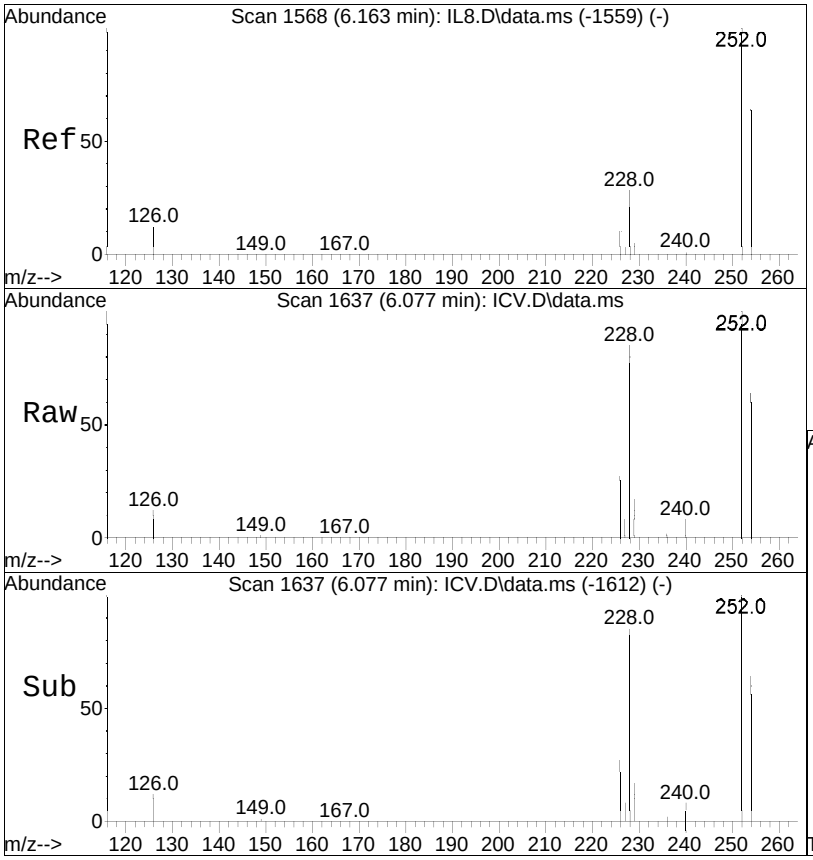


#32
Benzo[a]anthracene
Concen: 994.31 ng/ml
RT: 6.084 min Scan# 1640
Delta R.T. -0.018 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:228 Resp: 416376

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

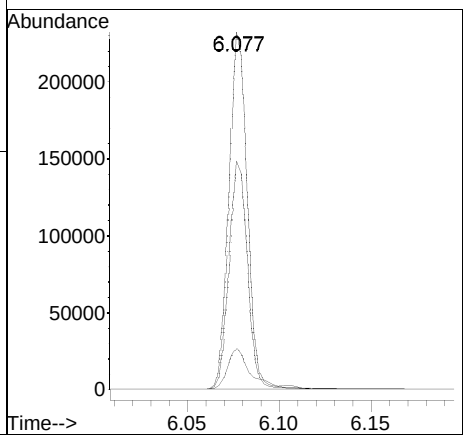


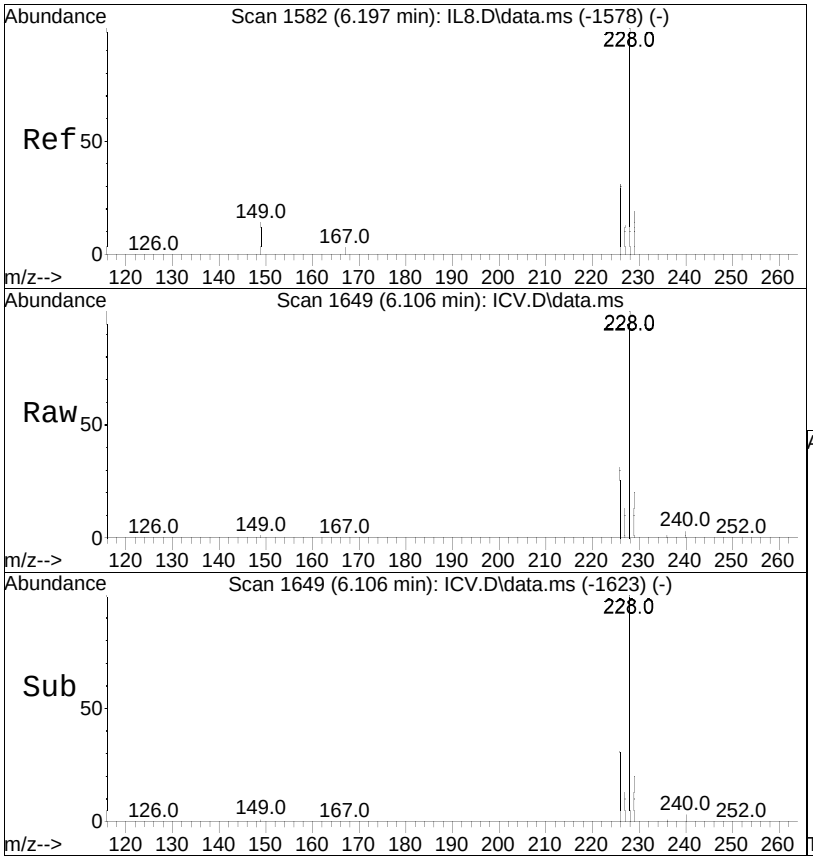


#33
3,3'-Dichlorobenzene
Concen: 1072.10 ng/ml
RT: 6.077 min Scan# 1637
Delta R.T. -0.018 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:252 Resp: 159820

Ion	Ratio	Lower	Upper
252	100		
126	14.2	11.3	16.9
254	64.3	51.4	77.0

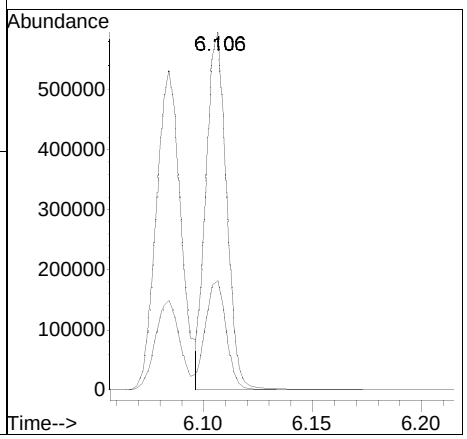


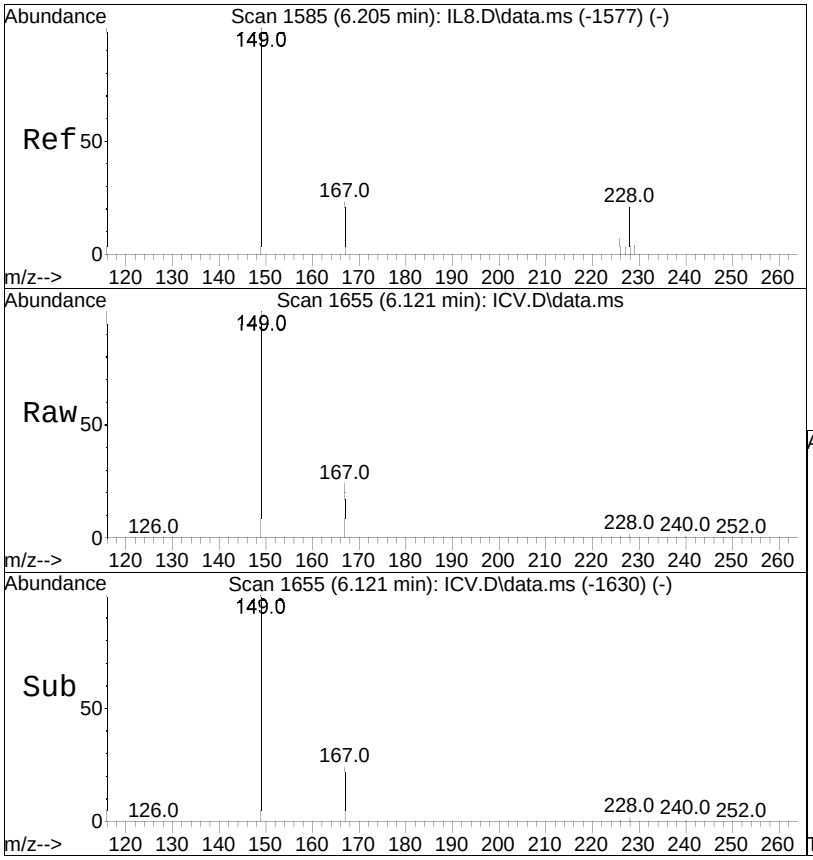


#34
Chrysene
Concen: 980.20 ng/ml
RT: 6.106 min Scan# 1649
Delta R.T. -0.016 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:228 Resp: 387154

Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.6	36.8

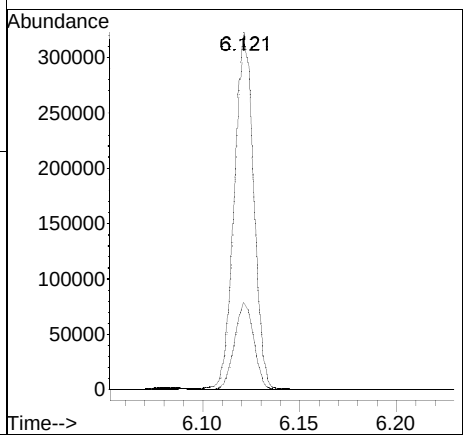


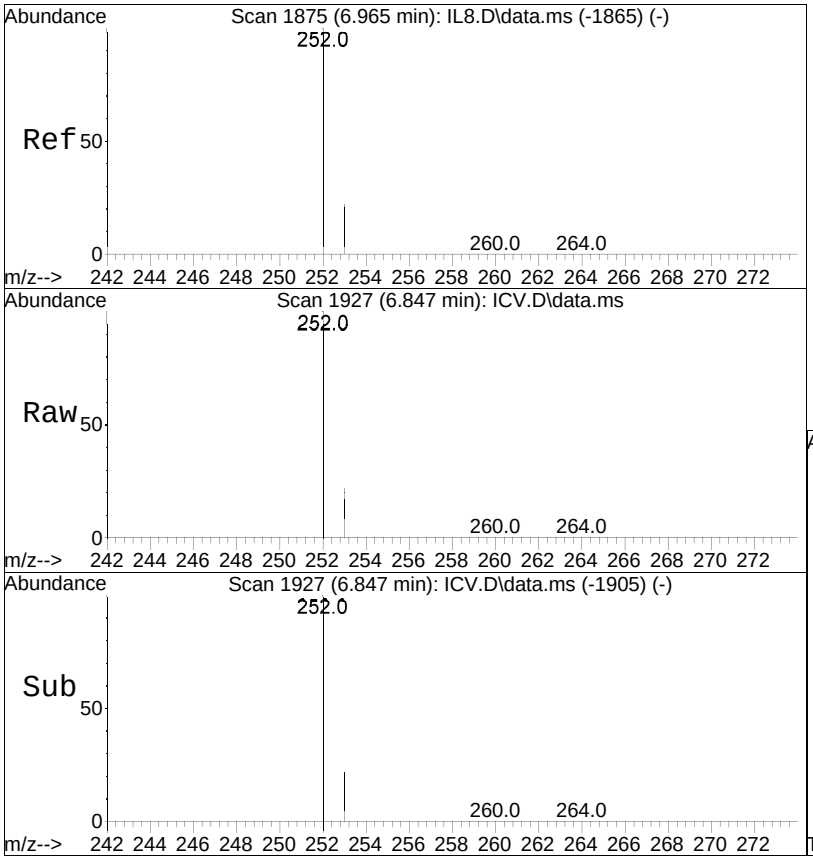


#35
Bis(2-ethylhexyl)phthalate
Concen: 884.10 ng/ml
RT: 6.121 min Scan# 1655
Delta R.T. -0.018 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:149 Resp: 221124

Ion	Ratio	Lower	Upper
149	100		
167	24.4	19.5	29.3

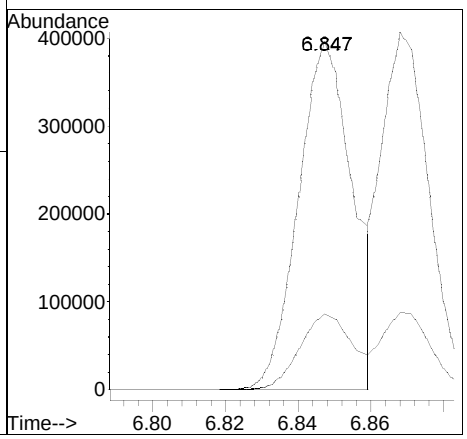


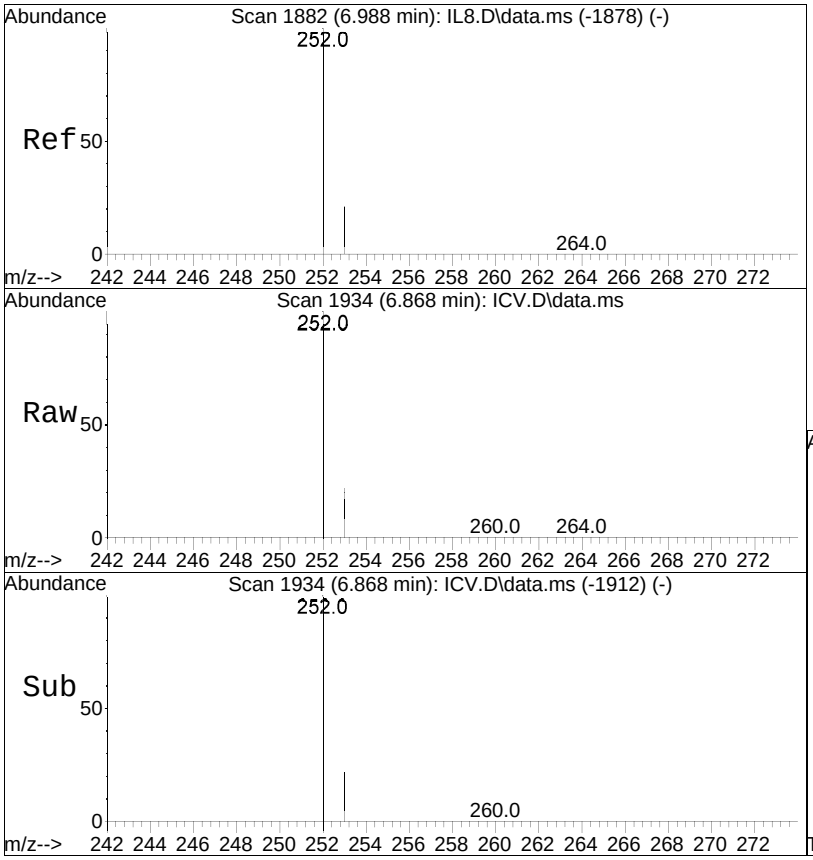


#37
Benzo[b]fluoranthene
Concen: 1048.15 ng/ml
RT: 6.847 min Scan# 1927
Delta R.T. -0.016 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:252 Resp: 411219

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

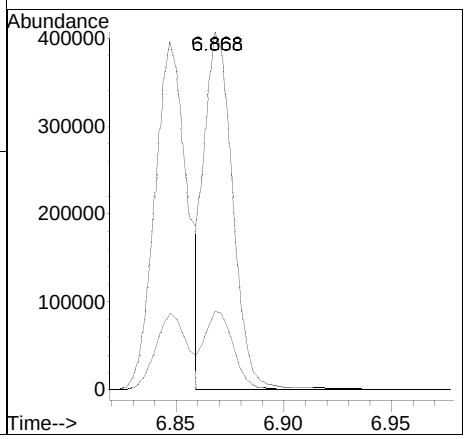


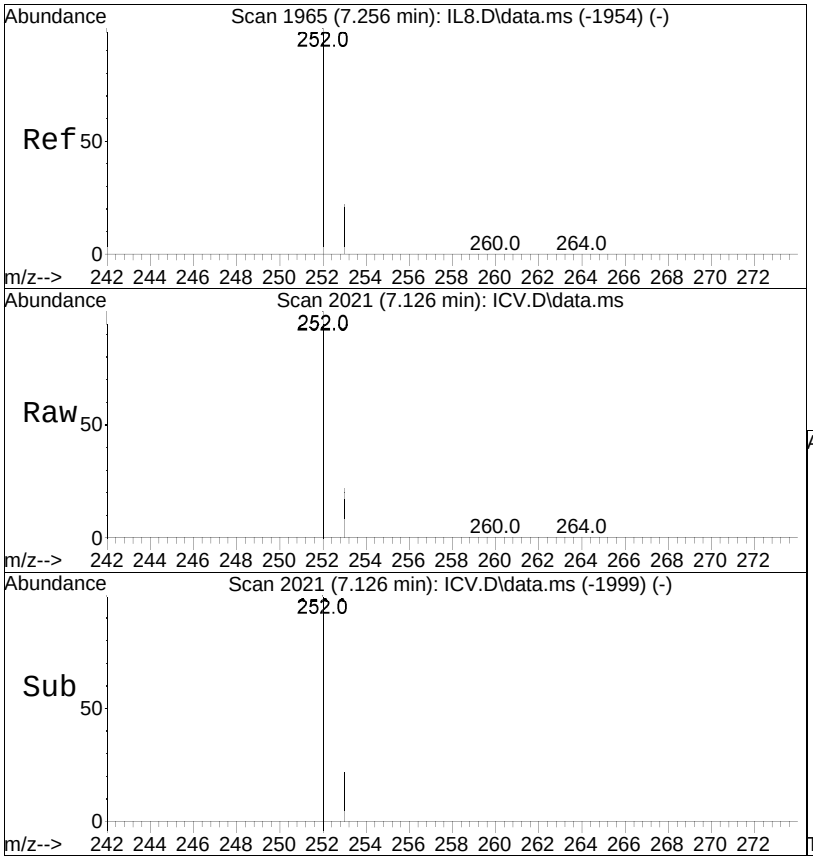


#38
Benzo[k]fluoranthene
Concen: 962.43 ng/ml
RT: 6.868 min Scan# 1934
Delta R.T. -0.016 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:252 Resp: 370464

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3

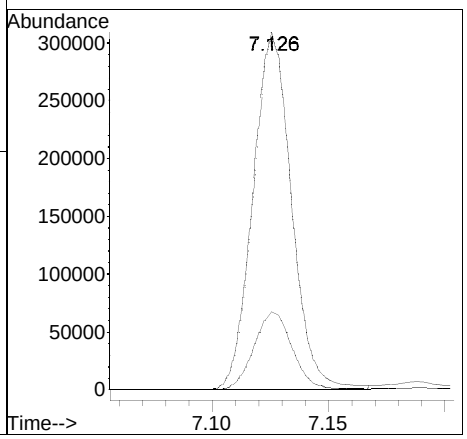


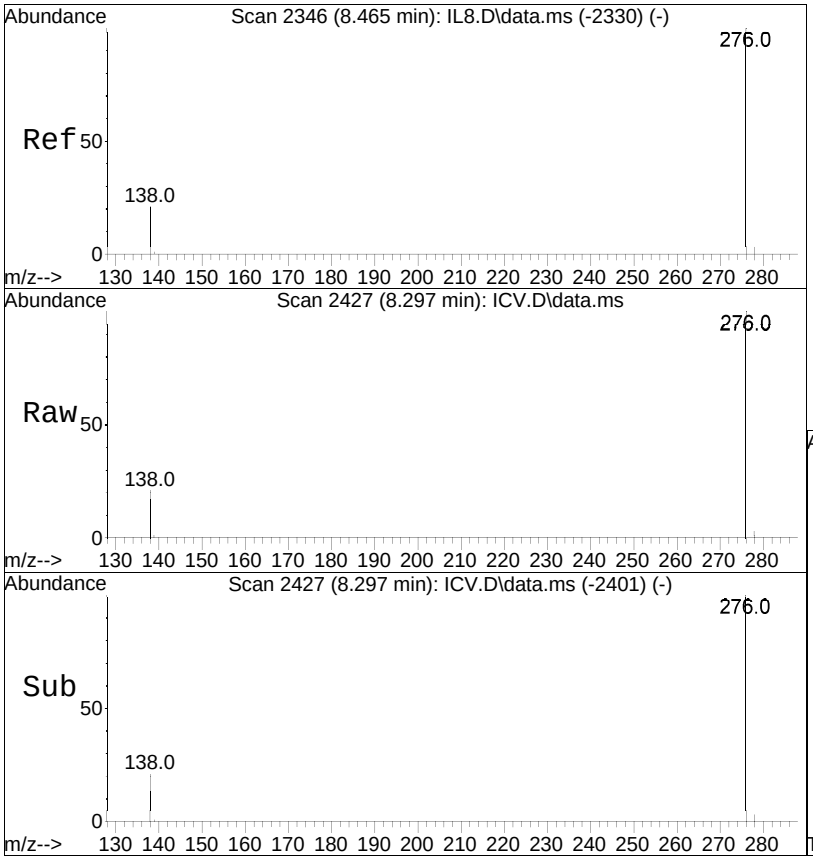


#39
Benzo[a]pyrene
Concen: 1047.75 ng/ml
RT: 7.126 min Scan# 2021
Delta R.T. -0.015 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:252 Resp: 351911

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

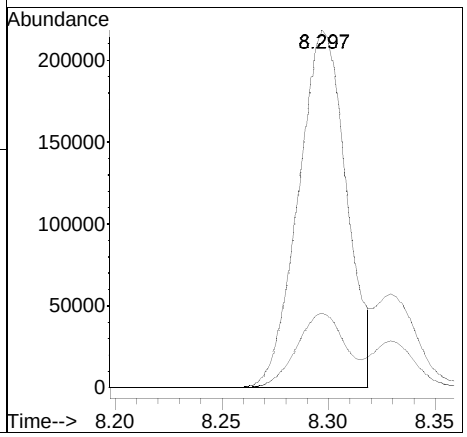


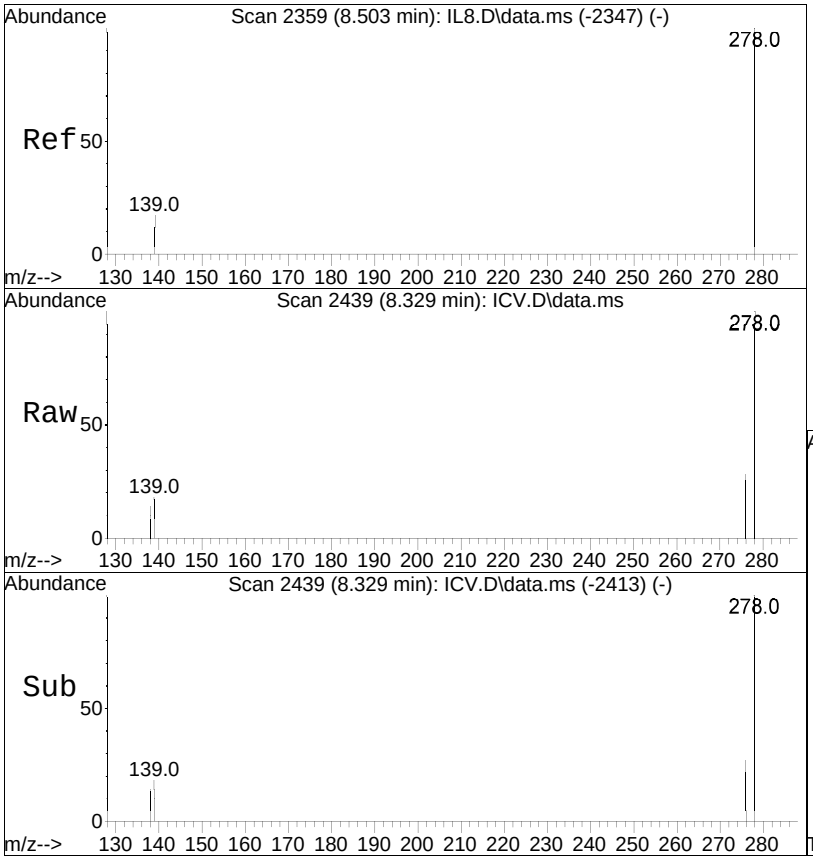


#40
Indeno[1,2,3-cd]pyrene
Concen: 1029.51 ng/ml
RT: 8.297 min Scan# 2427
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:276 Resp: 340008

Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.5	24.7

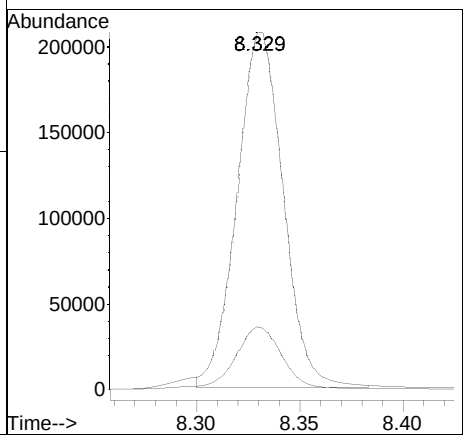


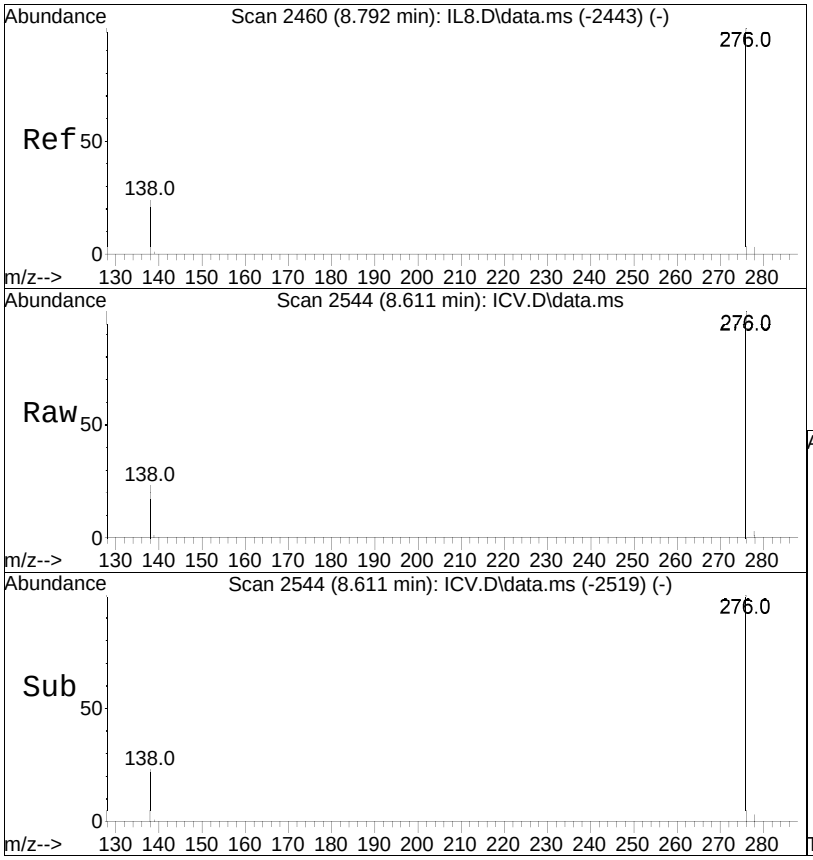


#41
Dibenzo[a,h]anthracene
Concen: 1027.74 ng/ml M6
RT: 8.329 min Scan# 2439
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:278 Resp: 320729

Ion	Ratio	Lower	Upper
278	100		
139	18.2	14.5	21.7

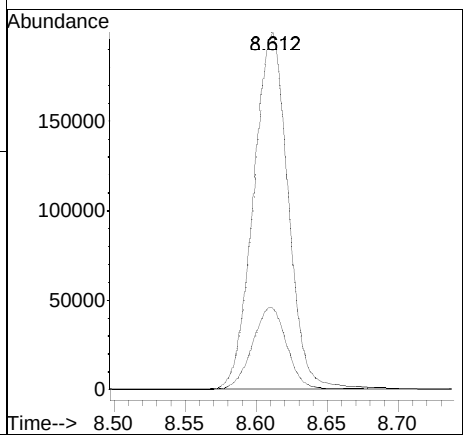




#42
Benzo[g,h,i]perylene
Concen: 992.96 ng/ml
RT: 8.611 min Scan# 2544
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:276 Resp: 332724

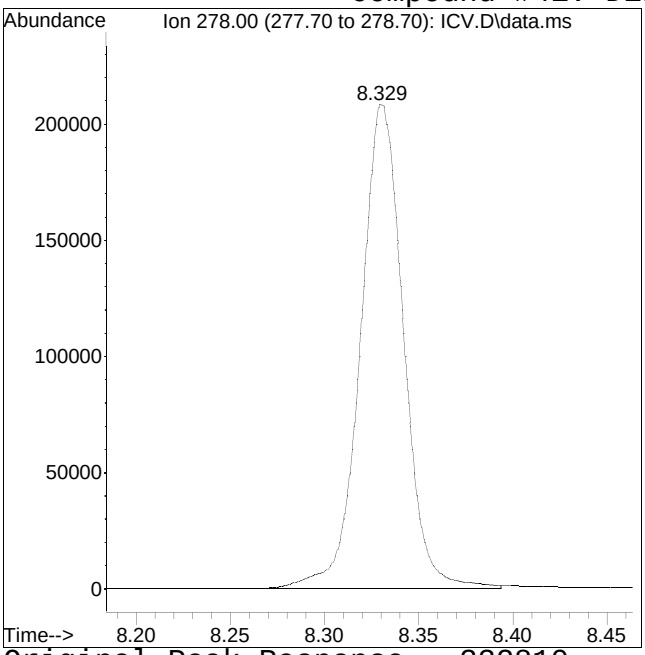
Ion	Ratio	Lower	Upper
276	100		
138	23.2	18.6	27.8



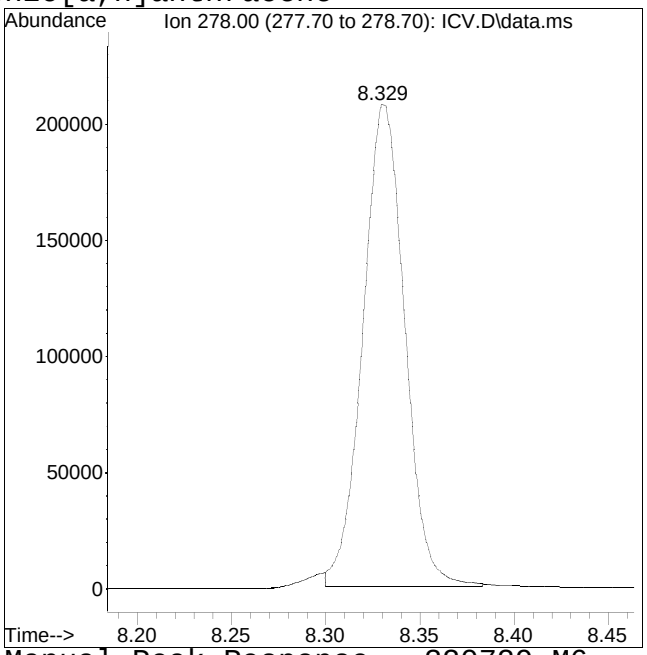
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : ICV.D
Date Inj'd : 9/25/2024 3:35 am
Sample : CQICV,32,,1000.0ng/mL lot
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:29 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 332810



Manual Peak Response = 320729 M6

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

Evaluate Relative Error Report SV120

Method Path : I:\8270SIM\sv120\240925RVTical\
Method File : SIM-RVT_240925_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 25 11:34:07 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15 T	2,6-Dinitrotoluene	L	ng/ml	1000.0	930.350	-7.0	40.00	45.861	14.7
19 T	2,4-Dinitrotoluene	L	ng/ml	1000.0	944.939	-5.5	40.00	45.526	13.8
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	907.573	-9.2	40.00	49.205	23.0
25 T	Pentachlorophenol	Q	ng/ml	1000.0	1044.089	4.4	10.00	12.924	29.2
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	992.014	-0.8	1.00	1.060	6.0
35 T	Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	895.579	-10.4	40.00	50.024	25.1

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15 T	2,6-Dinitrotoluene	Linear	0.998447	0.000000	0.165382	-0.000660423
19 T	2,4-Dinitrotoluene	Linear	0.998877	0.000000	0.396311	-0.00197905
23 T	4,6-Dinitro-o-cresol	Linear	0.997205	0.000000	0.118674	-0.000860124
25 T	Pentachlorophenol	Quadratic	0.998471	0.084679	0.0891925	-0.000128471
32 T	Benzo[a]anthracene	Linear	0.999248	0.000000	1.18947	0.00302116
35 T	Bis(2-ethylhexyl)phthalate	Linear	0.996537	0.000000	0.738055	-0.0045008

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 09/27/24 08:06		
Lab File ID	: CCV0927	**Init. Calib. Date(s)**	: 09/25/24	09/25/24	
Sample No	: WG1977136-3	**Init. Calib. Times**	: 00:46	03:18	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	126	0
2-Fluorophenol	1.106	1.183	.05	-7	20	135	0
Phenol-d6	1.298	1.408	.05	-8.5	20	134	0
Bis(2-chloroethyl)ether	1.138	1.126	.05	1.1	20	129	0
n-nitrosodi-n-propylamine	0.77	0.791	.05	-2.7	20	130	0
Hexachloroethane	0.49	0.504	.05	-2.9	20	133	0
Nitrobenzene-d5	1.097	1.199	.05	-9.3	20	133	0
Naphthalene-d8	1	1	.05	0	20	125	0
Naphthalene	0.997	0.975	.05	2.2	20	130	0
Hexachlorobutadiene	0.191	0.198	.05	-3.7	20	135	0
2-Methylnaphthalene	0.627	0.666	.05	-6.2	20	133	0
1-Methylnaphthalene	0.605	0.611	.05	-1	20	132	0
2-Fluorobiphenyl	0.759	0.773	.05	-1.8	20	132	0
2-Chloronaphthalene	0.654	0.667	.05	-2	20	129	0
2,6-Dinitrotoluene	1000	960.1	.05	4	20	129	0
Acenaphthylene	0.951	1.014	.05	-6.6	20	132	0
Acenaphthene-d10	1	1	.05	0	20	125	0
Acenaphthene	1.195	1.203	.05	-0.7	20	130	0
2,4-Dinitrotoluene	1000	974.249	.05	2.6	20	129	0
Fluorene	1.32	1.366	.05	-3.5	20	131	0
2,4,6-Tribromophenol	0.179	0.211	.05	-17.9	20	135	0
Phenanthrene-d10	1	1	.05	0	20	120	0
4,6-Dinitro-o-cresol	1000	979.862	.05	2	20	130	0
Hexachlorobenzene	0.23	0.236	.05	-2.6	20	127	0
Pentachlorophenol	1000	1122.011	.05	-12.2	20	131	0
Phenanthrene	1.007	1.019	.05	-1.2	20	125	0
Anthracene	0.988	1.038	.05	-5.1	20	127	0
Fluoranthene	1.166	1.194	.05	-2.4	20	124	0
Pyrene	1.233	1.247	.05	-1.1	20	122	0
4-Terphenyl-d14	0.701	0.701	.05	0	20	121	0
Chrysene-d12	1	1	.05	0	20	107	0
Benzo[a]anthracene	1000	1083.219	.05	-8.3	20	117	0
3,3'-Dichlorobenzene	0.428	0.502	.05	-17.3	20	121	0
Chrysene	1.133	1.232	.05	-8.7	20	113	0
Bis(2-ethylhexyl)phthalate	1000	1068.011	.05	-6.8	20	128	0
Perylene-d12	1	1	.05	0	20	102	0
Benzo[b]fluoranthene	1.104	1.232	.05	-11.6	20	109	0
Benzo[k]fluoranthene	1.084	1.201	.05	-10.8	20	113	0
Benzo[a]pyrene	0.946	1.093	.05	-15.5	20	111	0
Indeno[1,2,3-cd]pyrene	0.93	1.079	.05	-16	20	110	0
Dibenzo[a,h]anthracene	0.879	1.02	.05	-16	20	111	0
Benzo[g,h,i]perylene	0.943	1.033	.05	-9.5	20	107	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : ccv0927.D
Acq On : 27 Sep 2024 08:06 am
Operator : SV120:rp
Sample : WG1977136-3,32,,ICV 10884 (0921)
Misc : WG1977136,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 27 08:21:39 2024
Quant Method : I:\8270SIM\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:44 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	126	0.00
2	s	2-Fluorophenol	1.106	1.183	-7.0	135	0.00
3	s	Phenol-d6	1.298	1.408	-8.5	134	0.00
4	T	Bis(2-chloroethyl)ether	1.138	1.126	1.1	129	0.00
5	T	n-nitrosodi-n-propylamine	0.770	0.791	-2.7	130	0.00
6	t	Hexachloroethane	0.490	0.504	-2.9	133	0.00
7	s	Nitrobenzene-d5	1.097	1.199	-9.3	133	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	125	0.00
9	t	Naphthalene	0.997	0.975	2.2	130	0.00
10	t	Hexachlorobutadiene	0.191	0.198	-3.7	135	0.00
11	t	2-Methylnaphthalene	0.627	0.666	-6.2	133	0.00
12	t	1-Methylnaphthalene	0.605	0.611	-1.0	132	0.00
13	s	2-Fluorobiphenyl	0.759	0.773	-1.8	132	0.00
14	t	2-Chloronaphthalene	0.654	0.667	-2.0	129	0.00
15	t	2,6-Dinitrotoluene	*1000.000	960.100	4.0	129	0.00
16	t	Acenaphthylene	0.951	1.014	-6.6	132	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	125	0.00
18	t	Acenaphthene	1.195	1.203	-0.7	130	0.00
19	t	2,4-Dinitrotoluene	*1000.000	974.249	2.6	129	0.00
20	t	Fluorene	1.320	1.366	-3.5	131	0.00
21	s	2,4,6-Tribromophenol	0.179	0.211	-17.9	135	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	120	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	979.862	2.0	130	0.00
24	t	Hexachlorobenzene	0.230	0.236	-2.6	127	0.00
25	t	Pentachlorophenol	*1000.000	1122.011	-12.2	131	0.00
26	t	Phenanthrene	1.007	1.019	-1.2	125	0.00
27	t	Anthracene	0.988	1.038	-5.1	127	0.00
28	t	Fluoranthene	1.166	1.194	-2.4	124	0.00
29	t	Pyrene	1.233	1.247	-1.1	122	0.00
30	s	4-Terphenyl-d14	0.701	0.701	0.0	121	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	107	0.00
32	t	Benzo[a]anthracene	*1000.000	1083.219	-8.3	117	0.00
33	t	3,3'-Dichlorobenzene	0.428	0.502	-17.3	121	0.00
34	t	Chrysene	1.133	1.232	-8.7	113	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	1068.011	-6.8	128	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : ccv0927.D
Acq On : 27 Sep 2024 08:06 am
Operator : SV120:rp
Sample : WG1977136-3,32,,ICV 10884 (0921)
Misc : WG1977136,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 27 08:21:39 2024
Quant Method : I:\8270SIM\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:44 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	102	0.00
37	t	Benzo[b]fluoranthene	1.104	1.232	-11.6	109	0.00
38	t	Benzo[k]fluoranthene	1.084	1.201	-10.8	113	0.00
39	t	Benzo[a]pyrene	0.946	1.093	-15.5	111	0.00
40	t	Indeno[1,2,3-cd]pyrene	0.930	1.079	-16.0	110	0.00
41	t	Dibenzo[a,h]anthracene	0.879	1.020	-16.0	111	0.00
42	t	Benzo[g,h,i]perylene	0.943	1.033	-9.5	107	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : ccv0927.D
Acq On : 27 Sep 2024 08:06 am
Operator : SV120:rp
Sample : WG1977136-3,32,,ICV 10884 (0921)
Misc : WG1977136,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 27 08:21:39 2024
Quant Method : I:\8270SIM\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.094	152	396038	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.747	136	1485677	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.718	164	844424	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.553	188	1642445	4000.000	ng/ml	0.00
31) Chrysene-d12	6.087	240	1466707	4000.000	ng/ml	0.00
36) Perylene-d12	7.183	264	1469555	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.534	112	117081	1069.237	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.46%			
3) Phenol-d6	1.918	99	139444	1084.900	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.25%			
7) Nitrobenzene-d5	2.372	82	118663	1092.182	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 109.22%			
13) 2-Fluorobiphenyl	3.343	172	287204	1018.232	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.82%			
21) 2,4,6-Tribromophenol	4.163	330	44576	1180.189	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 59.01%			
30) 4-Terphenyl-d14	5.471	244	287963	1001.088	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 50.05%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.964	93	111450	989.174	ng/ml	97
5) n-nitrosodi-n-propylamine	2.294	70	78362	1028.041	ng/ml	99
6) Hexachloroethane	2.347	117	49933	1029.778	ng/ml	100
9) Naphthalene	2.760	128	362242	978.139	ng/ml	100
10) Hexachlorobutadiene	2.833	225	73361	1034.887	ng/ml	100
11) 2-Methylnaphthalene	3.137	142	247414	1062.164	ng/ml	100
12) 1-Methylnaphthalene	3.190	142	226788	1009.187	ng/ml	100
14) 2-Chloronaphthalene	3.406	162	247748	1020.666	ng/ml	100
15) 2,6-Dinitrotoluene	3.604	165	57994	960.100	ng/ml	99
16) Acenaphthylene	3.637	152	376596	1066.524	ng/ml	100
18) Acenaphthene	3.734	153	254017	1006.759	ng/ml	100
19) 2,4-Dinitrotoluene	3.832	165	79838	974.249	ng/ml	99
20) Fluorene	4.025	166	288334	1034.637	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.061	198	46335	979.862	ng/ml	99
24) Hexachlorobenzene	4.342	284	97090	1028.201	ng/ml	99
25) Pentachlorophenol	4.456	266	51824	1122.011	ng/ml	100
26) Phenanthrene	4.567	178	418565	1012.300	ng/ml	100
27) Anthracene	4.595	178	426044	1050.210	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : ccv0927.D
Acq On : 27 Sep 2024 08:06 am
Operator : SV120:rp
Sample : WG1977136-3,32,,ICV 10884 (0921)
Misc : WG1977136,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 27 08:21:39 2024
Quant Method : I:\8270SIM\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.244	202	490377	1024.154	ng/ml	100
29) Pyrene	5.371	202	511892	1010.981	ng/ml	100
32) Benzo[a]anthracene	6.080	228	476880	1083.219	ng/ml	100
33) 3,3'-Dichlorobenzene	6.073	252	184173	1174.201	ng/ml	100
34) Chrysene	6.102	228	451841	1087.252	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.117	149	282432	1068.011	ng/ml	100
37) Benzo[b]fluoranthene	6.840	252	452802	1115.903	ng/ml	100
38) Benzo[k]fluoranthene	6.863	252	441060	1107.867	ng/ml	100
39) Benzo[a]pyrene	7.121	252	401408	1155.516	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.287	276	396416	1160.539	ng/ml	98
41) Dibenzo[a,h]anthracene	8.322	278	374758M6	1161.085	ng/ml	
42) Benzo[g,h,i]perylene	8.601	276	379358	1094.615	ng/ml	99

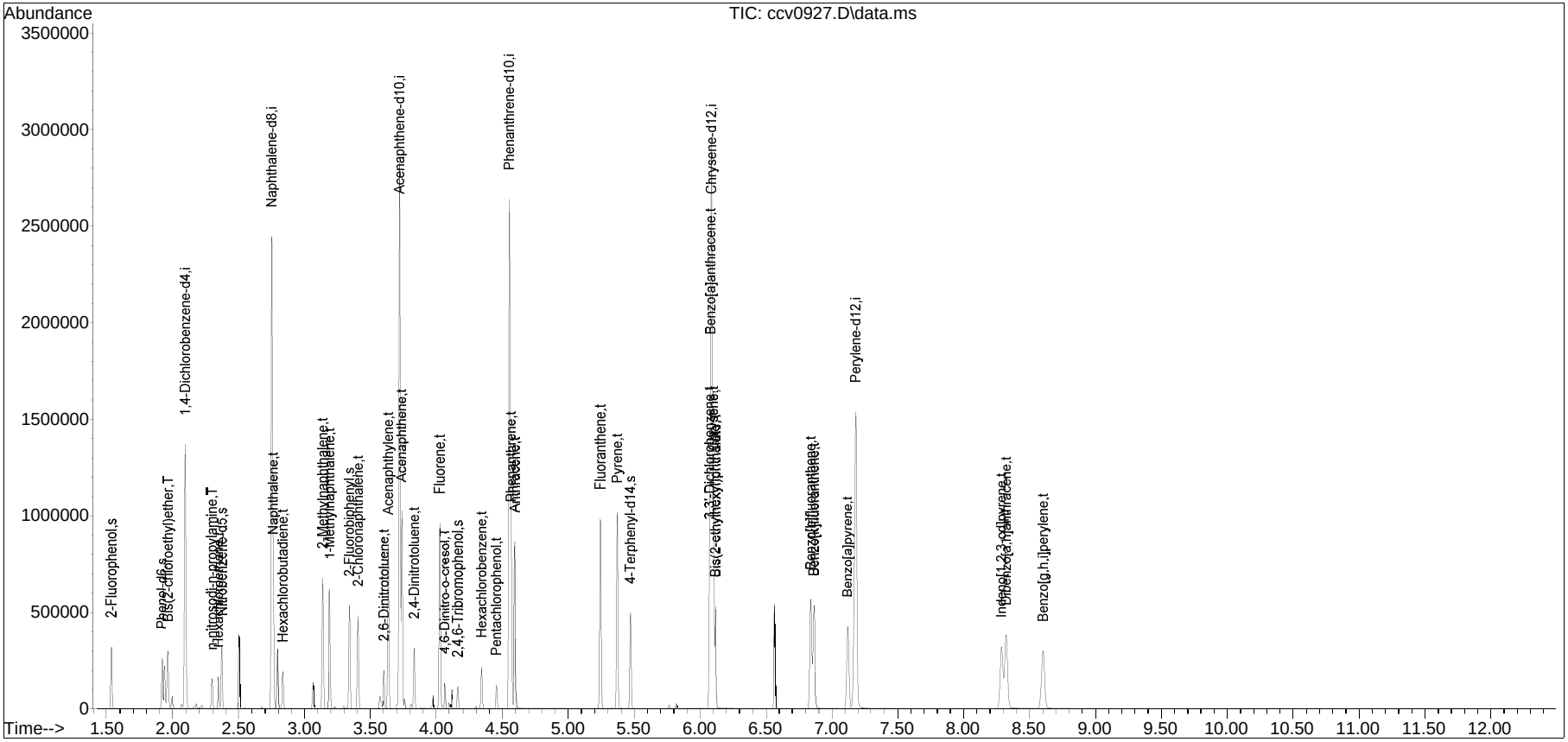
(#) = qualifier out of range (m) = manual integration (+) = signals summed

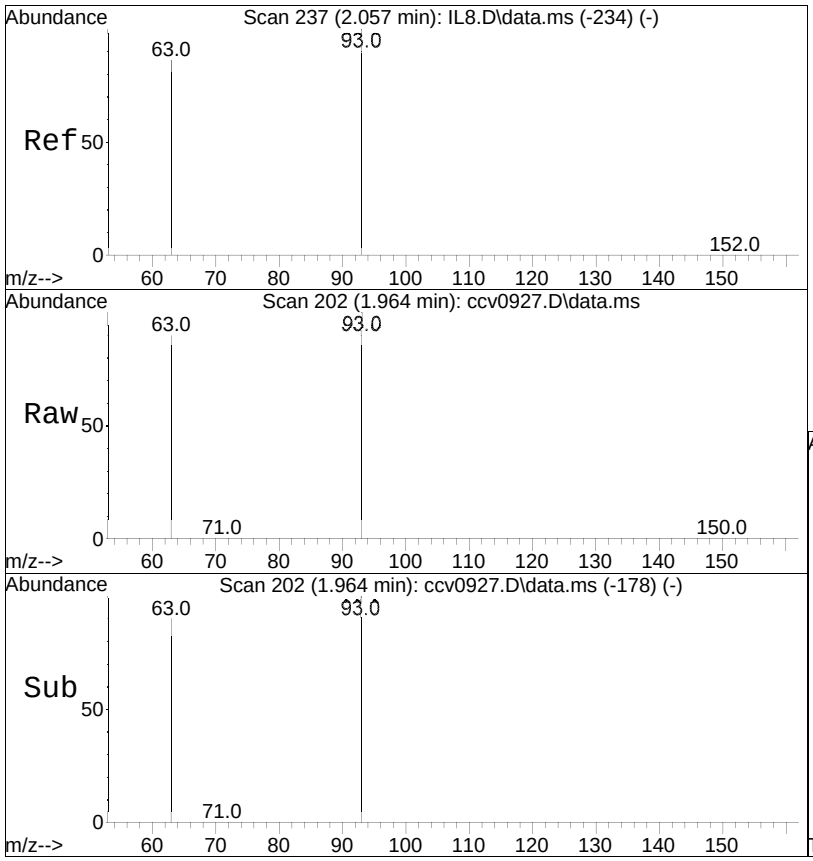
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : ccv0927.D
Acq On : 27 Sep 2024 08:06 am
Operator : SV120:rp
Sample : WG1977136-3,32,,ICV 10884 (0921)
Misc : WG1977136,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 27 08:21:39 2024
Quant Method : I:\8270SIM\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

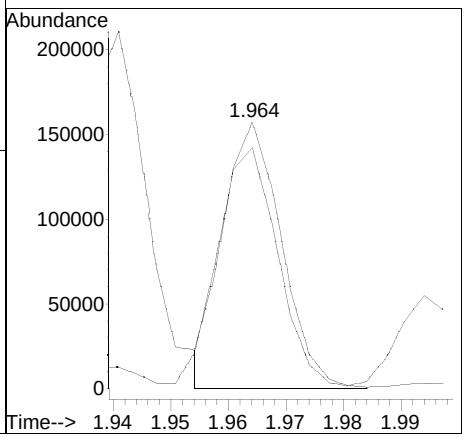


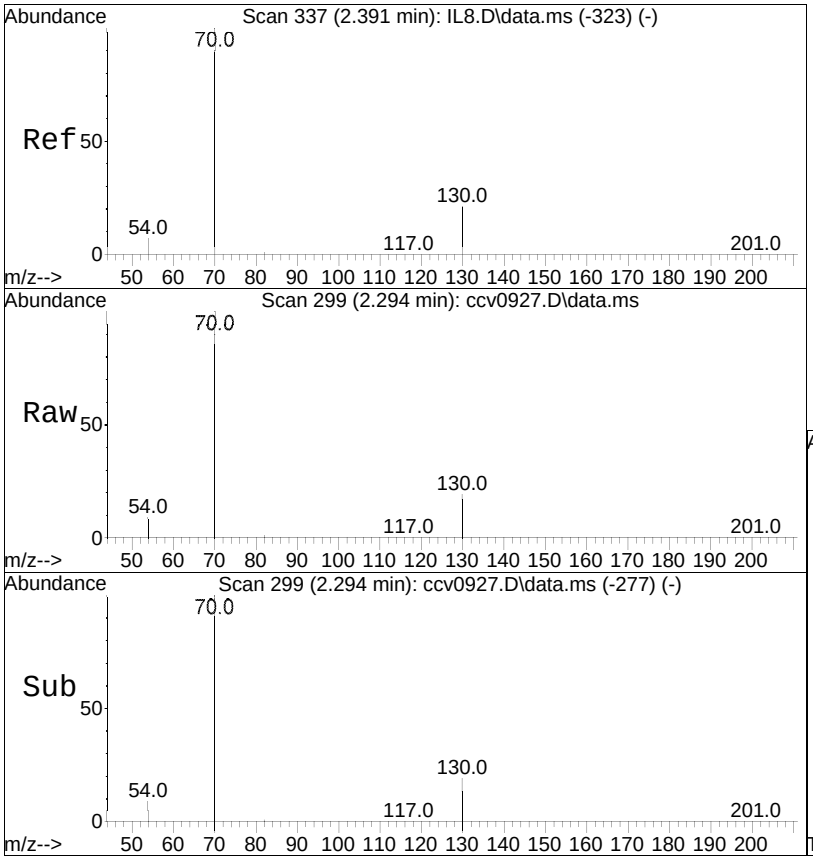


#4
Bis(2-chloroethyl)ether
Concen: 989.17 ng/ml
RT: 1.964 min Scan# 202
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion: 93 Resp: 111450

Ion	Ratio	Lower	Upper
93	100		
63	93.6	73.0	109.4

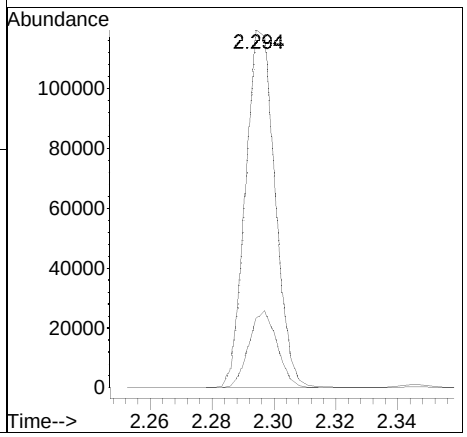


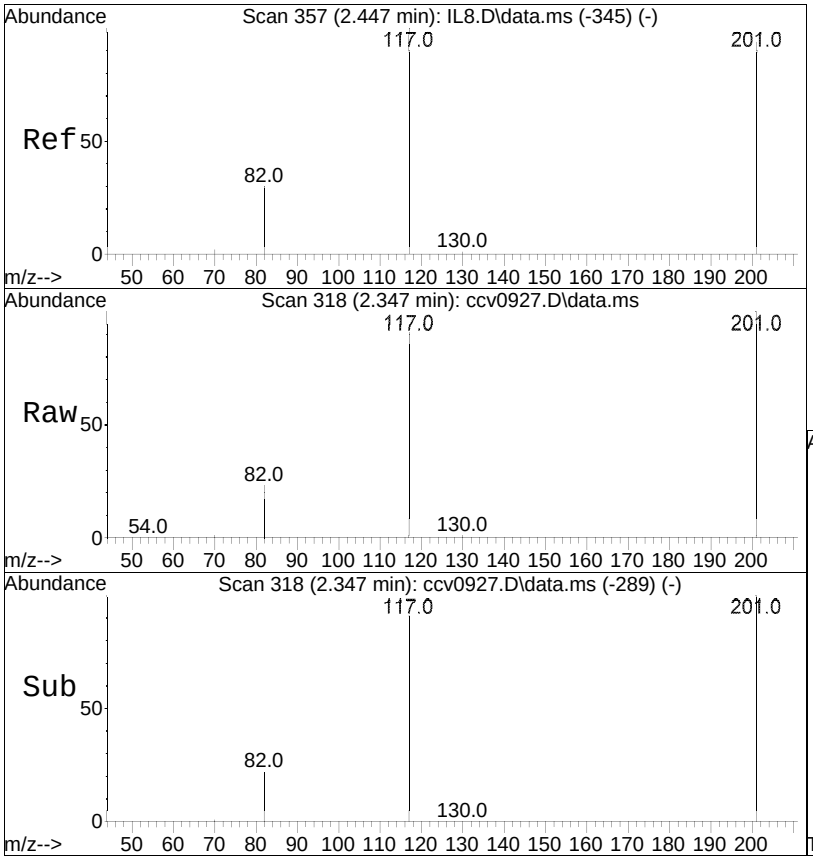


#5
n-nitrosodi-n-propylamine
Concen: 1028.04 ng/ml
RT: 2.294 min Scan# 299
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion: 70 Resp: 78362

Ion	Ratio	Lower	Upper
70	100		
130	20.8	16.4	24.6

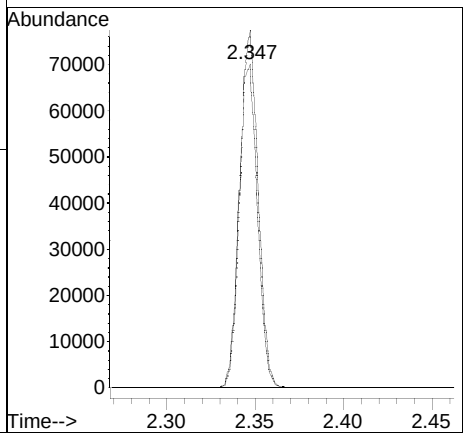


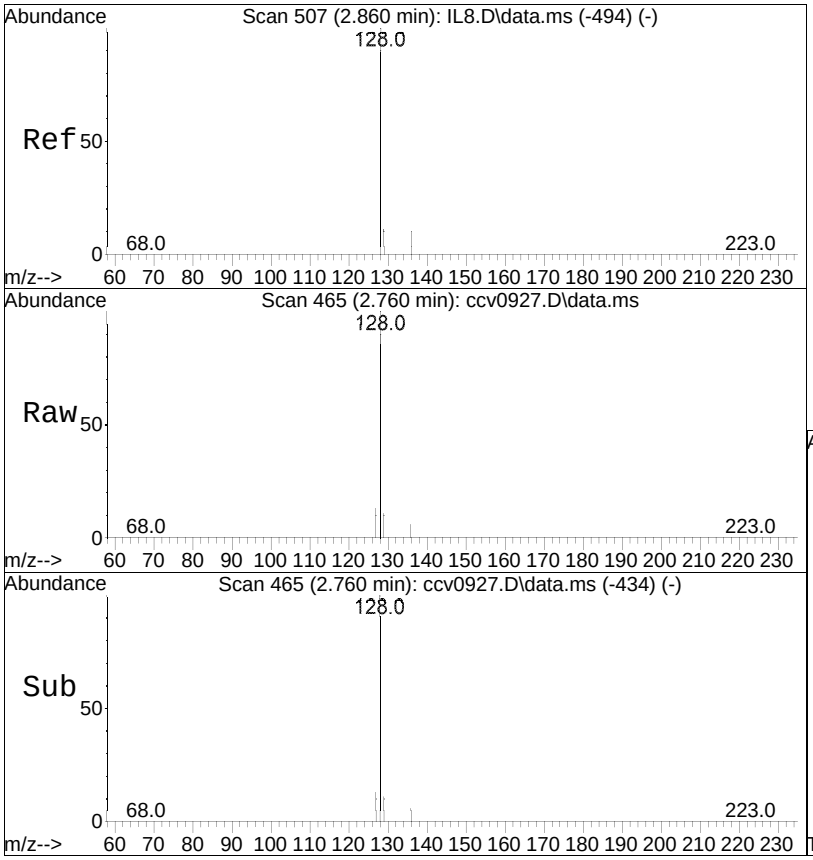


#6
Hexachloroethane
Concen: 1029.78 ng/ml
RT: 2.347 min Scan# 318
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:117 Resp: 49933

Ion	Ratio	Lower	Upper
117	100		
201	107.9	86.2	129.2

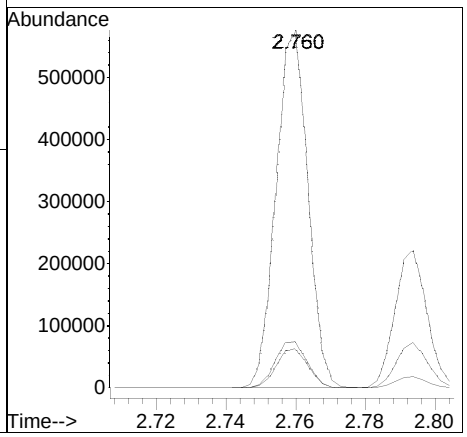


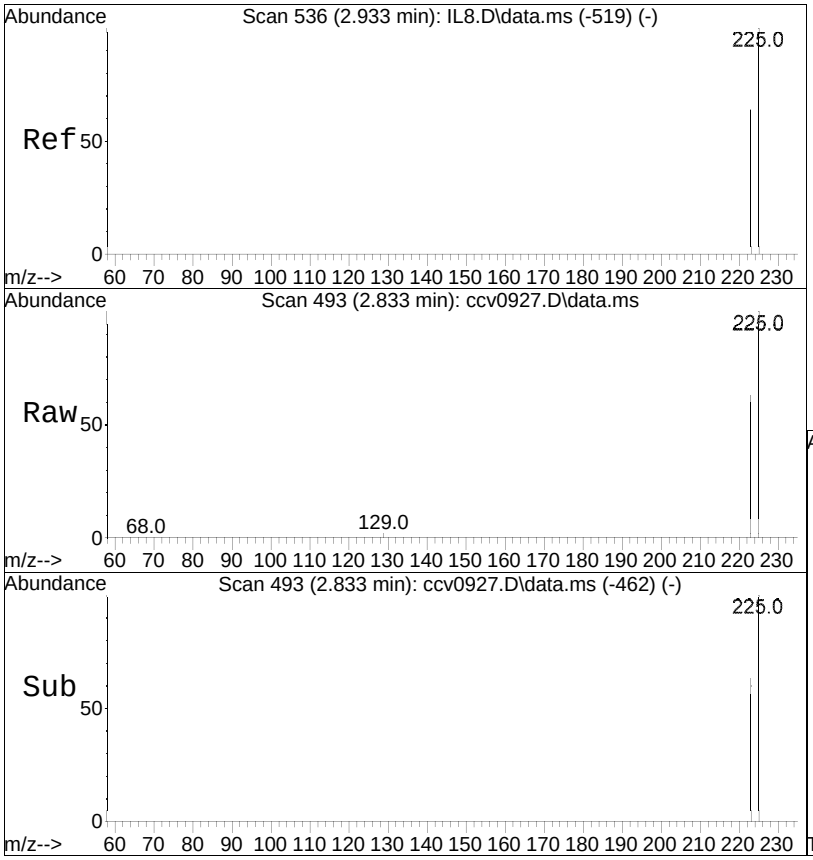


#9
Naphthalene
Concen: 978.14 ng/ml
RT: 2.760 min Scan# 465
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:128 Resp: 362242

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.3	10.6	16.0

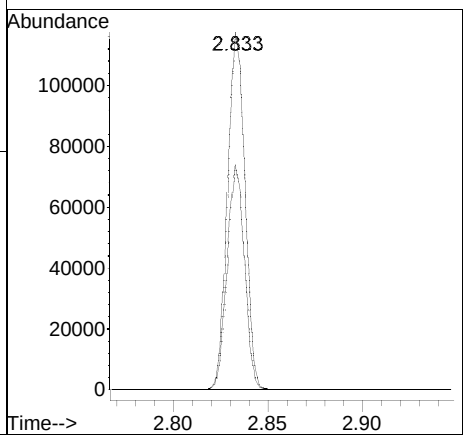


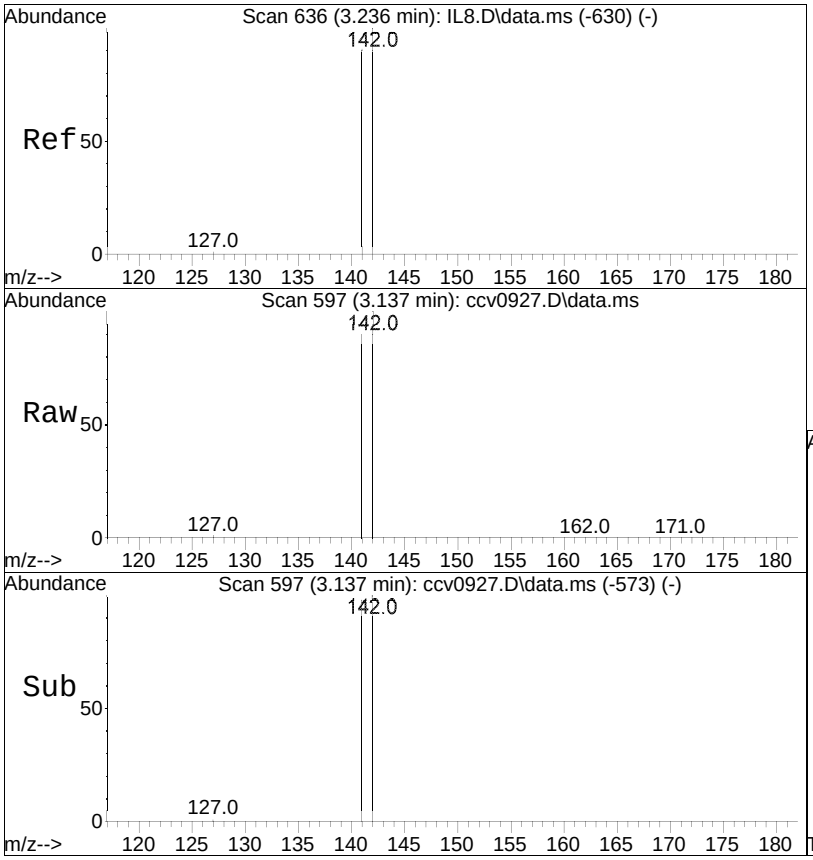


#10
Hexachlorobutadiene
Concen: 1034.89 ng/ml
RT: 2.833 min Scan# 493
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:225 Resp: 73361

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5

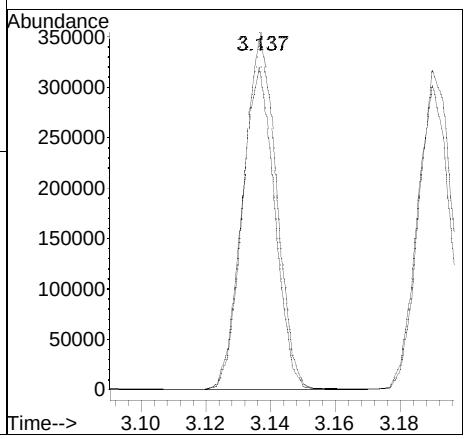


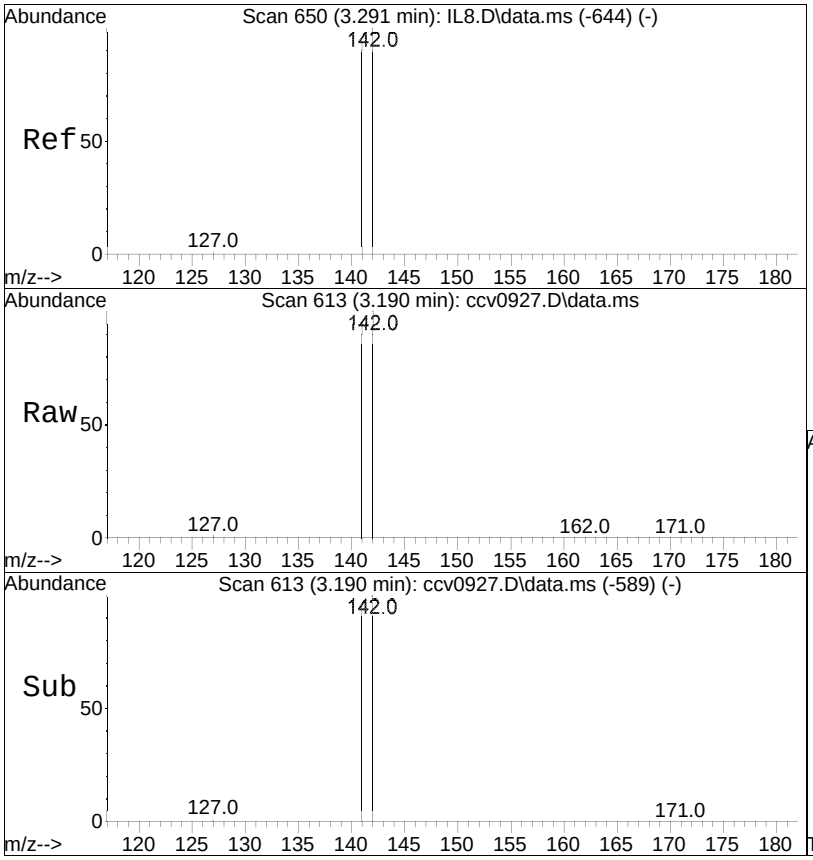


#11
2-Methylnaphthalene
Concen: 1062.16 ng/ml
RT: 3.137 min Scan# 597
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:142 Resp: 247414

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.3	109.9

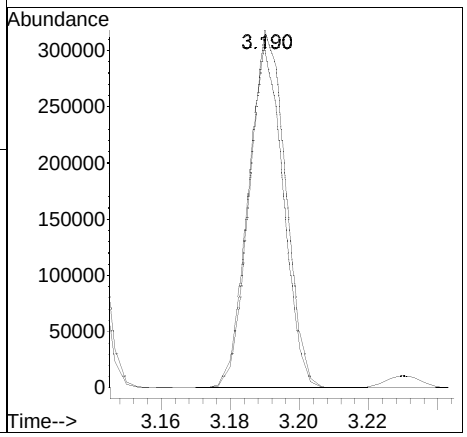


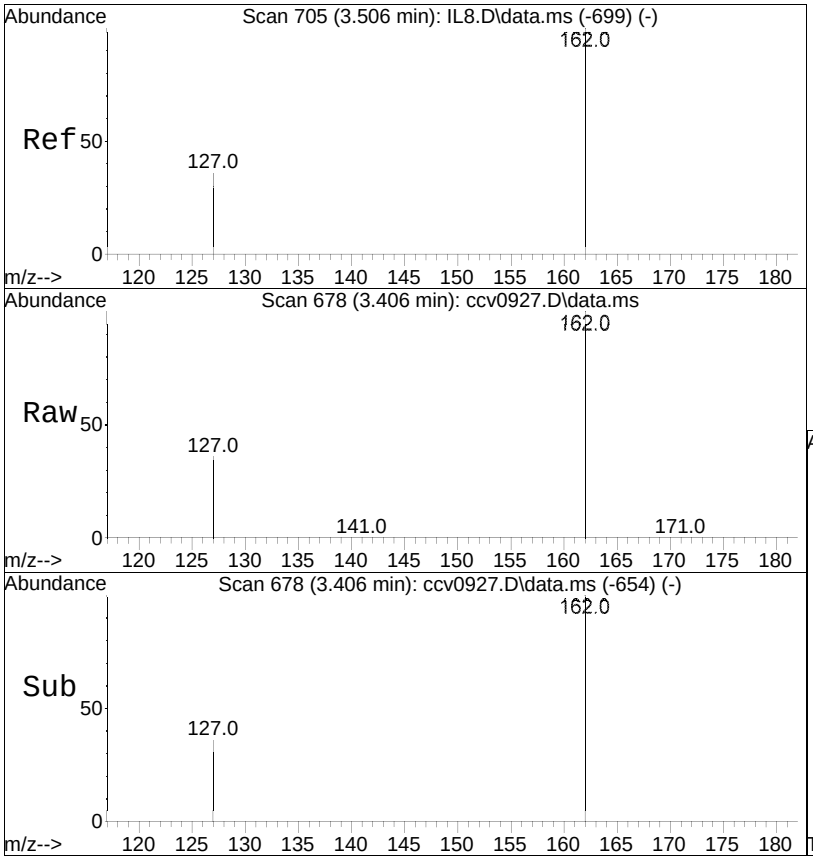


#12
1-Methylnaphthalene
Concen: 1009.19 ng/ml
RT: 3.190 min Scan# 613
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:142 Resp: 226788

Ion	Ratio	Lower	Upper
142	100		
141	94.0	74.9	112.3

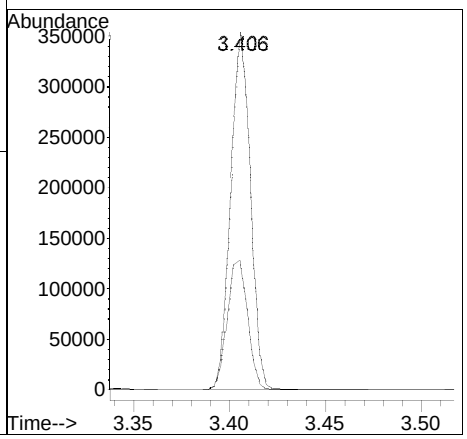


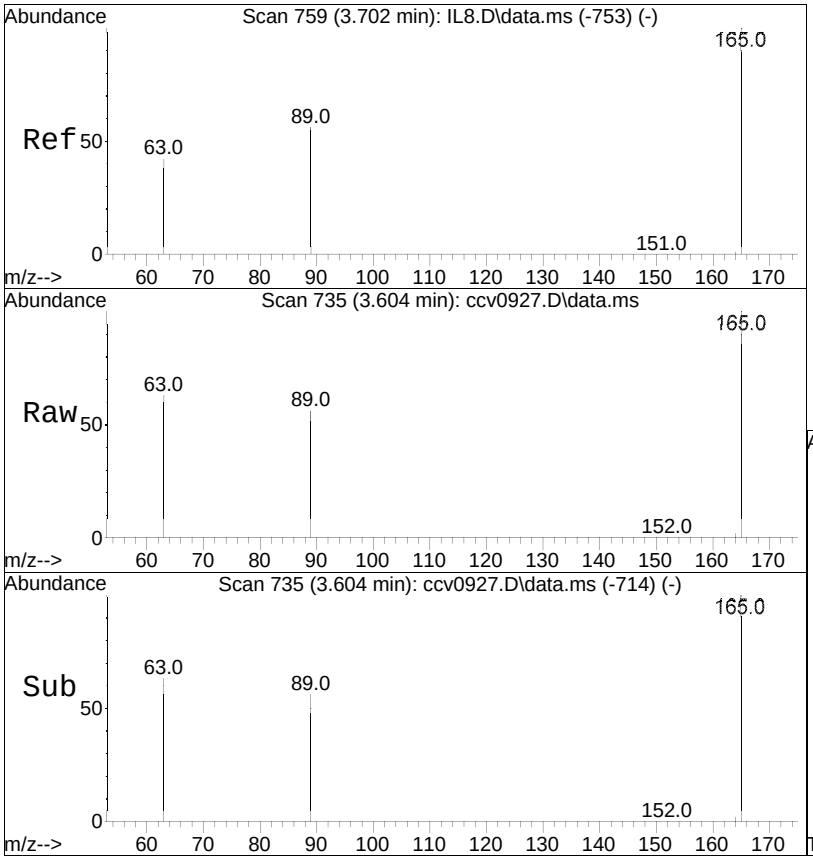


#14
2-Chloronaphthalene
Concen: 1020.67 ng/ml
RT: 3.406 min Scan# 678
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:162 Resp: 247748

Ion	Ratio	Lower	Upper
162	100		
127	37.9	30.1	45.1

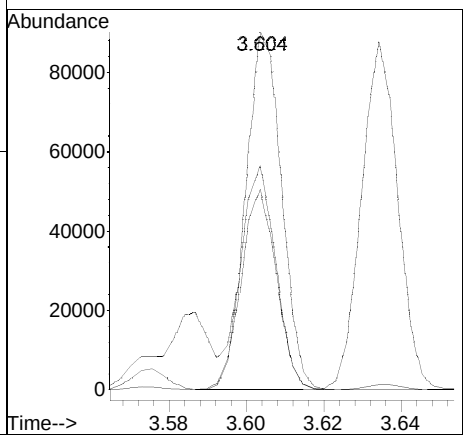


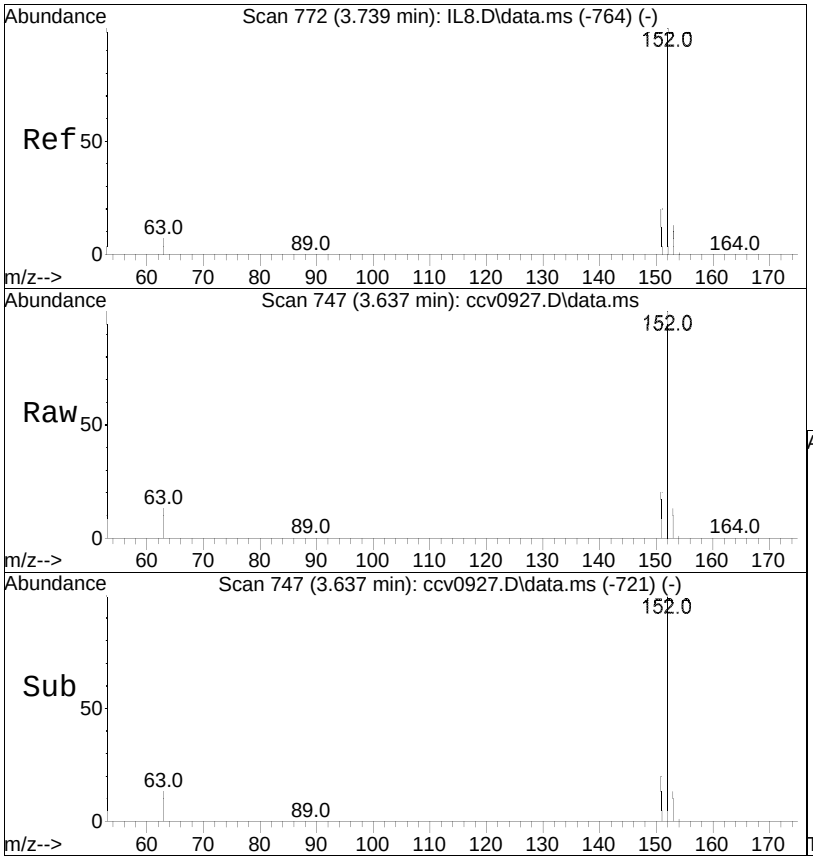


#15
2,6-Dinitrotoluene
Concen: 960.10 ng/ml
RT: 3.604 min Scan# 735
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:165 Resp: 57994

Ion	Ratio	Lower	Upper
165	100		
89	55.1	44.0	66.0
63	61.4	47.5	71.3

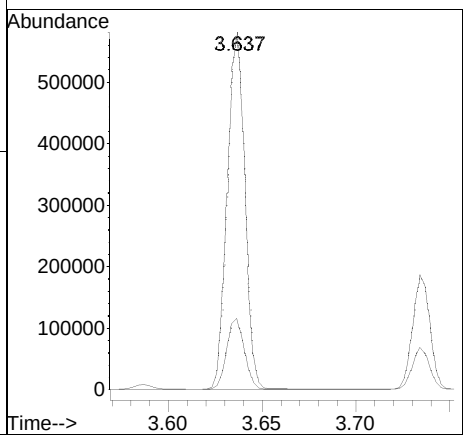


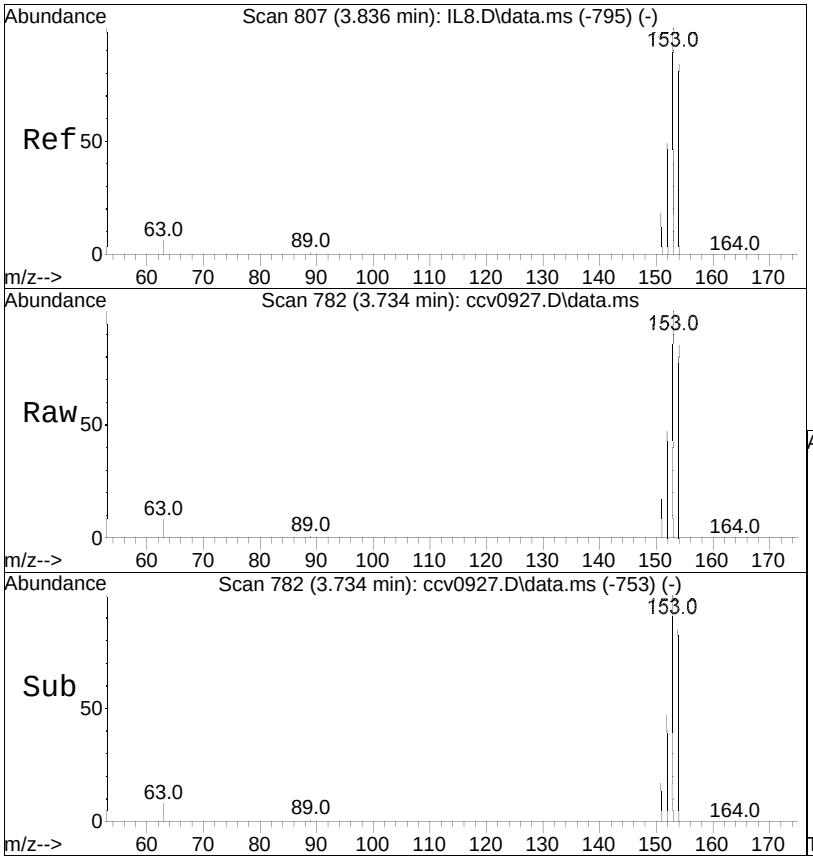


#16
Acenaphthylene
Concen: 1066.52 ng/ml
RT: 3.637 min Scan# 747
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:152 Resp: 376596

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2

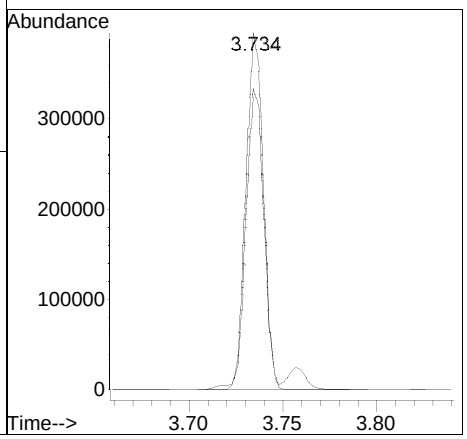


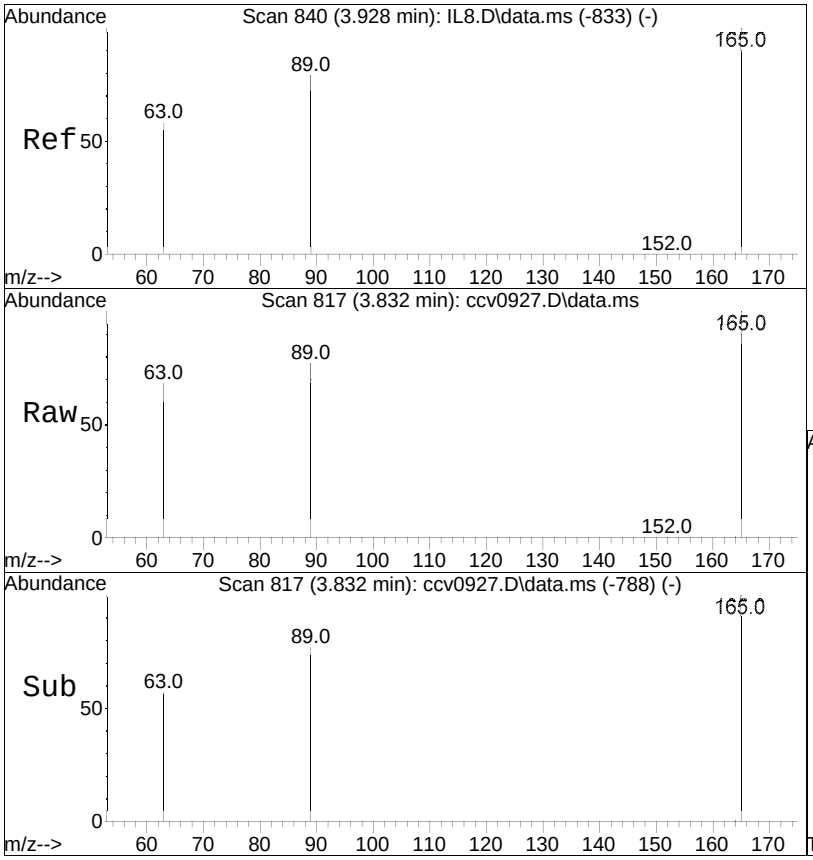


#18
Acenaphthene
Concen: 1006.76 ng/ml
RT: 3.734 min Scan# 782
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:153 Resp: 254017

Ion	Ratio	Lower	Upper
153	100		
154	86.3	69.1	103.7

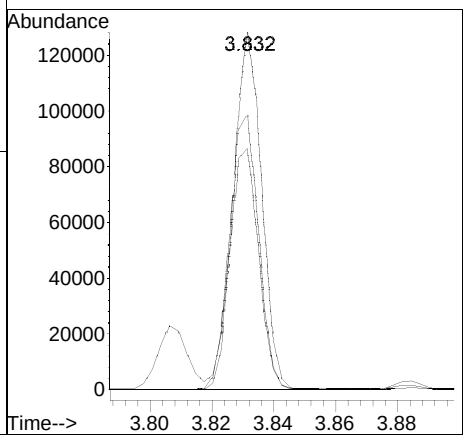


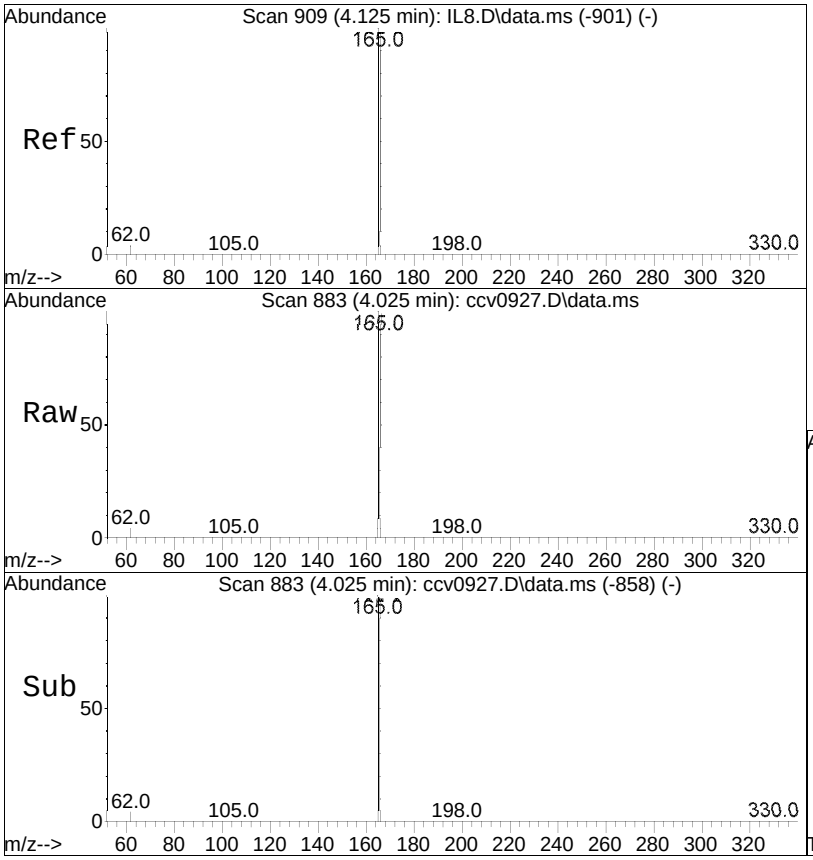


#19
2,4-Dinitrotoluene
Concen: 974.25 ng/ml
RT: 3.832 min Scan# 817
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:165 Resp: 79838

Ion	Ratio	Lower	Upper
165	100		
89	79.8	64.6	96.8
63	70.6	56.5	84.7

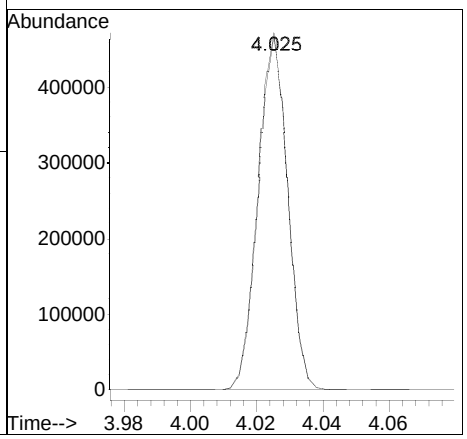


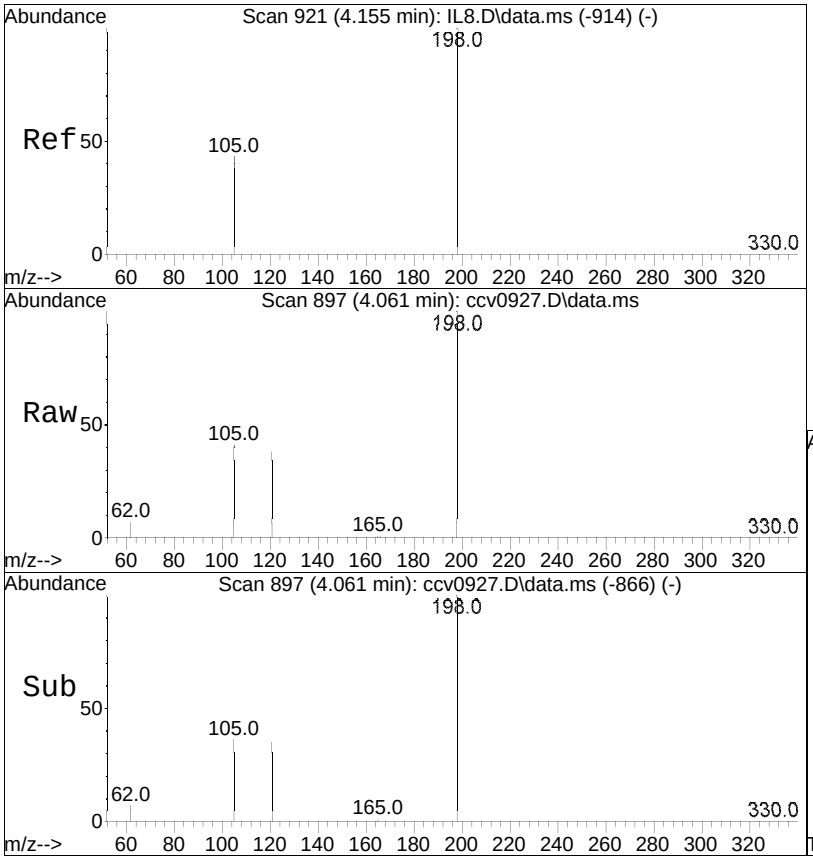


#20
Fluorene
Concen: 1034.64 ng/ml
RT: 4.025 min Scan# 883
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:166 Resp: 288334

Ion	Ratio	Lower	Upper
166	100		
165	101.4	81.4	122.2

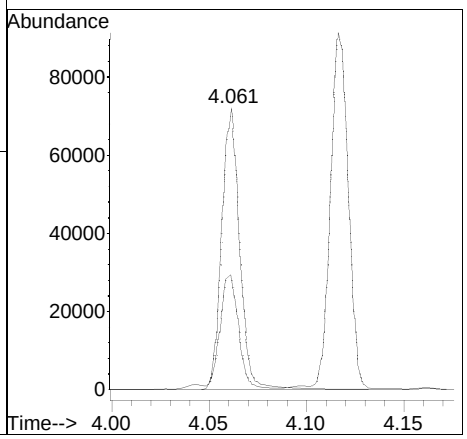


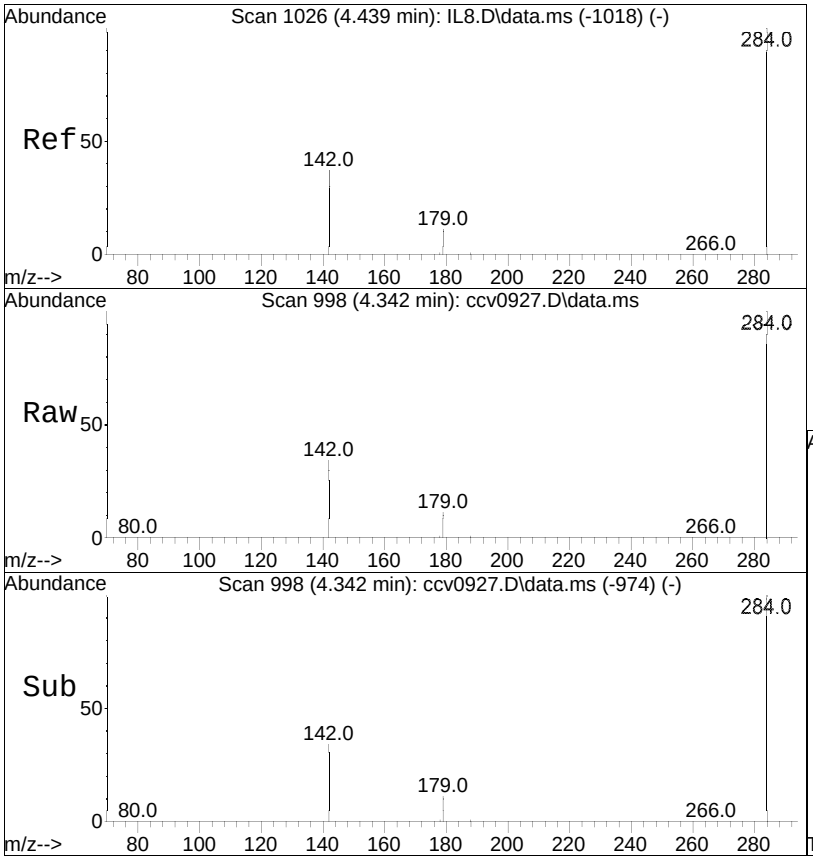


#23
4,6-Dinitro-o-cresol
Concen: 979.86 ng/ml
RT: 4.061 min Scan# 897
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:198 Resp: 46335

Ion	Ratio	Lower	Upper
198	100		
105	43.2	34.9	52.3

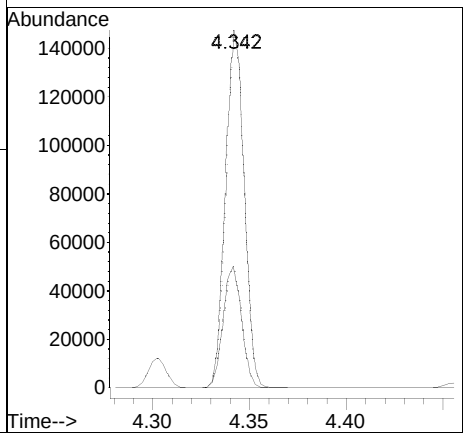


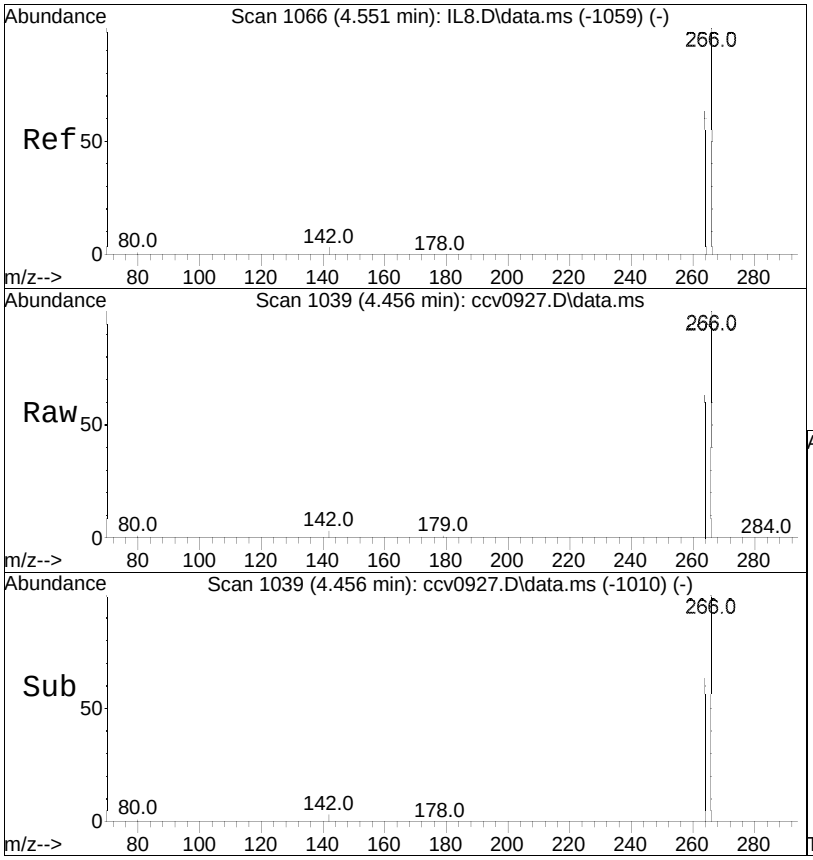


#24
Hexachlorobenzene
Concen: 1028.20 ng/ml
RT: 4.342 min Scan# 998
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:284 Resp: 97090

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.6	40.0

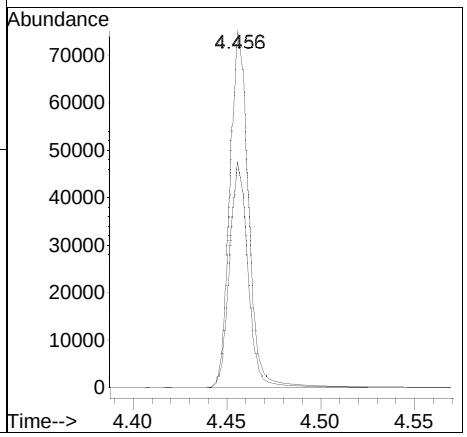


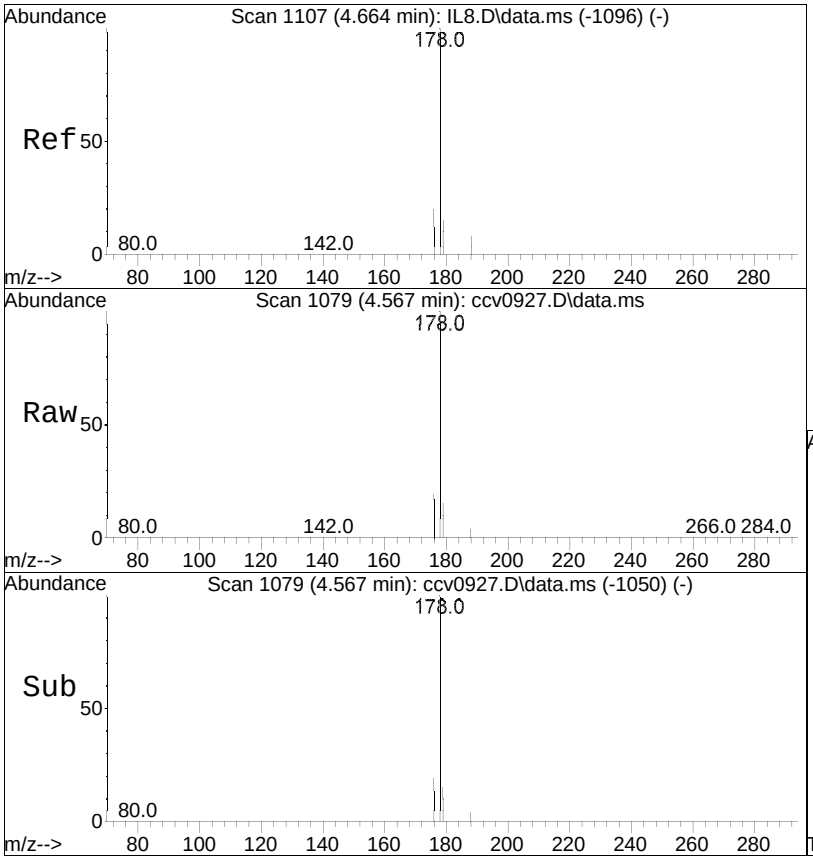


#25
Pentachlorophenol
Concen: 1122.01 ng/ml
RT: 4.456 min Scan# 1039
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:266 Resp: 51824

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.4

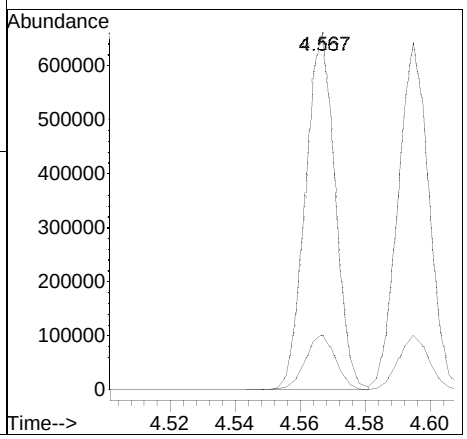


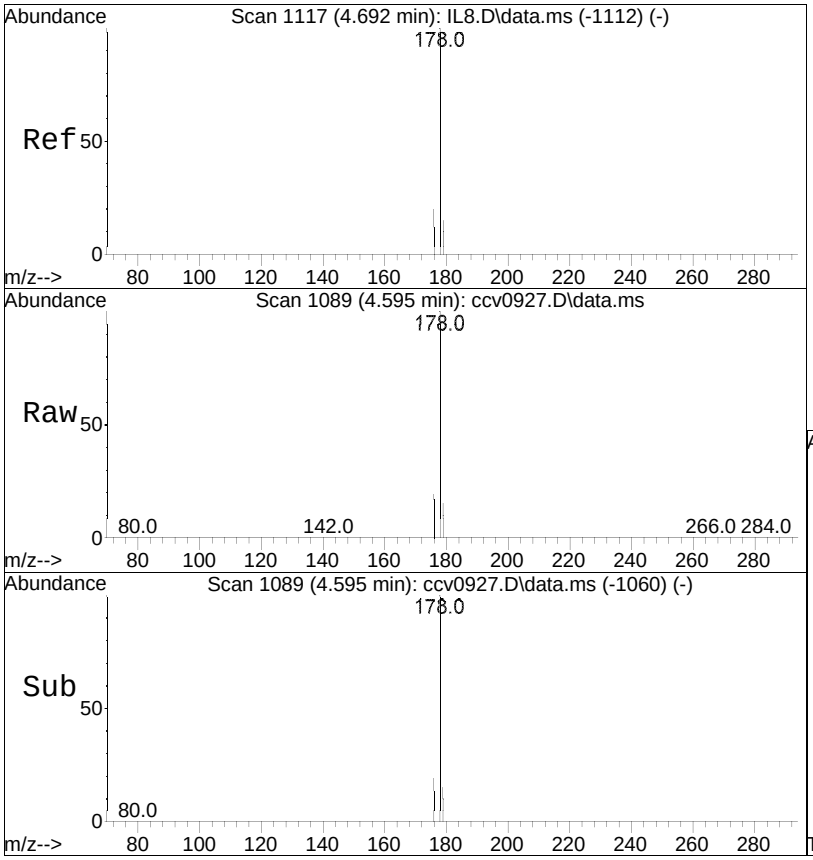


#26
Phenanthrene
Concen: 1012.30 ng/ml
RT: 4.567 min Scan# 1079
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:178 Resp: 418565

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

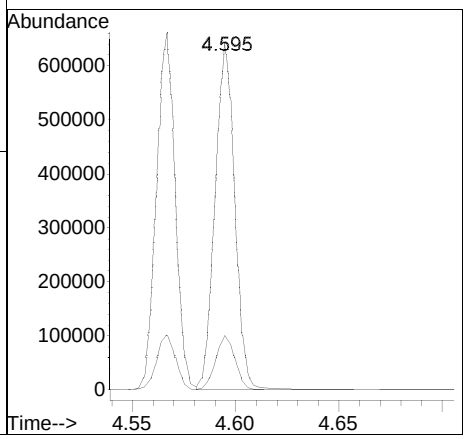


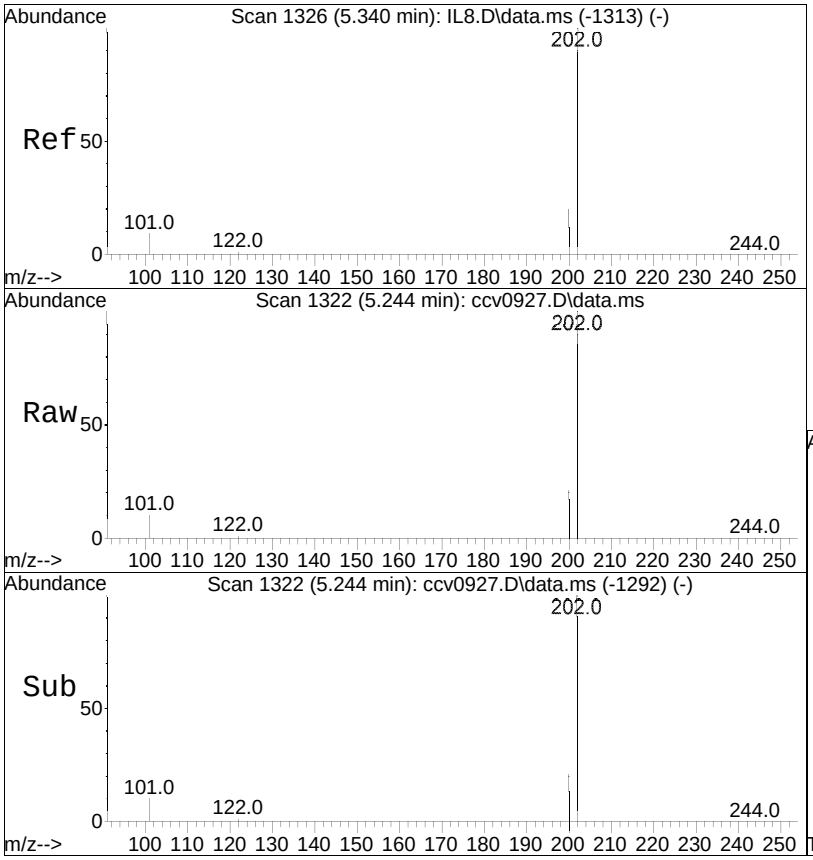


#27
Anthracene
Concen: 1050.21 ng/ml
RT: 4.595 min Scan# 1089
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:178 Resp: 426044

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

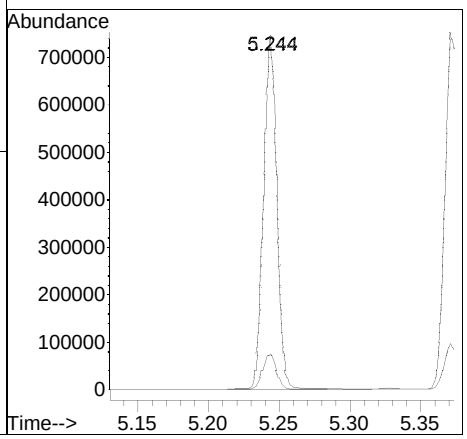


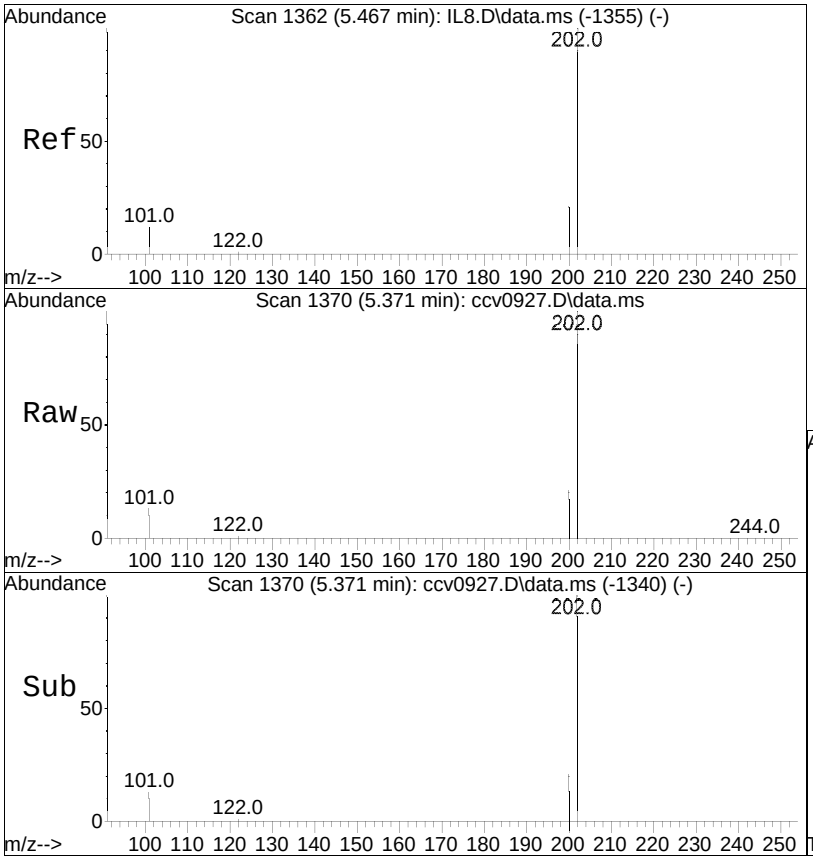


#28
Fluoranthene
Concen: 1024.15 ng/ml
RT: 5.244 min Scan# 1322
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:202 Resp: 490377

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

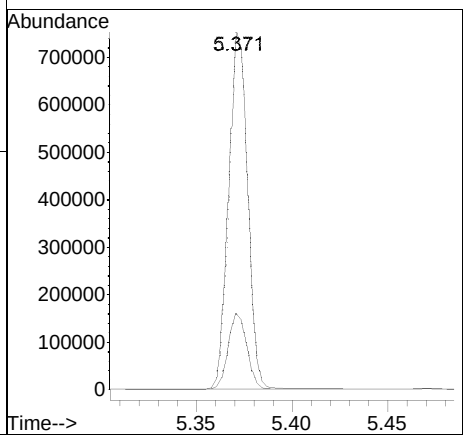


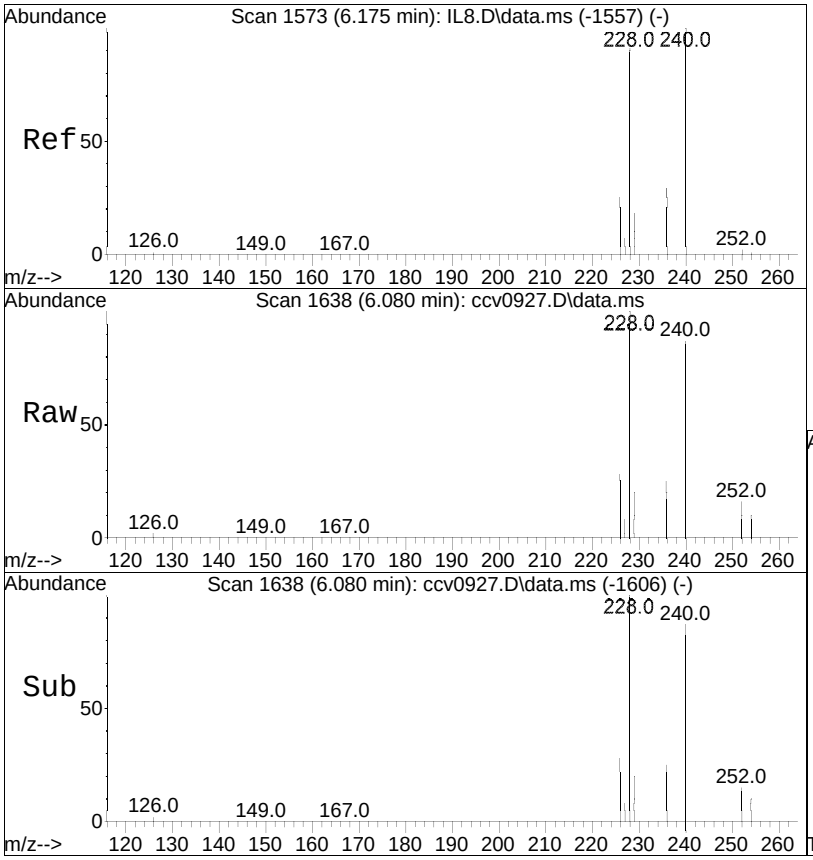


#29
Pyrene
Concen: 1010.98 ng/ml
RT: 5.371 min Scan# 1370
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:202 Resp: 511892

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3

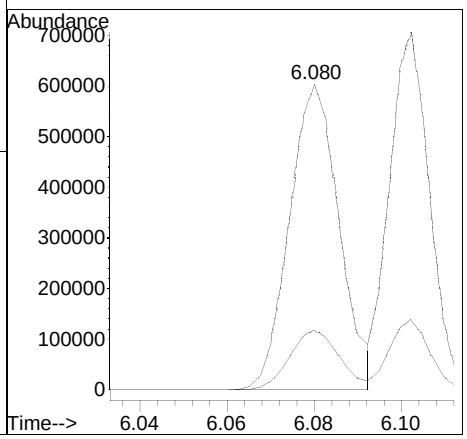


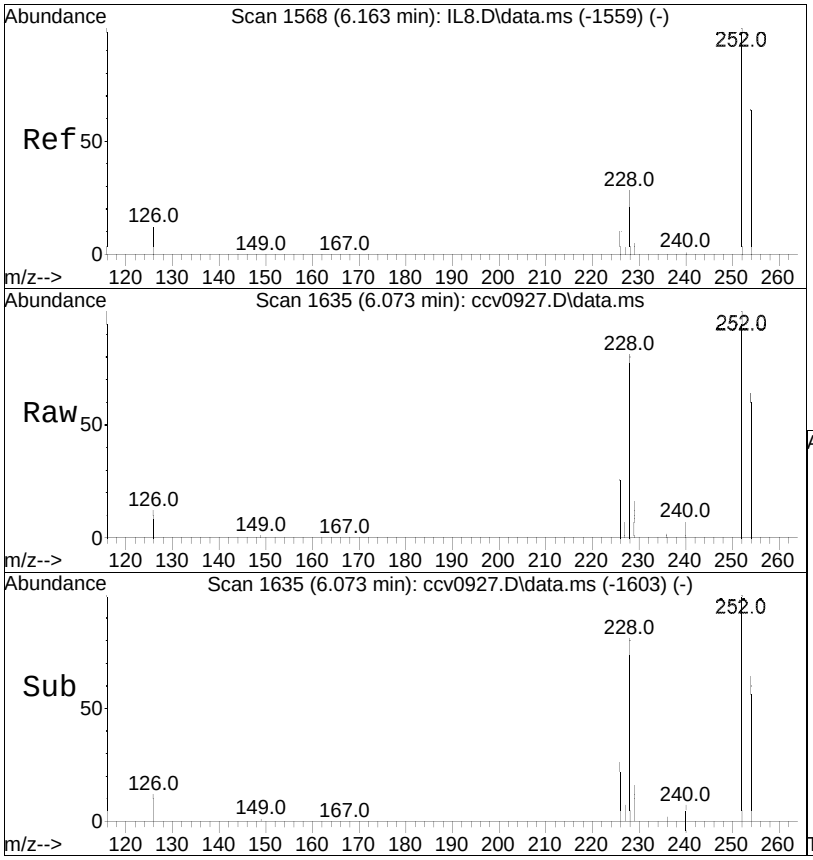


#32
Benzo[a]anthracene
Concen: 1083.22 ng/ml
RT: 6.080 min Scan# 1638
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:228 Resp: 476880

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

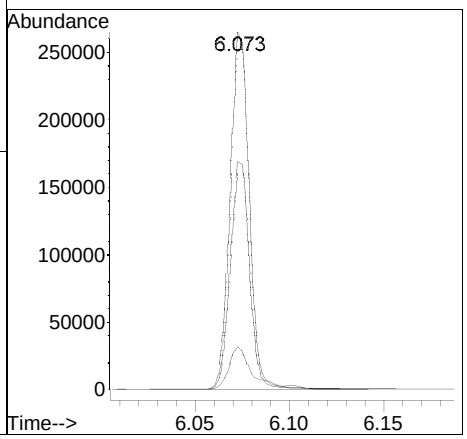


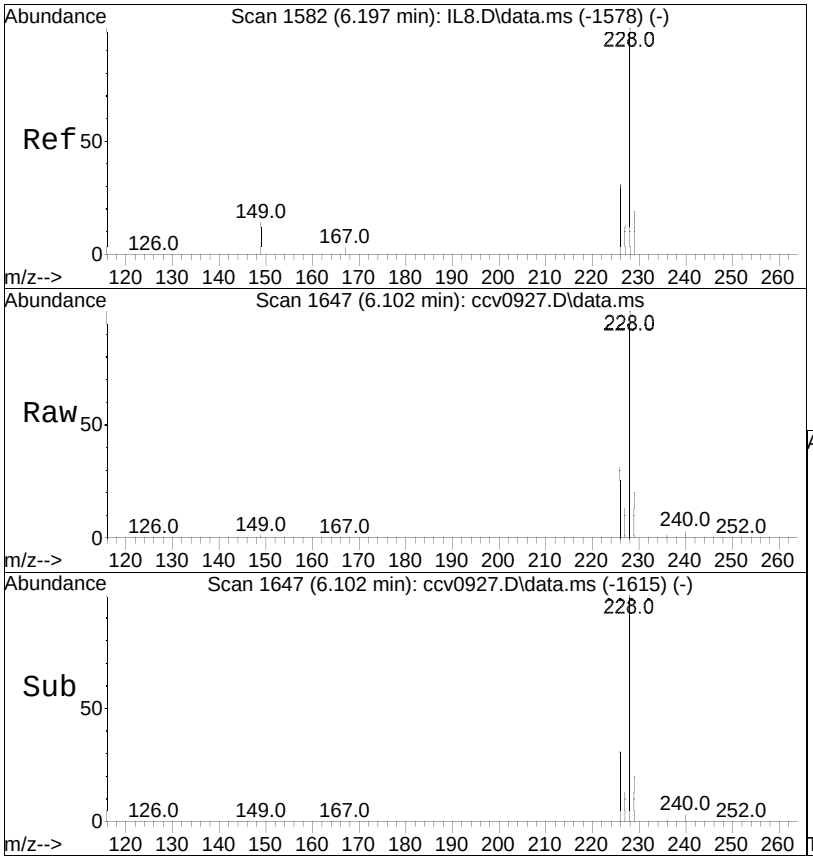


#33
3,3'-Dichlorobenzene
Concen: 1174.20 ng/ml
RT: 6.073 min Scan# 1635
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:252 Resp: 184173

Ion	Ratio	Lower	Upper
252	100		
126	14.2	11.3	16.9
254	64.3	51.4	77.0

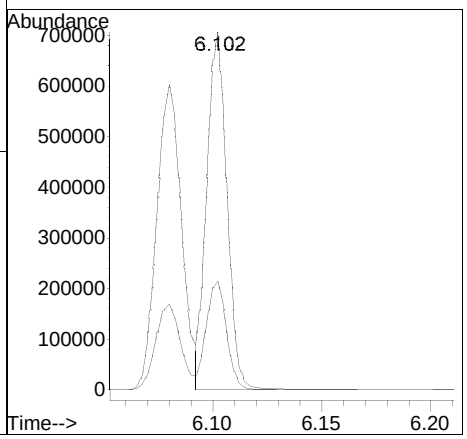


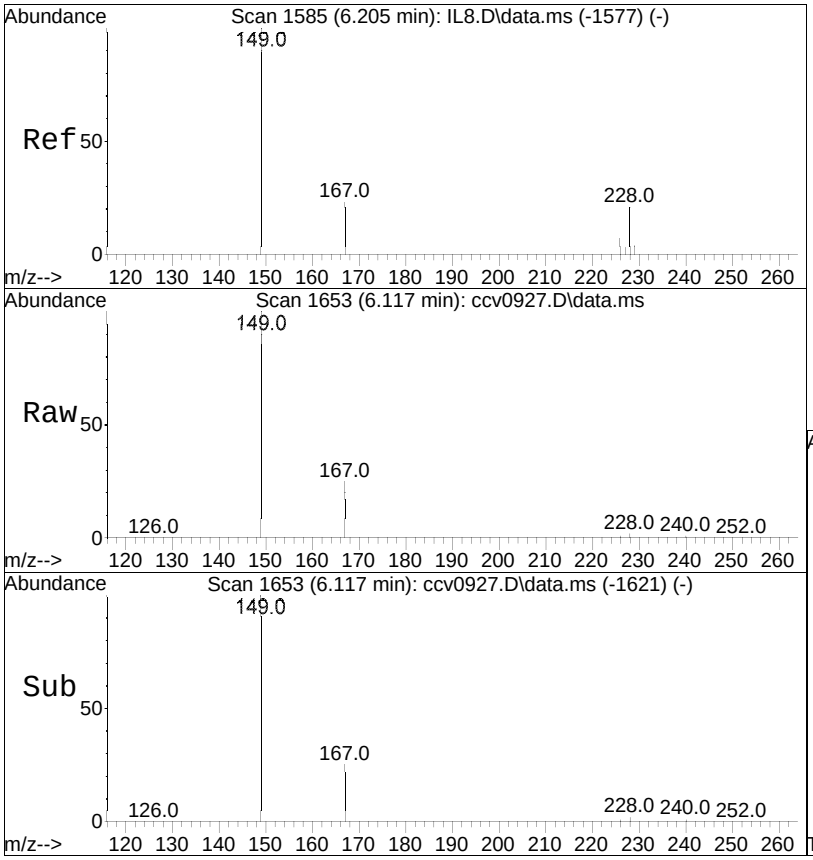


#34
Chrysene
Concen: 1087.25 ng/ml
RT: 6.102 min Scan# 1647
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:228 Resp: 451841

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	36.8

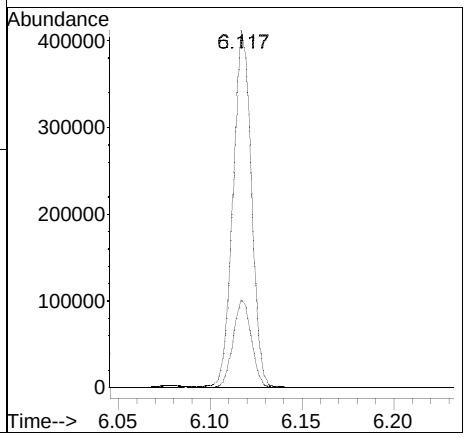


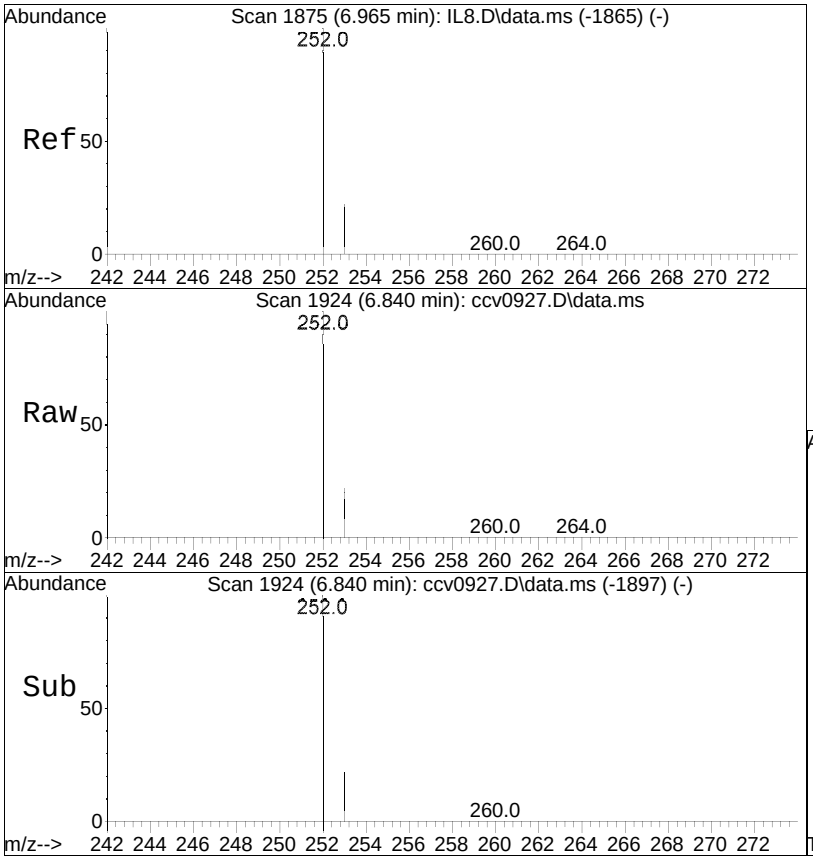


#35
Bis(2-ethylhexyl)phthalate
Concen: 1068.01 ng/ml
RT: 6.117 min Scan# 1653
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:149 Resp: 282432

Ion	Ratio	Lower	Upper
149	100		
167	24.4	19.5	29.3

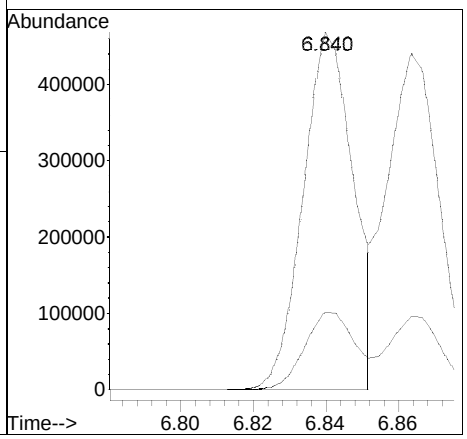


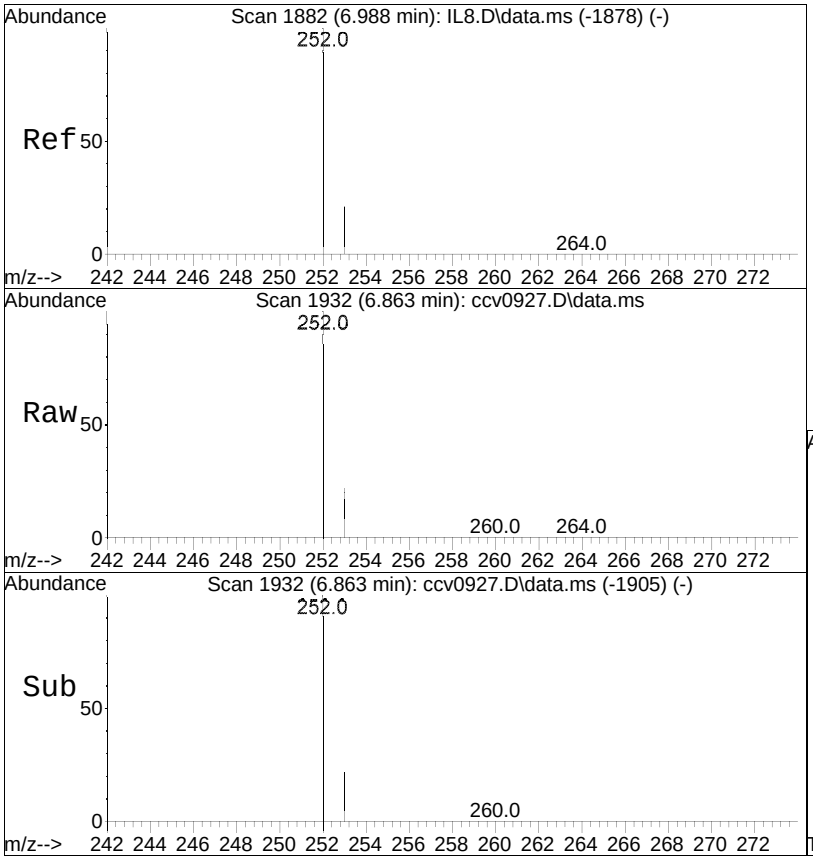


#37
Benzo[b]fluoranthene
Concen: 1115.90 ng/ml
RT: 6.840 min Scan# 1924
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:252 Resp: 452802

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

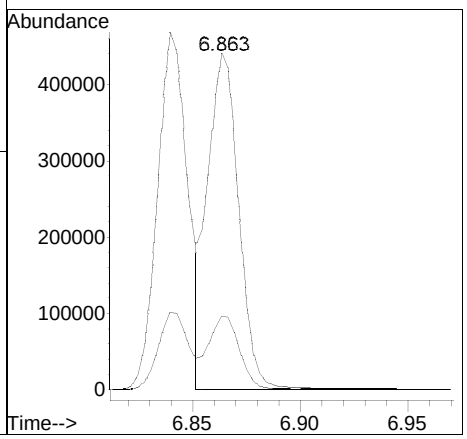


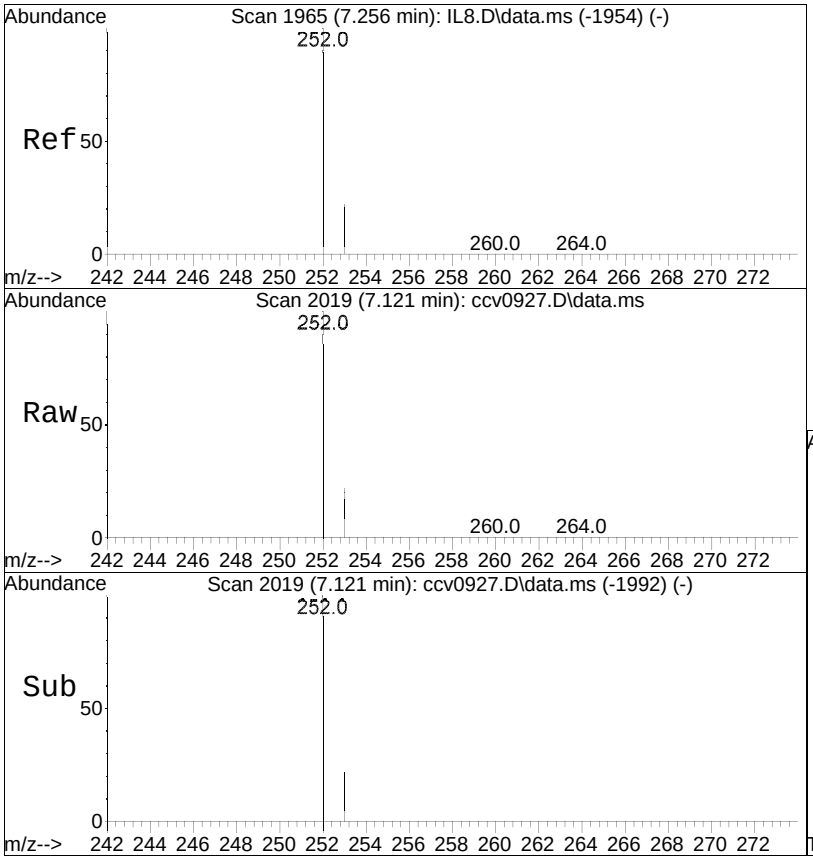


#38
Benzo[k]fluoranthene
Concen: 1107.87 ng/ml
RT: 6.863 min Scan# 1932
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:252 Resp: 441060

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3

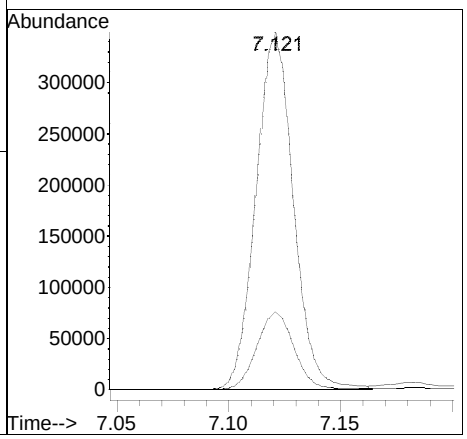


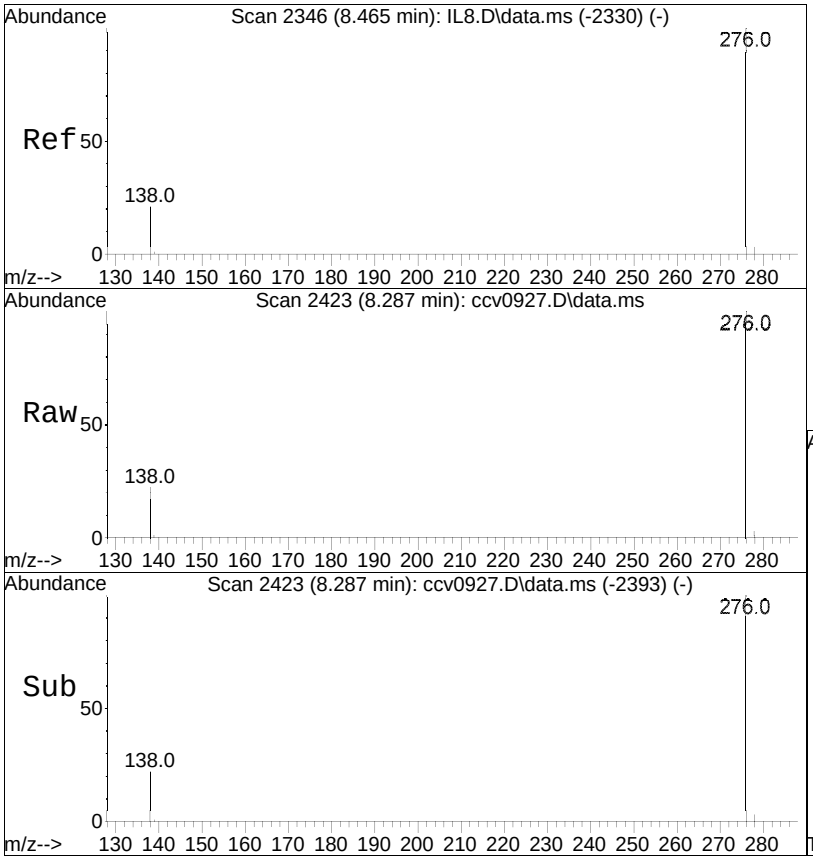


#39
Benzo[a]pyrene
Concen: 1155.52 ng/ml
RT: 7.121 min Scan# 2019
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:252 Resp: 401408

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

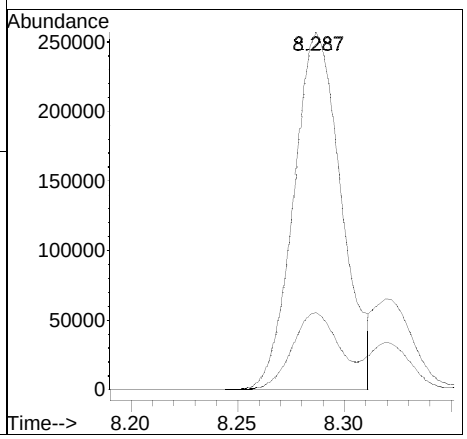


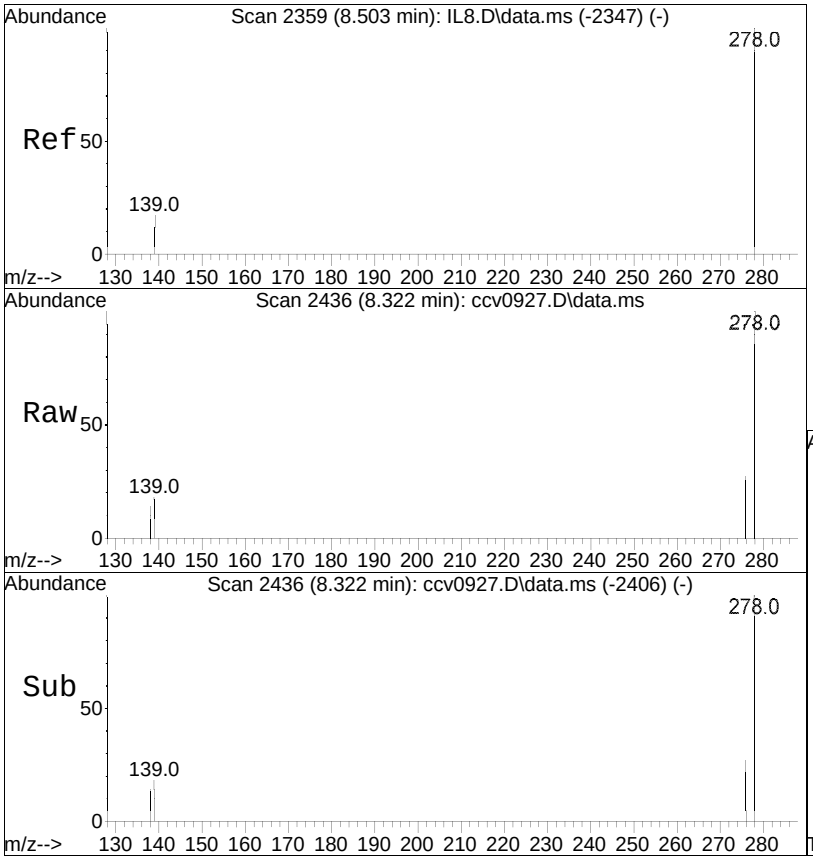


#40
Indeno[1,2,3-cd]pyrene
Concen: 1160.54 ng/ml
RT: 8.287 min Scan# 2423
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:276 Resp: 396416

Ion	Ratio	Lower	Upper
276	100		
138	21.4	16.5	24.7

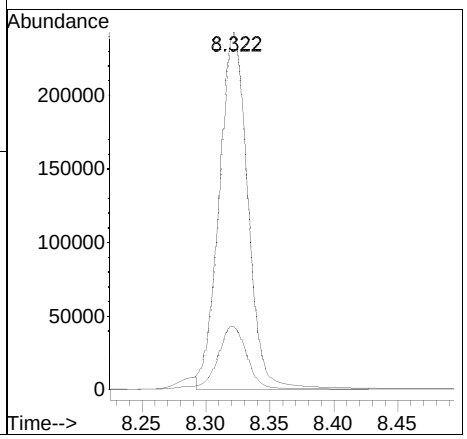


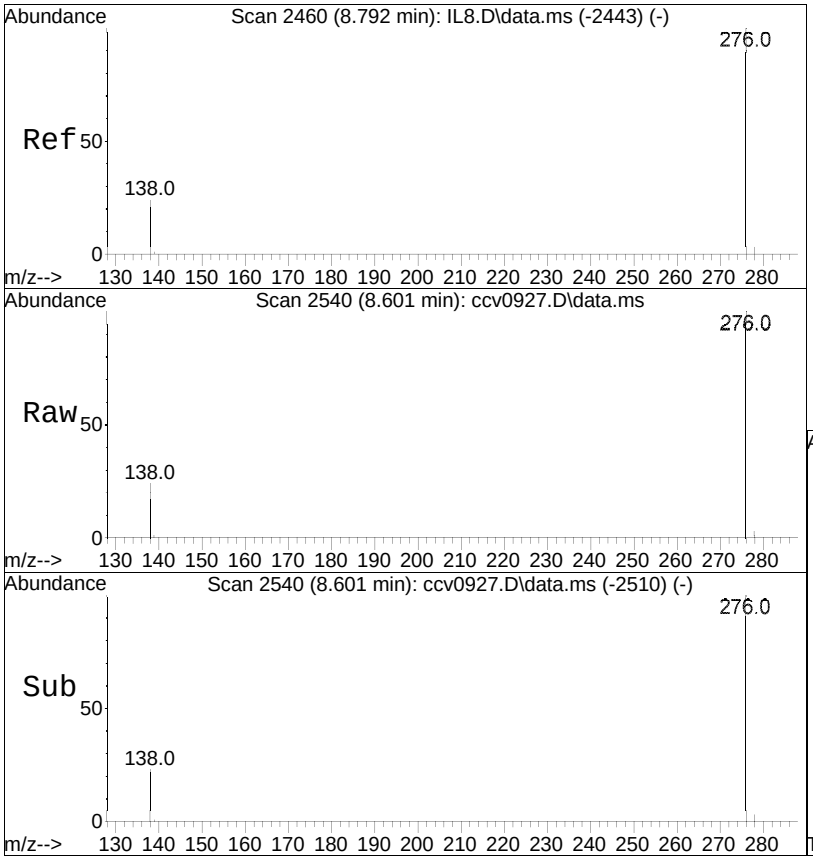


#41
Dibenzo[a,h]anthracene
Concen: 1161.08 ng/ml M6
RT: 8.322 min Scan# 2436
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:278 Resp: 374758

Ion	Ratio	Lower	Upper
278	100		
139	18.3	14.5	21.7

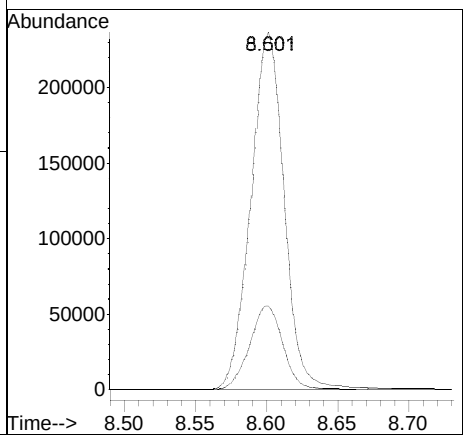




#42
Benzo[g,h,i]perylene
Concen: 1094.61 ng/ml
RT: 8.601 min Scan# 2540
Delta R.T. 0.000 min
Lab File: ccv0927.D
Acq: 27 Sep 2024 08:06 am

Tgt Ion:276 Resp: 379358

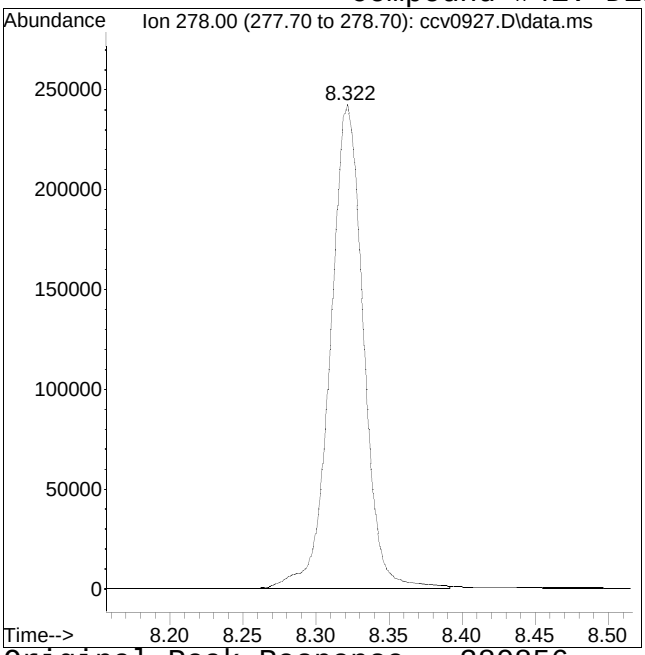
Ion	Ratio	Lower	Upper
276	100		
138	23.7	18.6	27.8



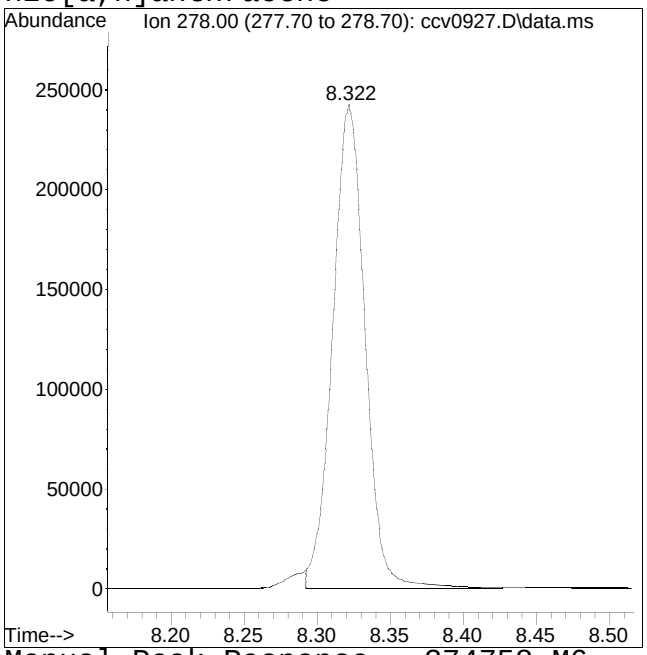
Manual Integration Report

Data Path : I:\8270SIM\sv120\240927RVTQMethod : SIM-RVT_240925_sv120.M
Data File : ccv0927.D Operator : SV120:rp
Date Inj'd : 9/27/2024 8:06 am Instrument : SV120
Sample : WG1977136-3,32,,ICV 10884 Quant Date : 9/27/2024 8:22 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 380856



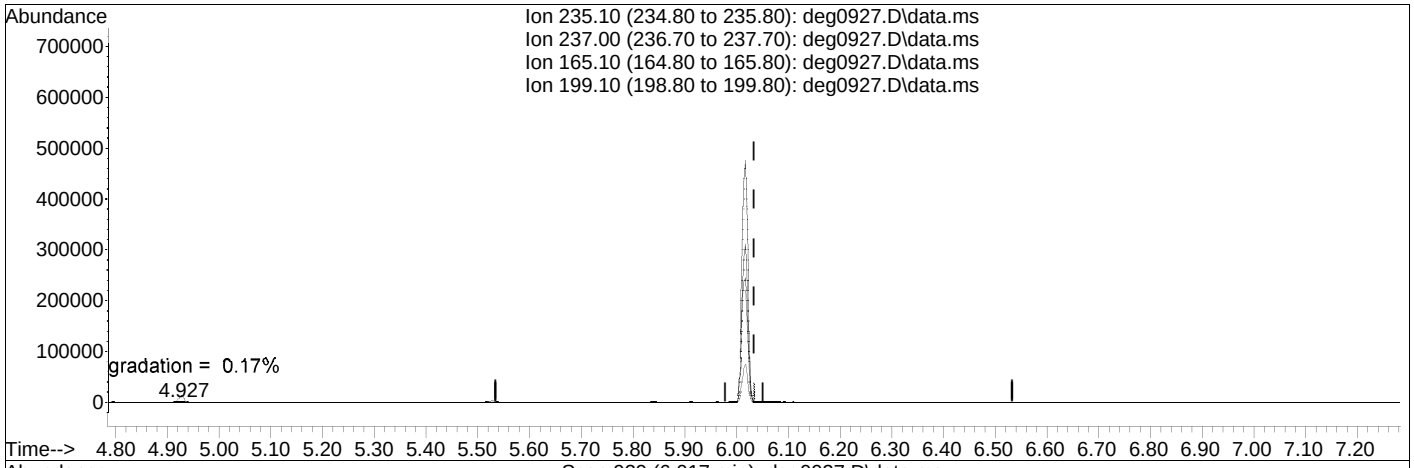
Manual Peak Response = 374758 M6

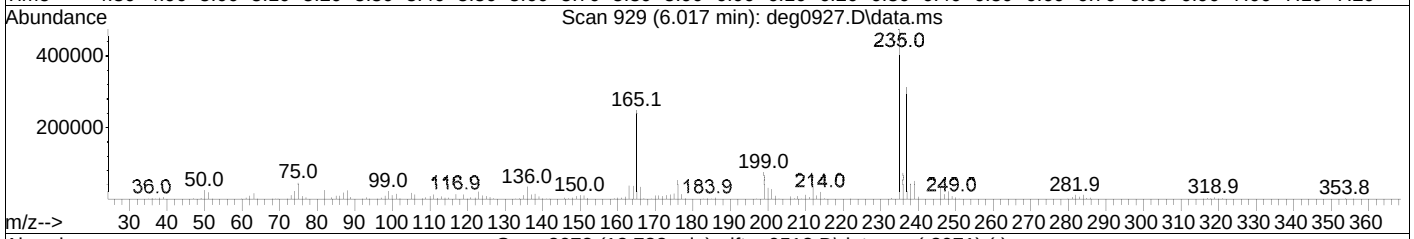
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

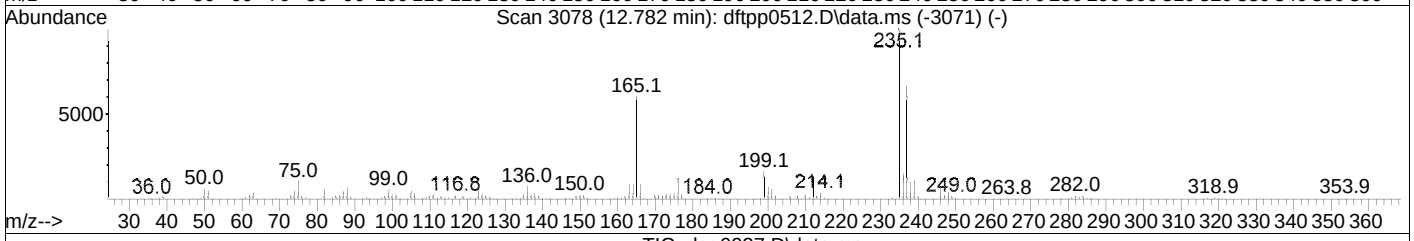
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : deg0927.D
Acq On : 27 Sep 2024 07:50 am
Operator : SV120:rp
Sample : WG1977136-2,32,, dftpp SV120 lot#11040
Misc : WG1977136,,ical21522
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 27 08:02:43 2024
Quant Method : I:\8270SIM\sv120\240927RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0927.D\data.ms

(6) ddt (T)

6.017min (-0.017) 56.57

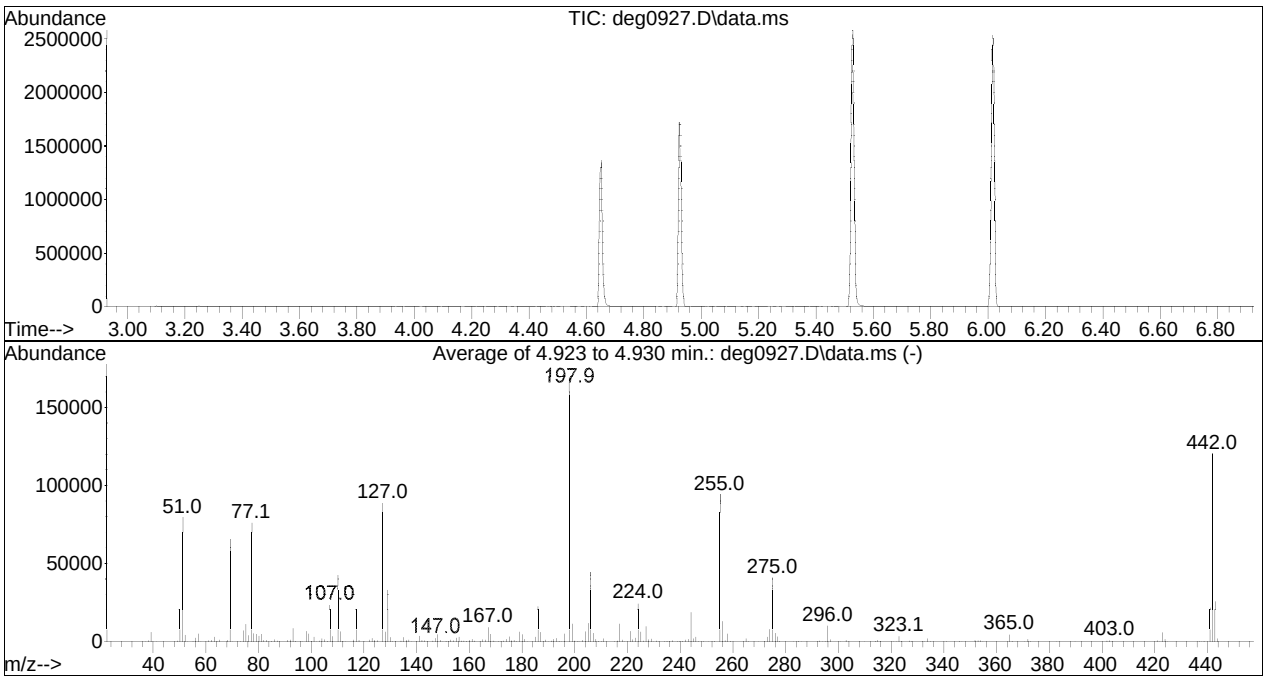
response 344823

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.42
165.10	53.30	52.90
199.10	17.10	15.70

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : deg0927.D
Acq On : 27 Sep 2024 07:50 am
Operator : SV120:rp
Sample : WG1977136-1,32,, dftpp SV120 lot#11040
Misc : WG1977136,,ical21522
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240927RVT\SIM-RVT_240925_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Sep 27 08:22:41 2024



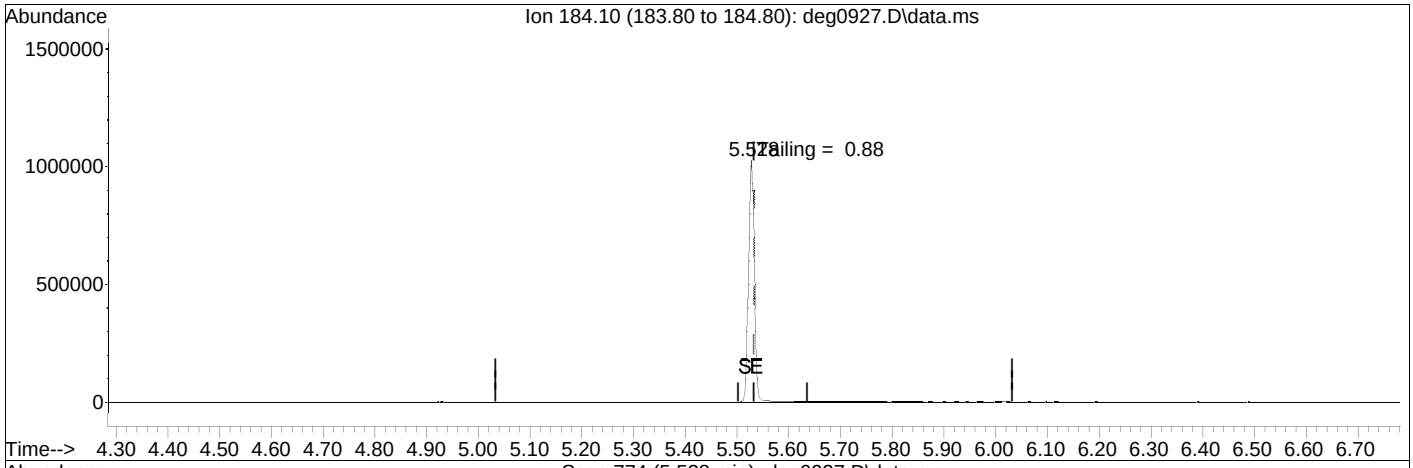
Spectrum Information: Average of 4.923 to 4.930 min.

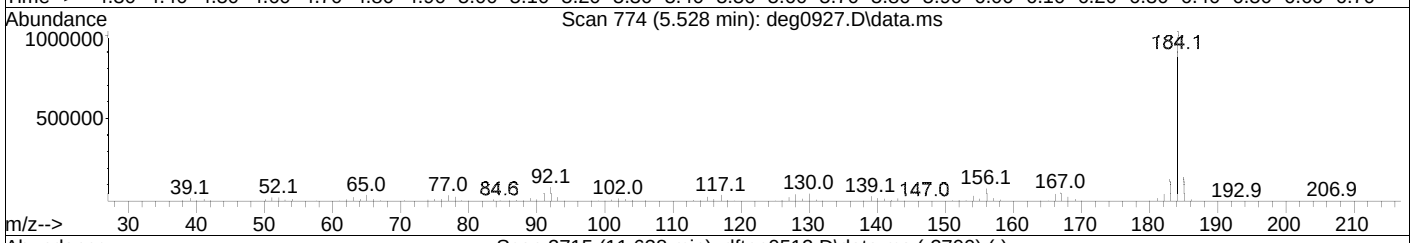
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.8	79043	PASS
68	69	0.00	2	1.9	1261	PASS
69	69	100	100	100.0	64971	PASS
70	69	0.00	2	0.5	350	PASS
127	198	10	80	52.4	88581	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	169067	PASS
199	198	5	9	6.6	11124	PASS
275	198	10	60	24.2	40843	PASS
365	198	1	100	2.7	4607	PASS
441	442	0.01	24	18.2	21945	PASS
442	198	50	100	71.2	120432	PASS
443	442	15	24	21.2	25552	PASS

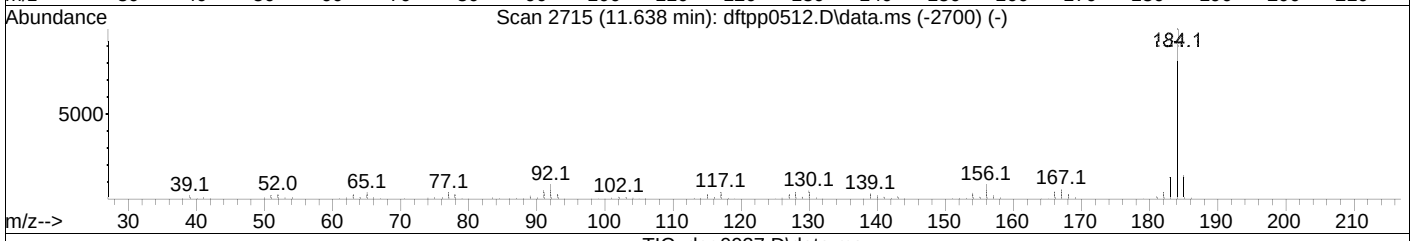
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : deg0927.D
Acq On : 27 Sep 2024 07:50 am
Operator : SV120:rp
Sample : WG1977136-4,32,, dftpp SV120 lot#11040
Misc : WG1977136,,ical21522
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 27 08:02:43 2024
Quant Method : I:\8270SIM\sv120\240927RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0927.D\data.ms

(3) benzidine (T)

5.528min (-0.005) 76.75

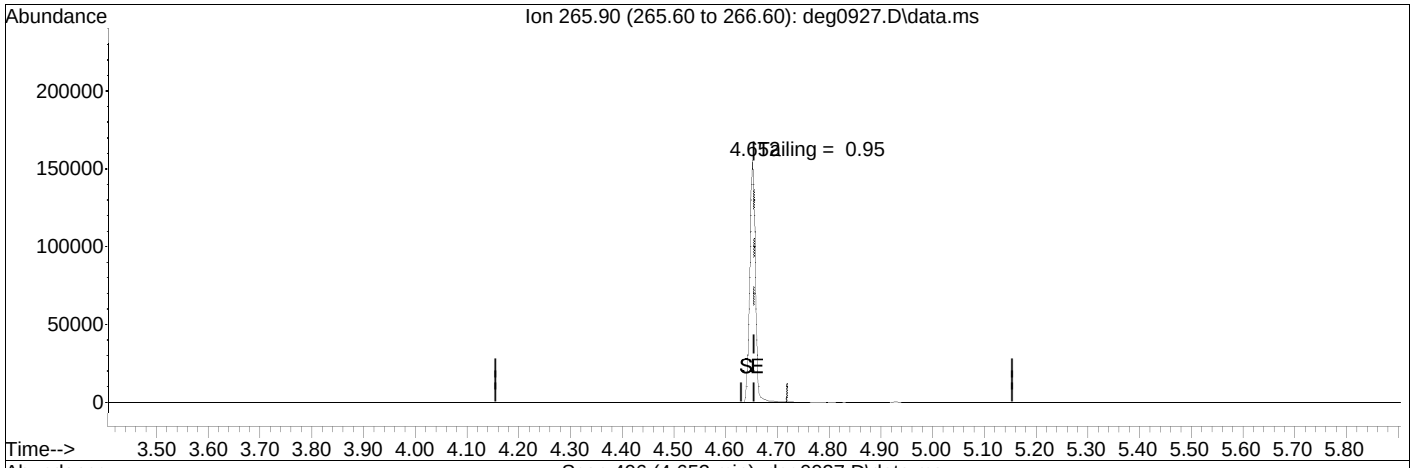
response 781271

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : deg0927.D
Acq On : 27 Sep 2024 07:50 am
Operator : SV120:rp
Sample : WG1977136-5,32,, dftpp SV120 lot#11040
Misc : WG1977136,,ical21522
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 27 08:02:43 2024
Quant Method : I:\8270SIM\sv120\240927RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



TIC: deg0927.D\data.ms

(1) pentachlorophenol (T)

4.652min (-0.003) 53.99

response 113405

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-1.D
Acq On : 27 Sep 2024 09:19 am
Operator : SV120:rp
Sample : WG1976781-1,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 27 10:34:46 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.079	152	387219	4000.000	ng/ml	-0.01
Standard Area 1 = 396038			Recovery = 97.77%			
8) Naphthalene-d8	2.735	136	1420336	4000.000	ng/ml	-0.01
Standard Area 1 = 1485677			Recovery = 95.60%			
17) Acenaphthene-d10	3.711	164	779074	4000.000	ng/ml	0.00
Standard Area 1 = 844424			Recovery = 92.26%			
22) Phenanthrene-d10	4.552	188	1474185	4000.000	ng/ml	0.00
Standard Area 1 = 1642445			Recovery = 89.76%			
31) Chrysene-d12	6.167	240	1334629M6	4000.000	ng/ml	0.08
Standard Area 1 = 1466707			Recovery = 90.99%			
36) Perylene-d12	7.276	264	1227998	4000.000	ng/ml	0.09
Standard Area 1 = 1469555			Recovery = 83.56%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.521	112	73484	686.373	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 34.32%			
3) Phenol-d6	1.903	99	102292	813.976	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 40.70%			
7) Nitrobenzene-d5	2.359	82	94613	890.657	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.07%			
13) 2-Fluorobiphenyl	3.334	172	231031	856.761	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 85.68%			
21) 2,4,6-Tribromophenol	4.159	330	36753	1054.691	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 52.73%			
30) 4-Terphenyl-d14	5.507	244	241498	935.380	ng/ml	0.04
Spiked Amount 2000.000	Range 30 - 130		Recovery = 46.77%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.340	284	103	1.215	ng/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-1.D
Acq On : 27 Sep 2024 09:19 am
Operator : SV120:rp
Sample : WG1976781-1,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 27 10:34:46 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.460	266	283M6	14.322	ng/ml	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

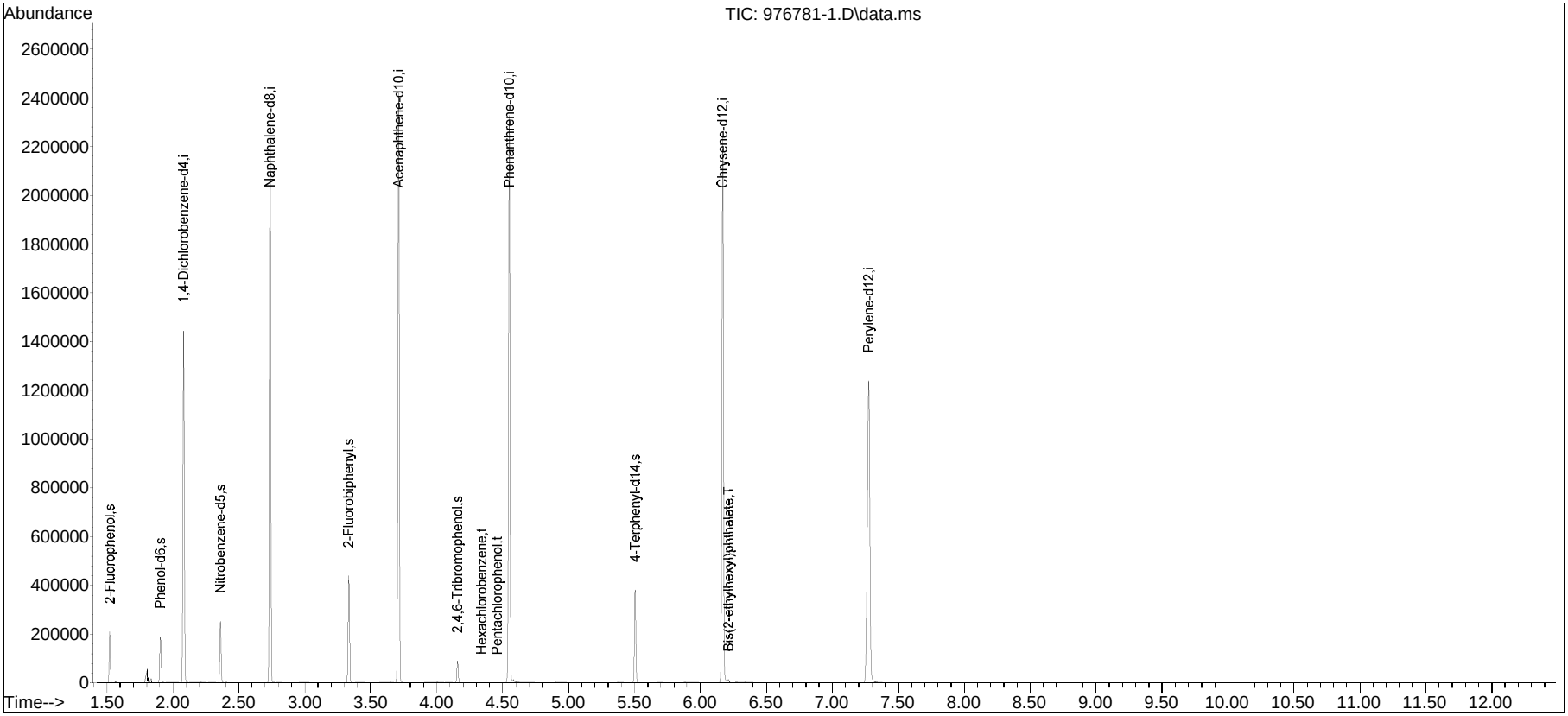
(#) = qualifier out of range (m) = manual integration (+) = signals summed

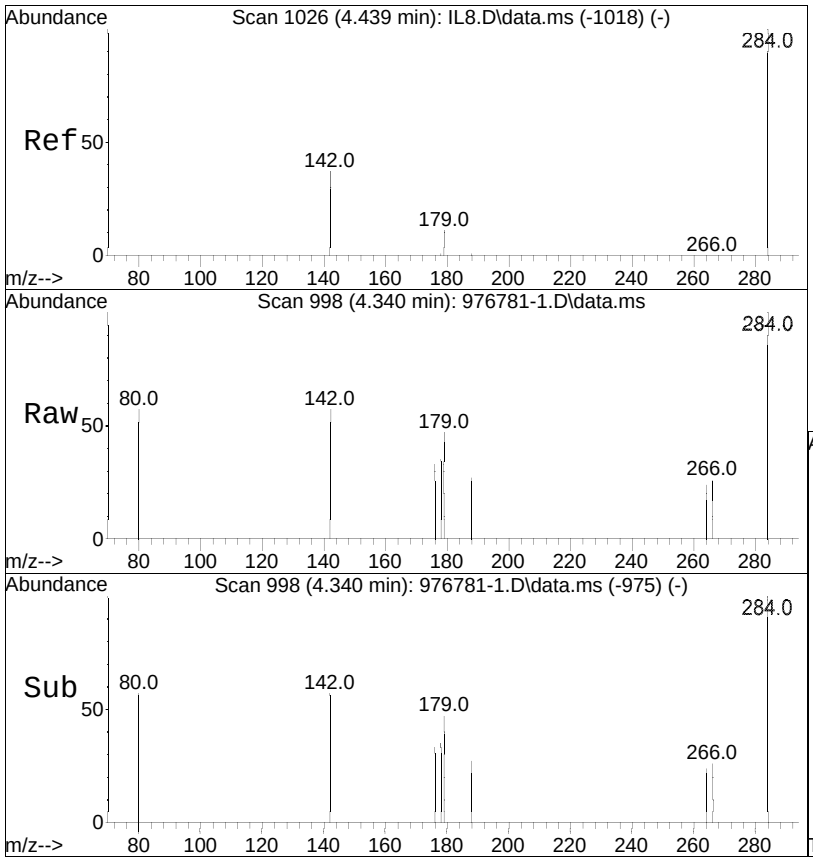
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-1.D
Acq On : 27 Sep 2024 09:19 am
Operator : SV120:rp
Sample : WG1976781-1,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 27 10:34:46 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0927.D•

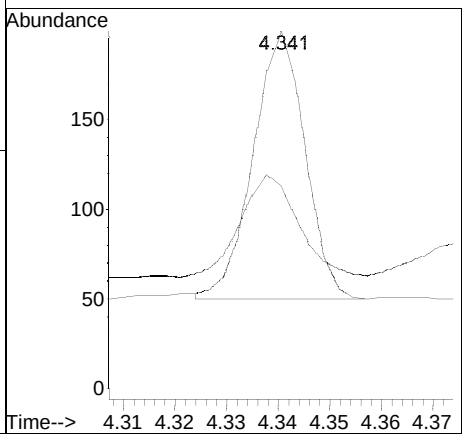


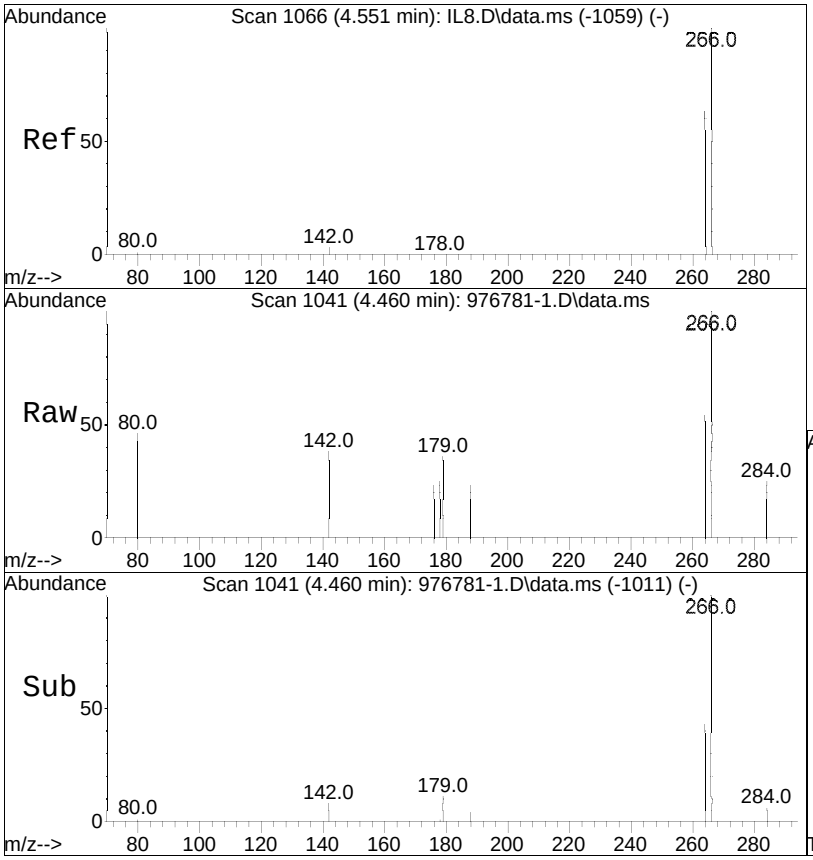


#24
Hexachlorobenzene
Concen: 1.22 ng/ml
RT: 4.340 min Scan# 998
Delta R.T. -0.001 min
Lab File: 976781-1.D
Acq: 27 Sep 2024 09:19 am

Tgt Ion:284 Resp: 103

Ion	Ratio	Lower	Upper
284	100		
142	41.7	26.6	40.0#

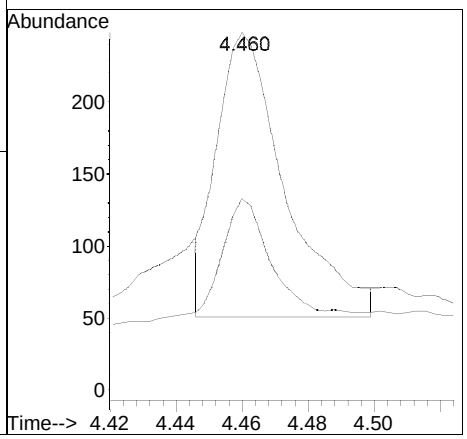




#25
Pentachlorophenol
Concen: 14.32 ng/ml M6
RT: 4.460 min Scan# 1041
Delta R.T. 0.004 min
Lab File: 976781-1.D
Acq: 27 Sep 2024 09:19 am

Tgt Ion:266 Resp: 283

Ion	Ratio	Lower	Upper
266	100		
264	37.1	50.2	75.4#

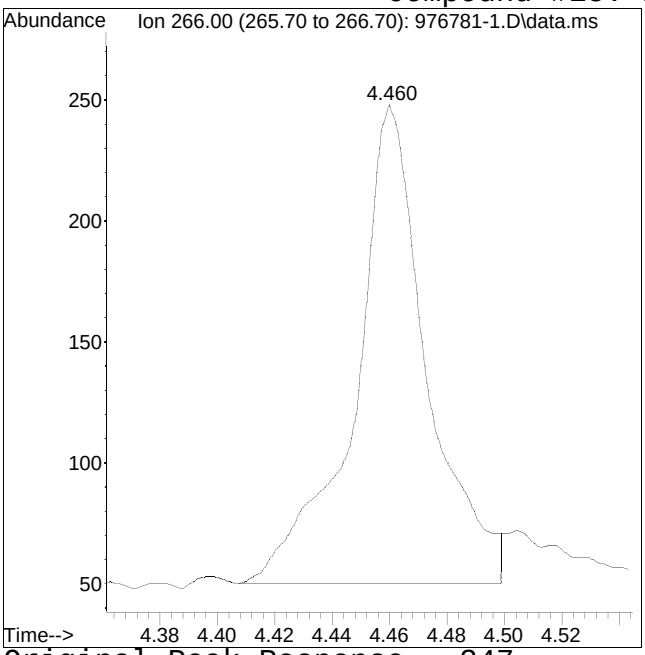


Manual Integration Report

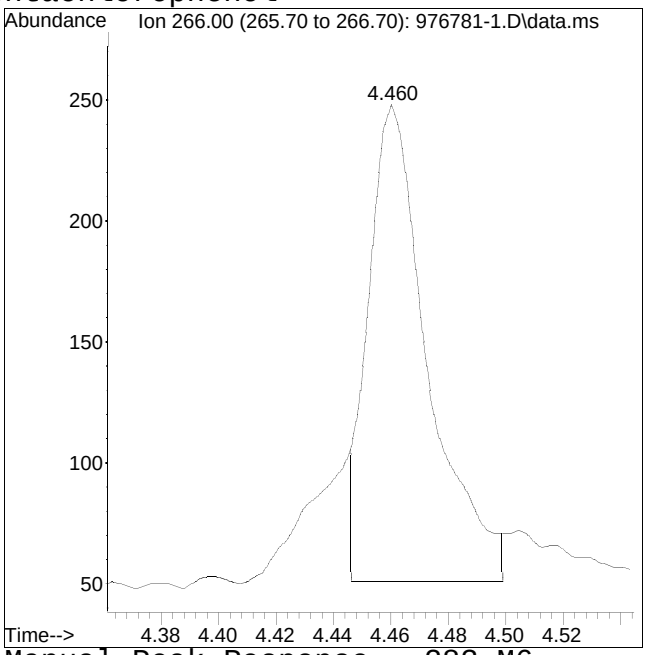
Data Path : I:\8270SIM\sv120\240927RVTQ
Data File : 976781-1.D
Date Inj'd : 9/27/2024 9:19 am
Sample : WG1976781-1,32,,kmh

Method : SIM-RVT_240925_sv120.M
Operator : SV120:rp
Instrument : SV120
Quant Date : 9/27/2024 9:31 am

Compound #25: Pentachlorophenol



Original Peak Response = 347



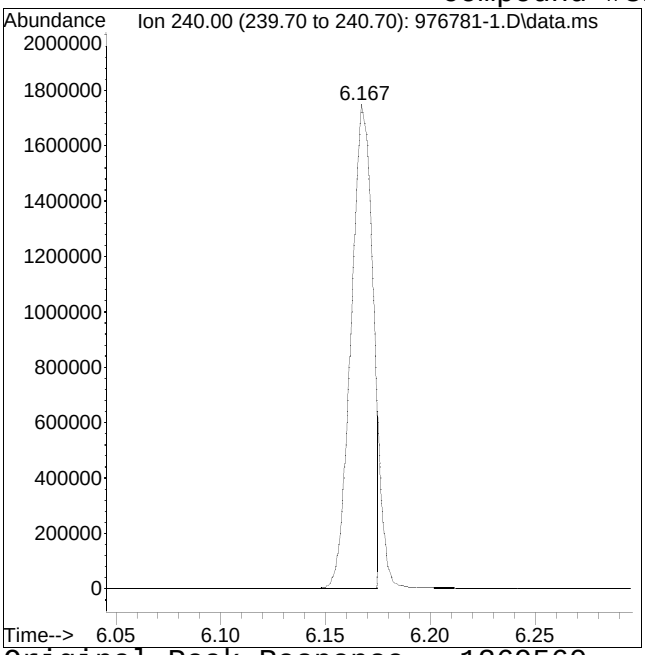
Manual Peak Response = 283 M6

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

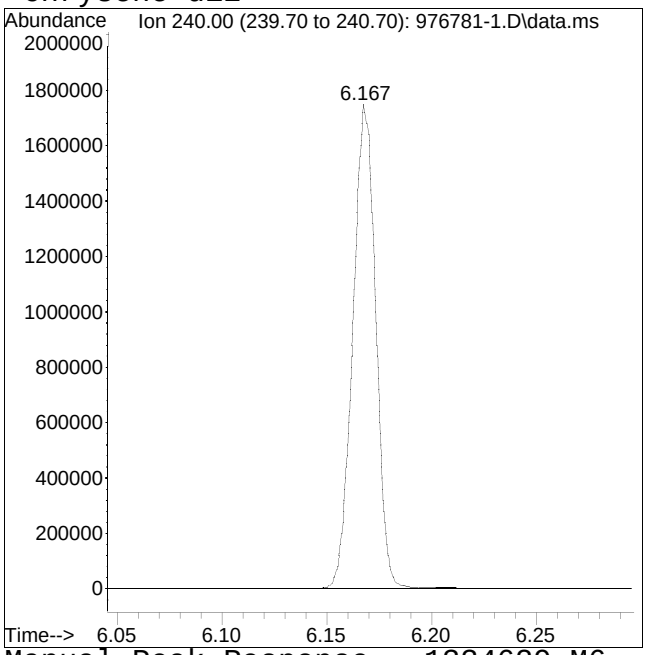
Manual Integration Report

Data Path : I:\8270SIM\sv120\240927RVTQMethod : SIM-RVT_240925_sv120.M
Data File : 976781-1.D Operator : SV120:rp
Date Inj'd : 9/27/2024 9:19 am Instrument : SV120
Sample : WG1976781-1,32,,kmh Quant Date : 9/27/2024 9:31 am

Compound #31: Chrysene-d12



Original Peak Response = 1269560



Manual Peak Response = 1334629 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-2.D
Acq On : 27 Sep 2024 09:35 am
Operator : SV120:rp
Sample : WG1976781-2,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:36:56 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.089	152	391052	4000.000	ng/ml	0.00
Standard Area 1 = 396038			Recovery = 98.74%			
8) Naphthalene-d8	2.743	136	1451649	4000.000	ng/ml	0.00
Standard Area 1 = 1485677			Recovery = 97.71%			
17) Acenaphthene-d10	3.715	164	791882	4000.000	ng/ml	0.00
Standard Area 1 = 844424			Recovery = 93.78%			
22) Phenanthrene-d10	4.553	188	1560871	4000.000	ng/ml	0.00
Standard Area 1 = 1642445			Recovery = 95.03%			
31) Chrysene-d12	6.094	240	1415598	4000.000	ng/ml	0.00
Standard Area 1 = 1466707			Recovery = 96.52%			
36) Perylene-d12	7.194	264	1401639	4000.000	ng/ml	0.01
Standard Area 1 = 1469555			Recovery = 95.38%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.539	112	99147	917.000	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.85%			
3) Phenol-d6	1.917	99	107623	848.003	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 42.40%			
7) Nitrobenzene-d5	2.368	82	92461	861.868	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.19%			
13) 2-Fluorobiphenyl	3.341	172	222733	808.172	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.82%			
21) 2,4,6-Tribromophenol	4.160	330	56084	1583.396	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 79.17%			
30) 4-Terphenyl-d14	5.471	244	236687	865.833	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 43.29%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.960	93	175059	1573.547	ng/ml	99
6) Hexachloroethane	2.340	117	61260	1279.486	ng/ml	99
9) Naphthalene	2.756	128	533066	1473.146	ng/ml	100
10) Hexachlorobutadiene	2.829	225	89251	1288.556	ng/ml	100
11) 2-Methylnaphthalene	3.132	142	363836	1598.585	ng/ml	99
14) 2-Chloronaphthalene	3.401	162	374704	1579.883	ng/ml	93
16) Acenaphthylene	3.634	152	584598	1694.397	ng/ml	100
18) Acenaphthene	3.731	153	391341	1653.934	ng/ml	99
20) Fluorene	4.022	166	457199	1749.434	ng/ml	99
24) Hexachlorobenzene	4.341	284	155215	1729.662	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-2.D
Acq On : 27 Sep 2024 09:35 am
Operator : SV120:rp
Sample : WG1976781-2,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:36:56 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.455	266	56623	1257.392	ng/ml	99
26) Phenanthrene	4.564	178	680885	1732.782	ng/ml	100
27) Anthracene	4.591	178	699343	1813.994	ng/ml	99
28) Fluoranthene	5.244	202	816691	1794.802	ng/ml	99
29) Pyrene	5.373	202	857450	1781.958	ng/ml	100
32) Benzo[a]anthracene	6.087	228	803882	1899.506	ng/ml	100
34) Chrysene	6.109	228	763634	1903.852	ng/ml	100
37) Benzo[b]fluoranthene	6.854	252	781566	2019.451	ng/ml	100
38) Benzo[k]fluoranthene	6.875	252	732649	1929.459	ng/ml	99
39) Benzo[a]pyrene	7.132	252	671359	2026.256	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.300	276	686712	2107.816	ng/ml	98
41) Dibenzo[a,h]anthracene	8.335	278	622317M6	2021.503	ng/ml	
42) Benzo[g,h,i]perylene	8.614	276	628609	1901.702	ng/ml	99

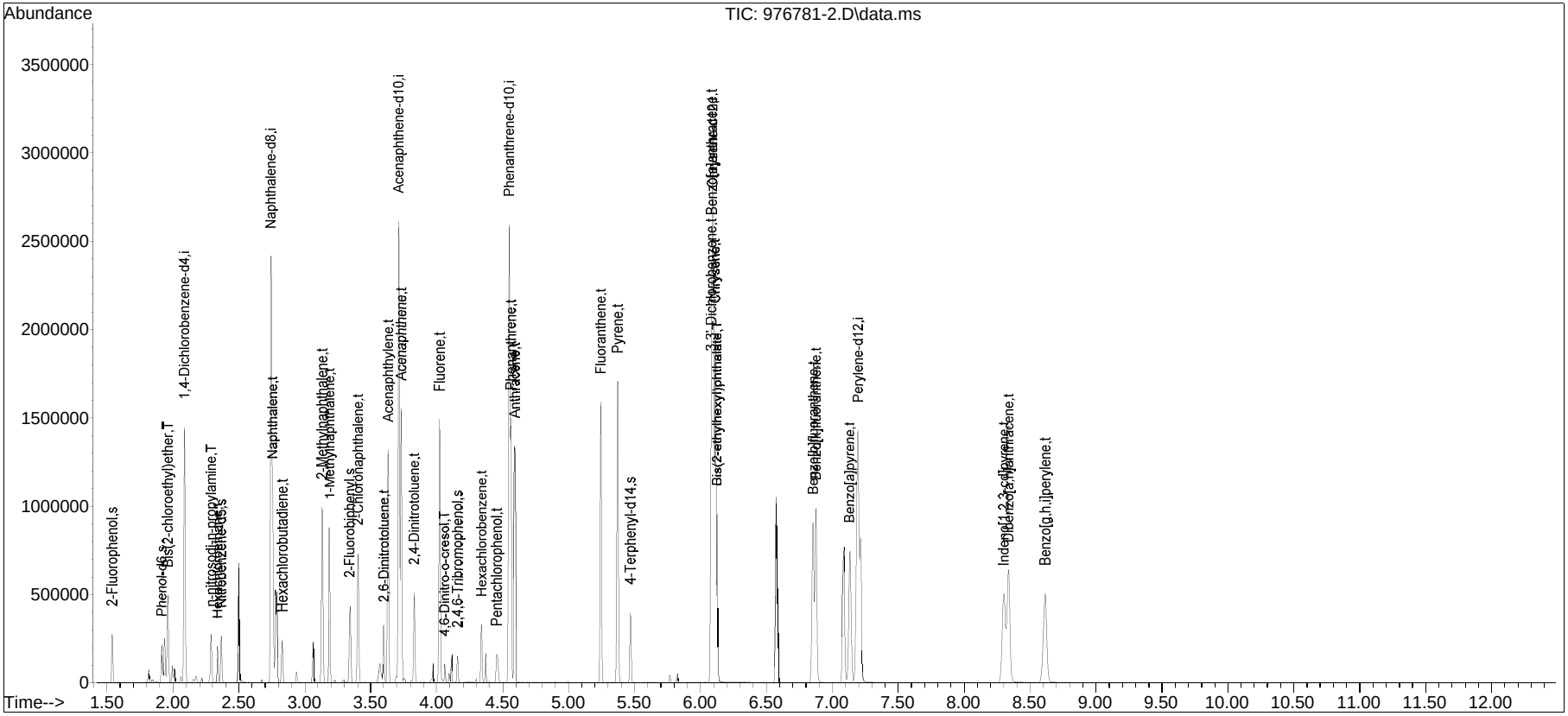
(#) = qualifier out of range (m) = manual integration (+) = signals summed

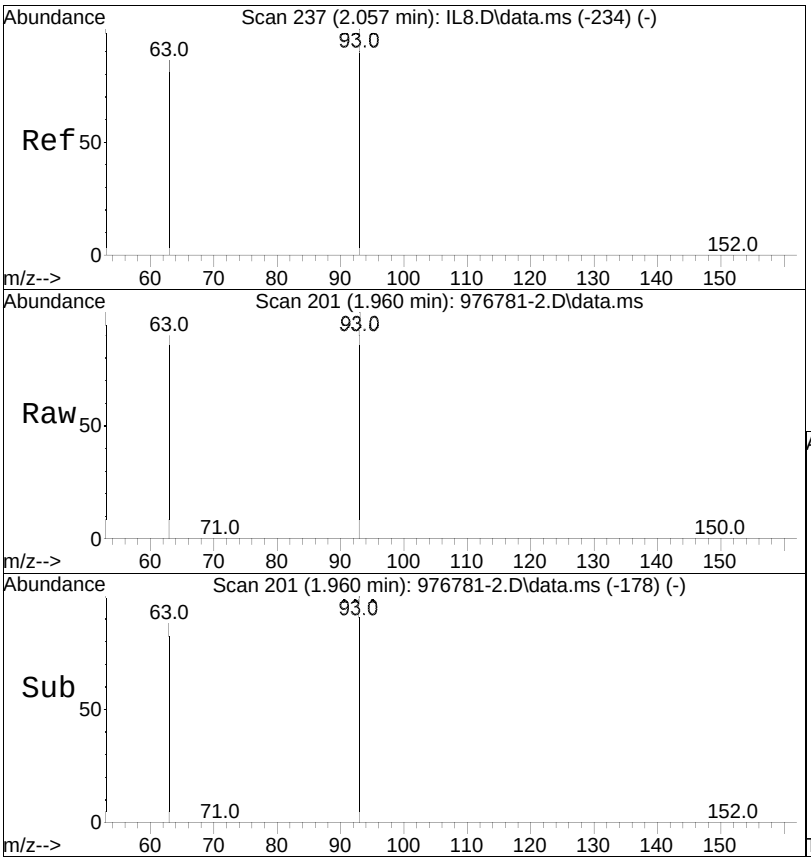
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-2.D
Acq On : 27 Sep 2024 09:35 am
Operator : SV120:rp
Sample : WG1976781-2,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:36:56 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0927.D•

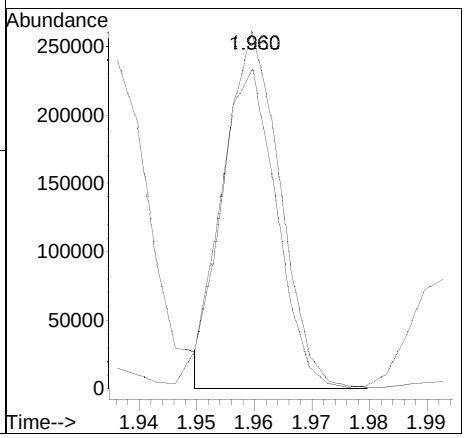


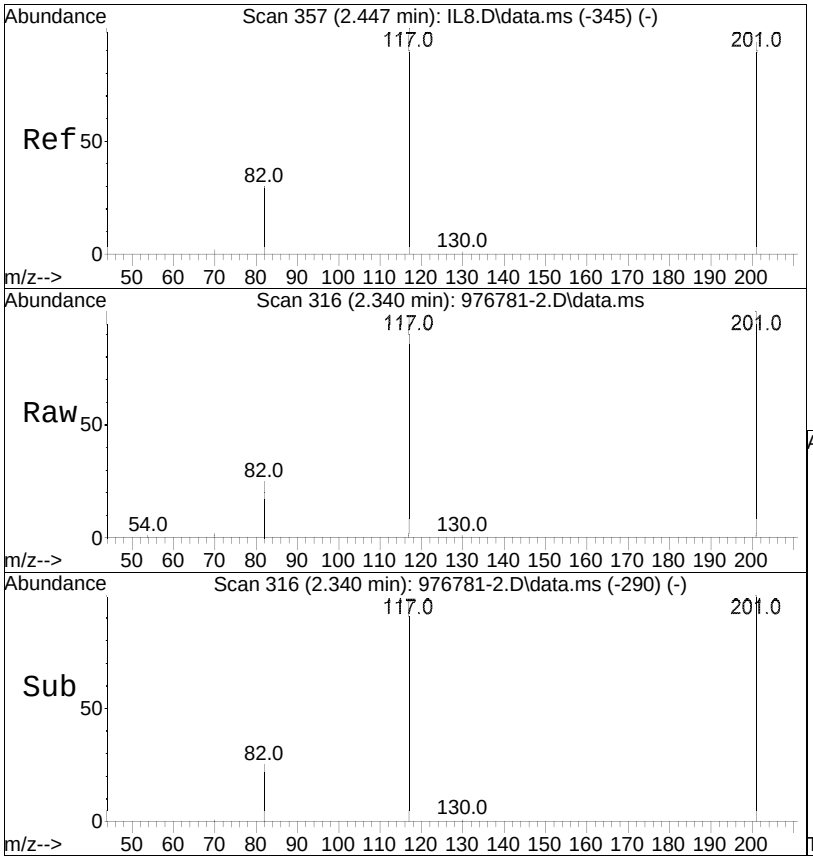


#4
Bis(2-chloroethyl)ether
Concen: 1573.55 ng/ml
RT: 1.960 min Scan# 201
Delta R.T. -0.005 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion: 93 Resp: 175059

Ion	Ratio	Lower	Upper
93	100		
63	92.2	73.0	109.4

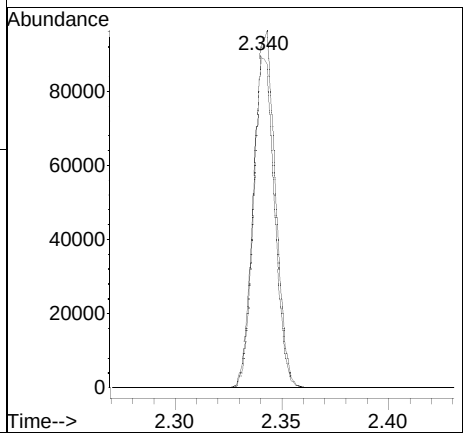


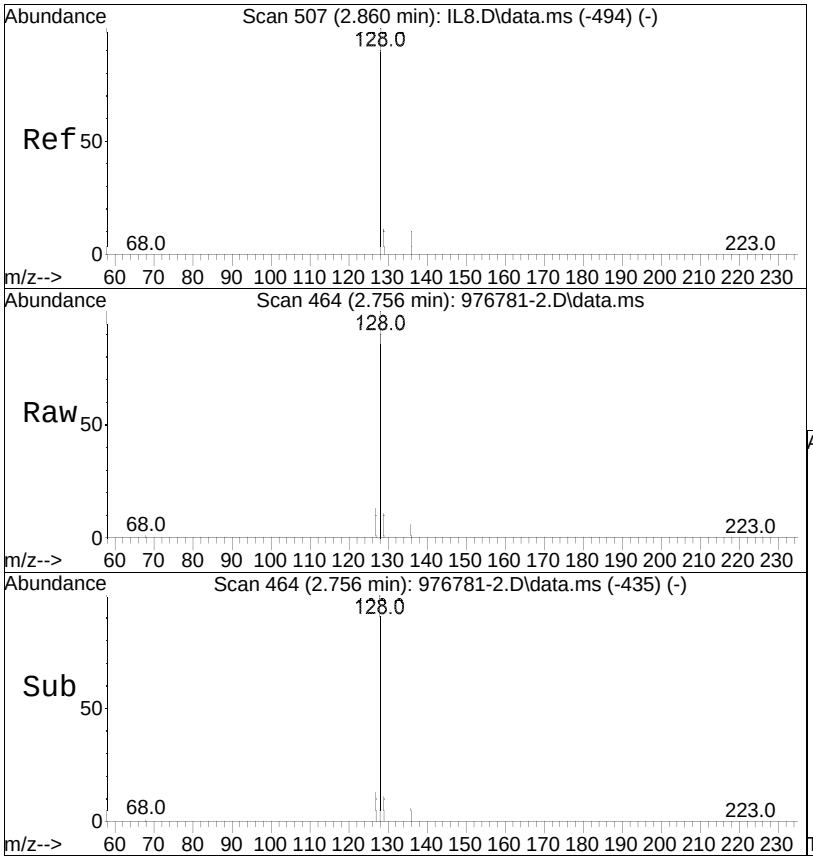


#6
Hexachloroethane
Concen: 1279.49 ng/ml
RT: 2.340 min Scan# 316
Delta R.T. -0.007 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:117 Resp: 61260

Ion	Ratio	Lower	Upper
117	100		
201	106.2	86.2	129.2

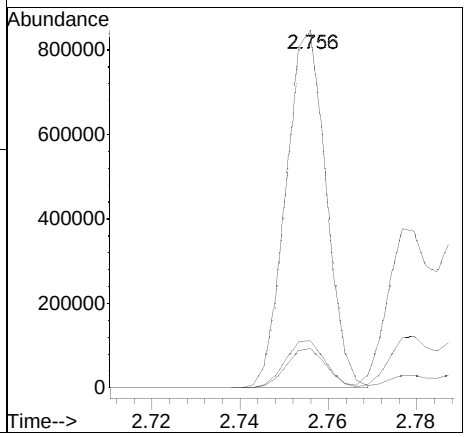


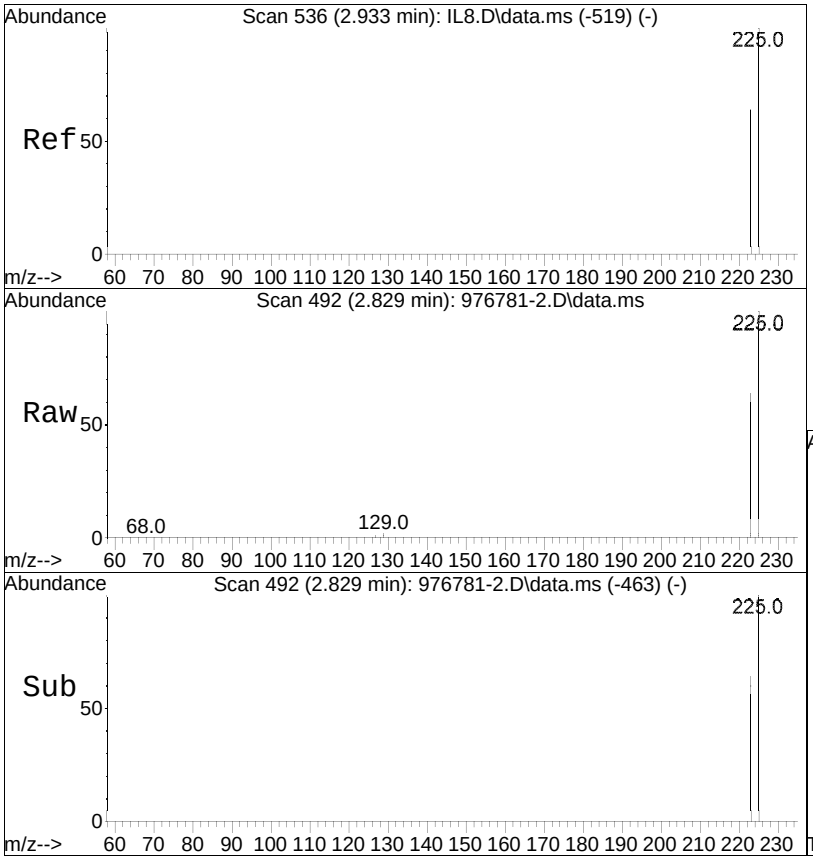


#9
Naphthalene
Concen: 1473.15 ng/ml
RT: 2.756 min Scan# 464
Delta R.T. -0.004 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:128 Resp: 533066

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.4	10.6	16.0

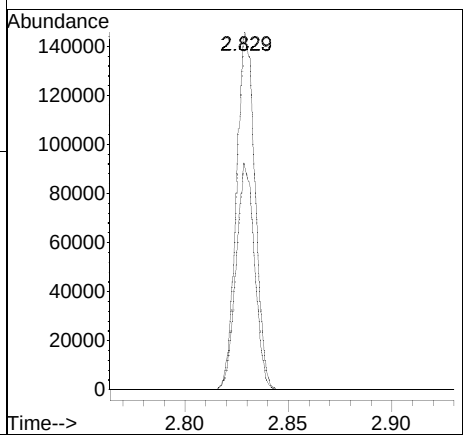


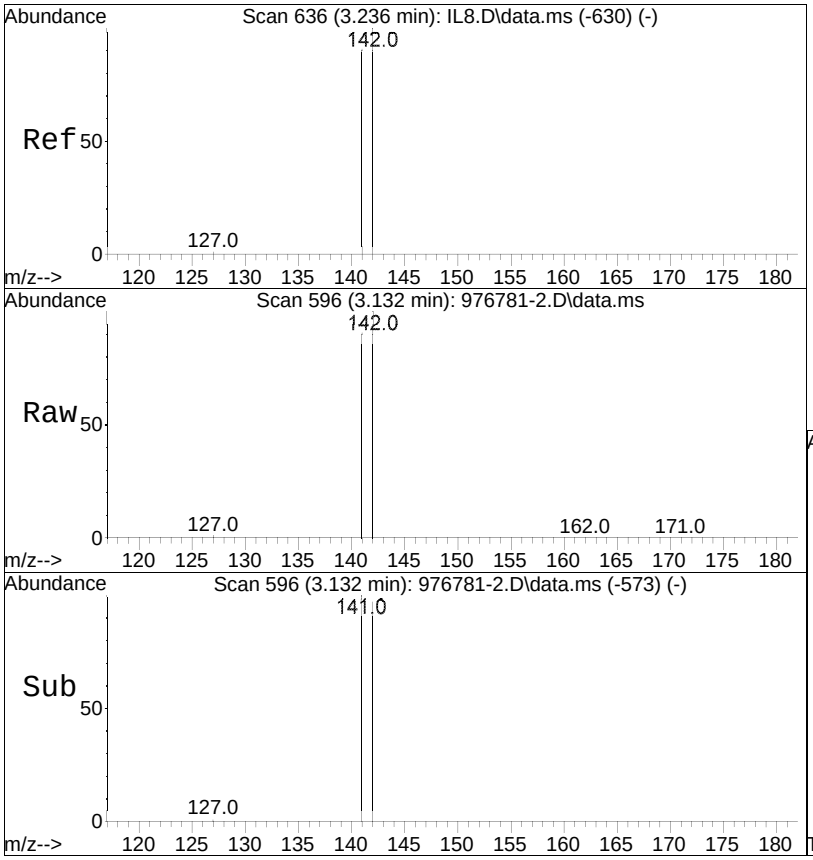


#10
Hexachlorobutadiene
Concen: 1288.56 ng/ml
RT: 2.829 min Scan# 492
Delta R.T. -0.004 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:225 Resp: 89251

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5

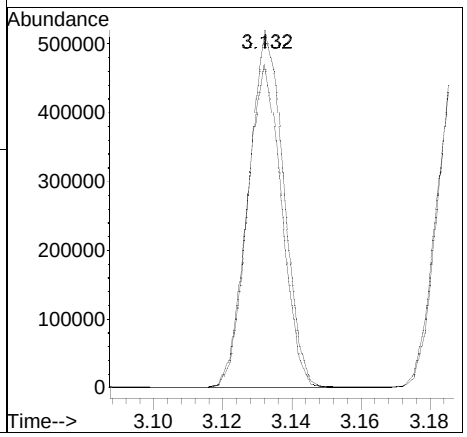


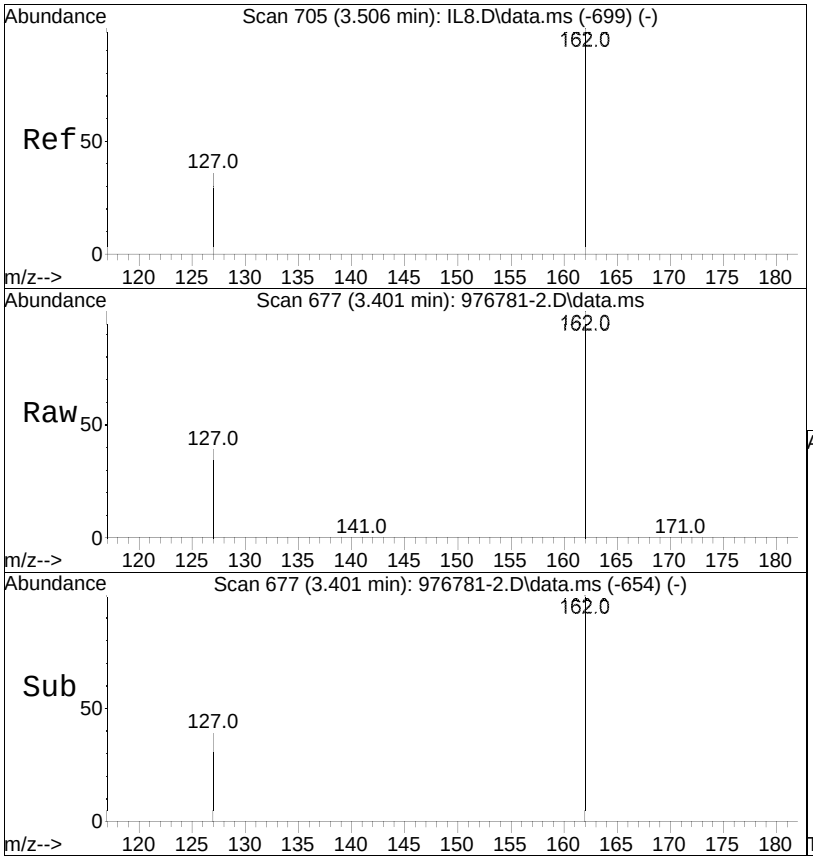


#11
2-Methylnaphthalene
Concen: 1598.59 ng/ml
RT: 3.132 min Scan# 596
Delta R.T. -0.005 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:142 Resp: 363836

Ion	Ratio	Lower	Upper
142	100		
141	90.2	73.3	109.9

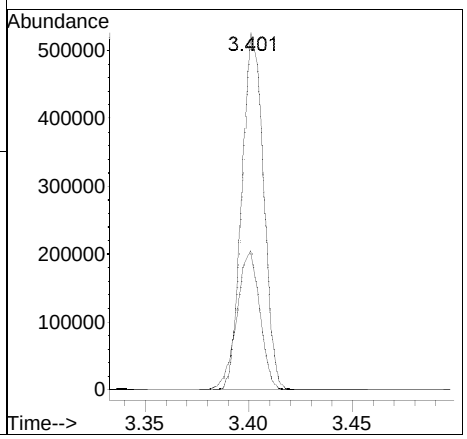


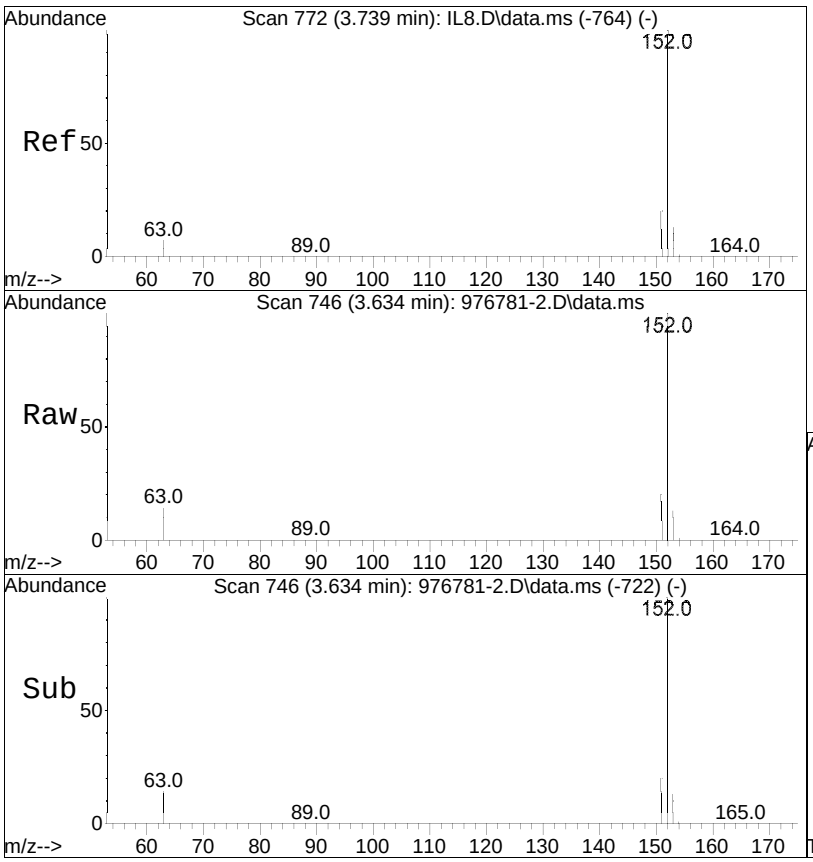


#14
2-Chloronaphthalene
Concen: 1579.88 ng/ml
RT: 3.401 min Scan# 677
Delta R.T. -0.005 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:162 Resp: 374704

Ion	Ratio	Lower	Upper
162	100		
127	41.8	30.1	45.1

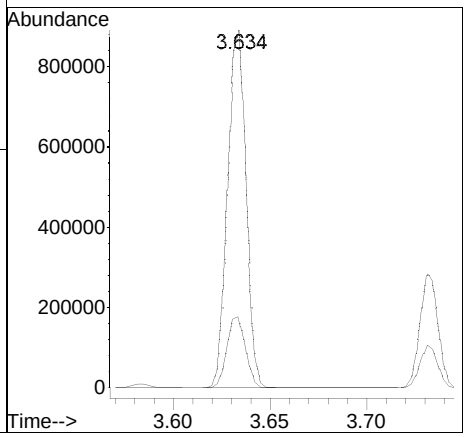


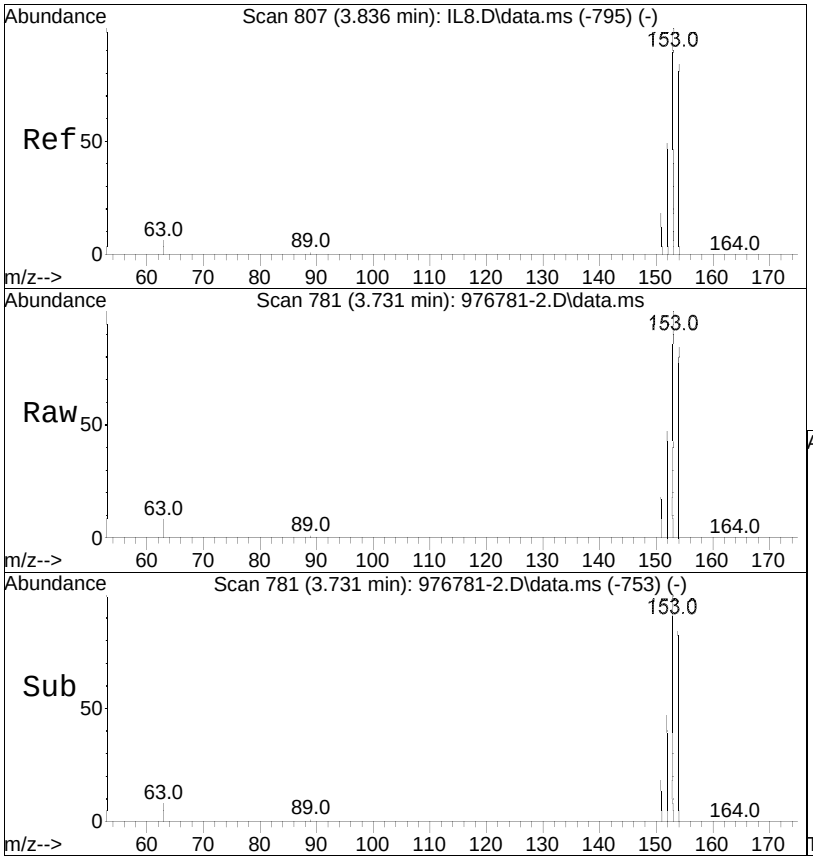


#16
Acenaphthylene
Concen: 1694.40 ng/ml
RT: 3.634 min Scan# 746
Delta R.T. -0.003 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:152 Resp: 584598

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2

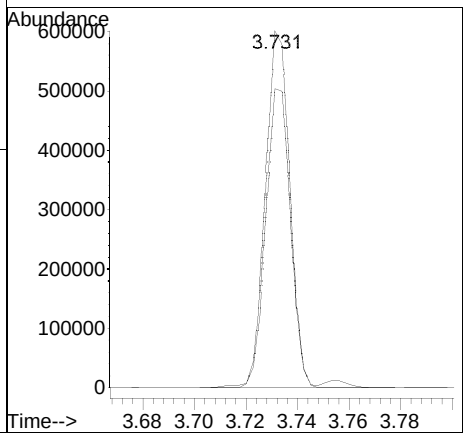


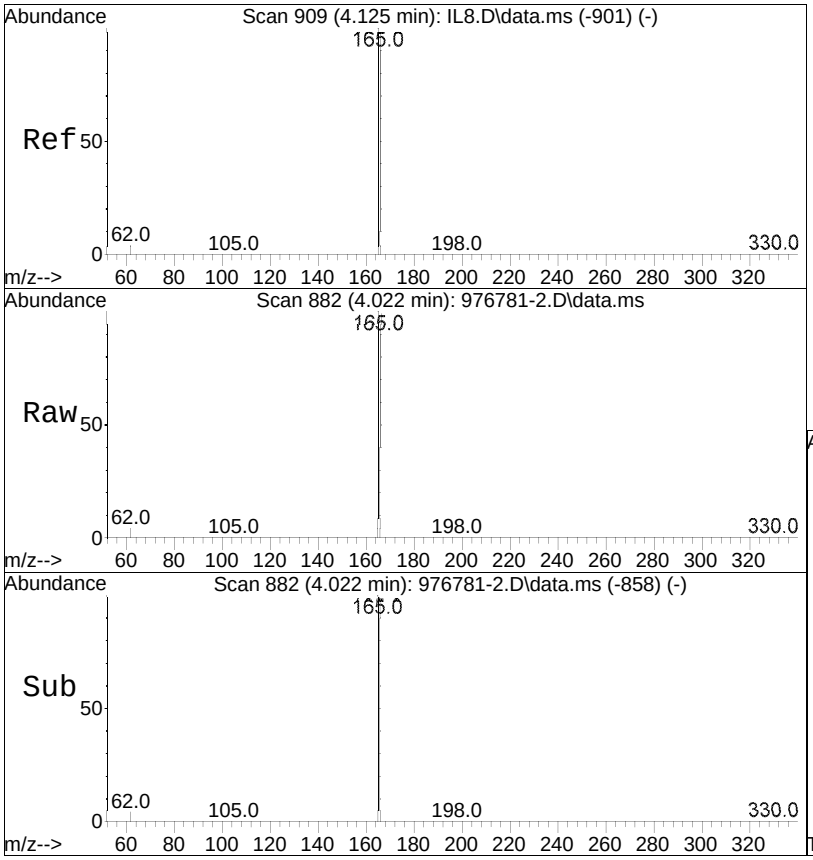


#18
Acenaphthene
Concen: 1653.93 ng/ml
RT: 3.731 min Scan# 781
Delta R.T. -0.003 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:153 Resp: 391341

Ion	Ratio	Lower	Upper
153	100		
154	85.8	69.1	103.7

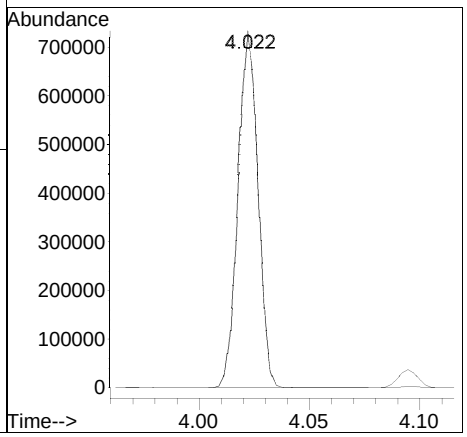


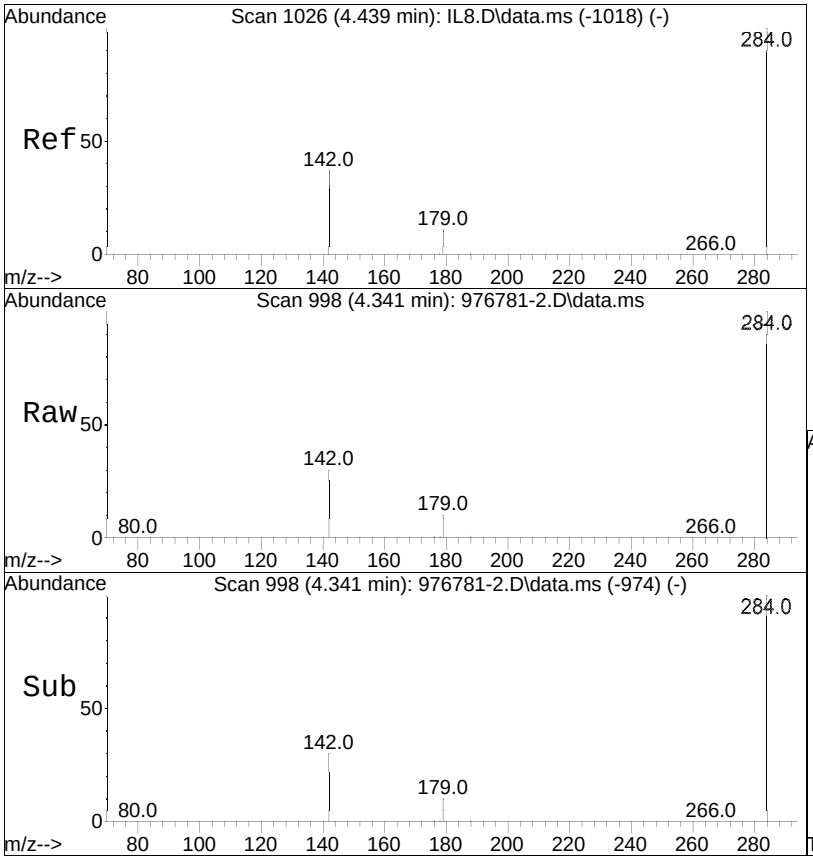


#20
Fluorene
Concen: 1749.43 ng/ml
RT: 4.022 min Scan# 882
Delta R.T. -0.003 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:166 Resp: 457199

Ion	Ratio	Lower	Upper
166	100		
165	100.9	81.4	122.2

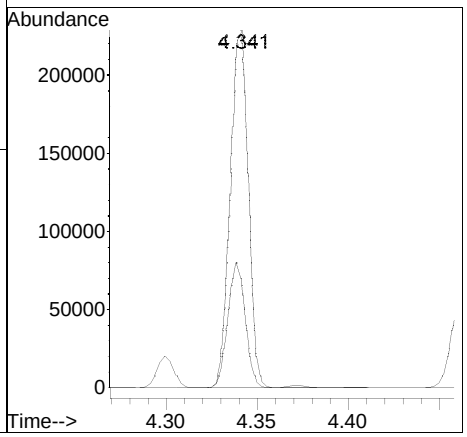


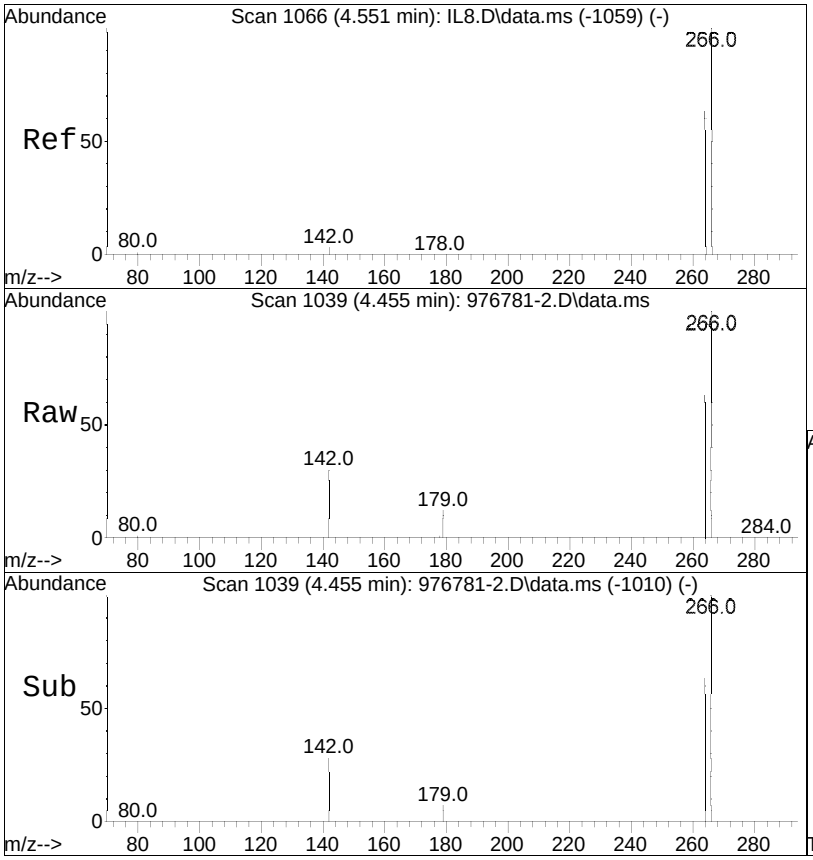


#24
Hexachlorobenzene
Concen: 1729.66 ng/ml
RT: 4.341 min Scan# 998
Delta R.T. -0.000 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:284 Resp: 155215

Ion	Ratio	Lower	Upper
284	100		
142	34.1	26.6	40.0

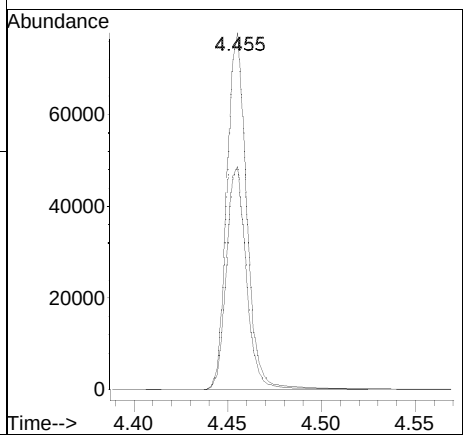


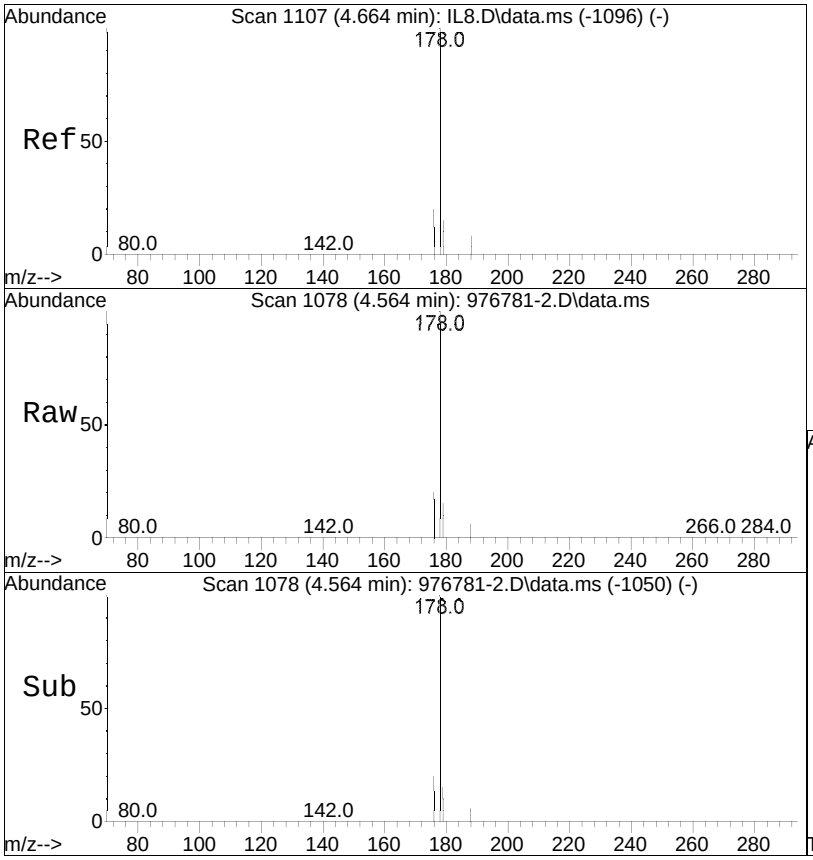


#25
Pentachlorophenol
Concen: 1257.39 ng/ml
RT: 4.455 min Scan# 1039
Delta R.T. -0.000 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:266 Resp: 56623

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.2	75.4

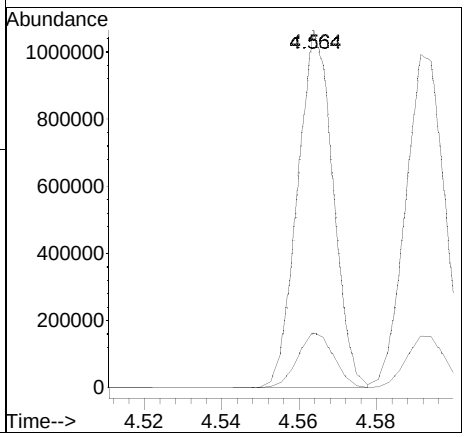


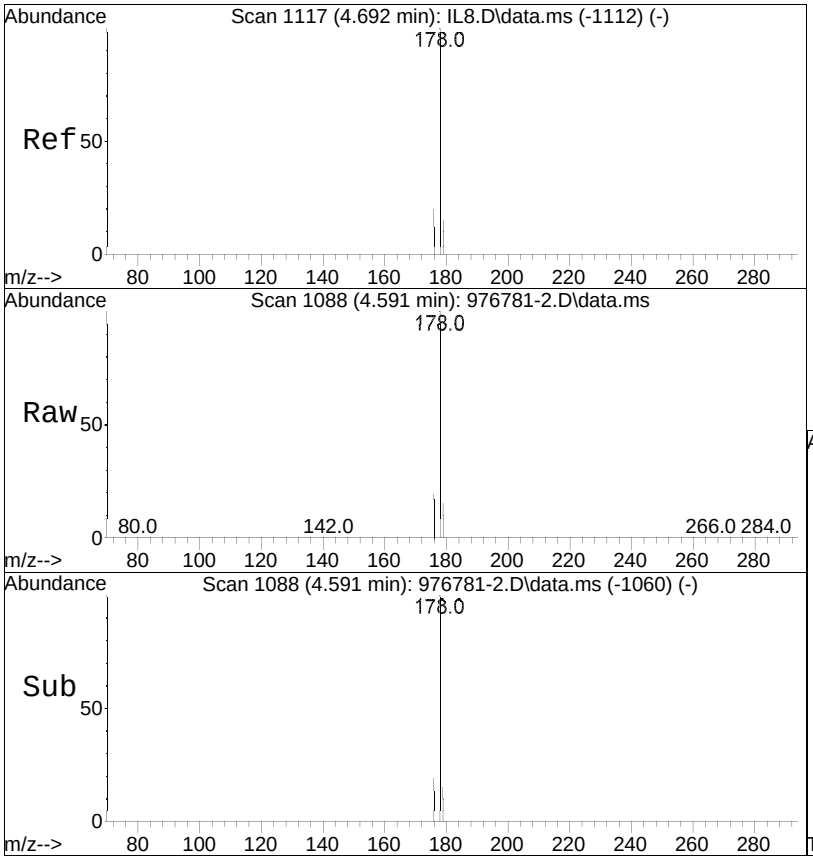


#26
Phenanthrene
Concen: 1732.78 ng/ml
RT: 4.564 min Scan# 1078
Delta R.T. -0.003 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:178 Resp: 680885

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

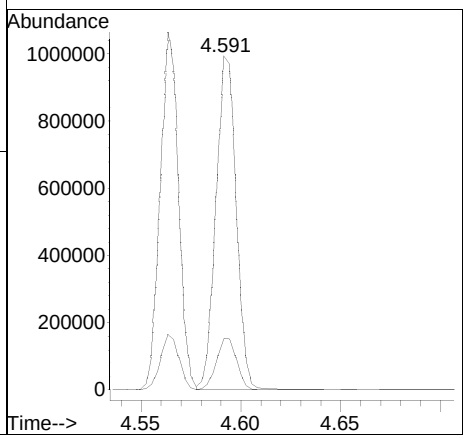


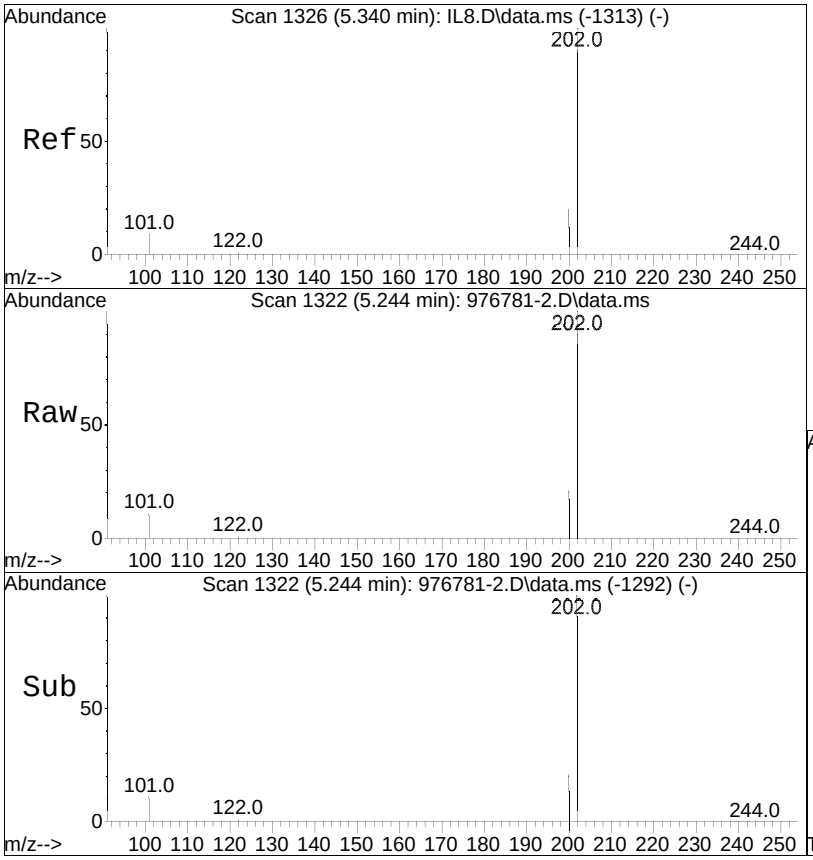


#27
Anthracene
Concen: 1813.99 ng/ml
RT: 4.591 min Scan# 1088
Delta R.T. -0.003 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:178 Resp: 699343

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

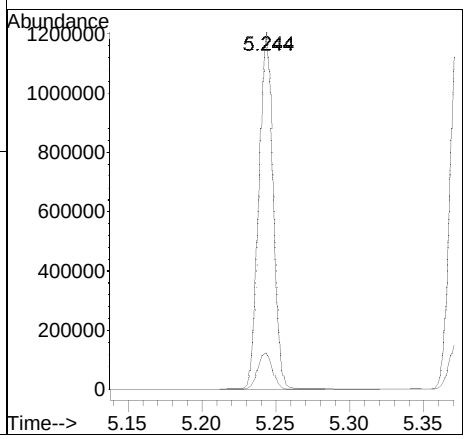


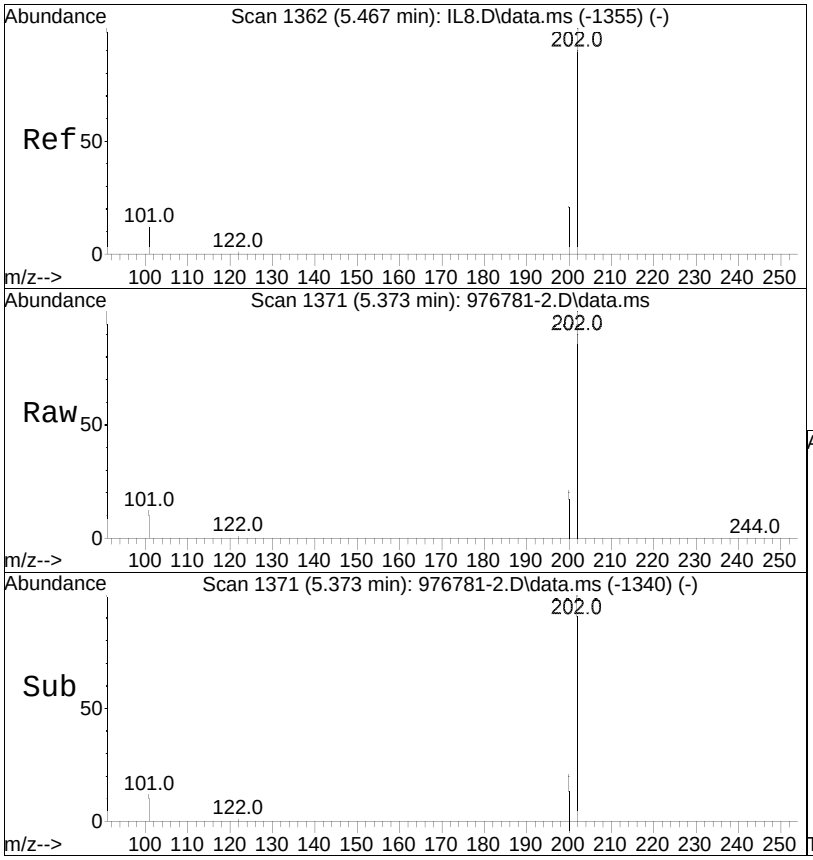


#28
Fluoranthene
Concen: 1794.80 ng/ml
RT: 5.244 min Scan# 1322
Delta R.T. -0.000 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:202 Resp: 816691

Ion	Ratio	Lower	Upper
202	100		
101	10.7	8.3	12.5

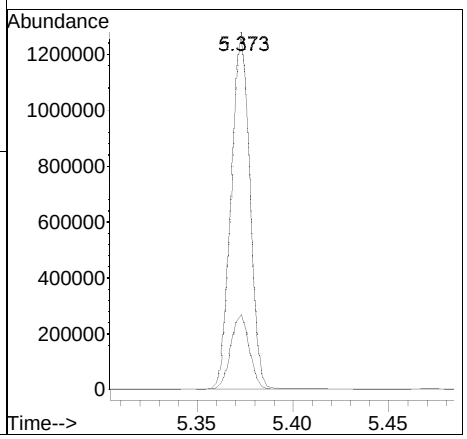


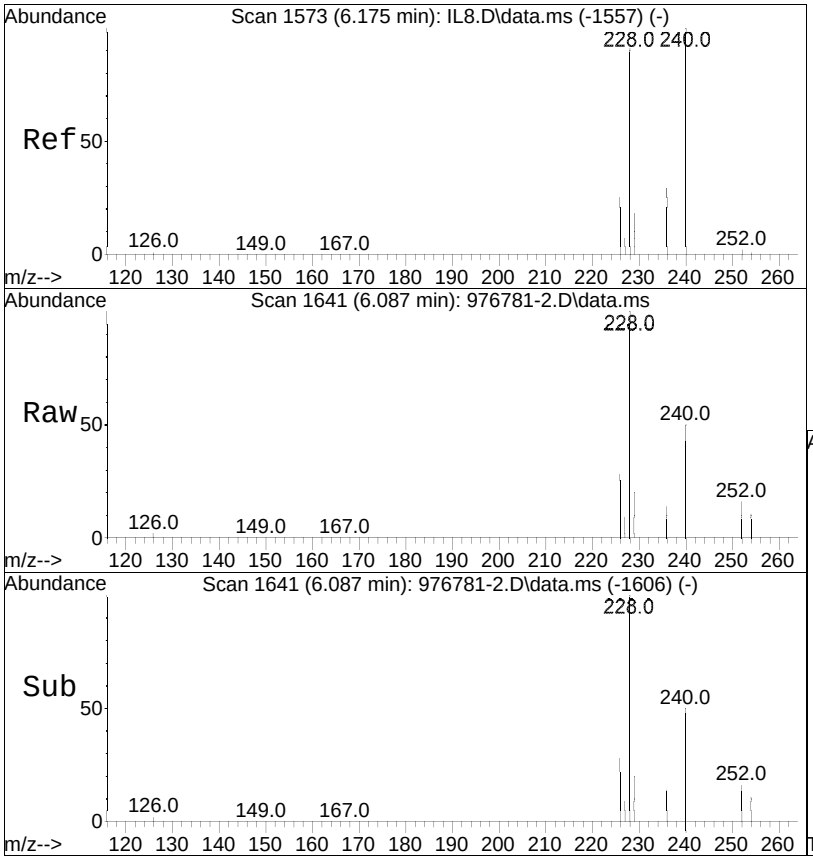


#29
Pyrene
Concen: 1781.96 ng/ml
RT: 5.373 min Scan# 1371
Delta R.T. 0.002 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:202 Resp: 857450

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

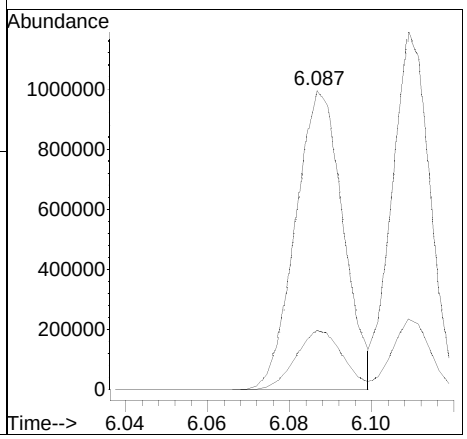


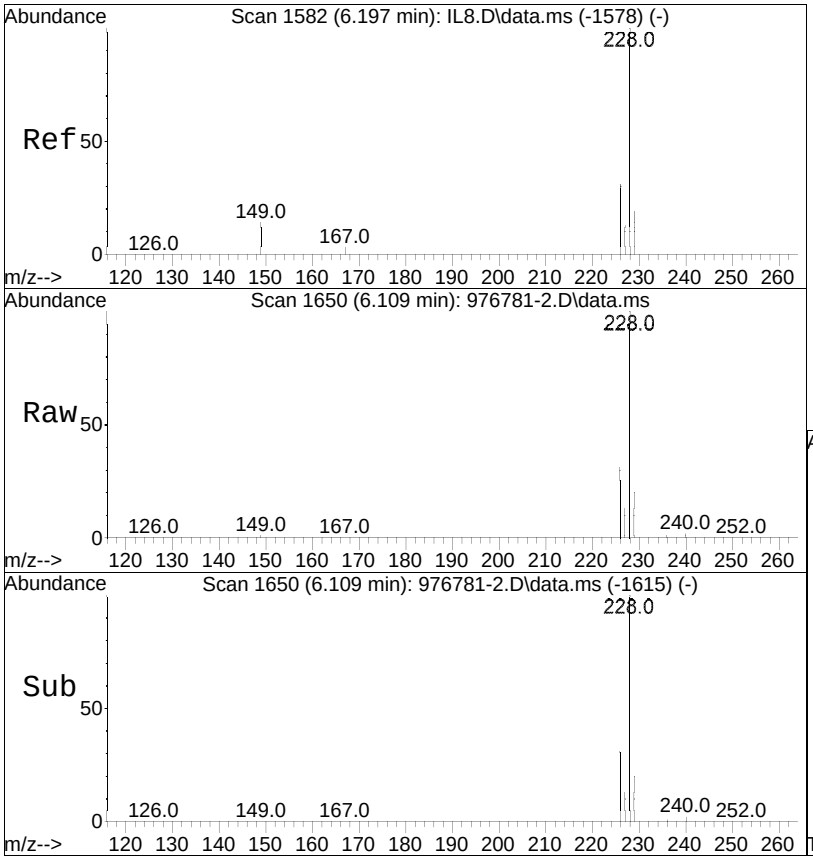


#32
Benzo[a]anthracene
Concen: 1899.51 ng/ml
RT: 6.087 min Scan# 1641
Delta R.T. 0.007 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:228 Resp: 803882

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

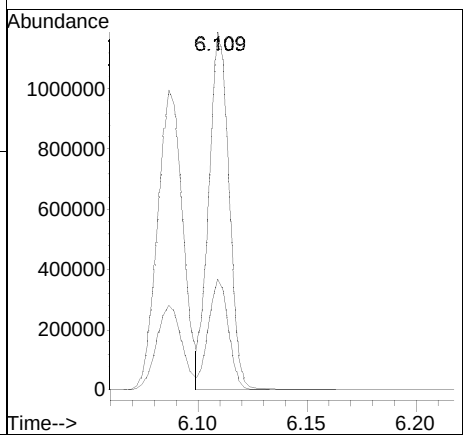


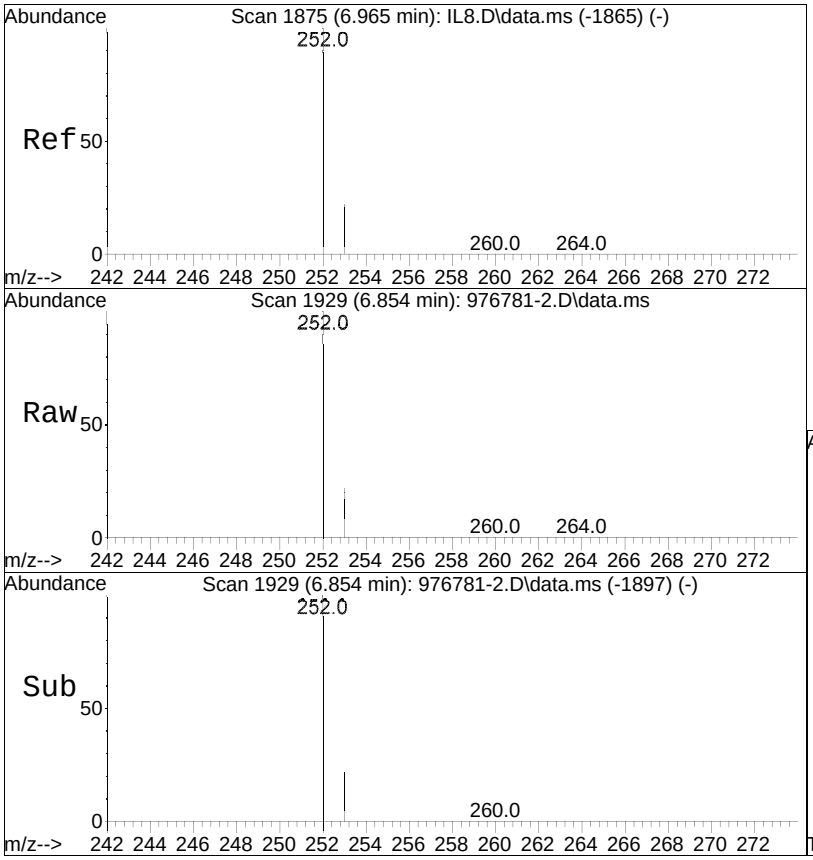


#34
Chrysene
Concen: 1903.85 ng/ml
RT: 6.109 min Scan# 1650
Delta R.T. 0.007 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:228 Resp: 763634

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	36.8

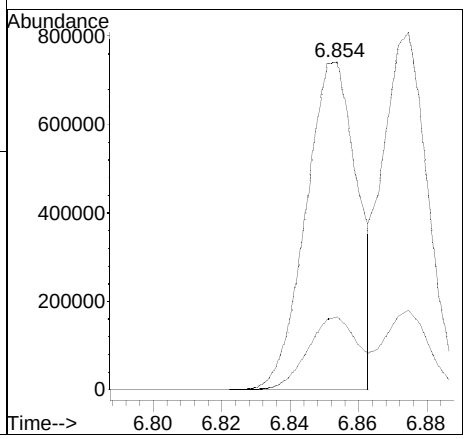


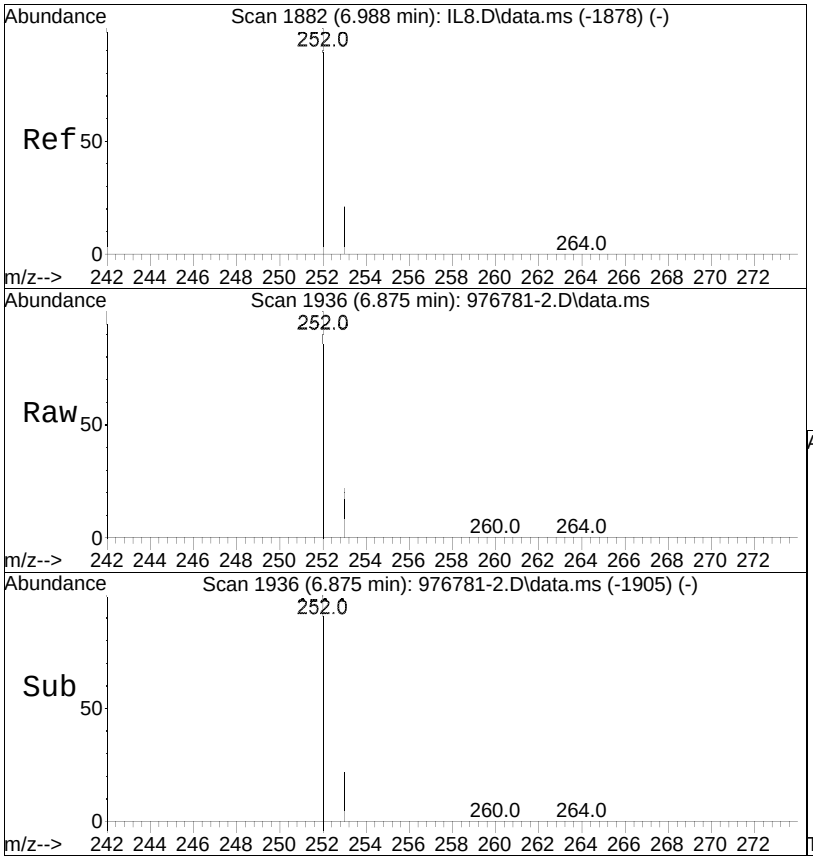


#37
Benzo[b]fluoranthene
Concen: 2019.45 ng/ml
RT: 6.854 min Scan# 1929
Delta R.T. 0.014 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:252 Resp: 781566

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

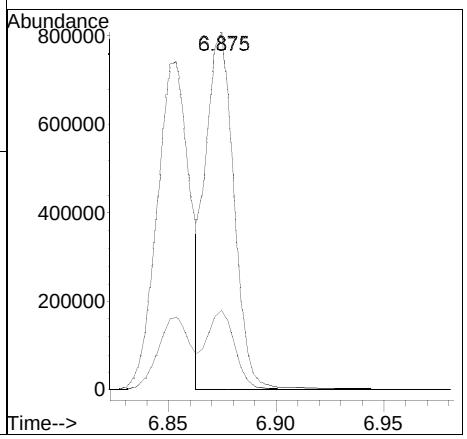


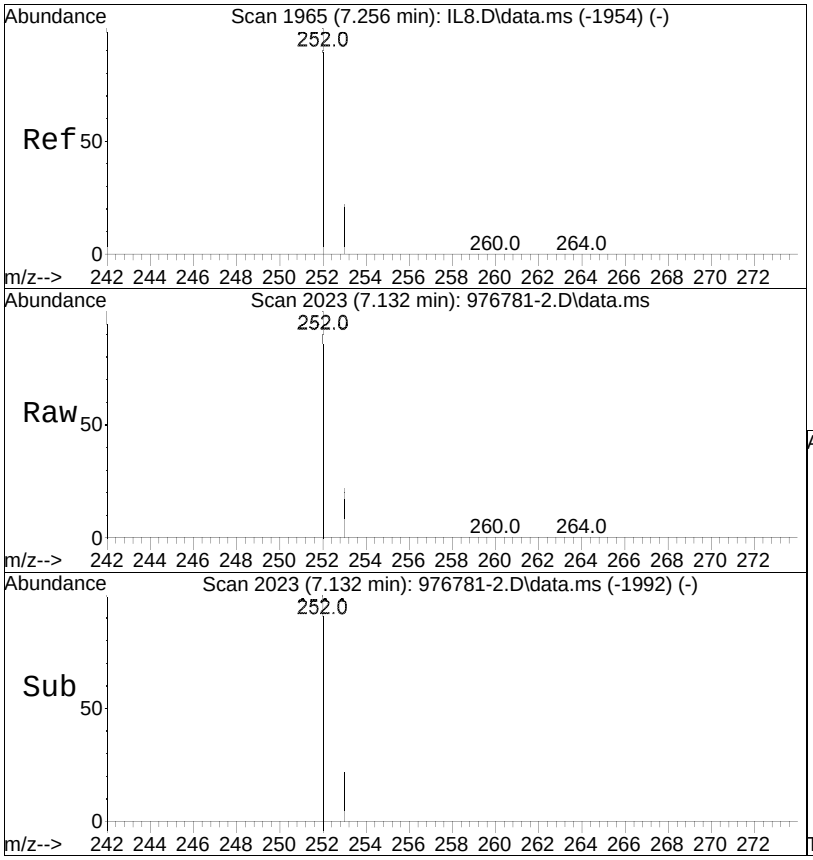


#38
Benzo[k]fluoranthene
Concen: 1929.46 ng/ml
RT: 6.875 min Scan# 1936
Delta R.T. 0.011 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:252 Resp: 732649

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3

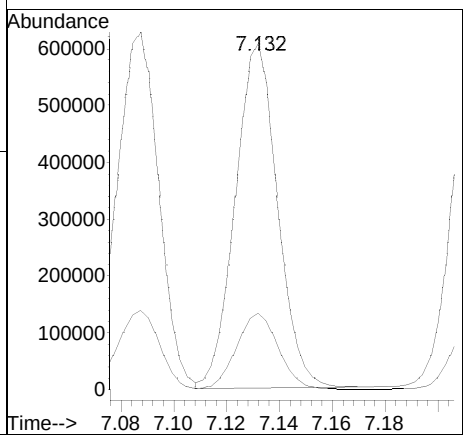


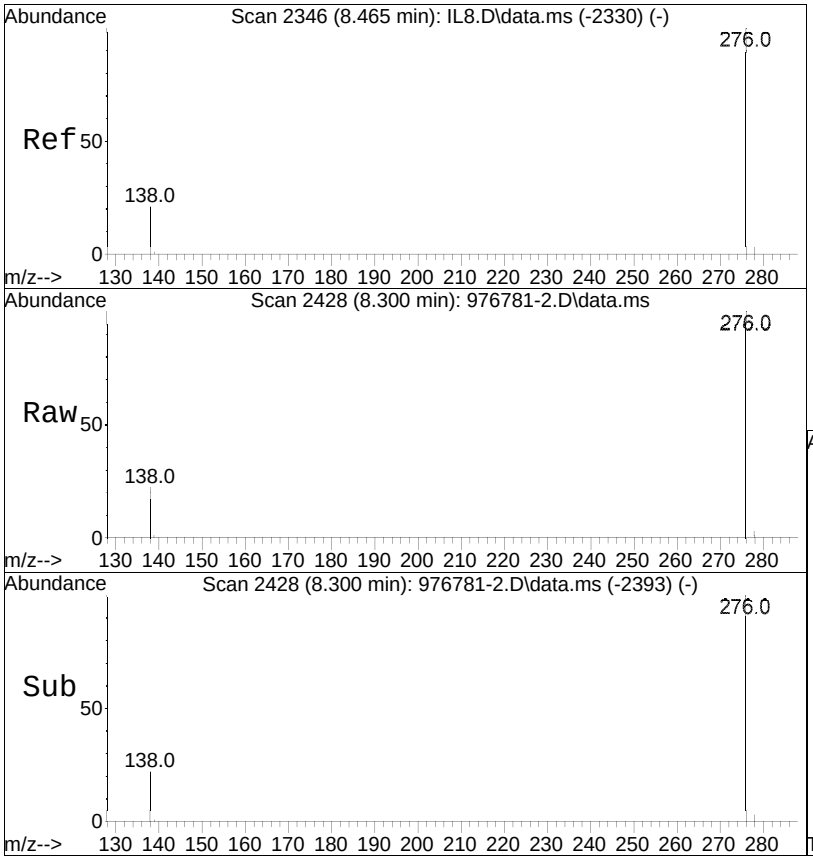


#39
Benzo[a]pyrene
Concen: 2026.26 ng/ml
RT: 7.132 min Scan# 2023
Delta R.T. 0.011 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:252 Resp: 671359

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0

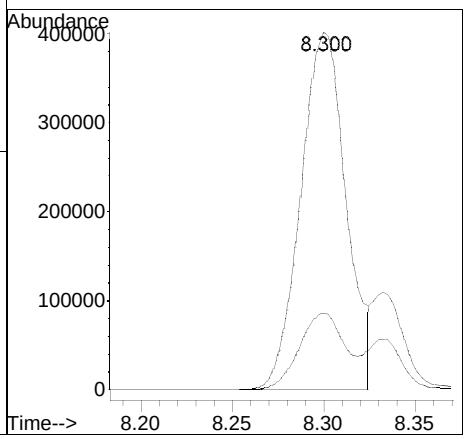


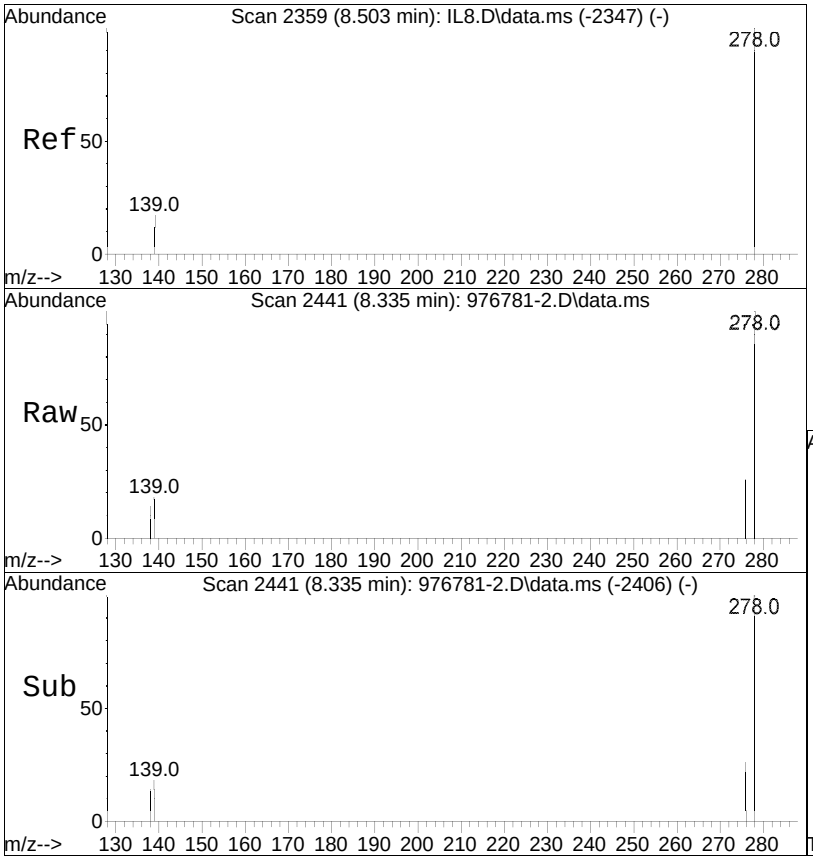


#40
Indeno[1,2,3-cd]pyrene
Concen: 2107.82 ng/ml
RT: 8.300 min Scan# 2428
Delta R.T. 0.013 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:276 Resp: 686712

Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.5	24.7

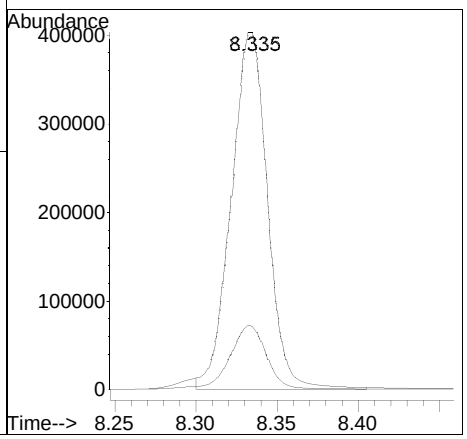


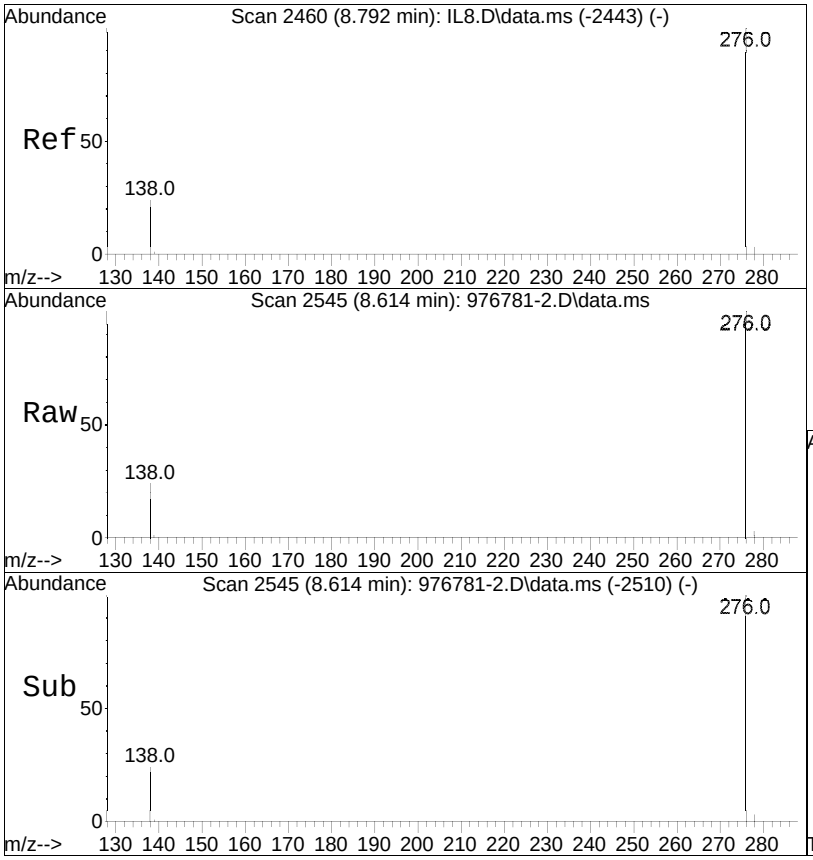


#41
Dibenzo[a,h]anthracene
Concen: 2021.50 ng/ml M6
RT: 8.335 min Scan# 2441
Delta R.T. 0.013 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:278 Resp: 622317

Ion	Ratio	Lower	Upper
278	100		
139	18.3	14.5	21.7

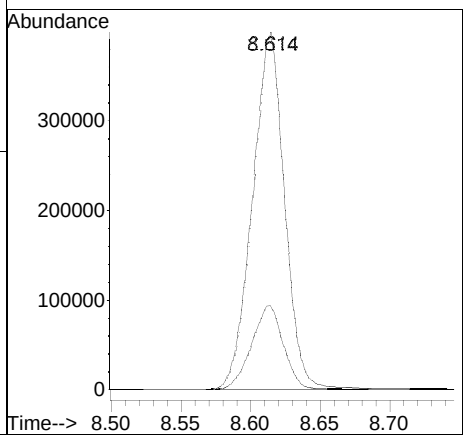




#42
Benzo[g,h,i]perylene
Concen: 1901.70 ng/ml
RT: 8.614 min Scan# 2545
Delta R.T. 0.013 min
Lab File: 976781-2.D
Acq: 27 Sep 2024 09:35 am

Tgt Ion:276 Resp: 628609

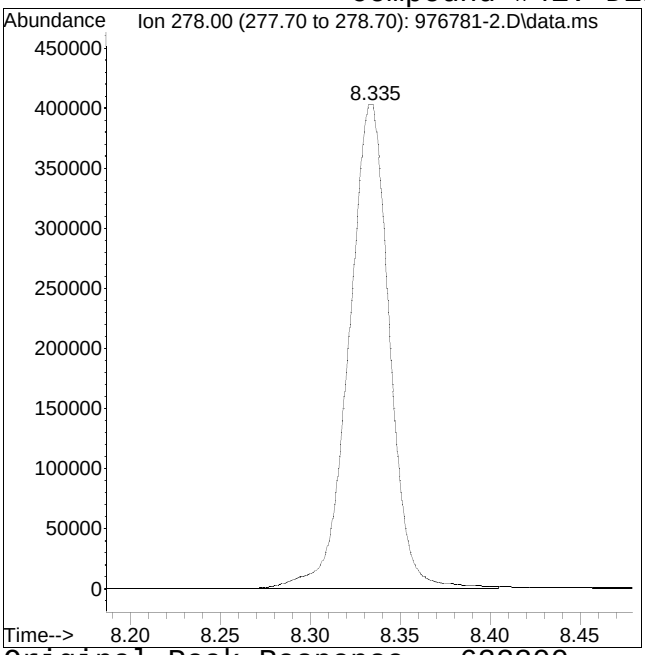
Ion	Ratio	Lower	Upper
276	100		
138	23.7	18.6	27.8



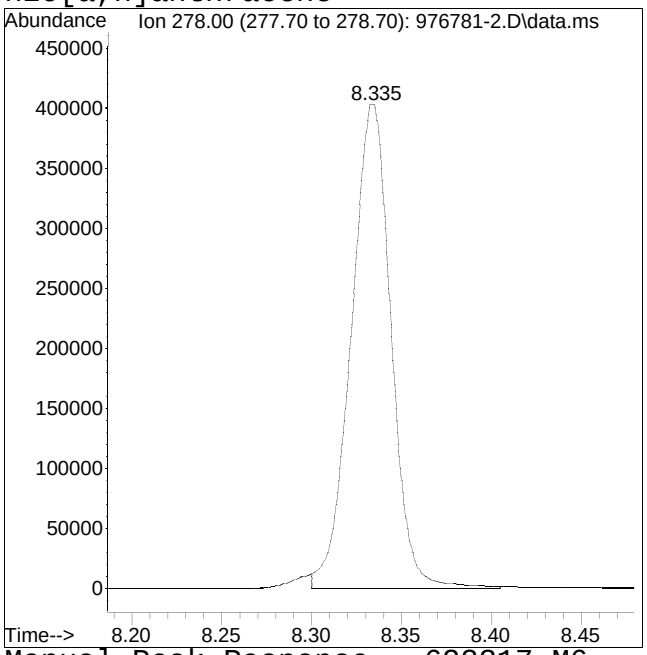
Manual Integration Report

Data Path : I:\8270SIM\sv120\240927RVTQMethod : SIM-RVT_240925_sv120.M
Data File : 976781-2.D Operator : SV120:rp
Date Inj'd : 9/27/2024 9:35 am Instrument : SV120
Sample : WG1976781-2,32,,kmh Quant Date : 9/27/2024 9:48 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 632300



Manual Peak Response = 622317 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-3.D
Acq On : 27 Sep 2024 09:59 am
Operator : SV120:rp
Sample : WG1976781-3,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:37:42 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.083	152	329882	4000.000	ng/ml	-0.01
Standard Area 1 = 396038			Recovery = 83.30%			
8) Naphthalene-d8	2.738	136	1234691	4000.000	ng/ml	0.00
Standard Area 1 = 1485677			Recovery = 83.11%			
17) Acenaphthene-d10	3.713	164	674795	4000.000	ng/ml	0.00
Standard Area 1 = 844424			Recovery = 79.91%			
22) Phenanthrene-d10	4.554	188	1292396	4000.000	ng/ml	0.00
Standard Area 1 = 1642445			Recovery = 78.69%			
31) Chrysene-d12	6.150	240	1155410	4000.000	ng/ml	0.06
Standard Area 1 = 1466707			Recovery = 78.78%			
36) Perylene-d12	7.260	264	1159970	4000.000	ng/ml	0.08
Standard Area 1 = 1469555			Recovery = 78.93%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.529	112	106423	1166.813	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 58.34%			
3) Phenol-d6	1.910	99	95887	895.628	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.78%			
7) Nitrobenzene-d5	2.362	82	77930	861.118	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.11%			
13) 2-Fluorobiphenyl	3.337	172	184605	787.528	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 78.75%			
21) 2,4,6-Tribromophenol	4.161	330	57281	1897.797	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 94.89%			
30) 4-Terphenyl-d14	5.497	244	196102	866.389	ng/ml	0.03
Spiked Amount 2000.000	Range 30 - 130		Recovery = 43.32%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.953	93	152314	1622.971	ng/ml	99
6) Hexachloroethane	2.337	117	50908	1260.435	ng/ml	99
9) Naphthalene	2.751	128	454332	1476.187	ng/ml	100
10) Hexachlorobutadiene	2.824	225	73935	1255.000	ng/ml	99
11) 2-Methylnaphthalene	3.128	142	302358	1561.906	ng/ml	99
14) 2-Chloronaphthalene	3.400	162	312952	1551.378	ng/ml	92
16) Acenaphthylene	3.630	152	490523	1671.554	ng/ml	100
18) Acenaphthene	3.730	153	332341	1648.297	ng/ml	100
20) Fluorene	4.021	166	380974	1710.710	ng/ml	99
24) Hexachlorobenzene	4.340	284	130533	1756.788	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-3.D
Acq On : 27 Sep 2024 09:59 am
Operator : SV120:rp
Sample : WG1976781-3,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:37:42 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.457	266	84312	1990.775	ng/ml	99
26) Phenanthrene	4.565	178	571870	1757.676	ng/ml	100
27) Anthracene	4.596	178	588729	1844.304	ng/ml	100
28) Fluoranthene	5.259	202	674519	1790.295	ng/ml	99
29) Pyrene	5.393	202	704413	1768.021	ng/ml	100
32) Benzo[a]anthracene	6.143	228	680570	1970.645	ng/ml	100
34) Chrysene	6.165	228	631937	1930.303	ng/ml	100
37) Benzo[b]fluoranthene	6.917	252	669763	2091.117	ng/ml	100
38) Benzo[k]fluoranthene	6.940	252	607878	1934.396	ng/ml	99
39) Benzo[a]pyrene	7.201	252	562749	2052.313	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.365	276	577264	2141.026	ng/ml	98
41) Dibenzo[a,h]anthracene	8.400	278	523047M6	2053.018	ng/ml	
42) Benzo[g,h,i]perylene	8.677	276	532259	1945.692	ng/ml	99

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

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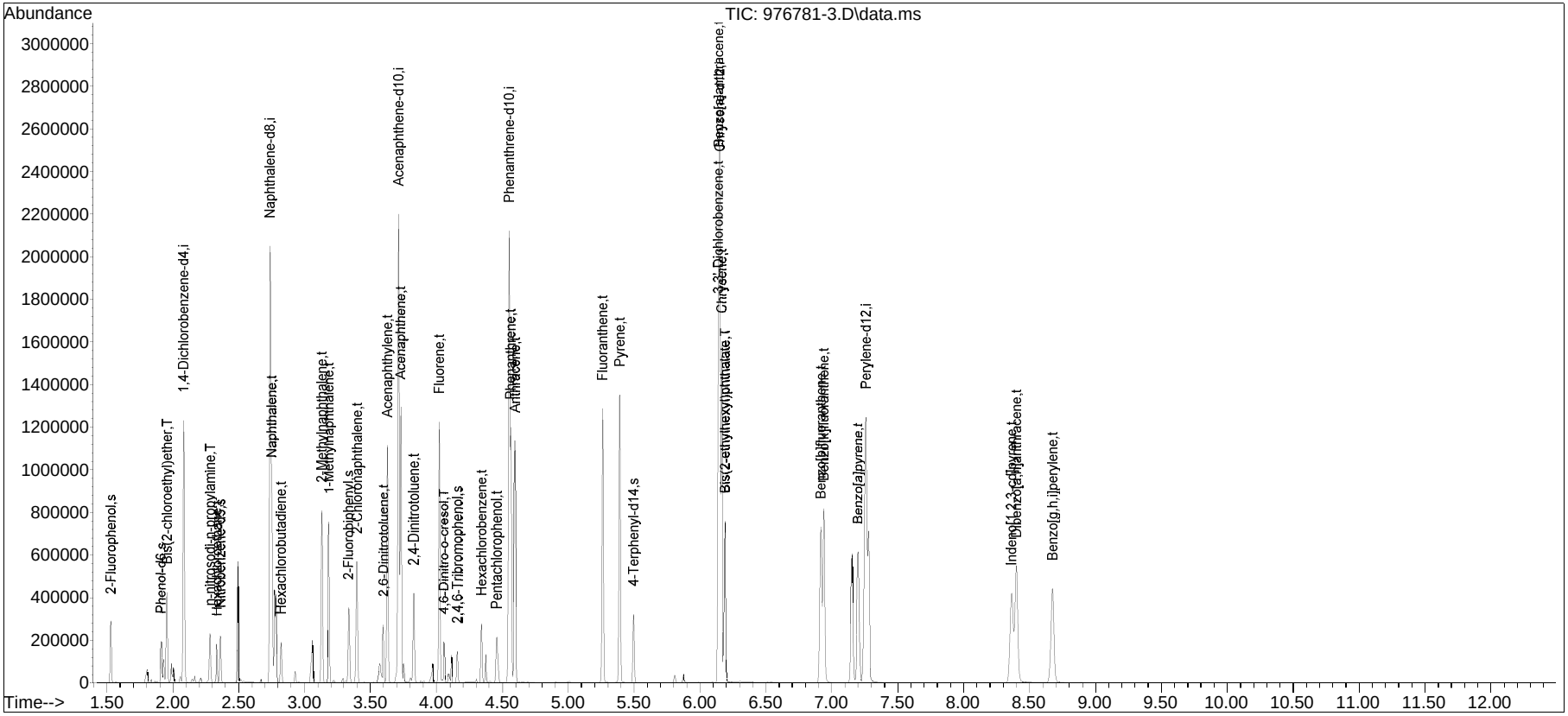
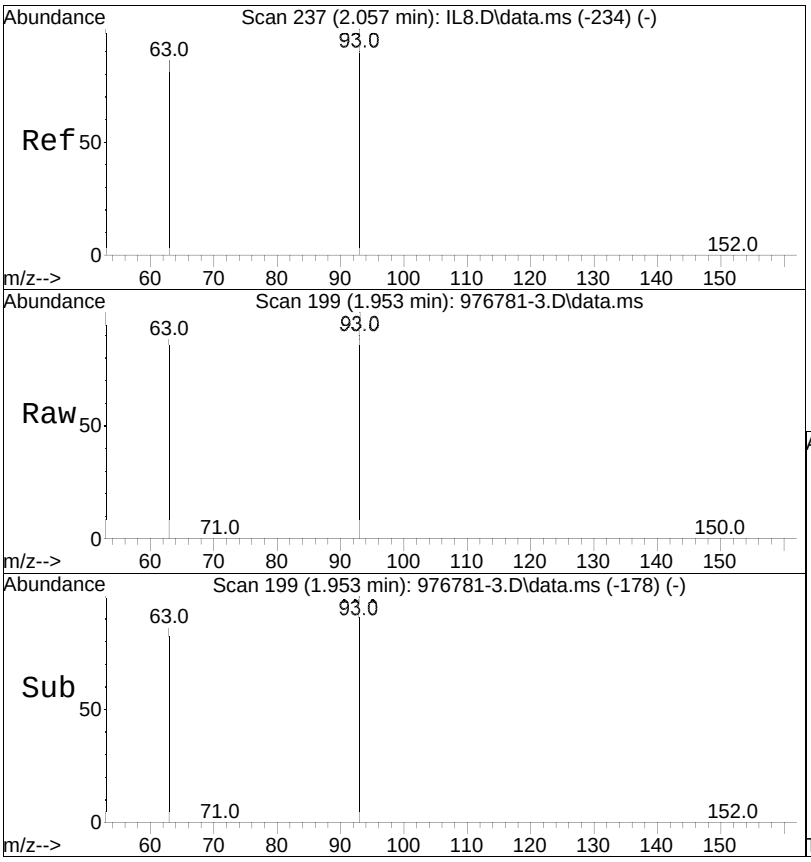
Sample : WG1976781-3,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:37:42 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0927.D•

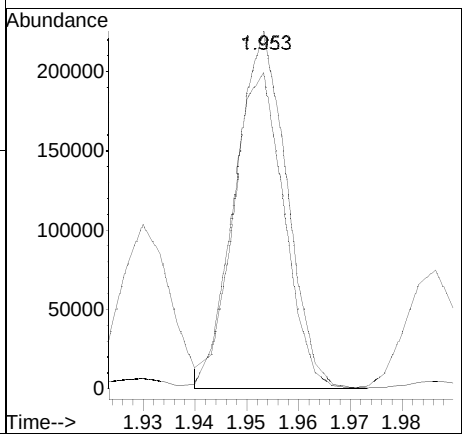


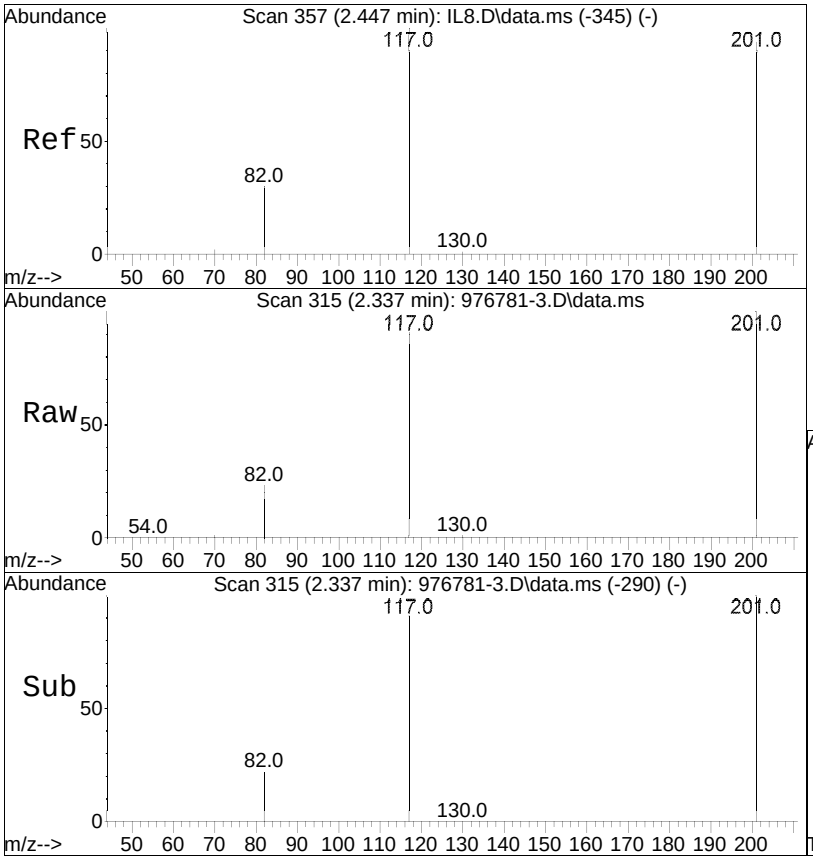


#4
Bis(2-chloroethyl)ether
Concen: 1622.97 ng/ml
RT: 1.953 min Scan# 199
Delta R.T. -0.011 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion: 93 Resp: 152314

Ion	Ratio	Lower	Upper
93	100		
63	90.3	73.0	109.4

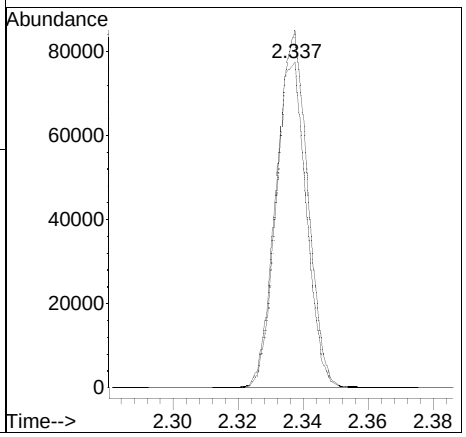


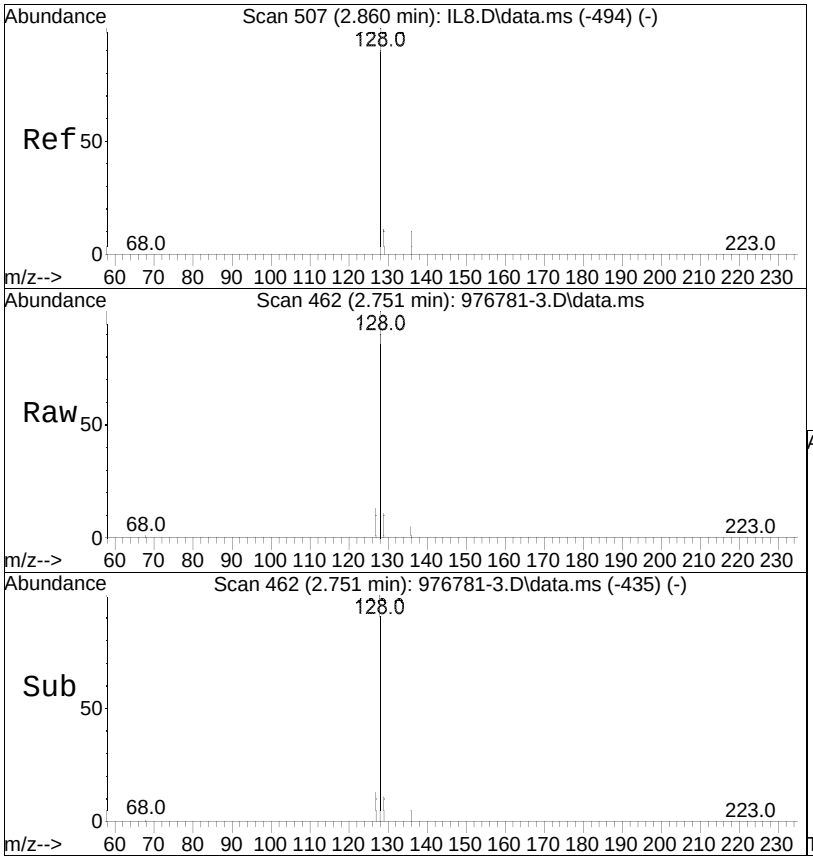


#6
Hexachloroethane
Concen: 1260.43 ng/ml
RT: 2.337 min Scan# 315
Delta R.T. -0.010 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:117 Resp: 50908

Ion	Ratio	Lower	Upper
117	100		
201	107.0	86.2	129.2

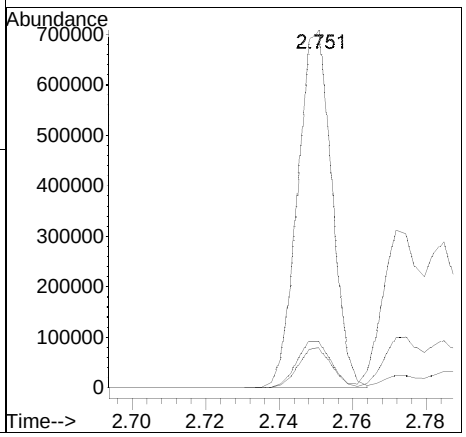


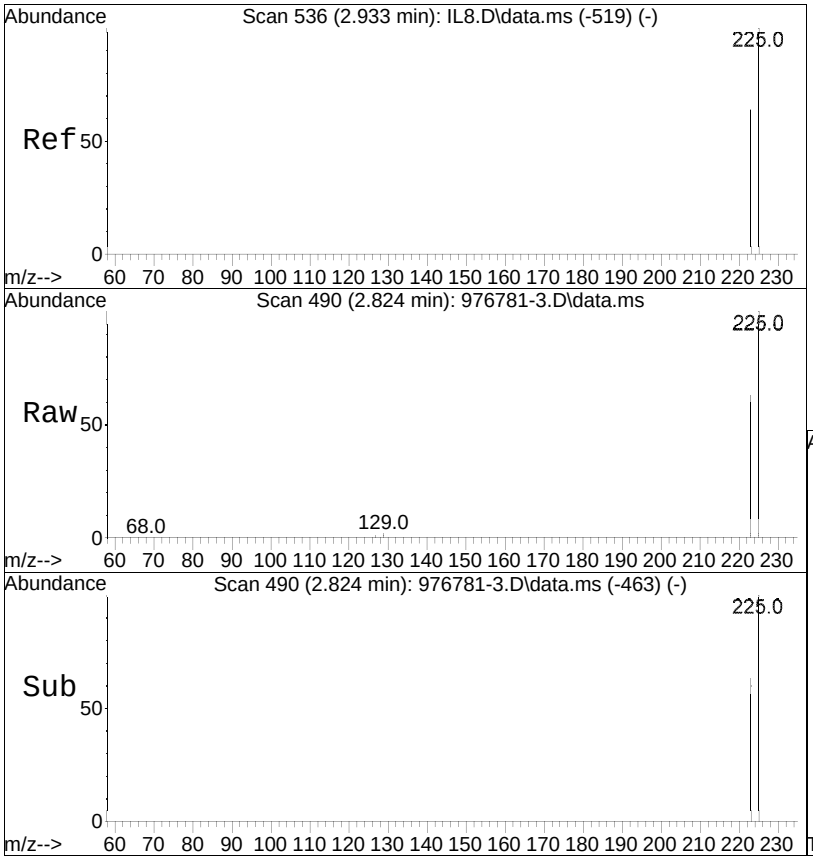


#9
Naphthalene
Concen: 1476.19 ng/ml
RT: 2.751 min Scan# 462
Delta R.T. -0.009 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:128 Resp: 454332

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.5	10.6	16.0

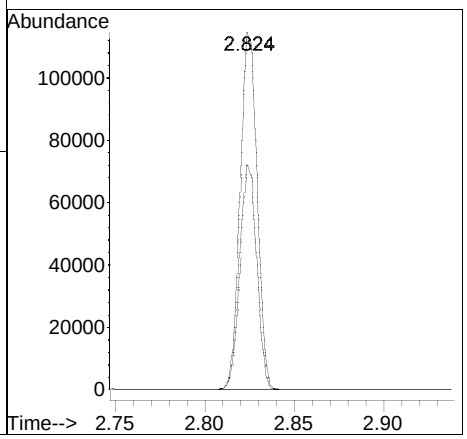


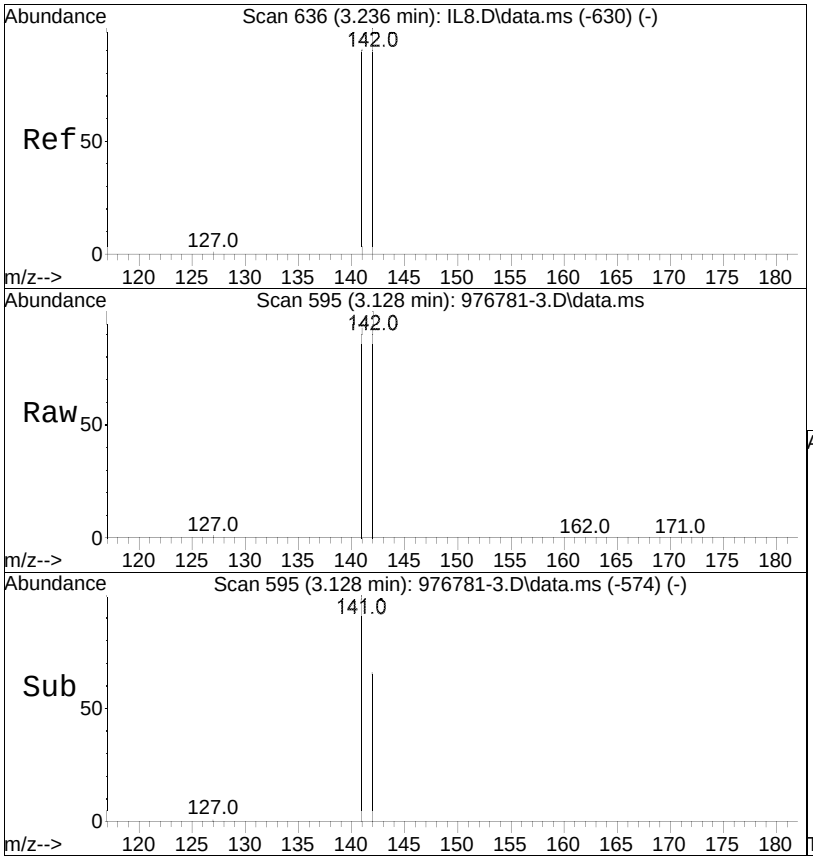


#10
Hexachlorobutadiene
Concen: 1255.00 ng/ml
RT: 2.824 min Scan# 490
Delta R.T. -0.009 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:225 Resp: 73935

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.3	75.5

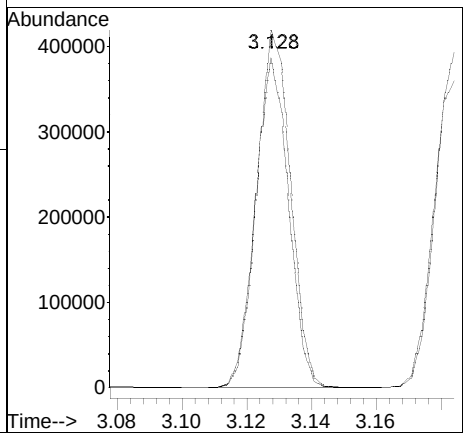


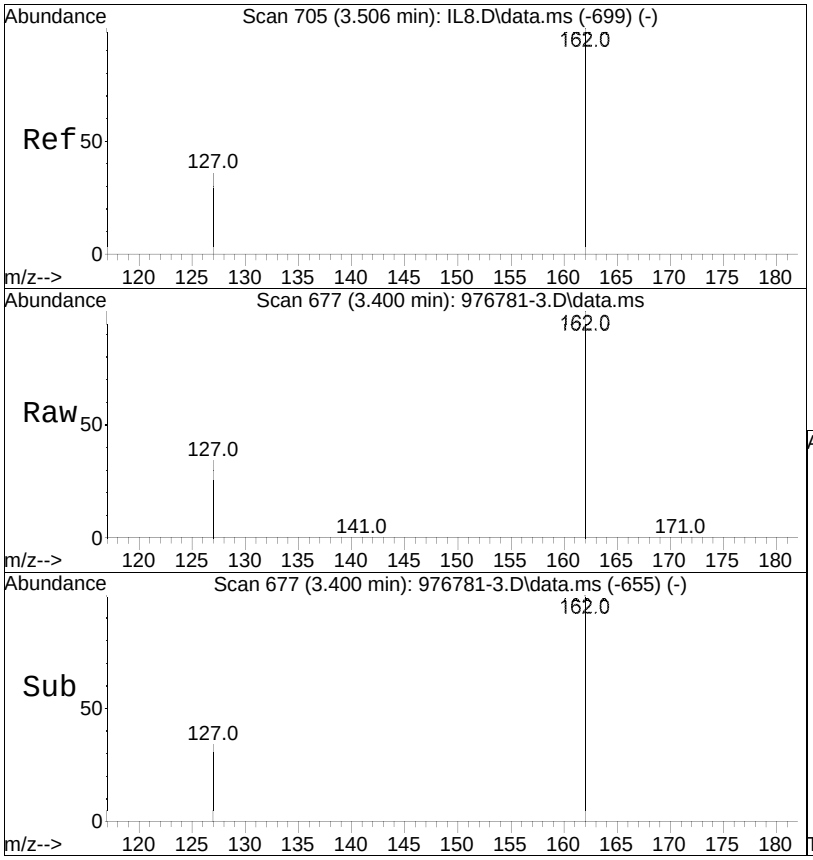


#11
2-Methylnaphthalene
Concen: 1561.91 ng/ml
RT: 3.128 min Scan# 595
Delta R.T. -0.009 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:142 Resp: 302358

Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.3	109.9

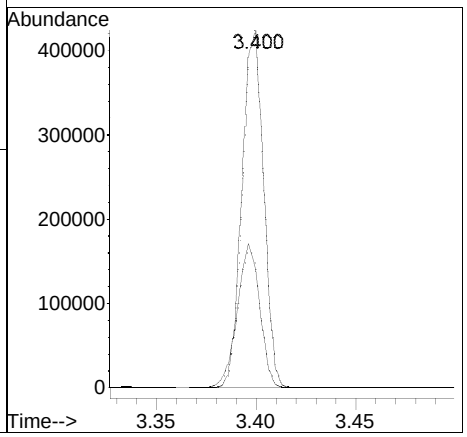


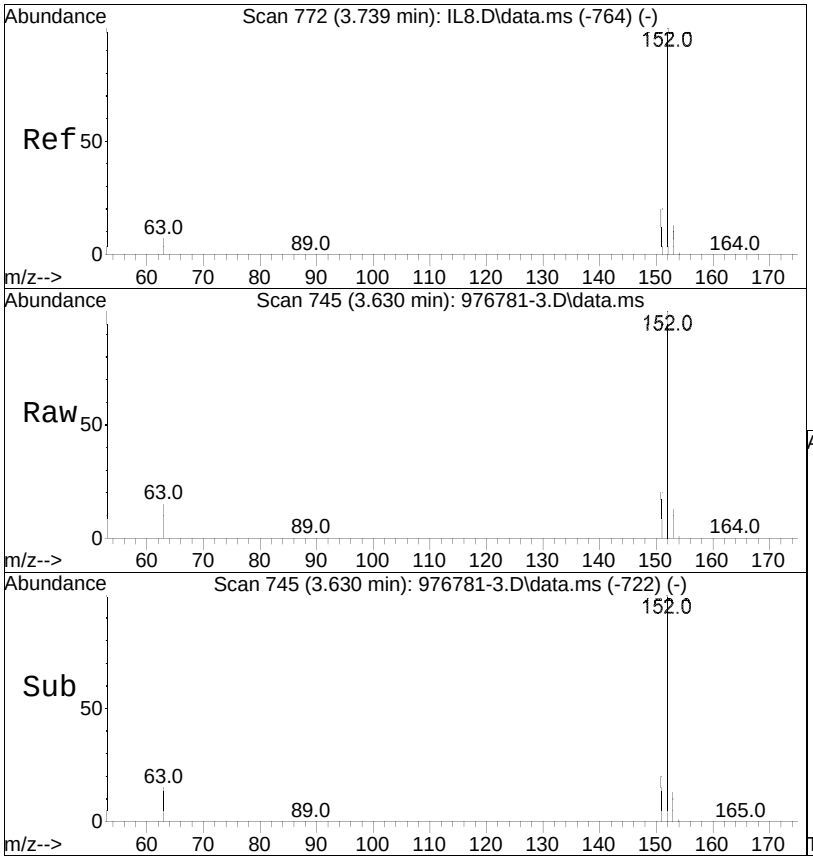


#14
2-Chloronaphthalene
Concen: 1551.38 ng/ml
RT: 3.400 min Scan# 677
Delta R.T. -0.006 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:162 Resp: 312952

Ion	Ratio	Lower	Upper
162	100		
127	42.2	30.1	45.1

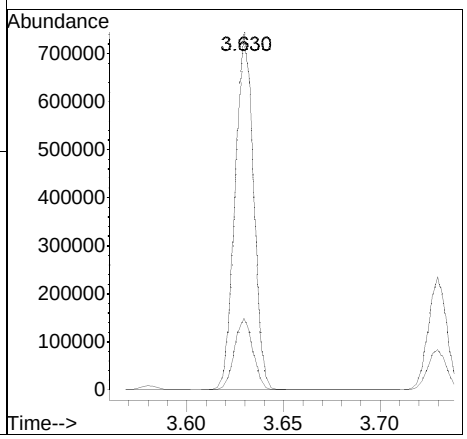


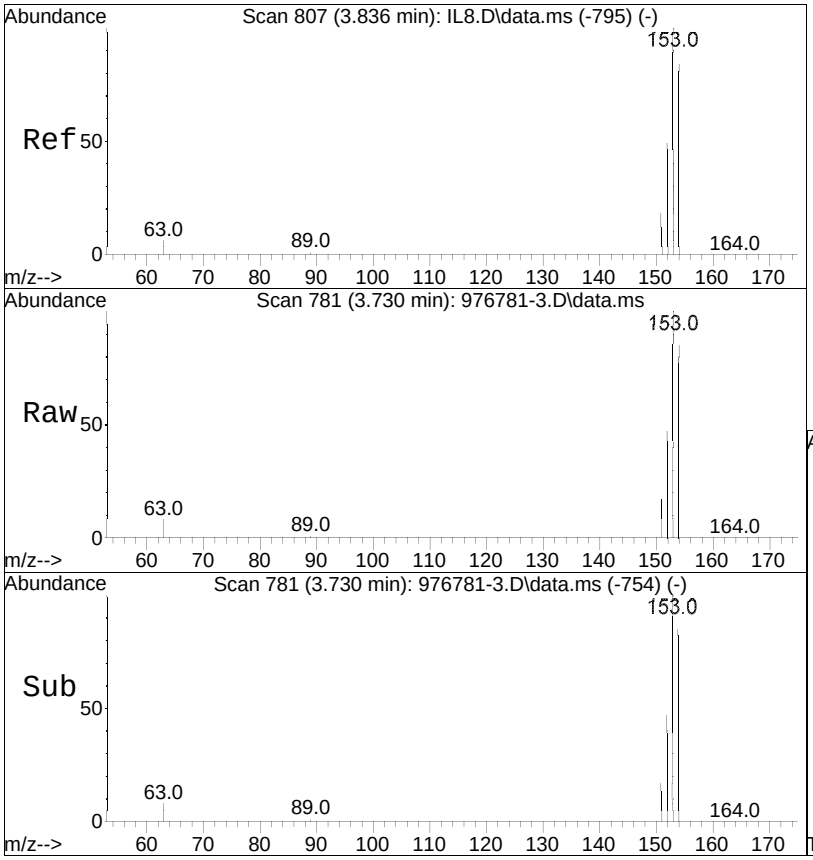


#16
Acenaphthylene
Concen: 1671.55 ng/ml
RT: 3.630 min Scan# 745
Delta R.T. -0.007 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:152 Resp: 490523

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2

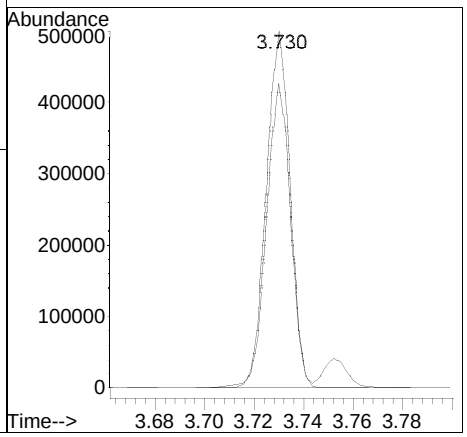


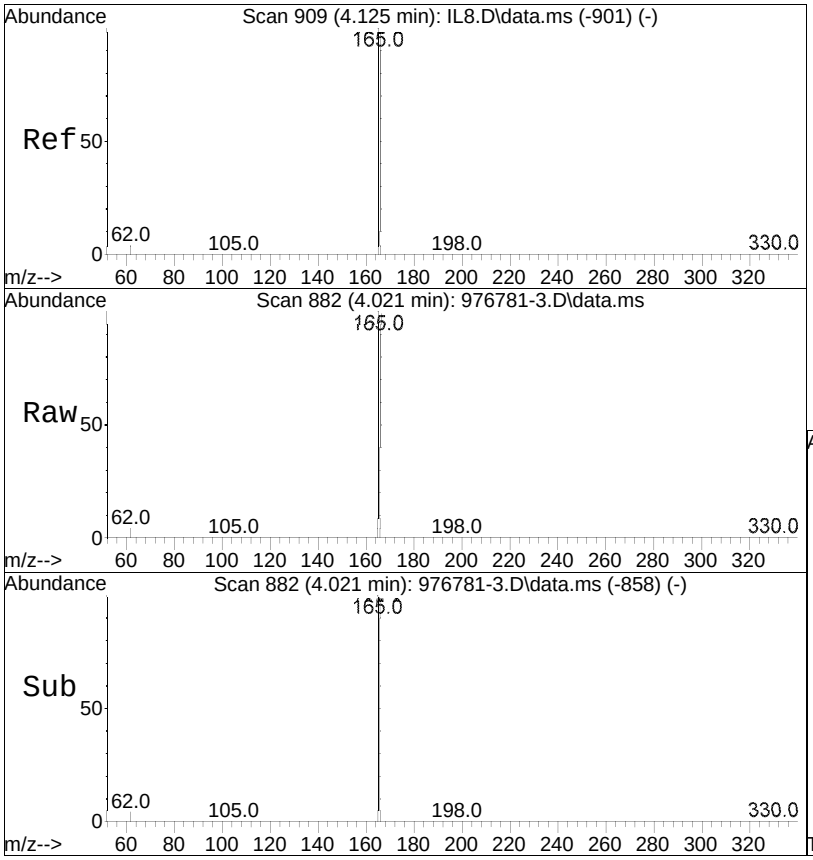


#18
Acenaphthene
Concen: 1648.30 ng/ml
RT: 3.730 min Scan# 781
Delta R.T. -0.004 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:153 Resp: 332341

Ion	Ratio	Lower	Upper
153	100		
154	86.1	69.1	103.7

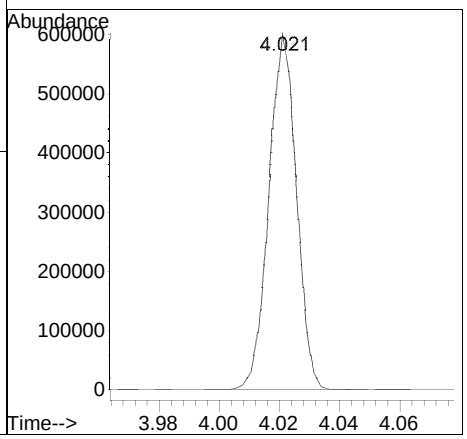


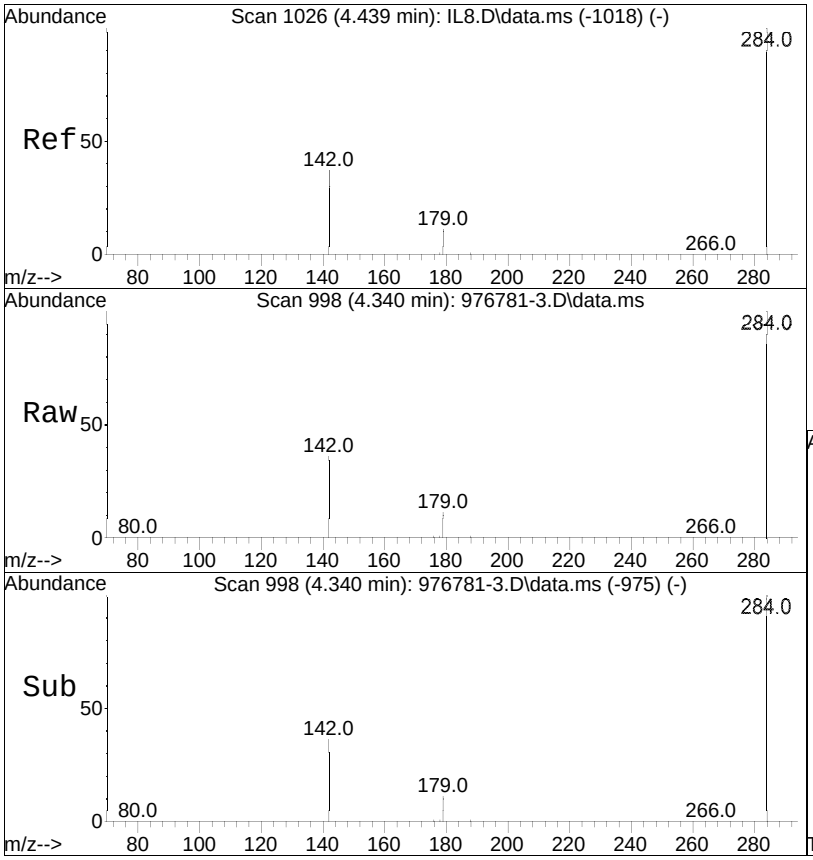


#20
Fluorene
Concen: 1710.71 ng/ml
RT: 4.021 min Scan# 882
Delta R.T. -0.004 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:166 Resp: 380974

Ion	Ratio	Lower	Upper
166	100		
165	100.6	81.4	122.2

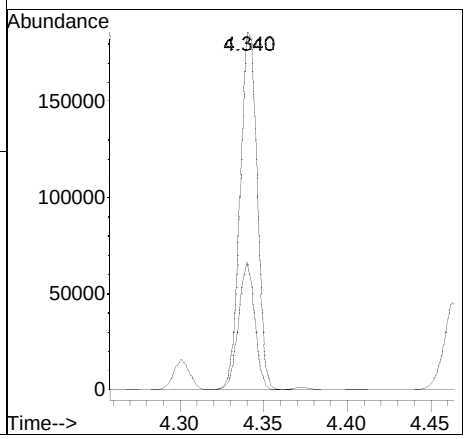


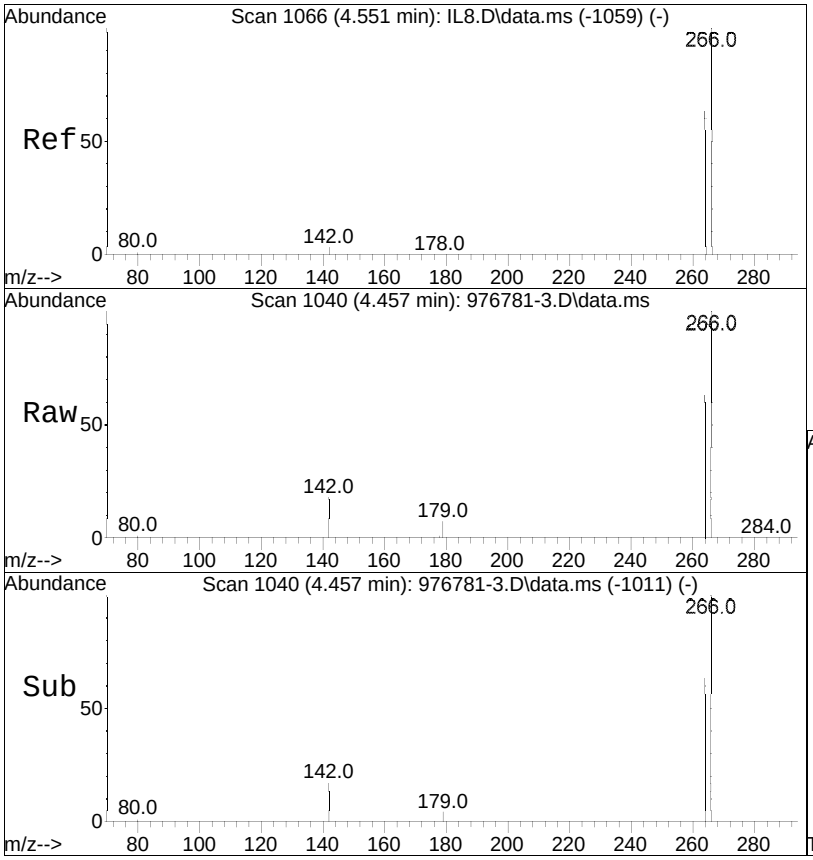


#24
Hexachlorobenzene
Concen: 1756.79 ng/ml
RT: 4.340 min Scan# 998
Delta R.T. -0.002 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:284 Resp: 130533

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.6	40.0

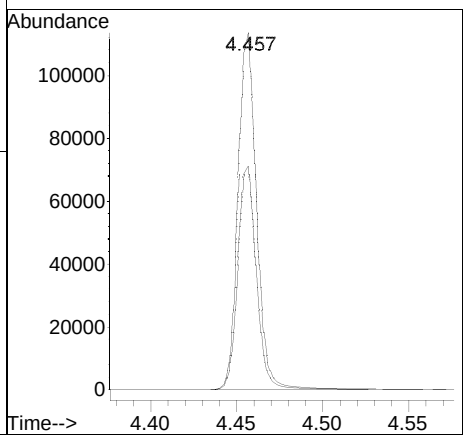


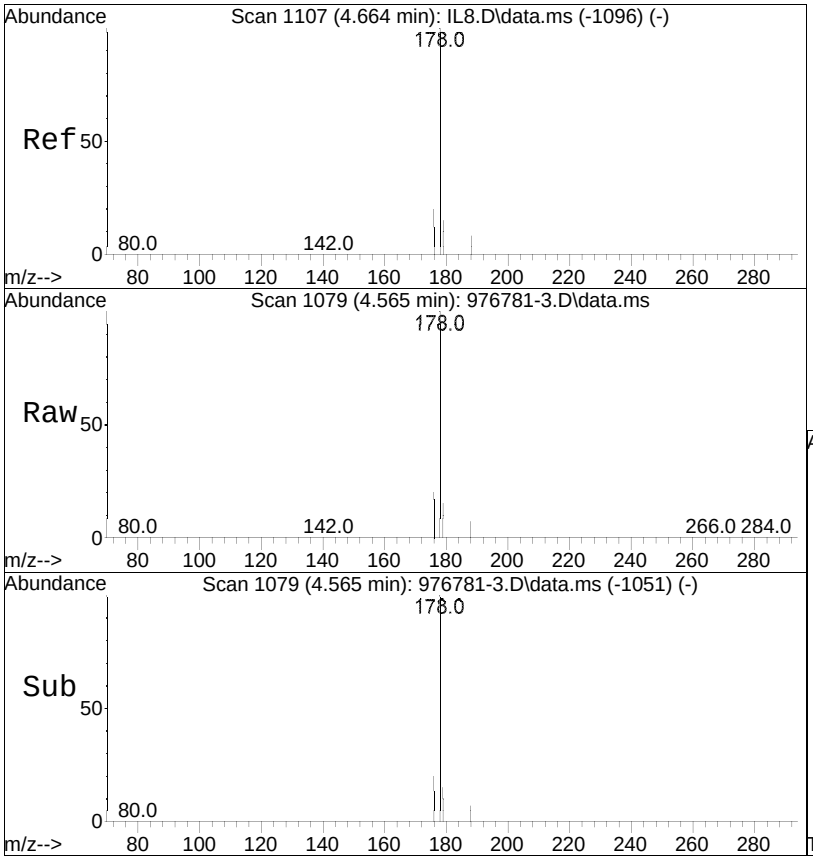


#25
Pentachlorophenol
Concen: 1990.77 ng/ml
RT: 4.457 min Scan# 1040
Delta R.T. 0.001 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:266 Resp: 84312

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.2	75.4

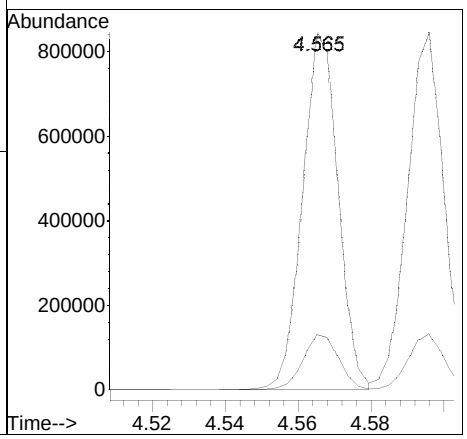


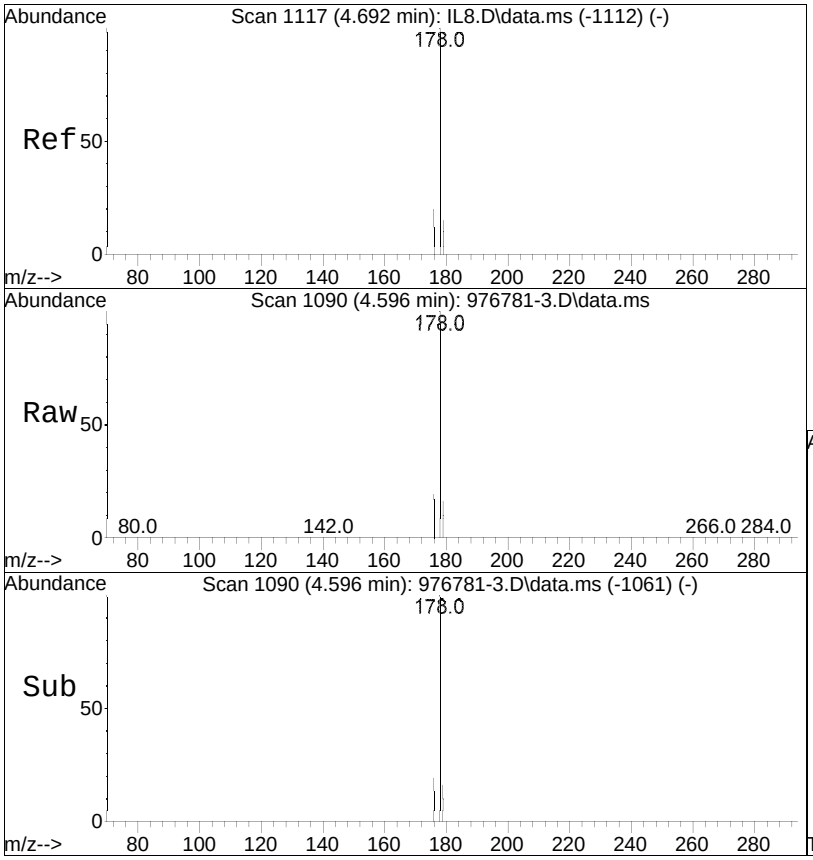


#26
Phenanthrene
Concen: 1757.68 ng/ml
RT: 4.565 min Scan# 1079
Delta R.T. -0.002 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:178 Resp: 571870

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

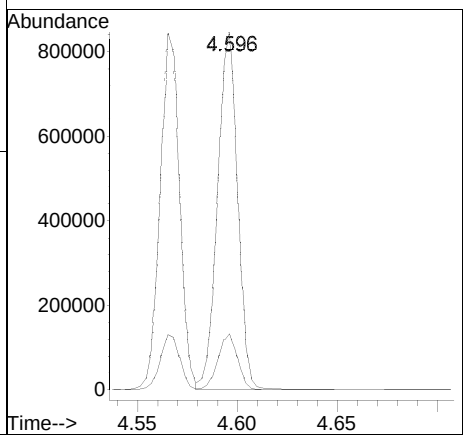


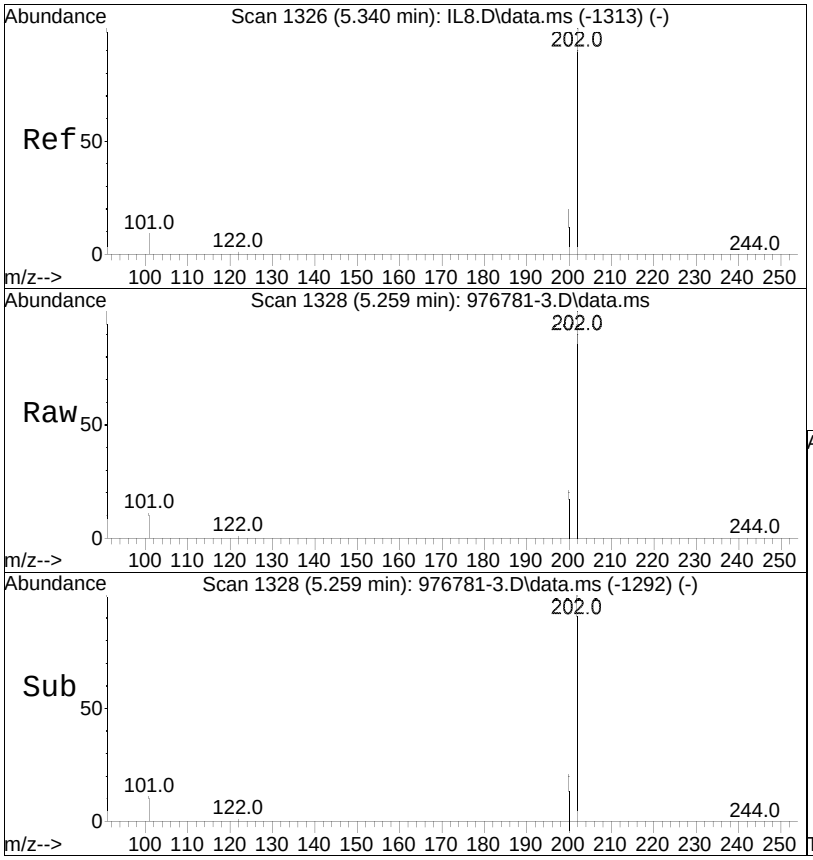


#27
Anthracene
Concen: 1844.30 ng/ml
RT: 4.596 min Scan# 1090
Delta R.T. 0.001 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:178 Resp: 588729

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

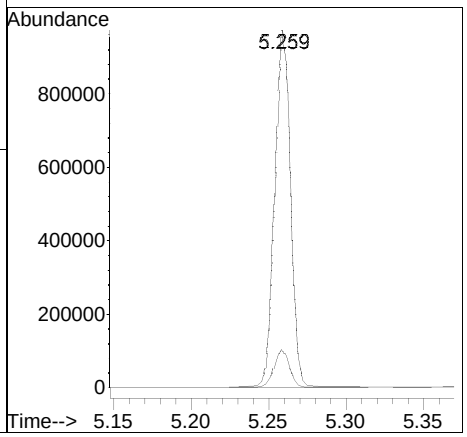


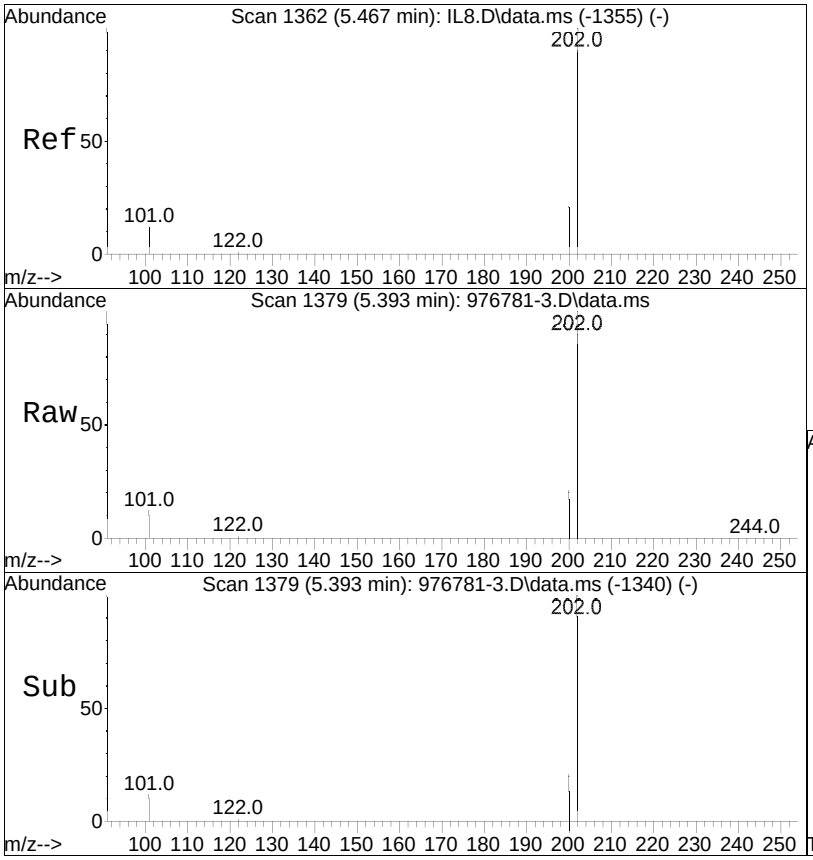


#28
Fluoranthene
Concen: 1790.29 ng/ml
RT: 5.259 min Scan# 1328
Delta R.T. 0.015 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:202 Resp: 674519

Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.3	12.5

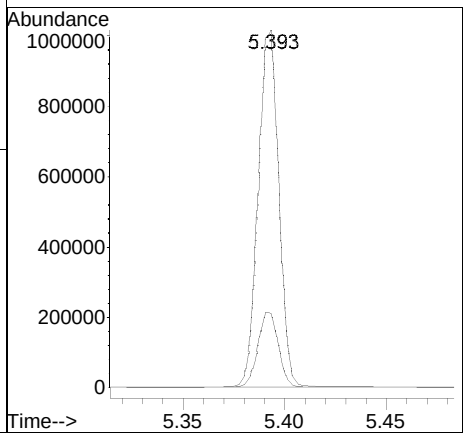


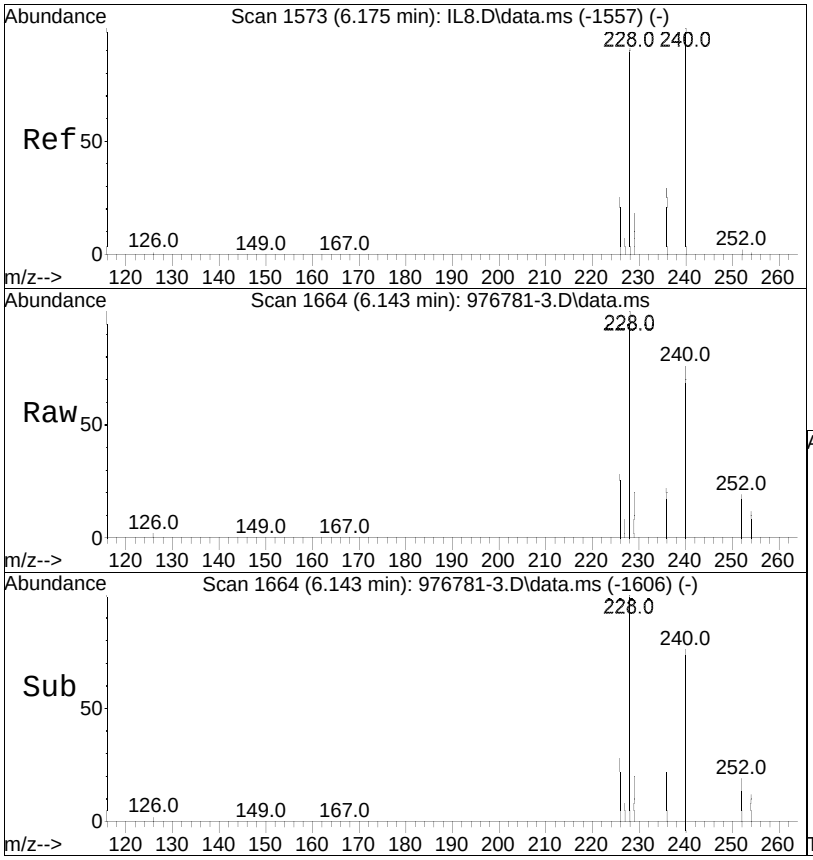


#29
Pyrene
Concen: 1768.02 ng/ml
RT: 5.393 min Scan# 1379
Delta R.T. 0.022 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:202 Resp: 704413

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3

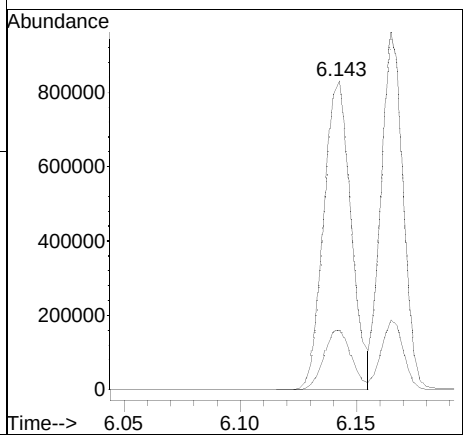


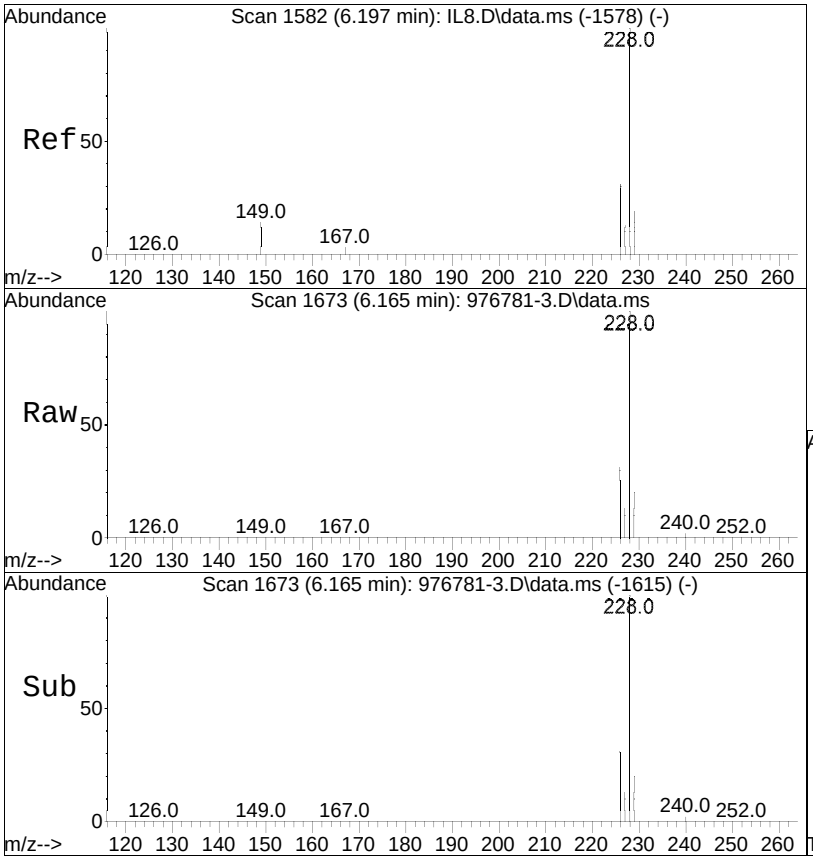


#32
Benzo[a]anthracene
Concen: 1970.65 ng/ml
RT: 6.143 min Scan# 1664
Delta R.T. 0.063 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:228 Resp: 680570

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

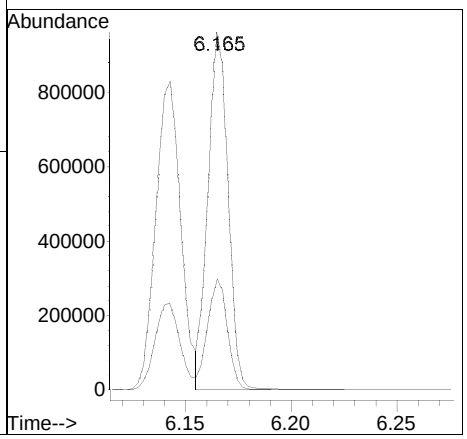


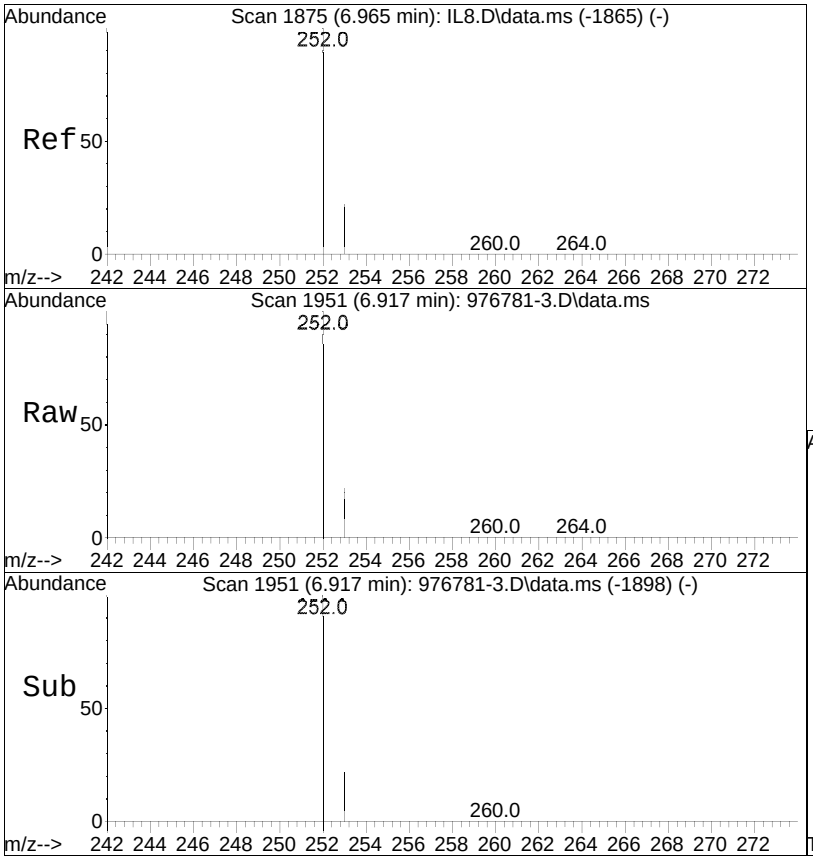


#34
Chrysene
Concen: 1930.30 ng/ml
RT: 6.165 min Scan# 1673
Delta R.T. 0.063 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:228 Resp: 631937

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	36.8

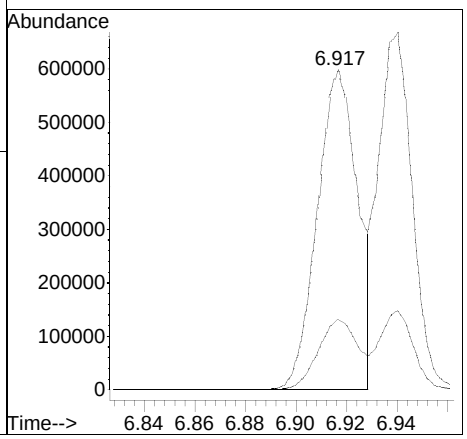


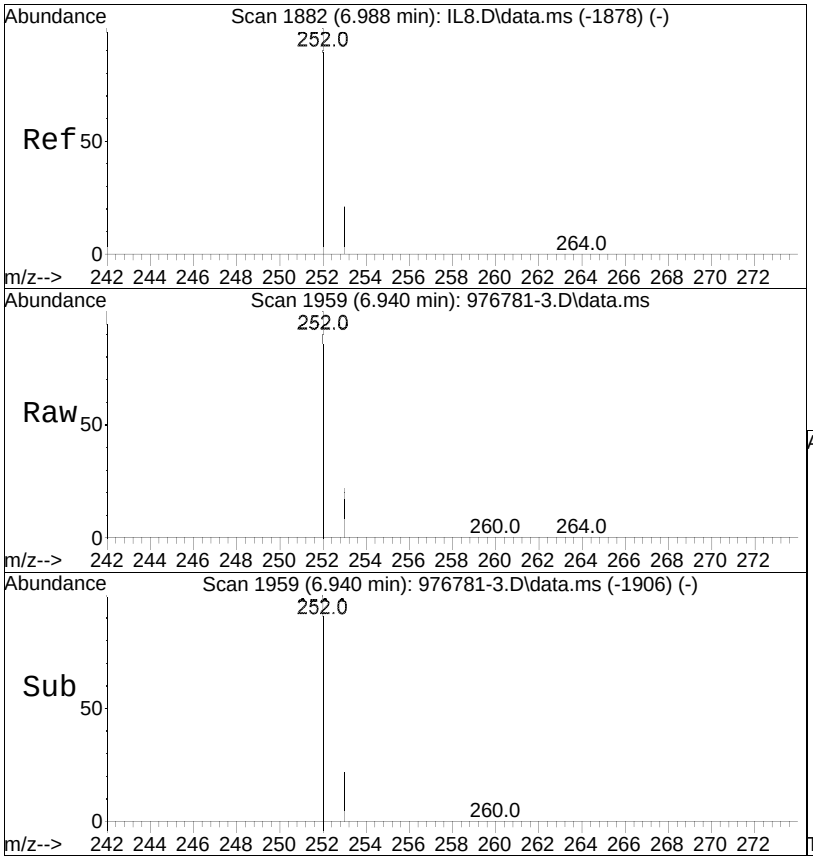


#37
Benzo[b]fluoranthene
Concen: 2091.12 ng/ml
RT: 6.917 min Scan# 1951
Delta R.T. 0.077 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:252 Resp: 669763

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

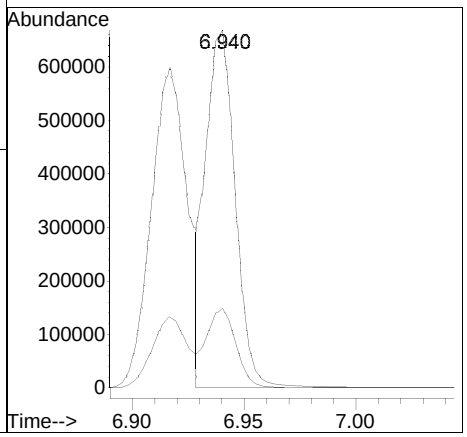


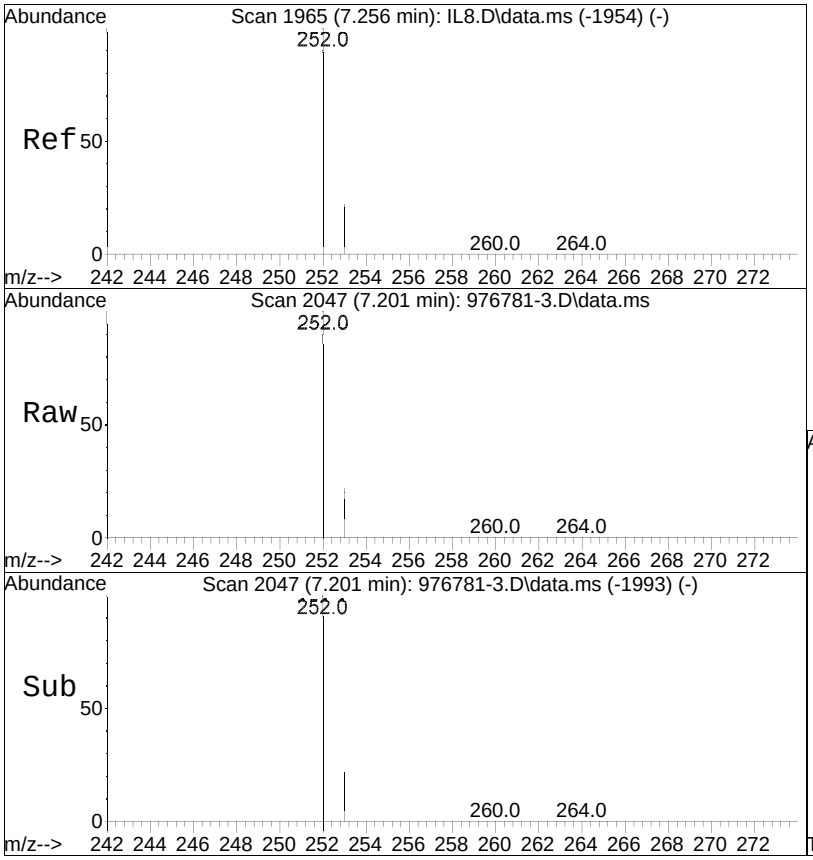


#38
Benzo[k]fluoranthene
Concen: 1934.40 ng/ml
RT: 6.940 min Scan# 1959
Delta R.T. 0.077 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:252 Resp: 607878

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3

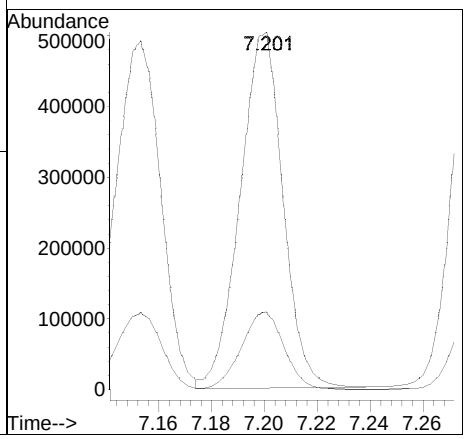


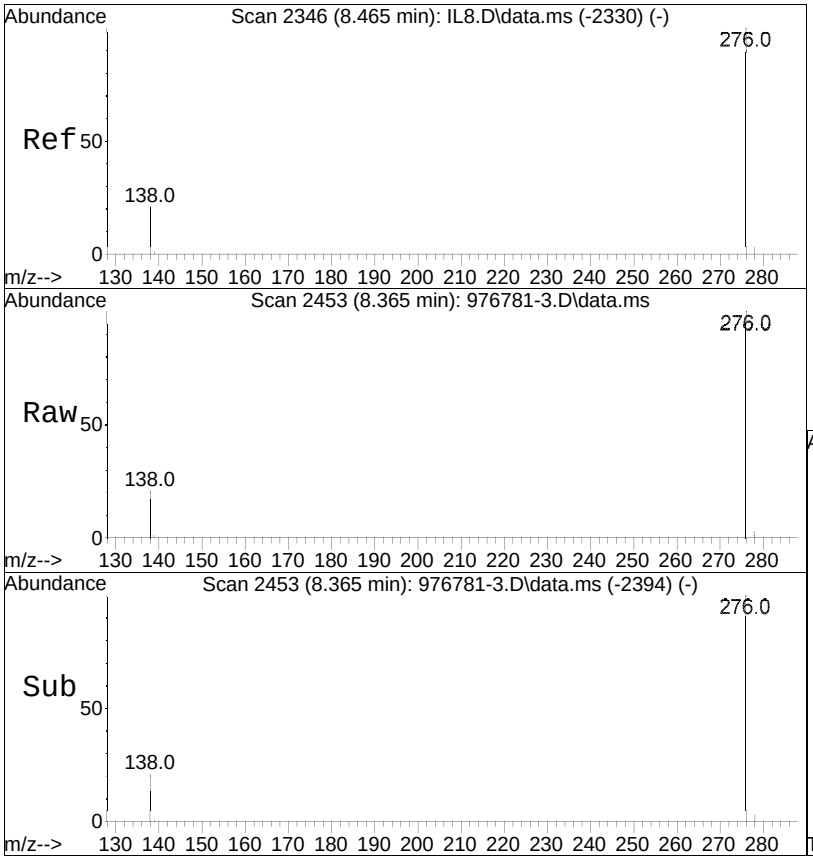


#39
Benzo[a]pyrene
Concen: 2052.31 ng/ml
RT: 7.201 min Scan# 2047
Delta R.T. 0.080 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:252 Resp: 562749

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

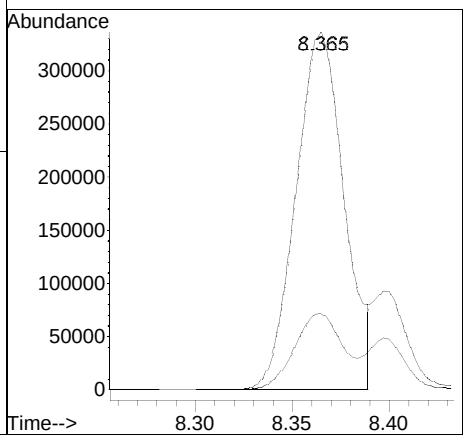


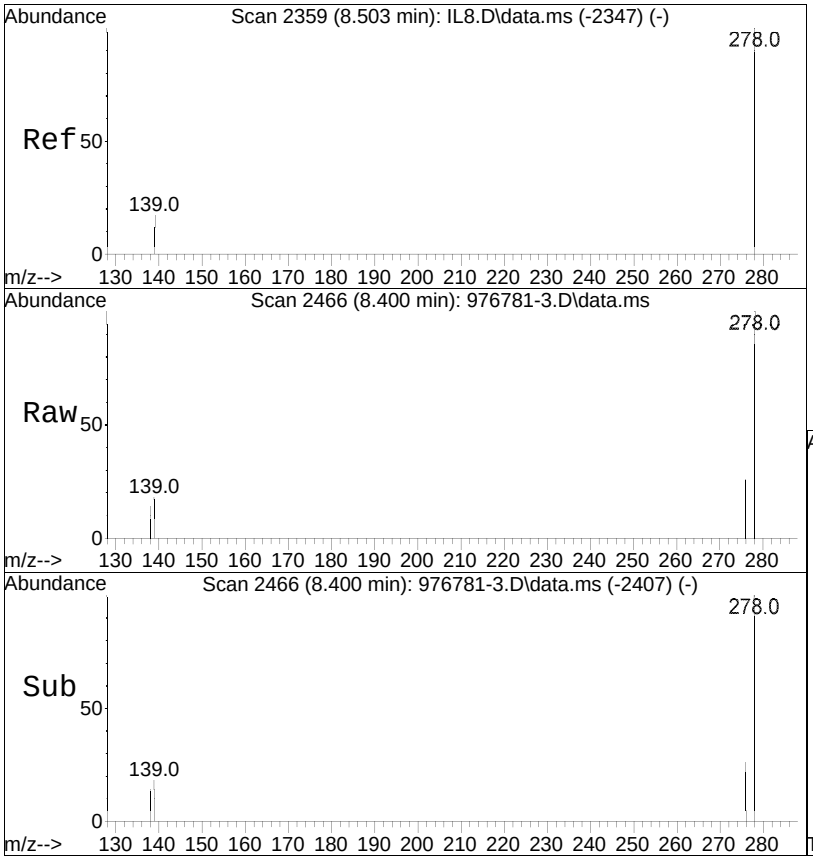


#40
Indeno[1,2,3-cd]pyrene
Concen: 2141.03 ng/ml
RT: 8.365 min Scan# 2453
Delta R.T. 0.078 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:276 Resp: 577264

Ion	Ratio	Lower	Upper
276	100		
138	21.4	16.5	24.7

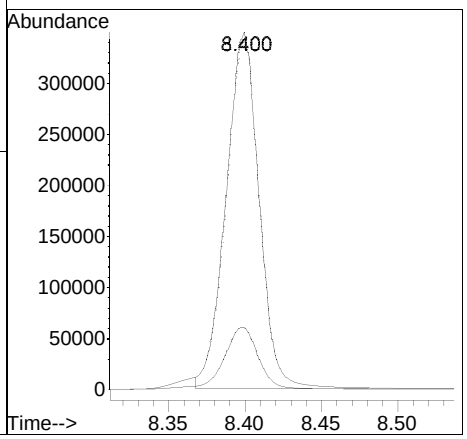


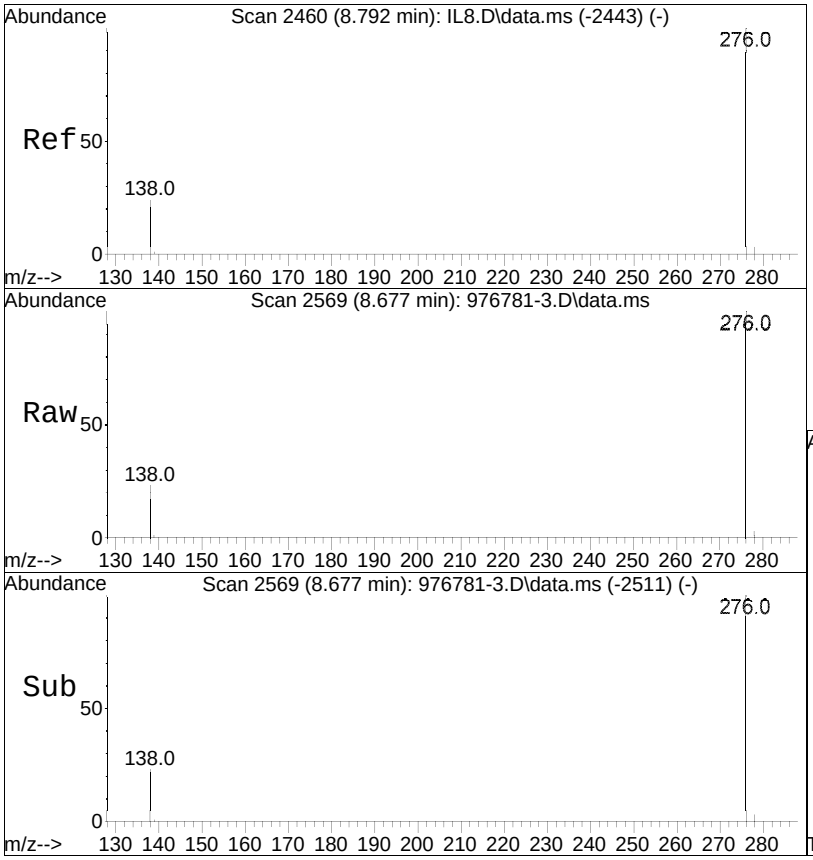


#41
Dibenzo[a,h]anthracene
Concen: 2053.02 ng/ml M6
RT: 8.400 min Scan# 2466
Delta R.T. 0.078 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:278 Resp: 523047

Ion	Ratio	Lower	Upper
278	100		
139	18.2	14.5	21.7

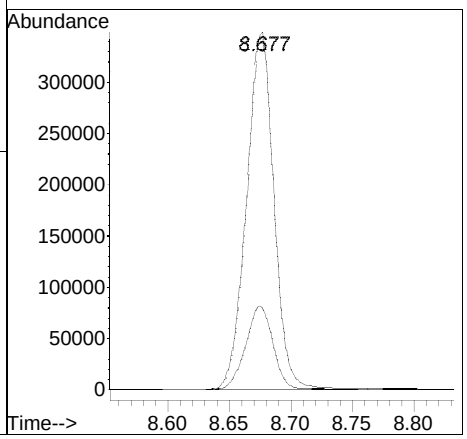




#42
Benzo[g,h,i]perylene
Concen: 1945.69 ng/ml
RT: 8.677 min Scan# 2569
Delta R.T. 0.075 min
Lab File: 976781-3.D
Acq: 27 Sep 2024 09:59 am

Tgt Ion:276 Resp: 532259

Ion	Ratio	Lower	Upper
276	100		
138	23.6	18.6	27.8

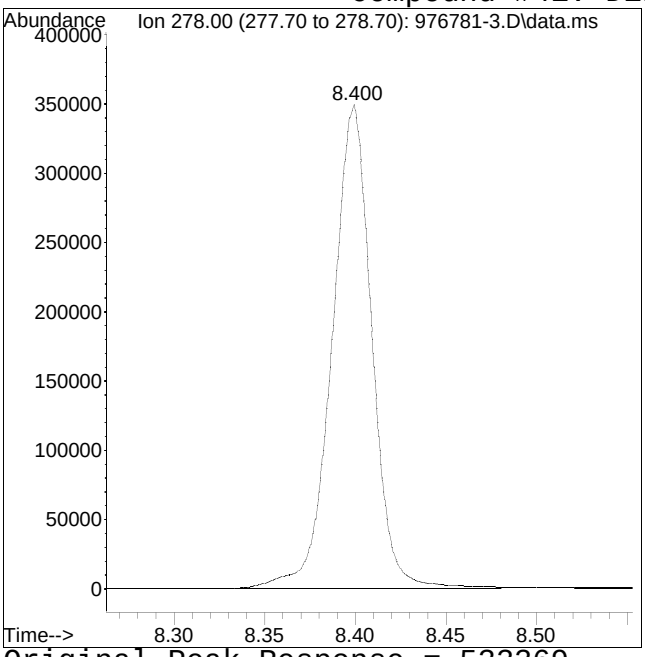


Manual Integration Report

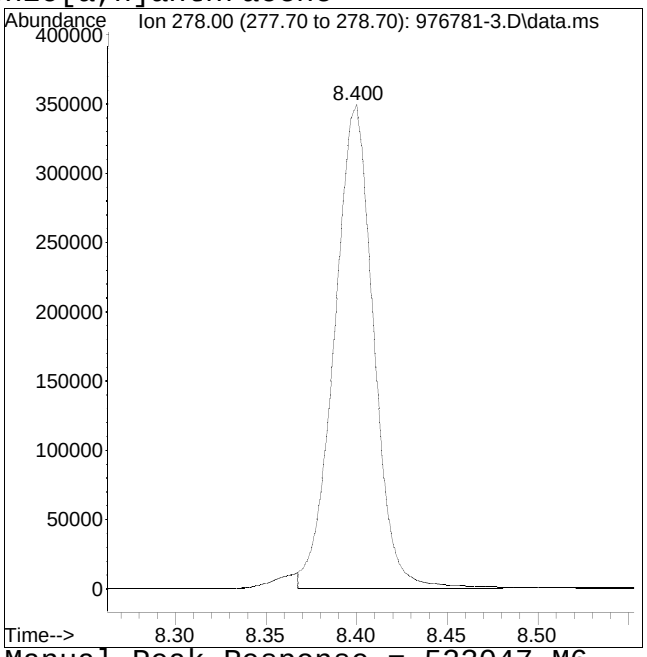
Data Path : I:\8270SIM\sv120\240927RVTQ
Data File : 976781-3.D
Date Inj'd : 9/27/2024 9:59 am
Sample : WG1976781-3,32,,kmh

Method : SIM-RVT_240925_sv120.M
Operator : SV120:rp
Instrument : SV120
Quant Date : 9/27/2024 10:12 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 533369



Manual Peak Response = 523047 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-4.D
Acq On : 27 Sep 2024 12:43 pm
Operator : SV120:dv
Sample : WG1976781-4,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 27 14:18:28 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	321470	4000.000	ng/ml	0.00
Standard Area 1 = 396038			Recovery = 81.17%			
8) Naphthalene-d8	2.750	136	1211781	4000.000	ng/ml	0.00
Standard Area 1 = 1485677			Recovery = 81.56%			
17) Acenaphthene-d10	3.720	164	676899	4000.000	ng/ml	0.00
Standard Area 1 = 844424			Recovery = 80.16%			
22) Phenanthrene-d10	4.555	188	1316647	4000.000	ng/ml	0.00
Standard Area 1 = 1642445			Recovery = 80.16%			
31) Chrysene-d12	6.087	240	1158306	4000.000	ng/ml	0.00
Standard Area 1 = 1466707			Recovery = 78.97%			
36) Perylene-d12	7.186	264	1144674	4000.000	ng/ml	0.00
Standard Area 1 = 1469555			Recovery = 77.89%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.542	112	62805	706.607	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.33%			
3) Phenol-d6	1.920	99	85580	820.273	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.01%			
7) Nitrobenzene-d5	2.373	82	82107	931.014	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 93.10%			
13) 2-Fluorobiphenyl	3.348	172	194513	845.484	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.55%			
21) 2,4,6-Tribromophenol	4.165	330	38508	1271.857	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 63.59%			
30) 4-Terphenyl-d14	5.471	244	213188	924.528	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 46.23%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	156089	1706.717	ng/ml	99
5) n-nitrosodi-n-propylamine	2.295	70	122545	1980.601	ng/ml	100
6) Hexachloroethane	2.345	117	52083	1323.270	ng/ml	99
9) Naphthalene	2.761	128	470086	1556.251	ng/ml	100
10) Hexachlorobutadiene	2.836	225	75411	1304.255	ng/ml	100
11) 2-Methylnaphthalene	3.138	142	317111	1669.087	ng/ml	100
12) 1-Methylnaphthalene	3.192	142	296629	1618.324	ng/ml	100
14) 2-Chloronaphthalene	3.407	162	327350	1653.432	ng/ml	92
15) 2,6-Dinitrotoluene	3.606	165	90897	1830.223	ng/ml	99
16) Acenaphthylene	3.640	152	518838	1801.470	ng/ml	99
18) Acenaphthene	3.737	153	350464	1732.778	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-4.D
Acq On : 27 Sep 2024 12:43 pm
Operator : SV120:dv
Sample : WG1976781-4,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 27 14:18:28 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.834	165	121169	1826.698	ng/ml	99
20) Fluorene	4.027	166	412780	1847.769	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.064	198	18266	496.594	ng/ml	95
24) Hexachlorobenzene	4.344	284	141476	1868.994	ng/ml	98
25) Pentachlorophenol	4.458	266	22782	673.944	ng/ml	98
26) Phenanthrene	4.569	178	623165	1880.056	ng/ml	100
27) Anthracene	4.597	178	631161	1940.812	ng/ml	100
28) Fluoranthene	5.246	202	750215	1954.530	ng/ml	100
29) Pyrene	5.373	202	776186	1912.283	ng/ml	100
32) Benzo[a]anthracene	6.082	228	729276	2107.097	ng/ml	100
33) 3,3'-Dichlorobenzene	6.075	252	162257	1309.905	ng/ml	100
34) Chrysene	6.102	228	676900	2062.477	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.119	149	494826	2339.657	ng/ml	100
37) Benzo[b]fluoranthene	6.845	252	679511	2149.902	ng/ml	96
38) Benzo[k]fluoranthene	6.866	252	679408	2190.910	ng/ml	97
39) Benzo[a]pyrene	7.126	252	593576	2193.664	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.295	276	607326	2282.624	ng/ml	98
41) Dibenzo[a,h]anthracene	8.327	278	546985M6	2175.667	ng/ml	
42) Benzo[g,h,i]perylene	8.610	276	560330	2075.678	ng/ml	99

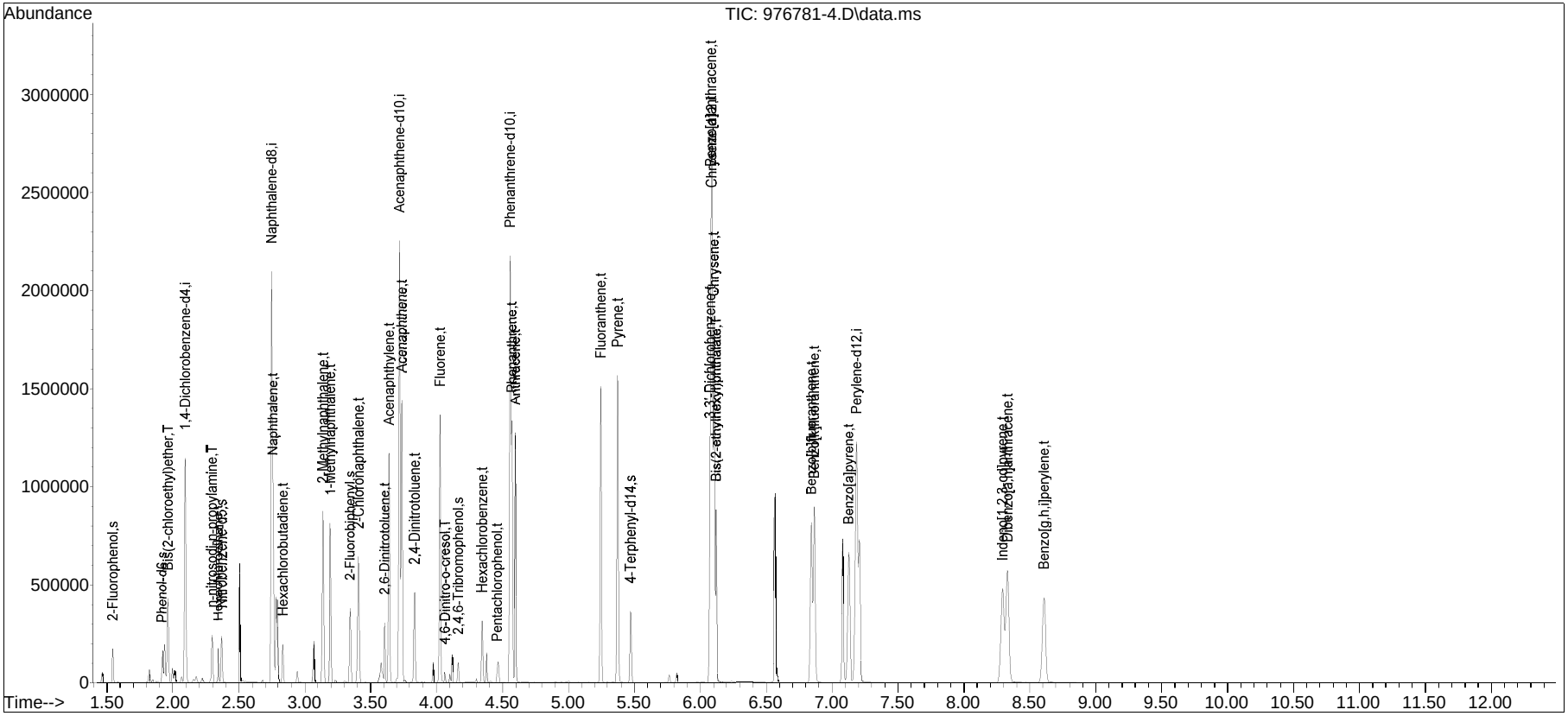
(#) = qualifier out of range (m) = manual integration (+) = signals summed

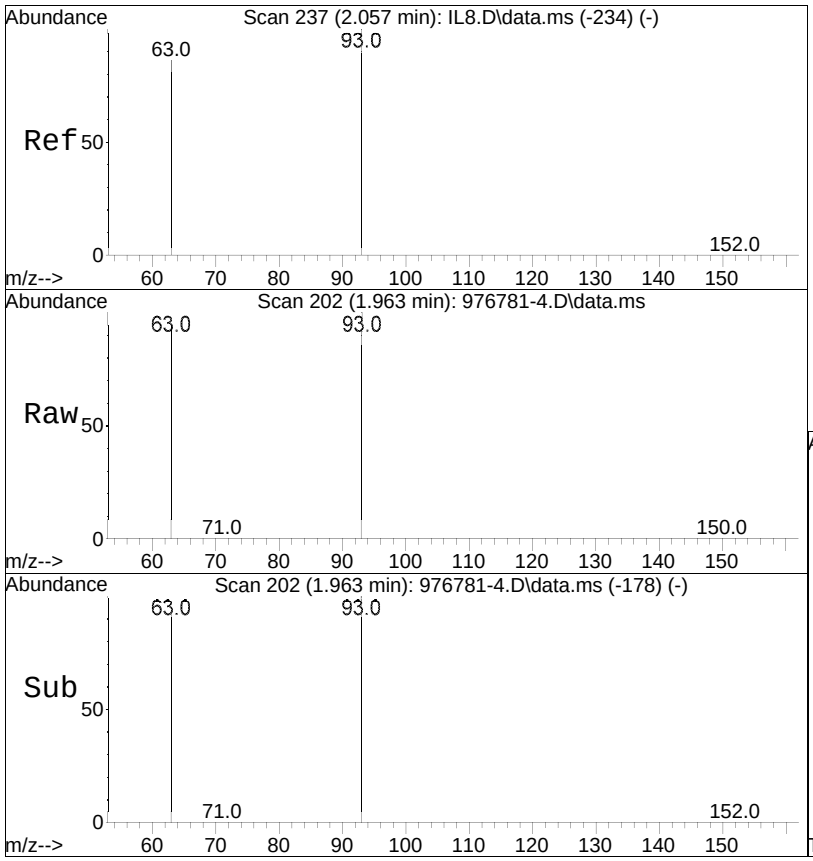
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-4.D
Acq On : 27 Sep 2024 12:43 pm
Operator : SV120:dv
Sample : WG1976781-4,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 27 14:18:28 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0927.D•

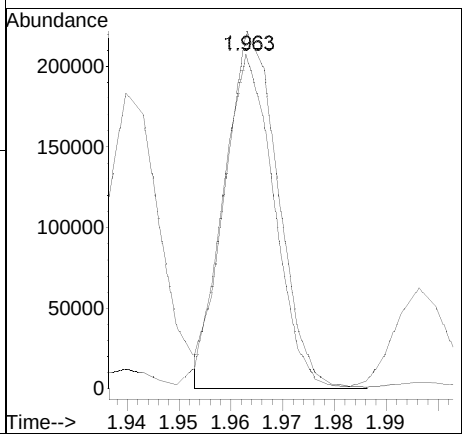


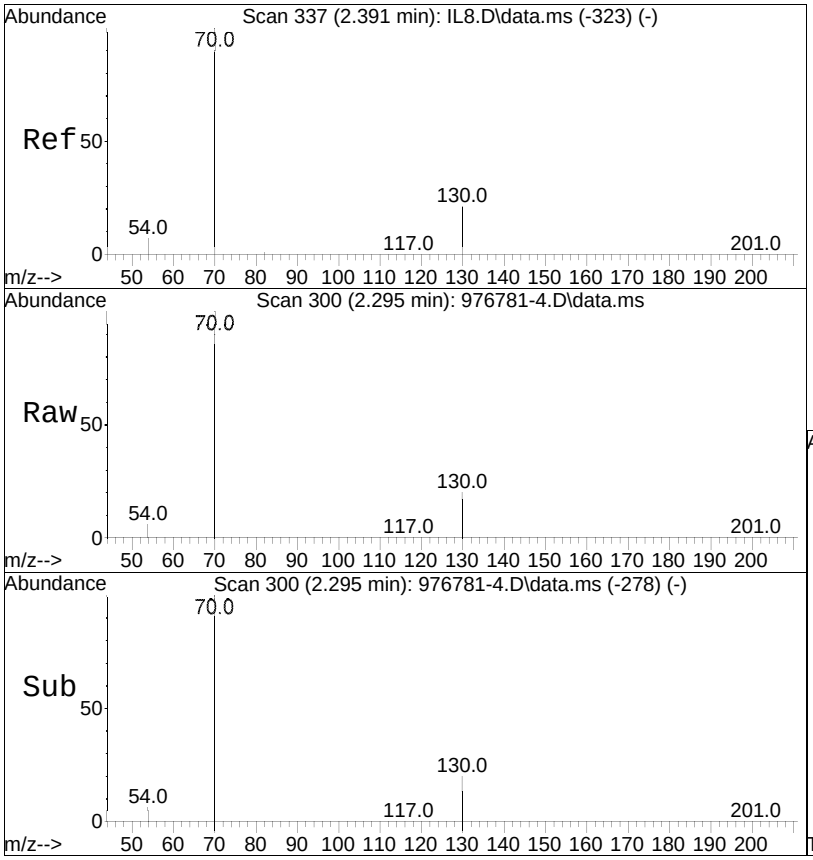


#4
Bis(2-chloroethyl)ether
Concen: 1706.72 ng/ml
RT: 1.963 min Scan# 202
Delta R.T. -0.001 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion: 93 Resp: 156089

Ion	Ratio	Lower	Upper
93	100		
63	91.9	73.0	109.4

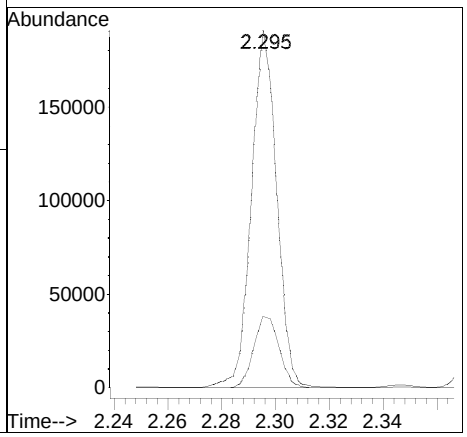


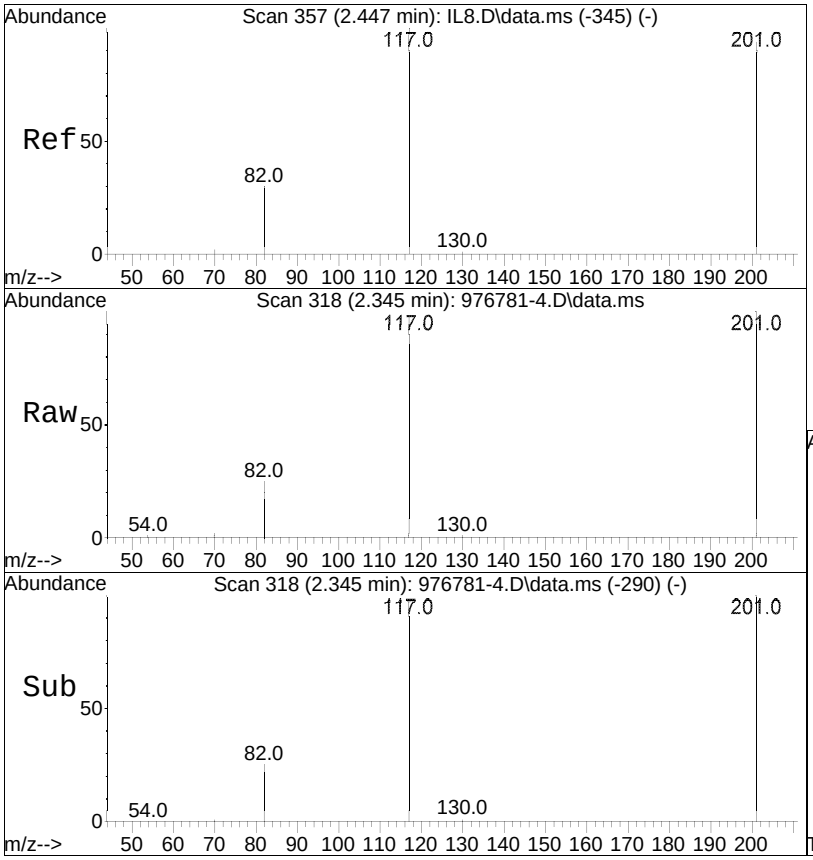


#5
n-nitrosodi-n-propylamine
Concen: 1980.60 ng/ml
RT: 2.295 min Scan# 300
Delta R.T. 0.001 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion: 70 Resp: 122545

Ion	Ratio	Lower	Upper
70	100		
130	20.4	16.4	24.6

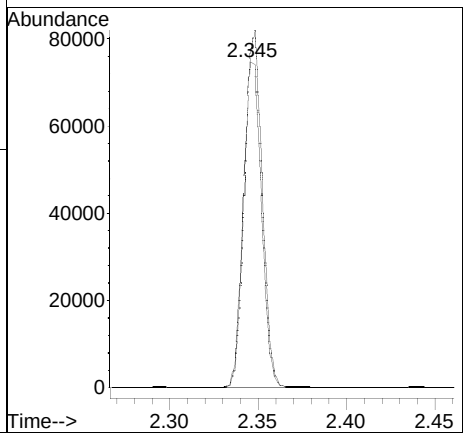


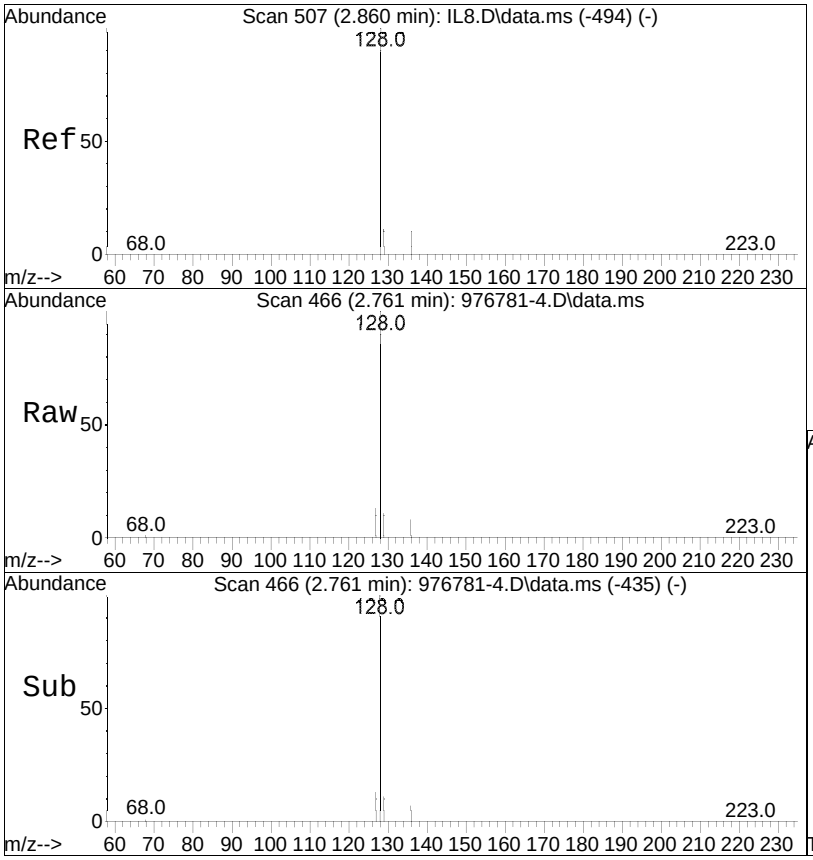


#6
Hexachloroethane
Concen: 1323.27 ng/ml
RT: 2.345 min Scan# 318
Delta R.T. -0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:117 Resp: 52083

Ion	Ratio	Lower	Upper
117	100		
201	107.0	86.2	129.2

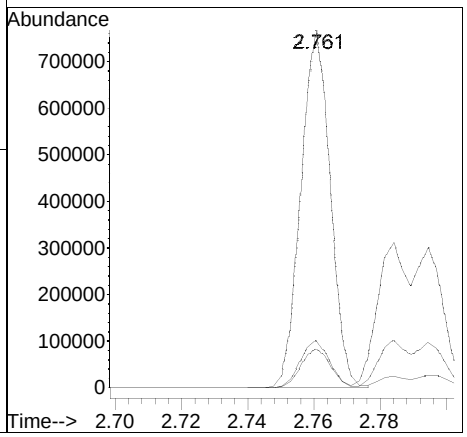


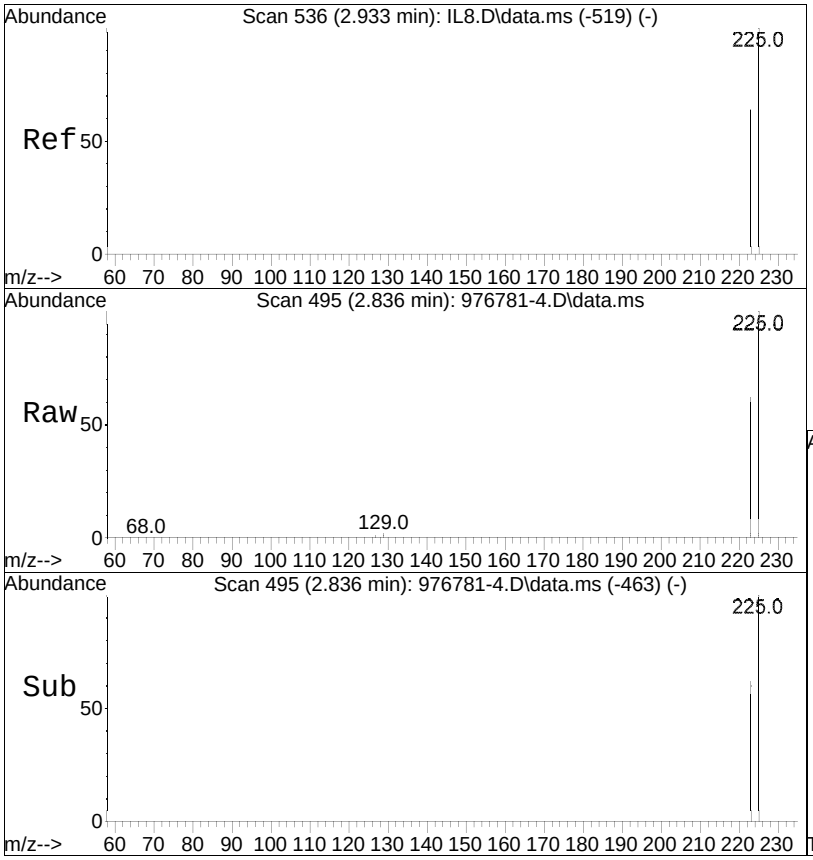


#9
Naphthalene
Concen: 1556.25 ng/ml
RT: 2.761 min Scan# 466
Delta R.T. 0.001 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:128 Resp: 470086

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.3	10.6	16.0

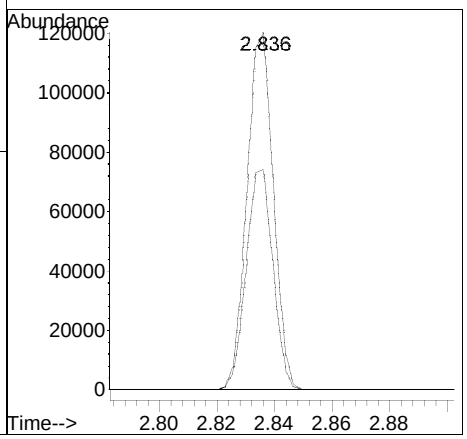


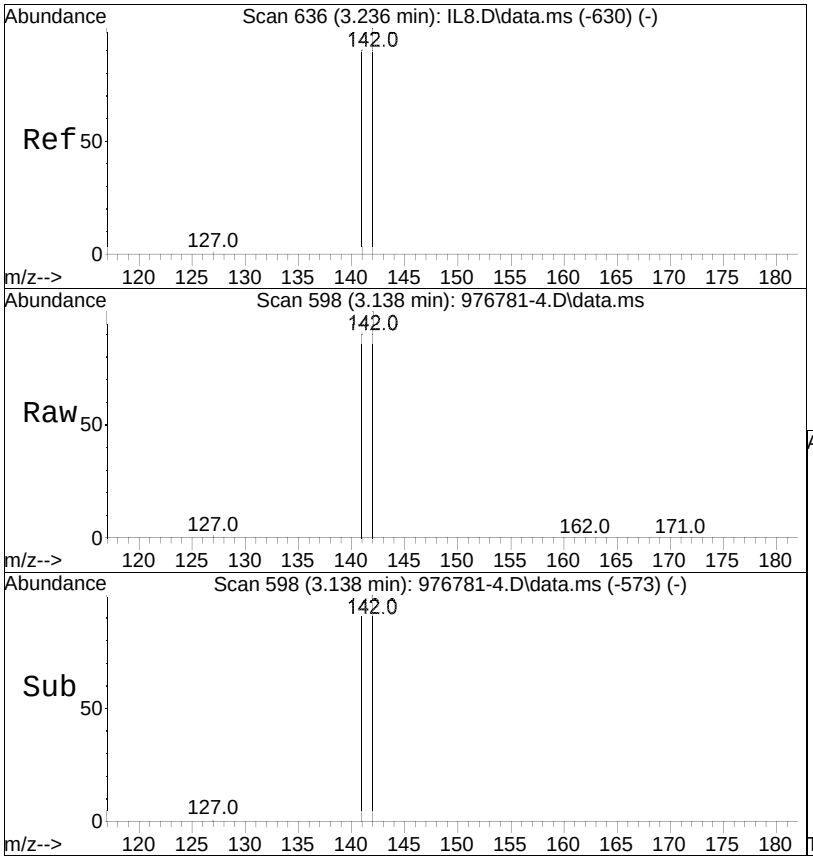


#10
Hexachlorobutadiene
Concen: 1304.25 ng/ml
RT: 2.836 min Scan# 495
Delta R.T. 0.003 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:225 Resp: 75411

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5

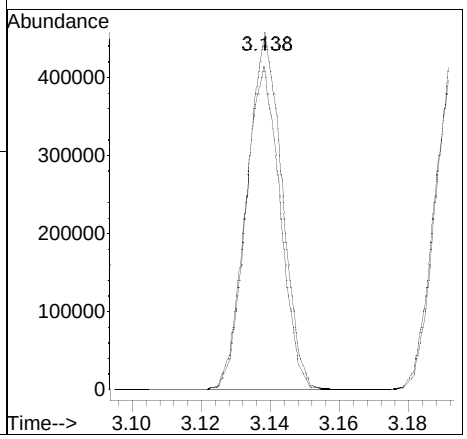


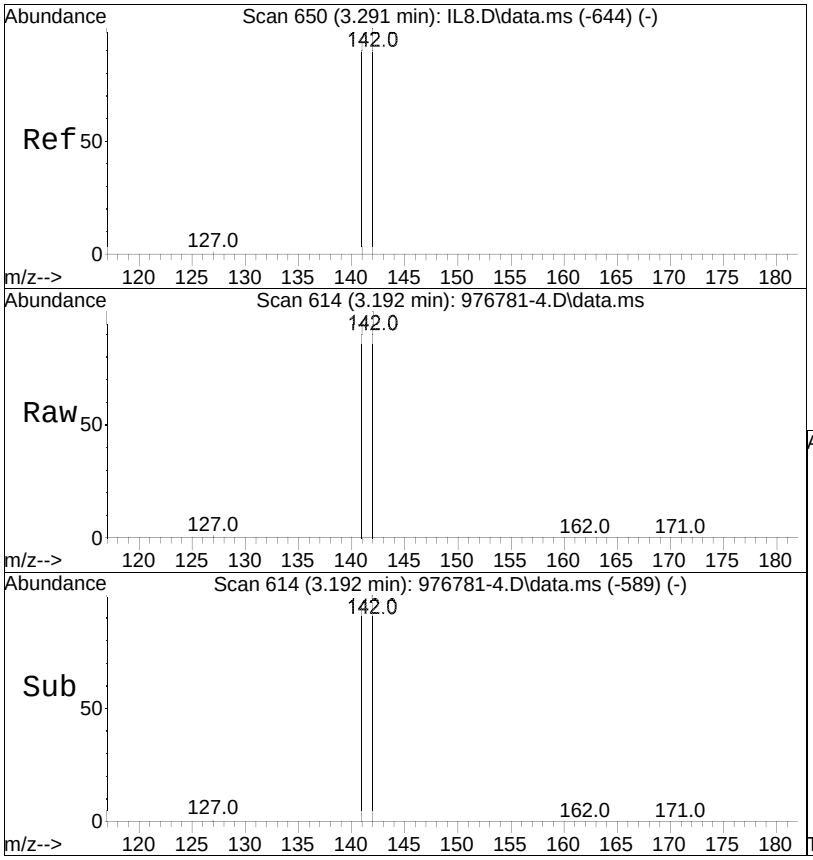


#11
2-Methylnaphthalene
Concen: 1669.09 ng/ml
RT: 3.138 min Scan# 598
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:142 Resp: 317111

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.3	109.9

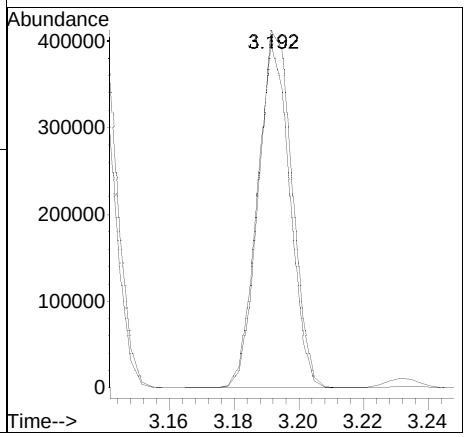


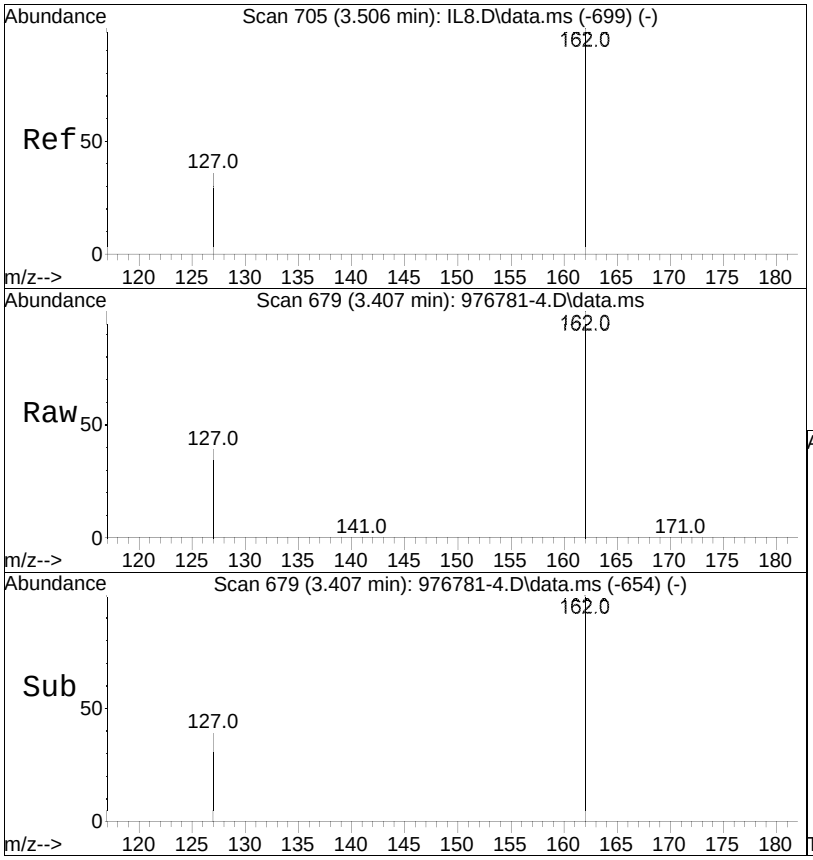


#12
1-Methylnaphthalene
Concen: 1618.32 ng/ml
RT: 3.192 min Scan# 614
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:142 Resp: 296629

Ion	Ratio	Lower	Upper
142	100		
141	93.7	74.9	112.3

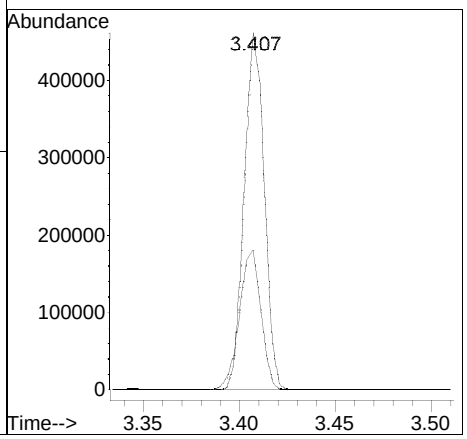


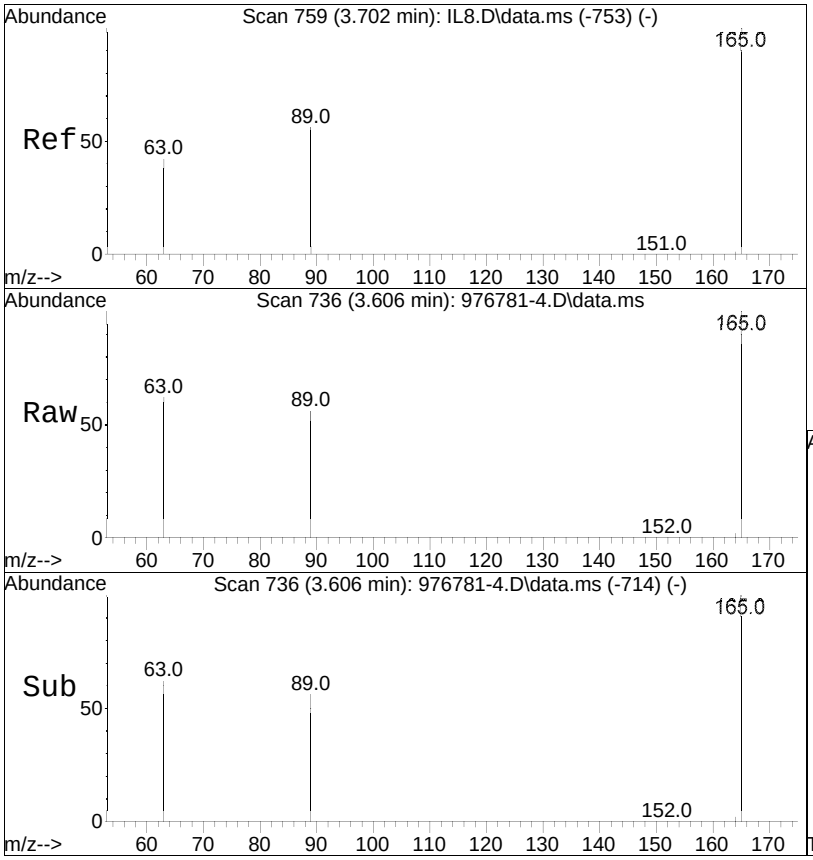


#14
2-Chloronaphthalene
Concen: 1653.43 ng/ml
RT: 3.407 min Scan# 679
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:162 Resp: 327350

Ion	Ratio	Lower	Upper
162	100		
127	42.6	30.1	45.1

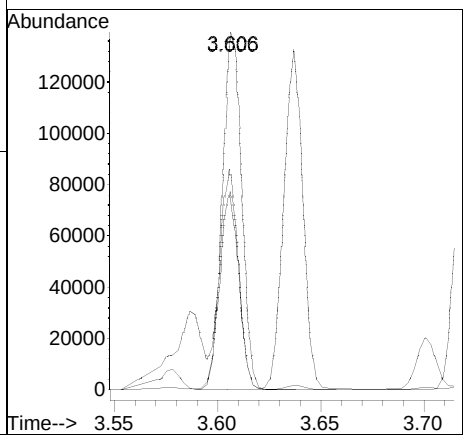


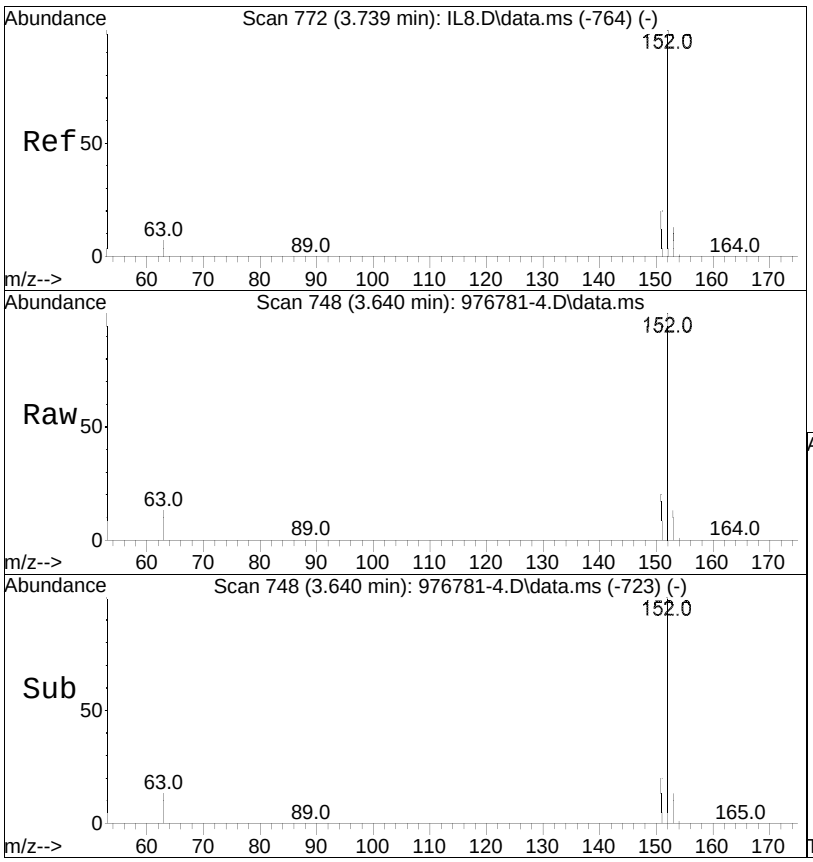


#15
2,6-Dinitrotoluene
Concen: 1830.22 ng/ml
RT: 3.606 min Scan# 736
Delta R.T. 0.003 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:165 Resp: 90897

Ion	Ratio	Lower	Upper
165	100		
89	54.5	44.0	66.0
63	60.2	47.5	71.3

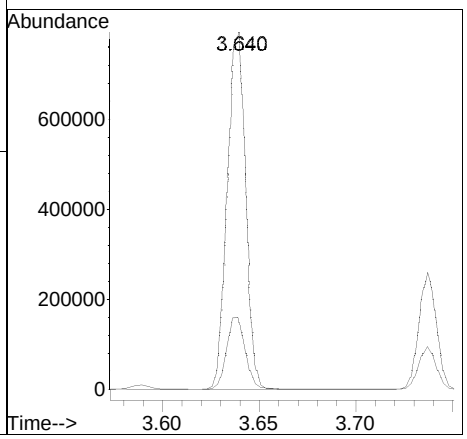


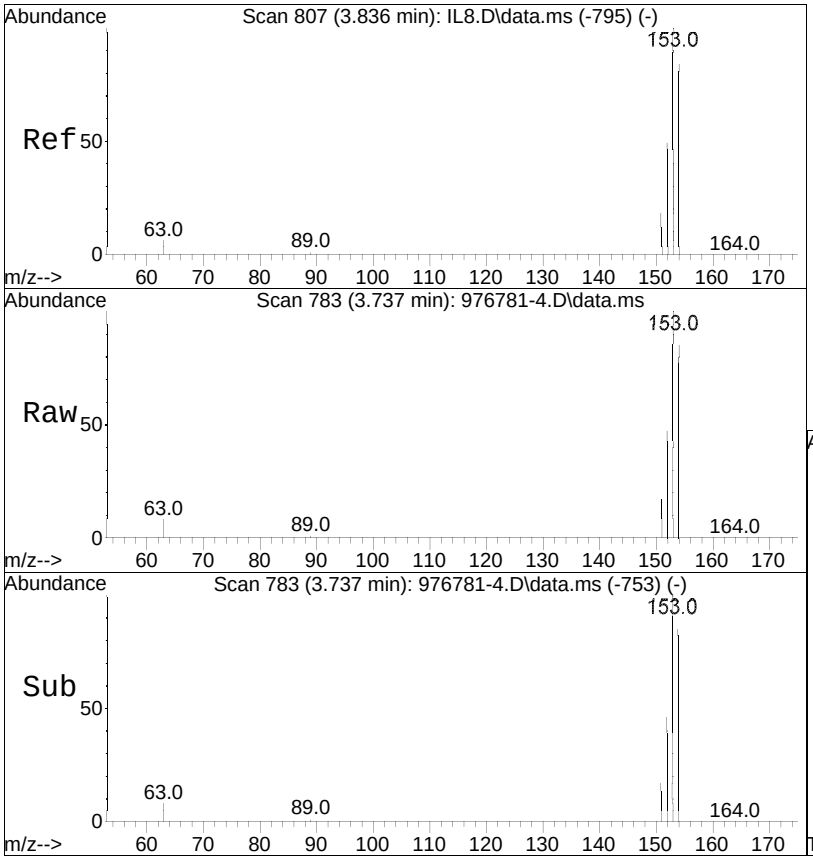


#16
Acenaphthylene
Concen: 1801.47 ng/ml
RT: 3.640 min Scan# 748
Delta R.T. 0.003 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:152 Resp: 518838

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.2

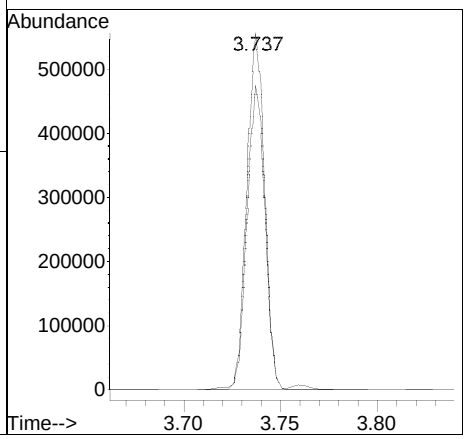


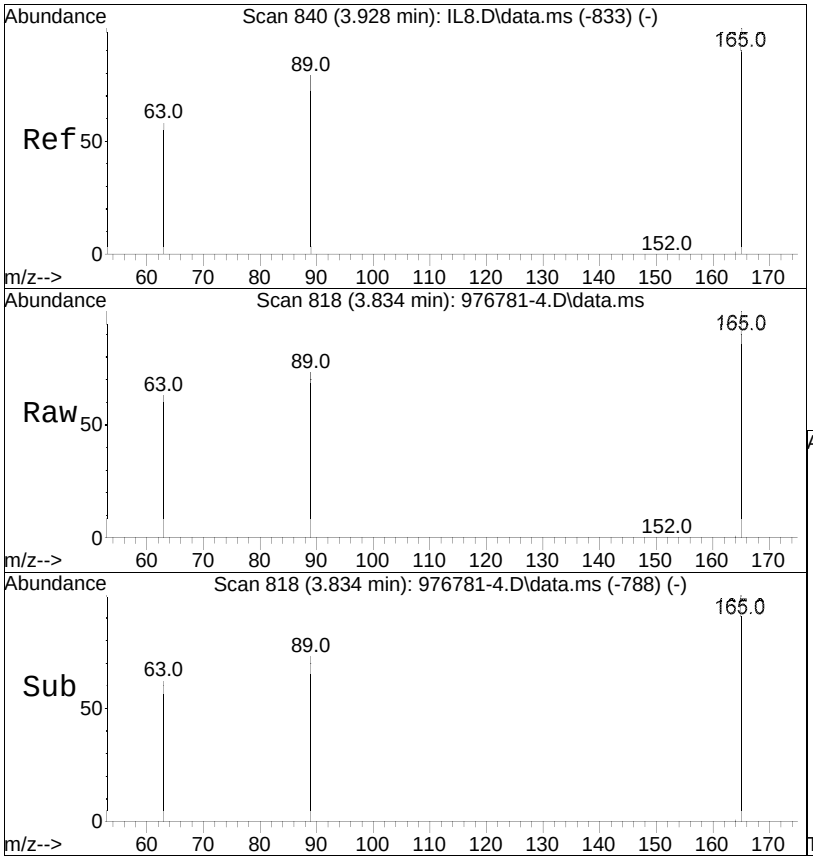


#18
Acenaphthene
Concen: 1732.78 ng/ml
RT: 3.737 min Scan# 783
Delta R.T. 0.003 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:153 Resp: 350464

Ion	Ratio	Lower	Upper
153	100		
154	86.3	69.1	103.7

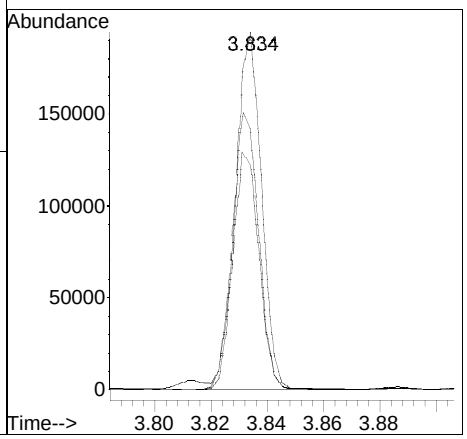


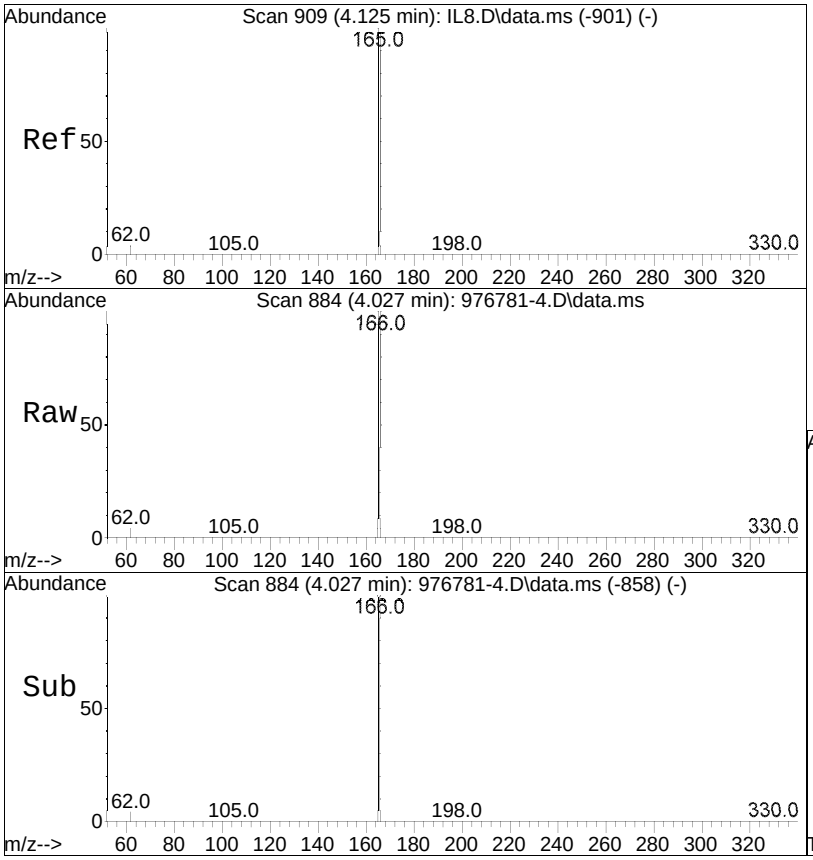


#19
2,4-Dinitrotoluene
Concen: 1826.70 ng/ml
RT: 3.834 min Scan# 818
Delta R.T. 0.003 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:165 Resp: 121169

Ion	Ratio	Lower	Upper
165	100		
89	79.7	64.6	96.8
63	69.2	56.5	84.7

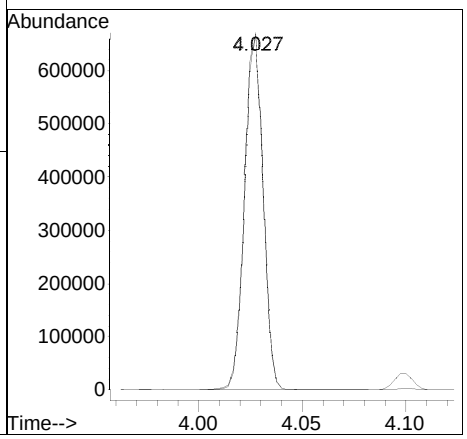


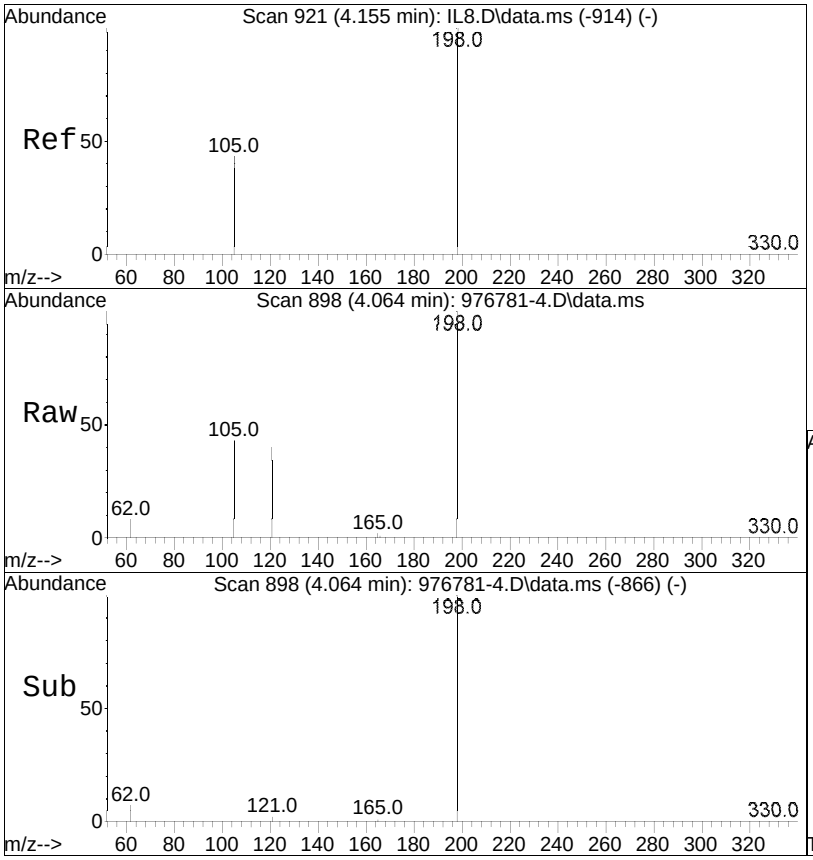


#20
Fluorene
Concen: 1847.77 ng/ml
RT: 4.027 min Scan# 884
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:166 Resp: 412780

Ion	Ratio	Lower	Upper
166	100		
165	101.1	81.4	122.2

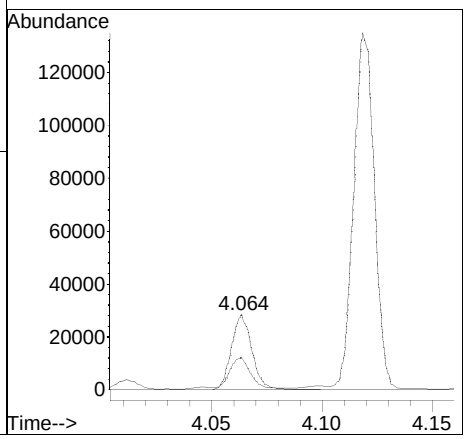


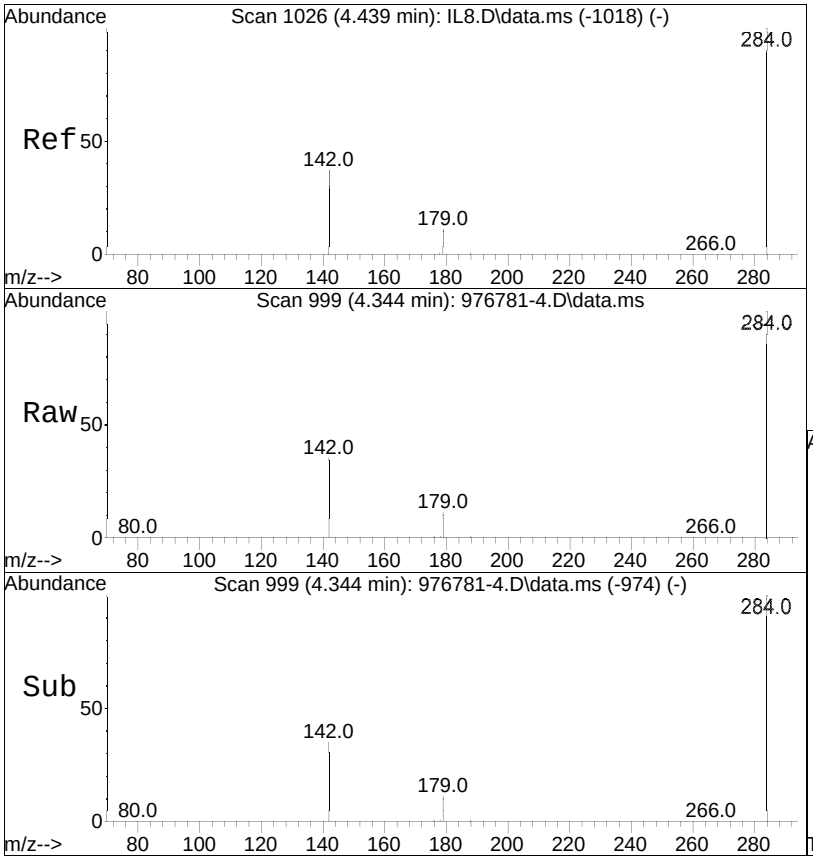


#23
4,6-Dinitro-o-cresol
Concen: 496.59 ng/ml
RT: 4.064 min Scan# 898
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:198 Resp: 18266

Ion	Ratio	Lower	Upper
198	100		
105	40.4	34.9	52.3

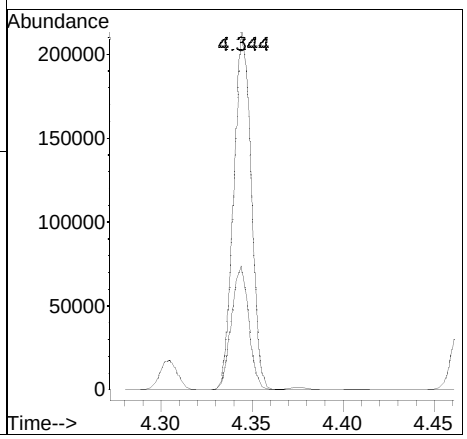


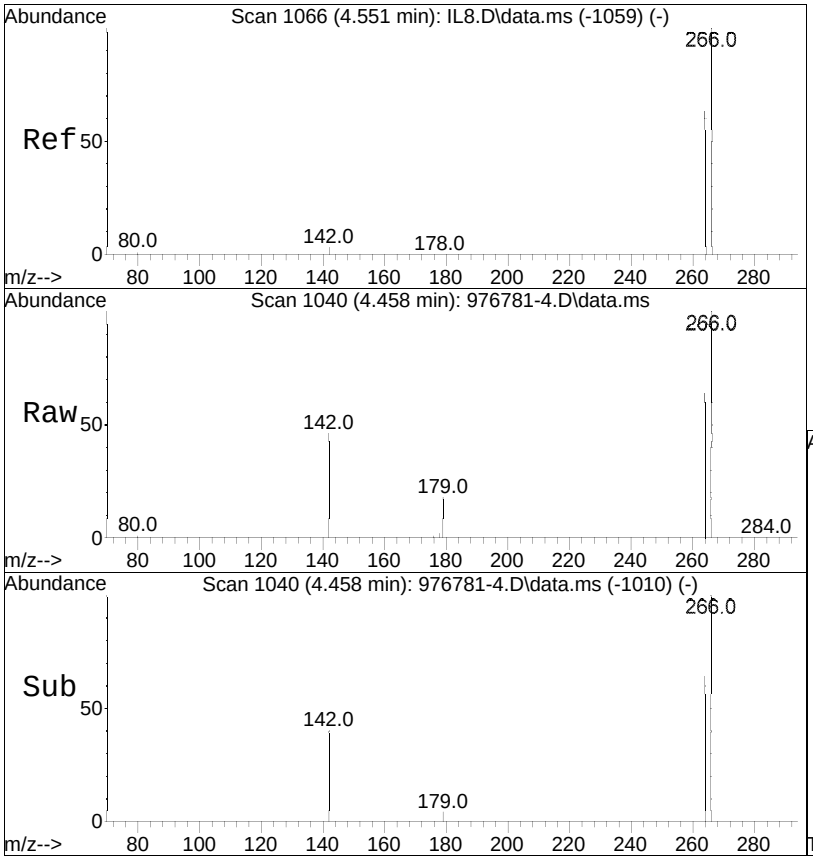


#24
Hexachlorobenzene
Concen: 1868.99 ng/ml
RT: 4.344 min Scan# 999
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:284 Resp: 141476

Ion	Ratio	Lower	Upper
284	100		
142	34.3	26.6	40.0

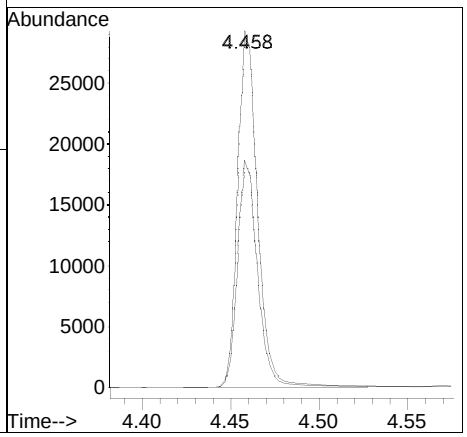


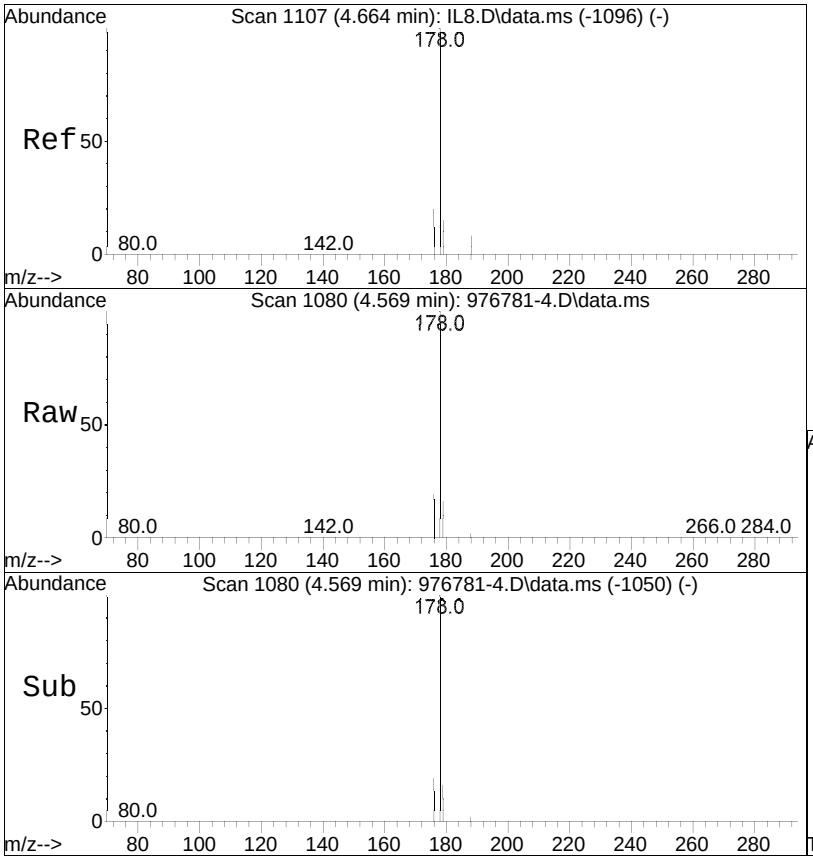


#25
Pentachlorophenol
Concen: 673.94 ng/ml
RT: 4.458 min Scan# 1040
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:266 Resp: 22782

Ion	Ratio	Lower	Upper
266	100		
264	64.4	50.2	75.4

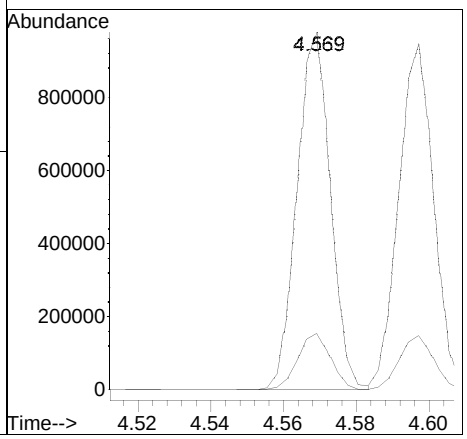


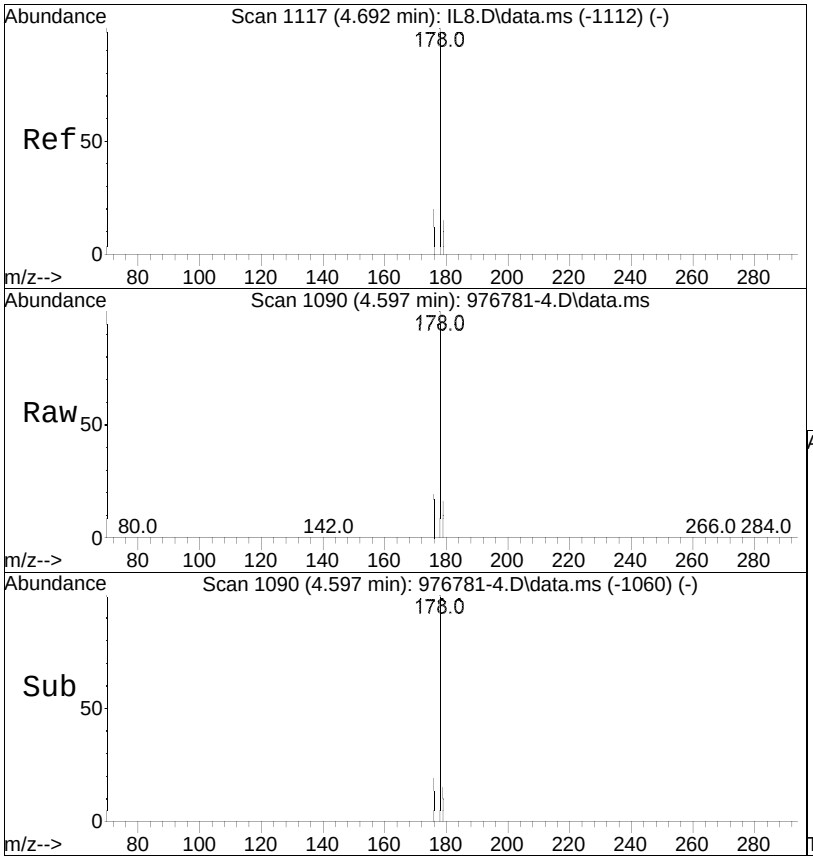


#26
Phenanthrene
Concen: 1880.06 ng/ml
RT: 4.569 min Scan# 1080
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:178 Resp: 623165

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

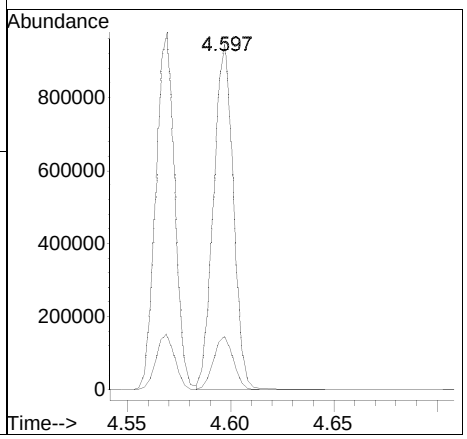


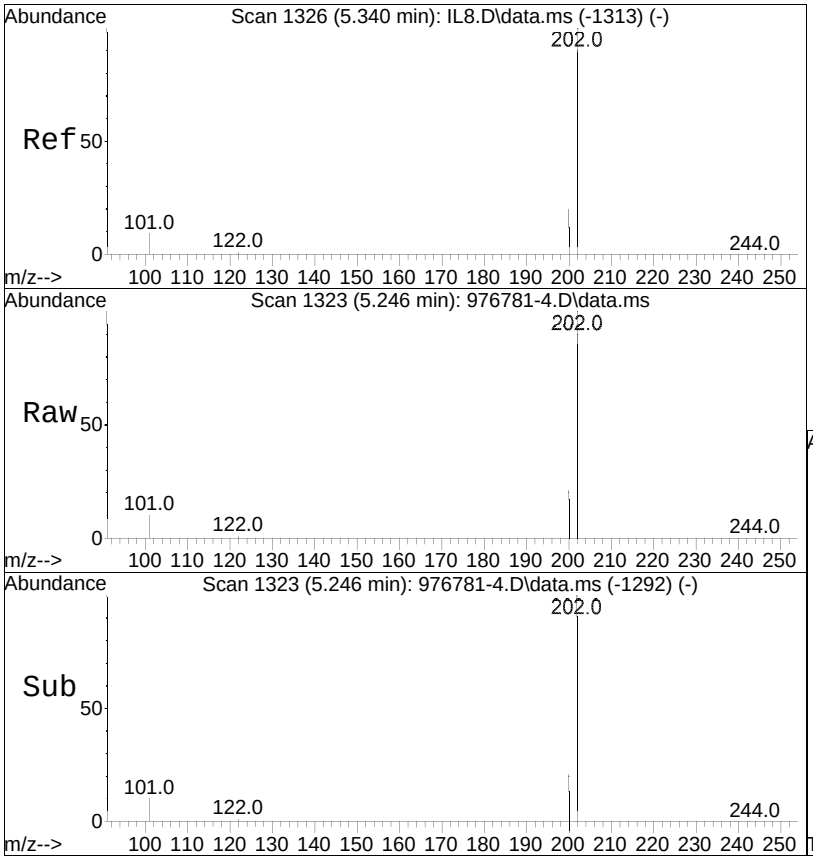


#27
Anthracene
Concen: 1940.81 ng/ml
RT: 4.597 min Scan# 1090
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:178 Resp: 631161

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

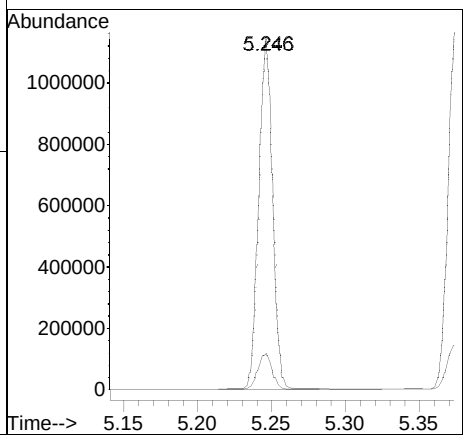


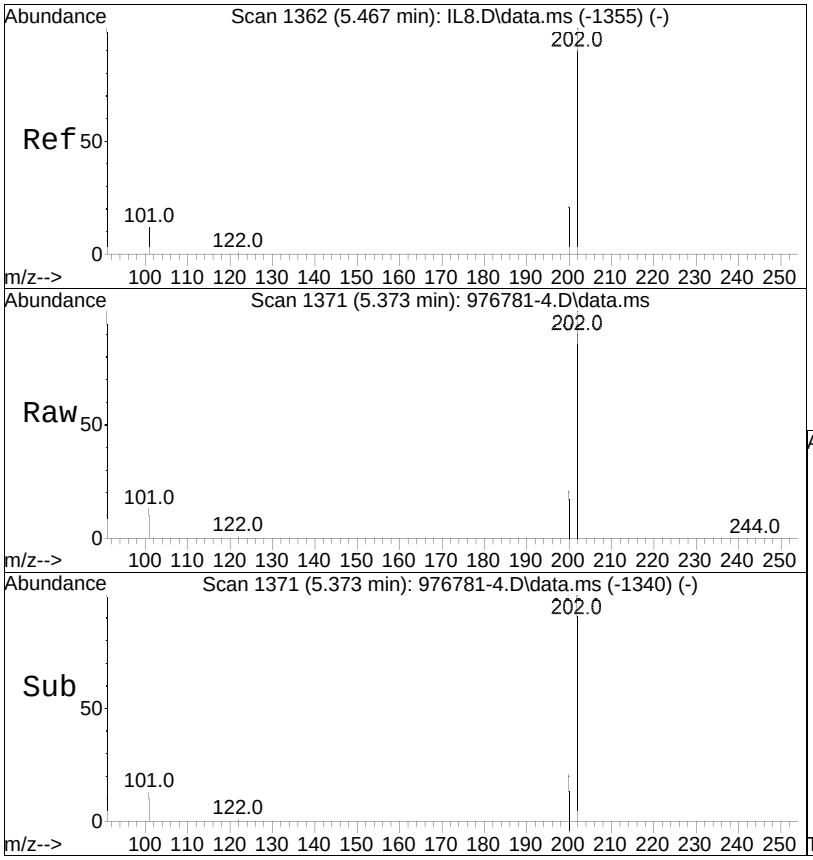


#28
Fluoranthene
Concen: 1954.53 ng/ml
RT: 5.246 min Scan# 1323
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:202 Resp: 750215

Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.3	12.5

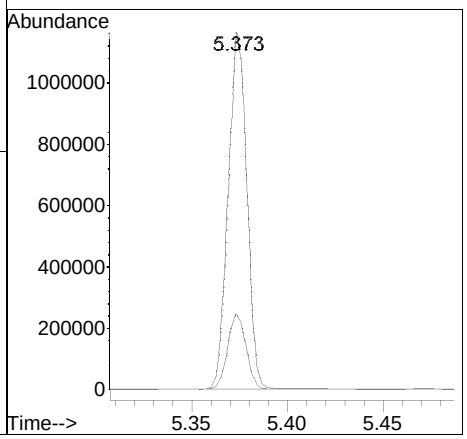


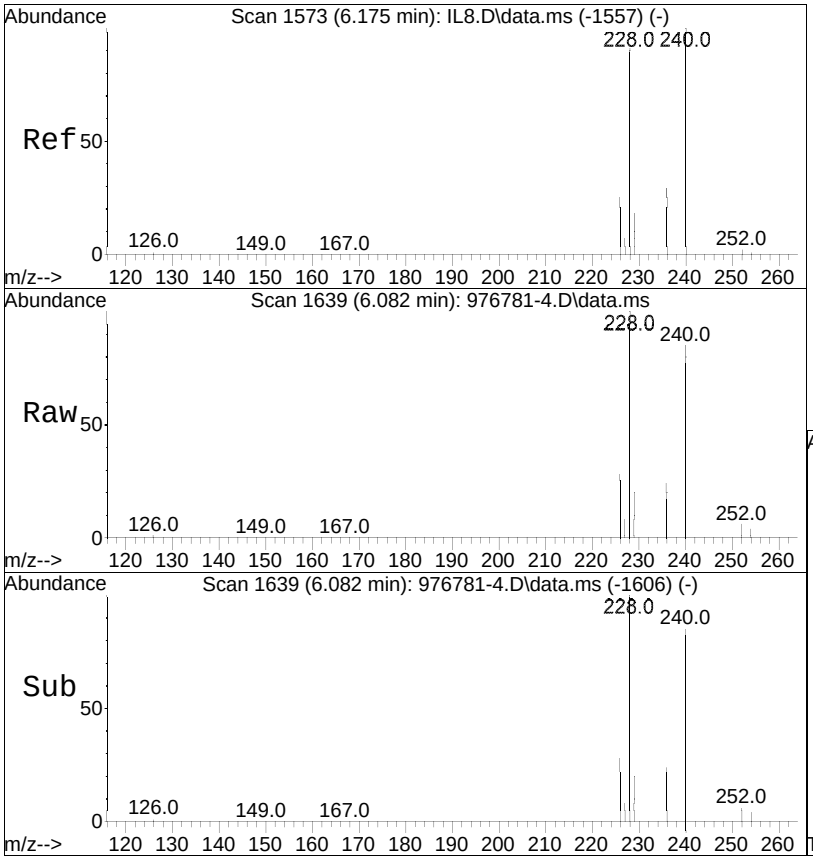


#29
Pyrene
Concen: 1912.28 ng/ml
RT: 5.373 min Scan# 1371
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:202 Resp: 776186

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3

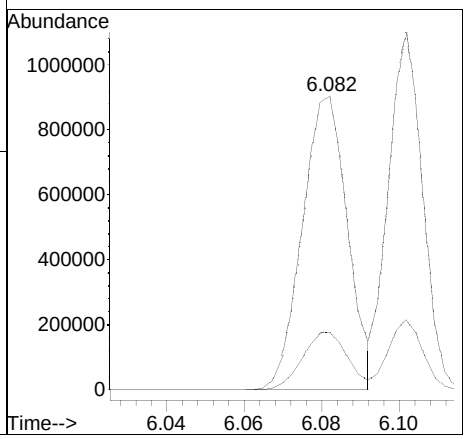


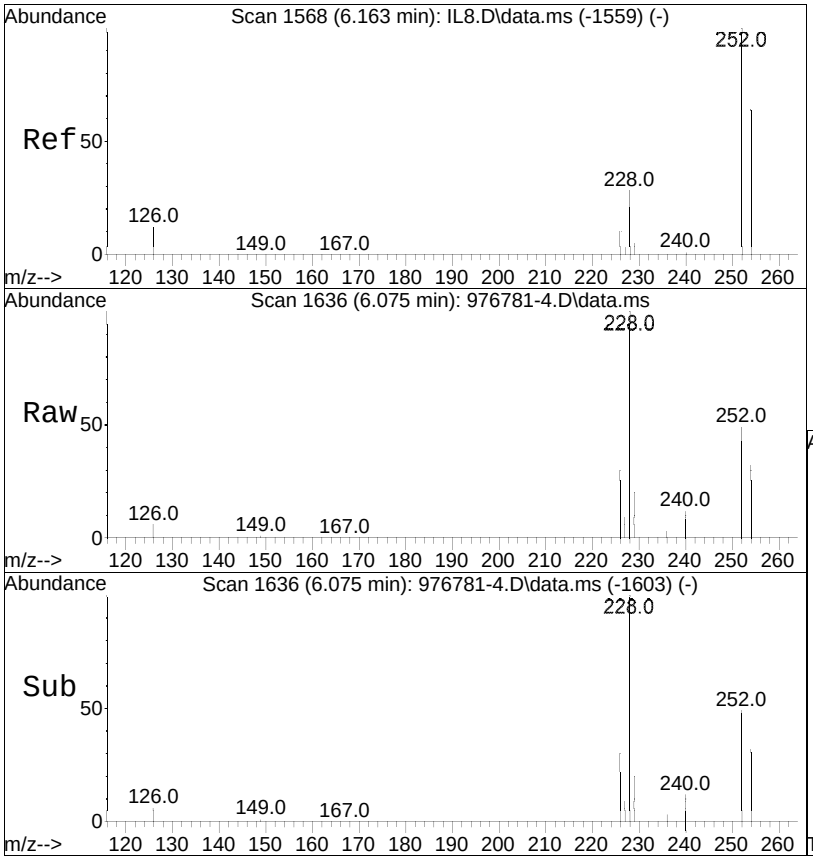


#32
Benzo[a]anthracene
Concen: 2107.10 ng/ml
RT: 6.082 min Scan# 1639
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:228 Resp: 729276

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

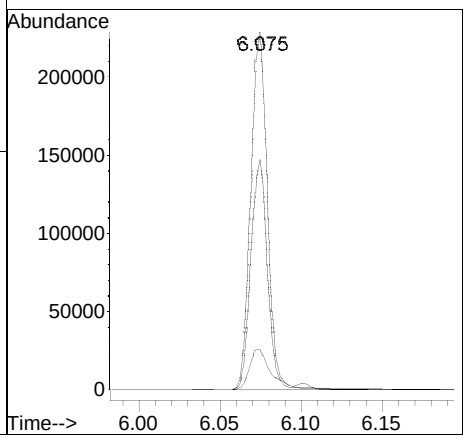


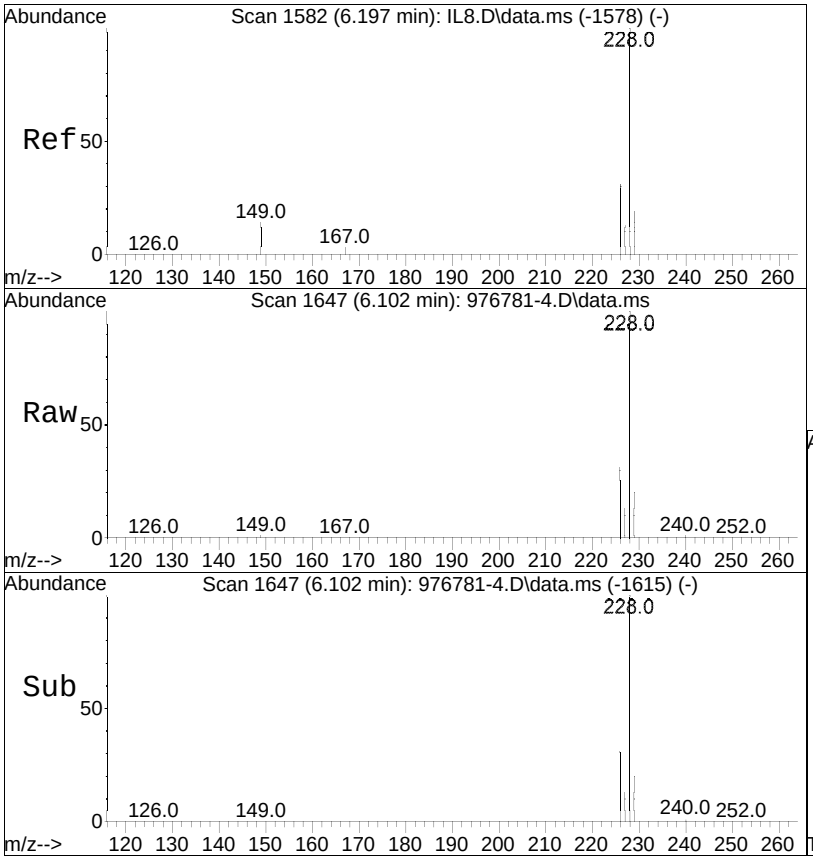


#33
3,3'-Dichlorobenzene
Concen: 1309.91 ng/ml
RT: 6.075 min Scan# 1636
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:252 Resp: 162257

Ion	Ratio	Lower	Upper
252	100		
126	14.1	11.3	16.9
254	64.4	51.4	77.0

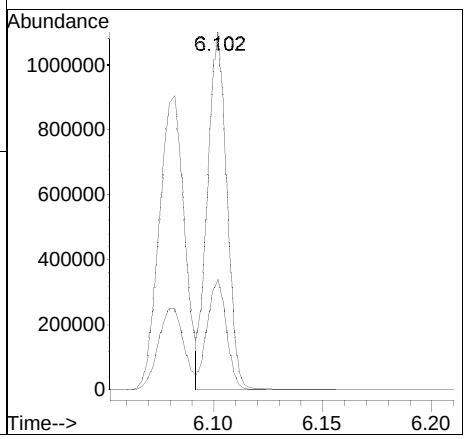


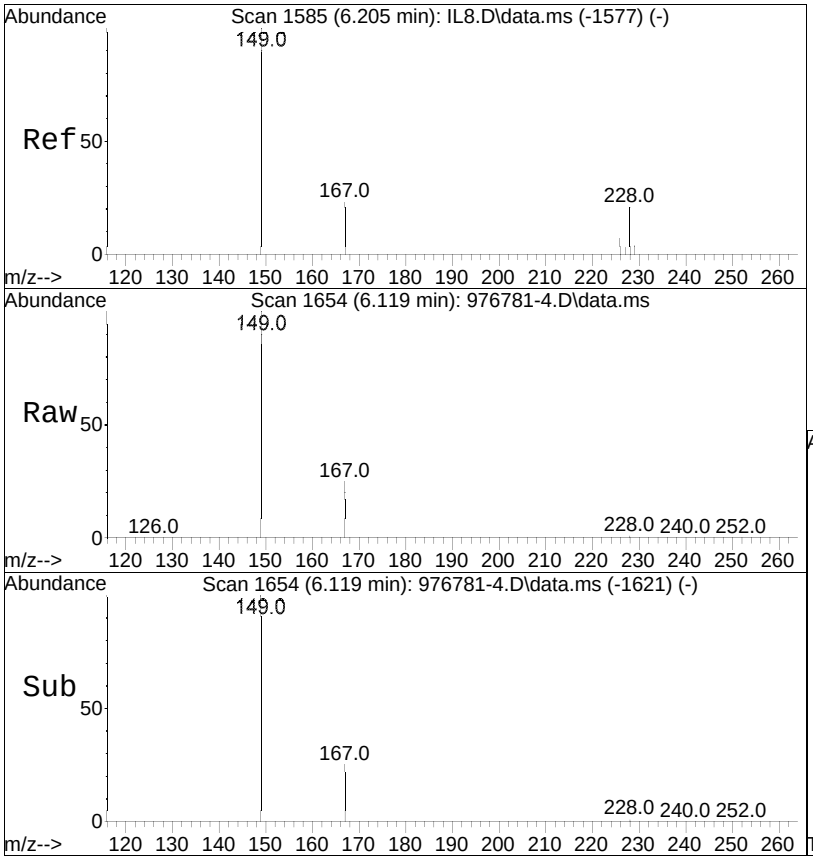


#34
Chrysene
Concen: 2062.48 ng/ml
RT: 6.102 min Scan# 1647
Delta R.T. -0.000 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:228 Resp: 676900

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	36.8

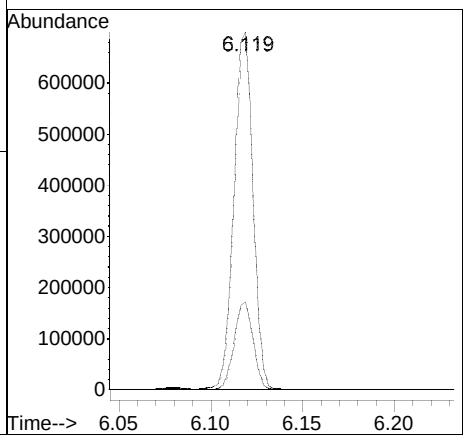


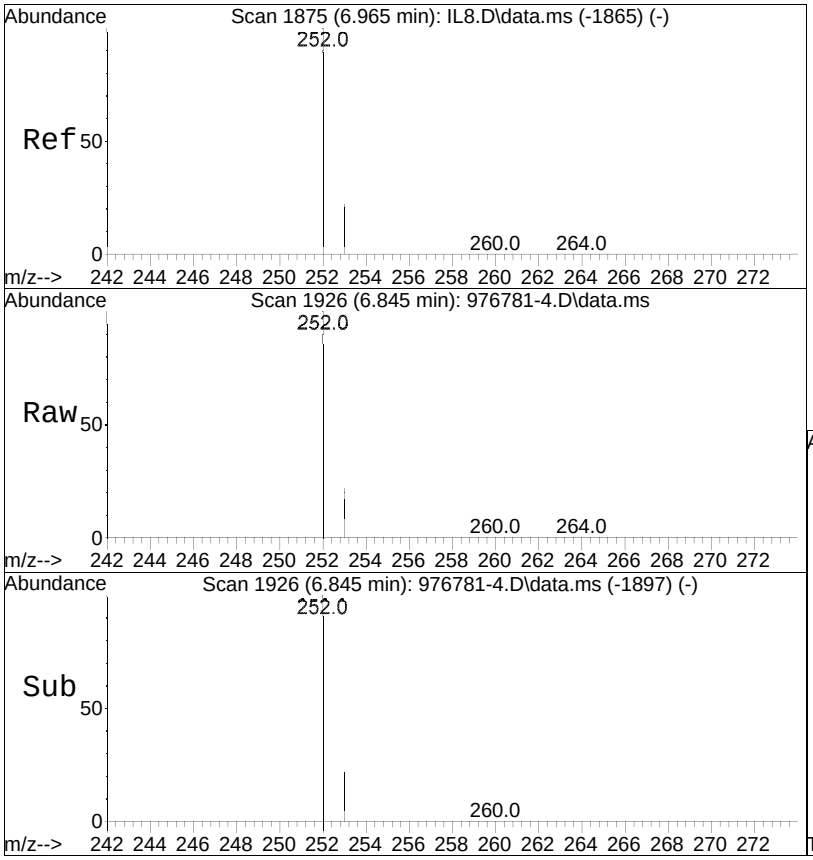


#35
Bis(2-ethylhexyl)phthalate
Concen: 2339.66 ng/ml
RT: 6.119 min Scan# 1654
Delta R.T. 0.002 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:149 Resp: 494826

Ion	Ratio	Lower	Upper
149	100		
167	24.4	19.5	29.3

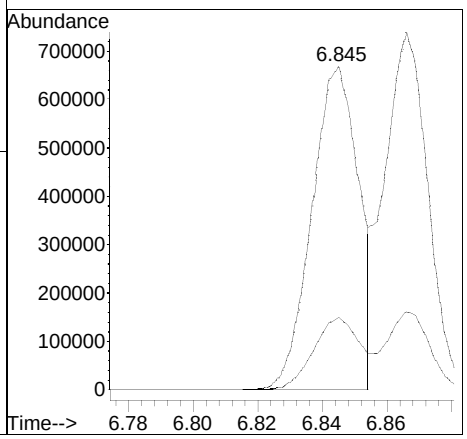


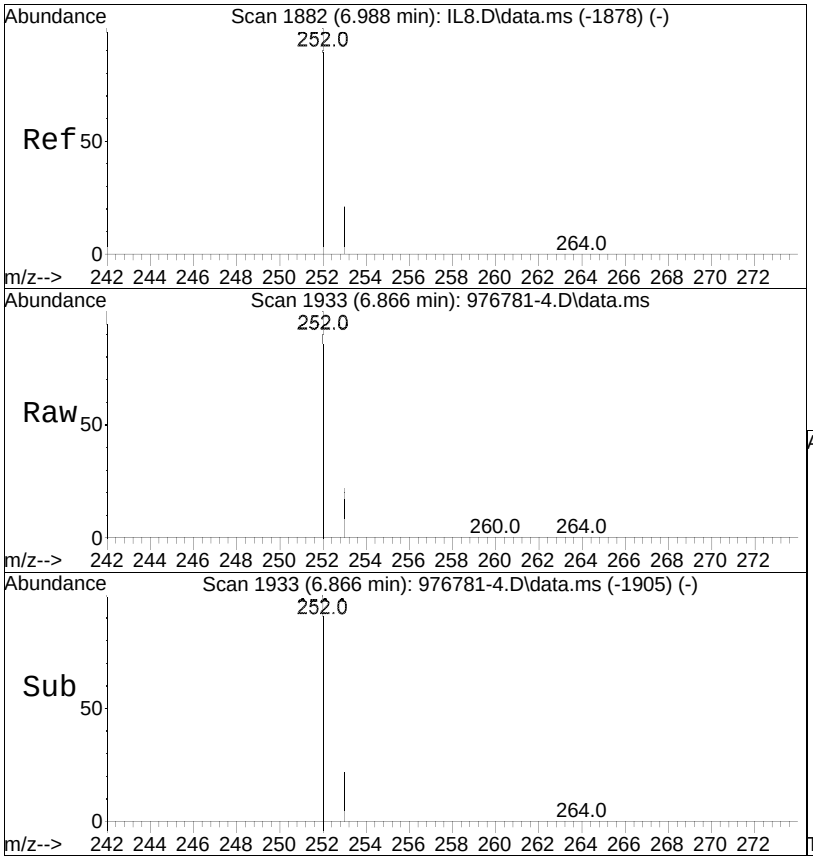


#37
Benzo[b]fluoranthene
Concen: 2149.90 ng/ml
RT: 6.845 min Scan# 1926
Delta R.T. 0.006 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:252 Resp: 679511

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.3	25.9

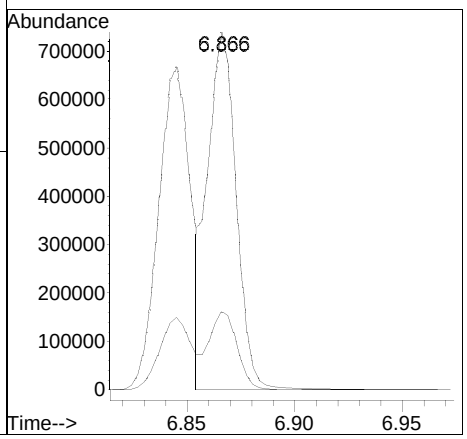


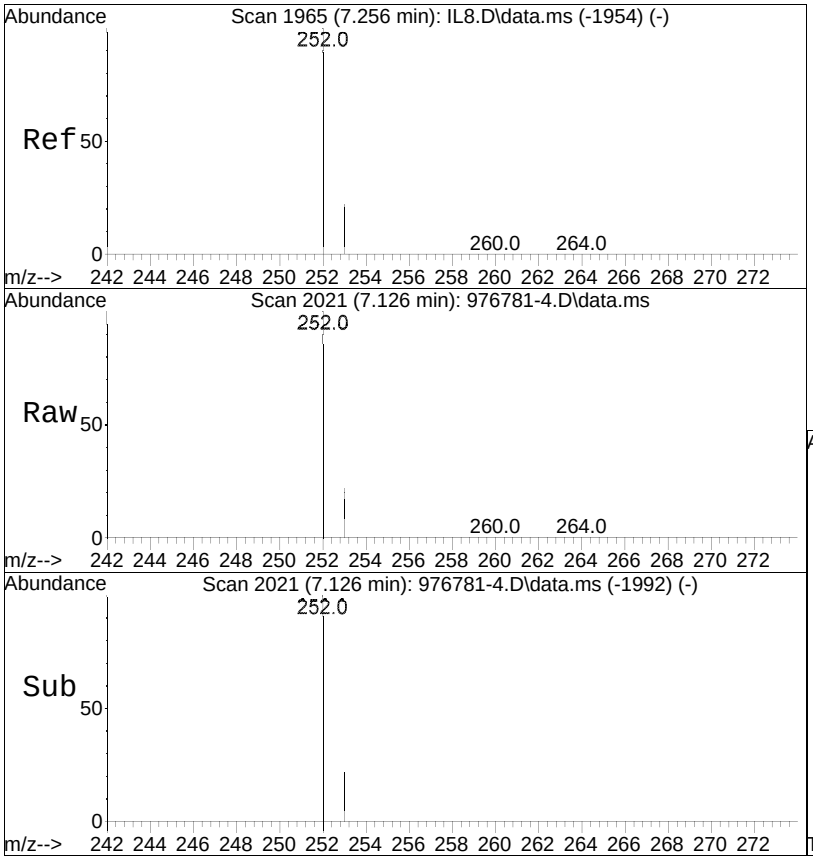


#38
Benzo[k]fluoranthene
Concen: 2190.91 ng/ml
RT: 6.866 min Scan# 1933
Delta R.T. 0.003 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:252 Resp: 679408

Ion	Ratio	Lower	Upper
252	100		
253	20.4	17.5	26.3

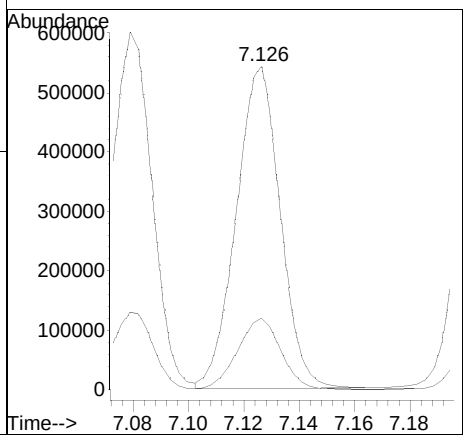


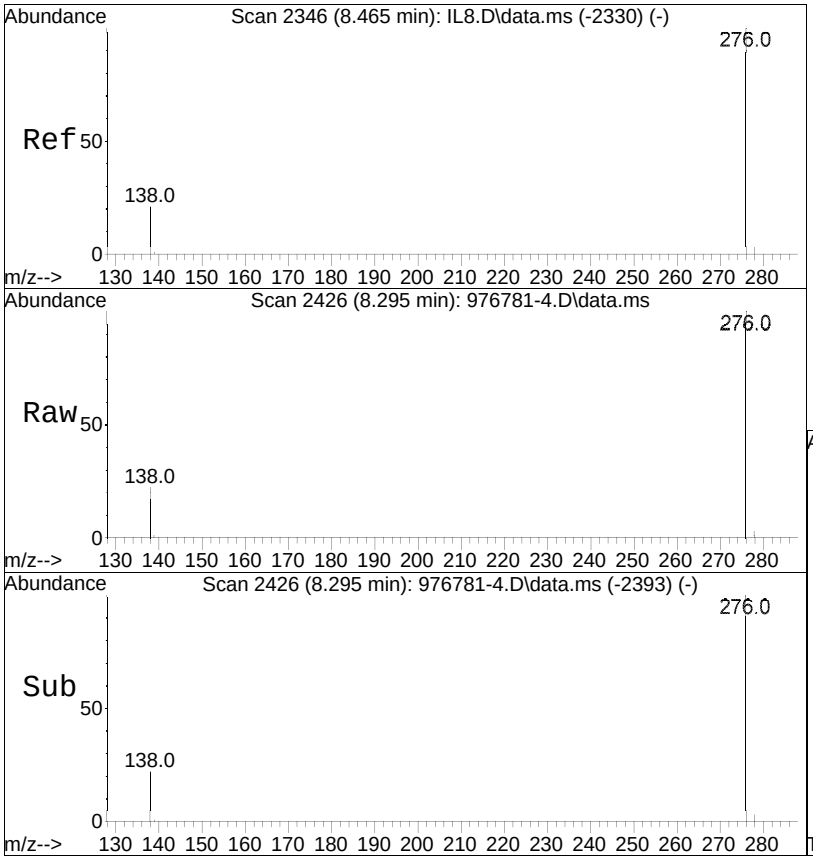


#39
Benzo[a]pyrene
Concen: 2193.66 ng/ml
RT: 7.126 min Scan# 2021
Delta R.T. 0.005 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:252 Resp: 593576

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

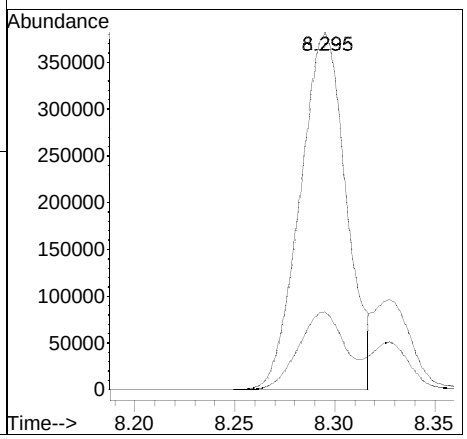


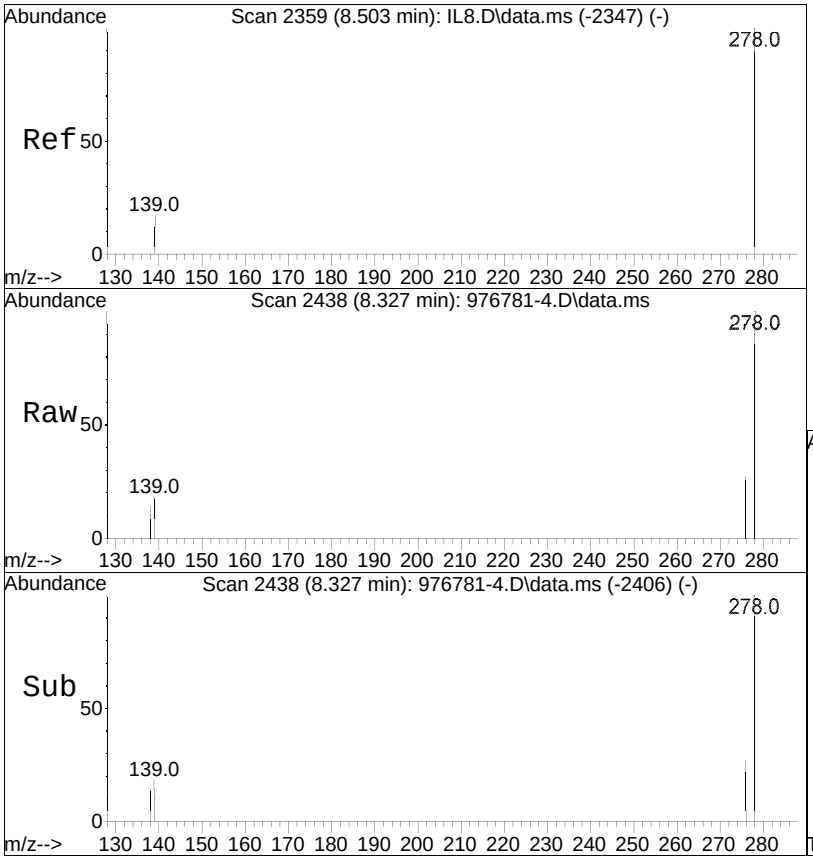


#40
Indeno[1,2,3-cd]pyrene
Concen: 2282.62 ng/ml
RT: 8.295 min Scan# 2426
Delta R.T. 0.008 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:276 Resp: 607326

Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.5	24.7

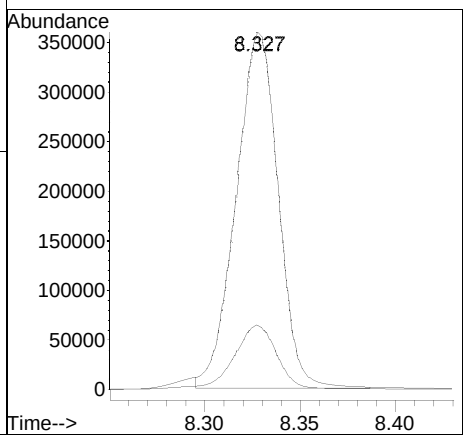


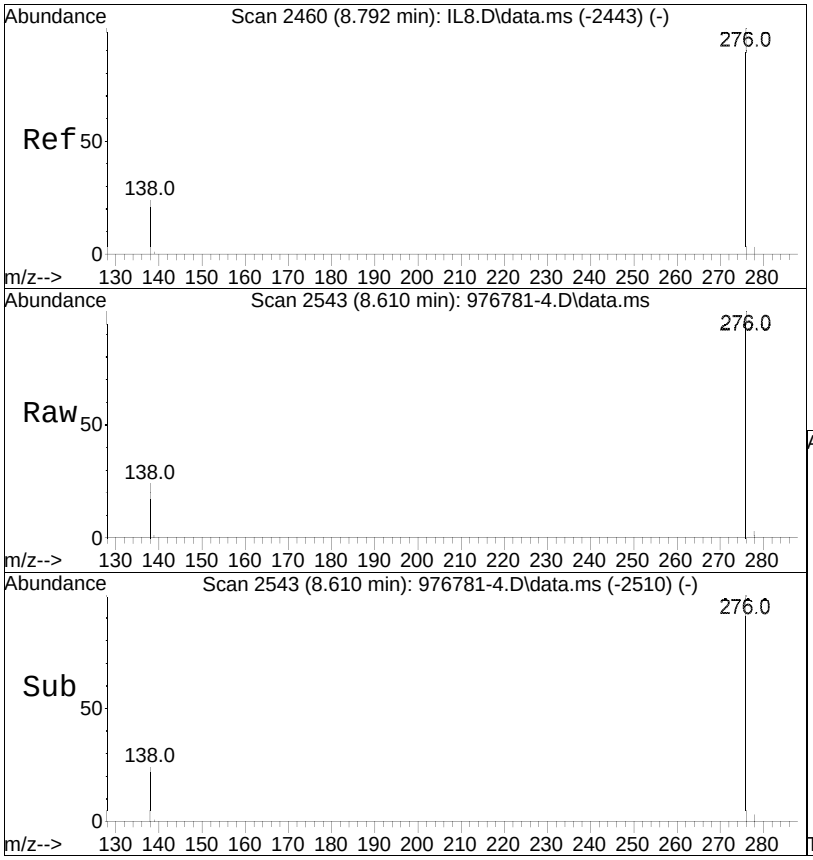


#41
Dibenzo[a,h]anthracene
Concen: 2175.67 ng/ml M6
RT: 8.327 min Scan# 2438
Delta R.T. 0.005 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:278 Resp: 546985

Ion	Ratio	Lower	Upper
278	100		
139	18.7	14.5	21.7

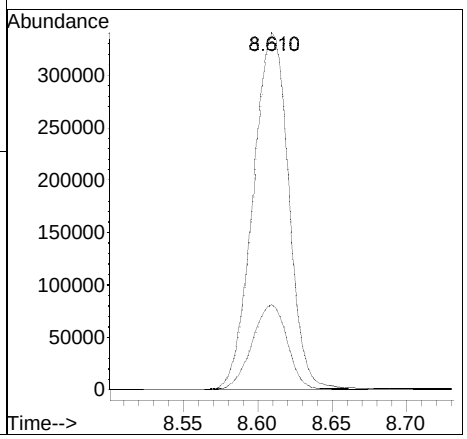




#42
Benzo[g,h,i]perylene
Concen: 2075.68 ng/ml
RT: 8.610 min Scan# 2543
Delta R.T. 0.008 min
Lab File: 976781-4.D
Acq: 27 Sep 2024 12:43 pm

Tgt Ion:276 Resp: 560330

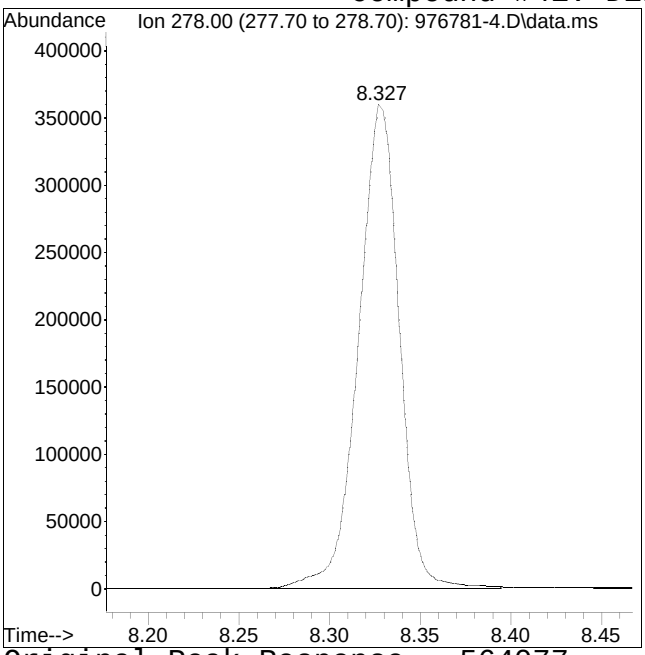
Ion	Ratio	Lower	Upper
276	100		
138	23.8	18.6	27.8



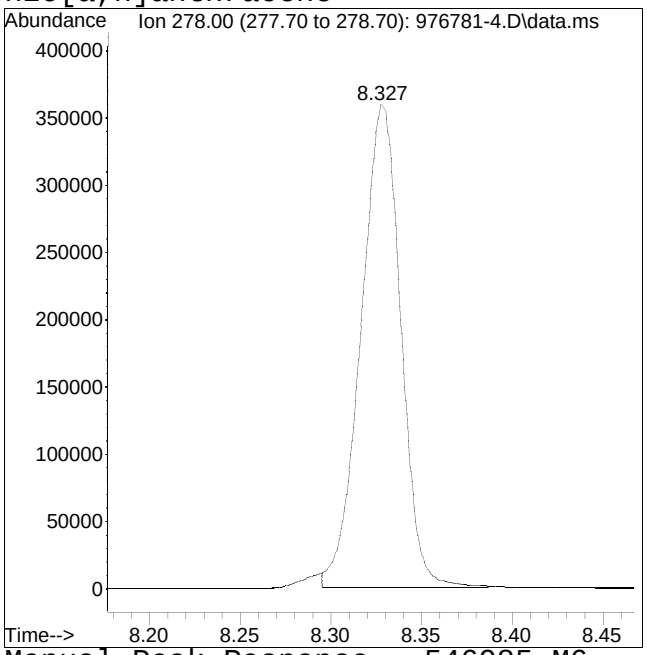
Manual Integration Report

Data Path : I:\8270SIM\sv120\240927RVTQMethod : SIM-RVT_240925_sv120.M
Data File : 976781-4.D Operator : SV120:dv
Date Inj'd : 9/27/2024 12:43 pm Instrument : SV120
Sample : WG1976781-4,32,,kmh Quant Date : 9/27/2024 12:56 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 564077



Manual Peak Response = 546985 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-5.D
Acq On : 27 Sep 2024 12:59 pm
Operator : SV120:dv
Sample : WG1976781-5,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 14:18:58 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.097	152	395466	4000.000	ng/ml	0.00
Standard Area 1 = 396038			Recovery = 99.86%			
8) Naphthalene-d8	2.750	136	1473387	4000.000	ng/ml	0.00
Standard Area 1 = 1485677			Recovery = 99.17%			
17) Acenaphthene-d10	3.722	164	809999	4000.000	ng/ml	0.00
Standard Area 1 = 844424			Recovery = 95.92%			
22) Phenanthrene-d10	4.557	188	1559068	4000.000	ng/ml	0.00
Standard Area 1 = 1642445			Recovery = 94.92%			
31) Chrysene-d12	6.088	240	1375593	4000.000	ng/ml	0.00
Standard Area 1 = 1466707			Recovery = 93.79%			
36) Perylene-d12	7.188	264	1333060	4000.000	ng/ml	0.00
Standard Area 1 = 1469555			Recovery = 90.71%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.542	112	100125	915.709	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.79%			
3) Phenol-d6	1.921	99	89450	696.944	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 34.85%			
7) Nitrobenzene-d5	2.373	82	78205	720.845	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 72.08%			
13) 2-Fluorobiphenyl	3.347	172	182022	650.710	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.07%			
21) 2,4,6-Tribromophenol	4.164	330	58132	1604.508	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 80.23%			
30) 4-Terphenyl-d14	5.473	244	201627	738.431	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 36.92%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.964	93	151797	1349.223	ng/ml	100
5) n-nitrosodi-n-propylamine	2.295	70	116099	1525.321	ng/ml	100
6) Hexachloroethane	2.348	117	48858	1009.066	ng/ml	99
9) Naphthalene	2.760	128	436849	1189.435	ng/ml	100
10) Hexachlorobutadiene	2.836	225	70062	996.593	ng/ml	100
11) 2-Methylnaphthalene	3.138	142	292816	1267.563	ng/ml	99
12) 1-Methylnaphthalene	3.191	142	271625	1218.790	ng/ml	99
14) 2-Chloronaphthalene	3.407	162	303778	1261.937	ng/ml	94
15) 2,6-Dinitrotoluene	3.608	165	85888	1425.870	ng/ml	99
16) Acenaphthylene	3.638	152	485497	1386.402	ng/ml	100
18) Acenaphthene	3.738	153	324541	1340.937	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-5.D
Acq On : 27 Sep 2024 12:59 pm
Operator : SV120:dv
Sample : WG1976781-5,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 14:18:58 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240927RVT\ccv0927.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.833	165	117477	1483.811	ng/ml	96
20) Fluorene	4.026	166	385026	1440.318	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.063	198	68620	1512.496	ng/ml	98
24) Hexachlorobenzene	4.346	284	132573	1479.056	ng/ml	99
25) Pentachlorophenol	4.460	266	87644	1777.201	ng/ml	100
26) Phenanthrene	4.568	178	589311	1501.470	ng/ml	100
27) Anthracene	4.596	178	595411	1546.196	ng/ml	100
28) Fluoranthene	5.245	202	711666	1565.803	ng/ml	99
29) Pyrene	5.372	202	739214	1538.016	ng/ml	100
32) Benzo[a]anthracene	6.081	228	709927	1725.357	ng/ml	100
33) 3,3'-Dichlorobenzene	6.076	252	111712	759.398	ng/ml	98
34) Chrysene	6.103	228	643189	1650.200	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.118	149	536207	2136.976	ng/ml	100
37) Benzo[b]fluoranthene	6.847	252	655884	1781.892	ng/ml	100
38) Benzo[k]fluoranthene	6.868	252	614412	1701.319	ng/ml	99
39) Benzo[a]pyrene	7.125	252	556688	1766.598	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.297	276	578351	1866.535	ng/ml	98
41) Dibenzo[a,h]anthracene	8.331	278	506341M6	1729.387	ng/ml	
42) Benzo[g,h,i]perylene	8.611	276	525726	1672.275	ng/ml	98

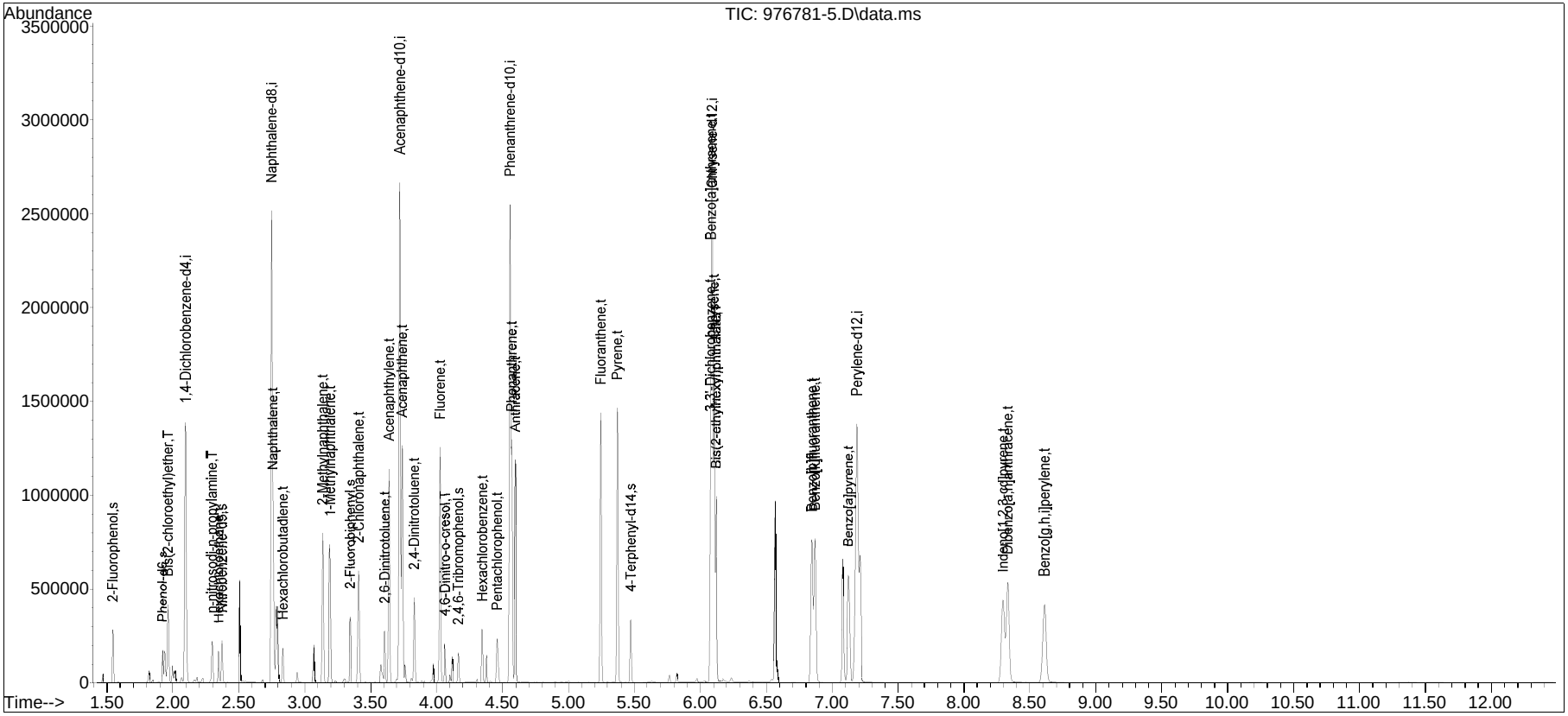
(#) = qualifier out of range (m) = manual integration (+) = signals summed

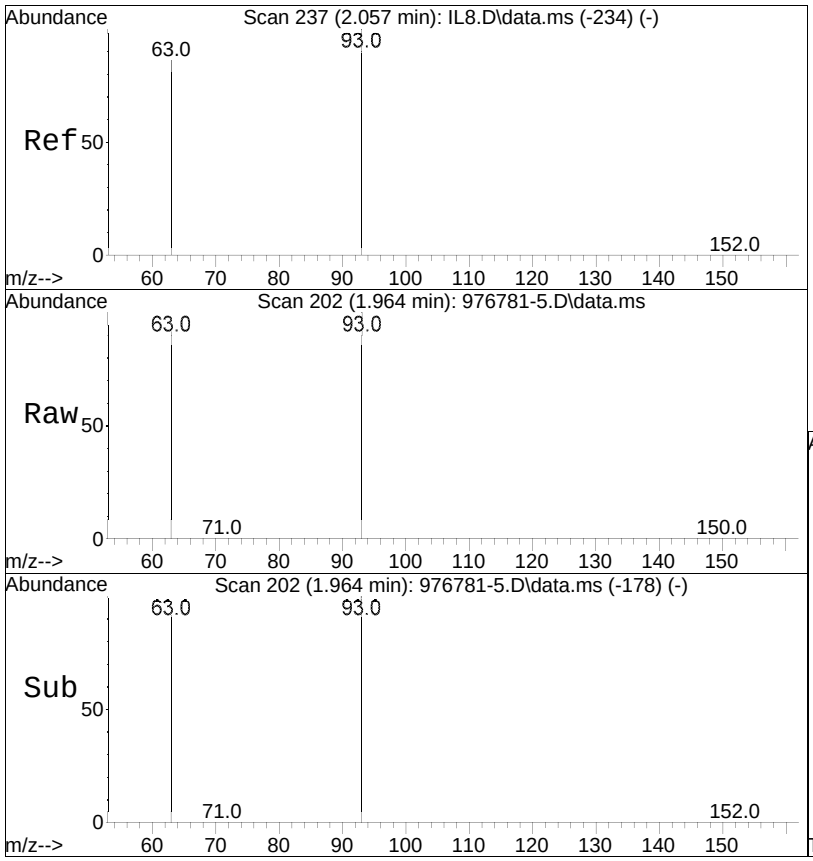
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240927RVT\
Data File : 976781-5.D
Acq On : 27 Sep 2024 12:59 pm
Operator : SV120:dv
Sample : WG1976781-5,32,,kmh
Misc : WG1977136,WG1976781,ical21522
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 14:18:58 2024
Quant Method : I:\8270sim\sv120\240927RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 08:22:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0927.D•

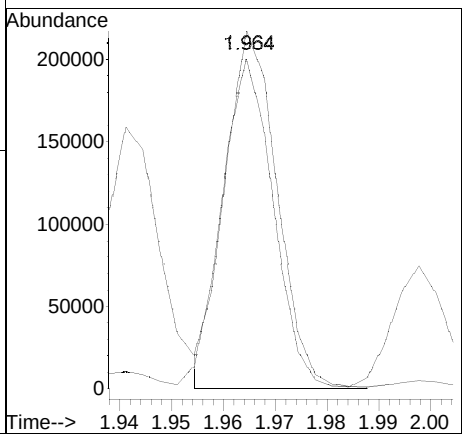


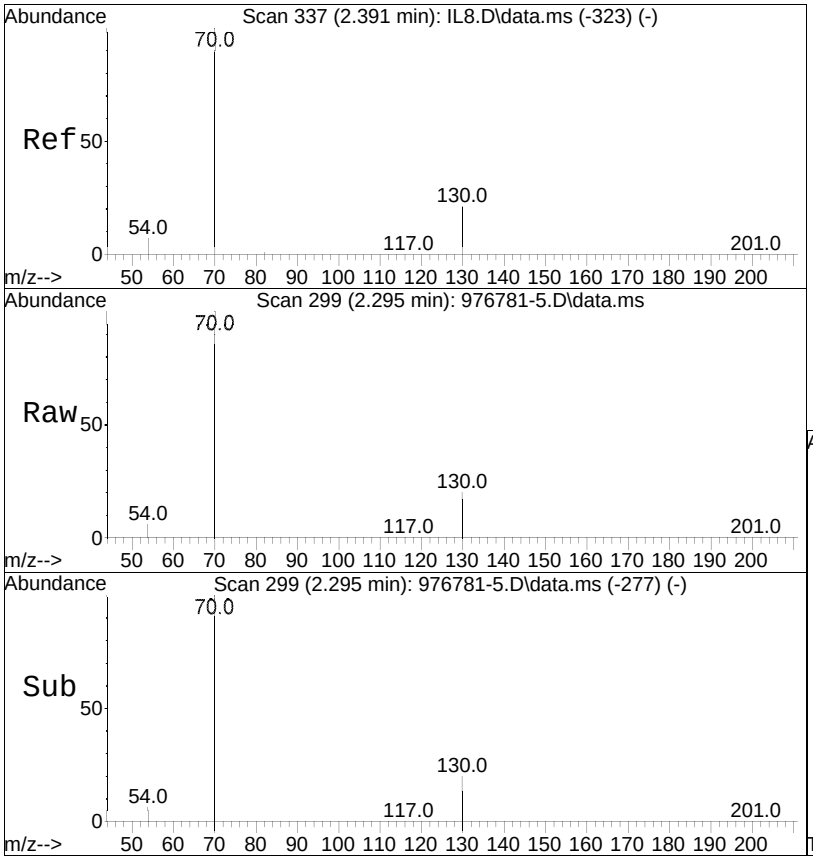


#4
Bis(2-chloroethyl)ether
Concen: 1349.22 ng/ml
RT: 1.964 min Scan# 202
Delta R.T. 0.000 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion: 93 Resp: 151797

Ion	Ratio	Lower	Upper
93	100		
63	91.2	73.0	109.4

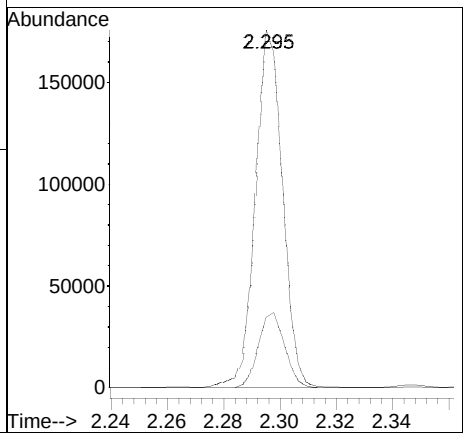


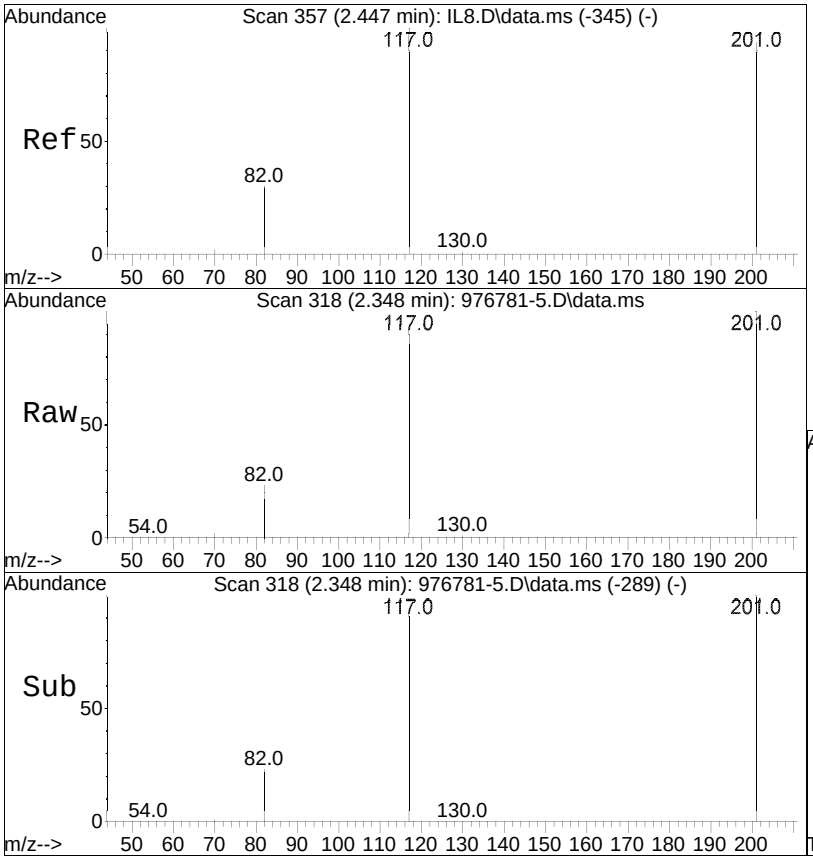


#5
n-nitrosodi-n-propylamine
Concen: 1525.32 ng/ml
RT: 2.295 min Scan# 299
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion: 70 Resp: 116099

Ion	Ratio	Lower	Upper
70	100		
130	20.5	16.4	24.6

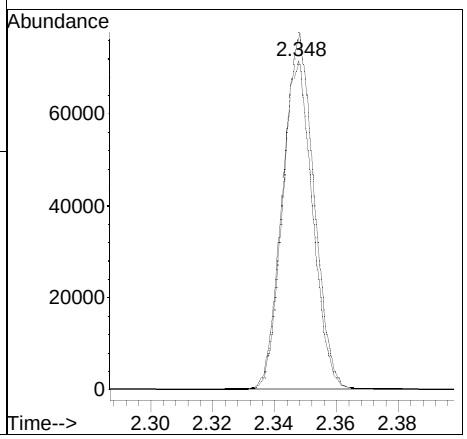


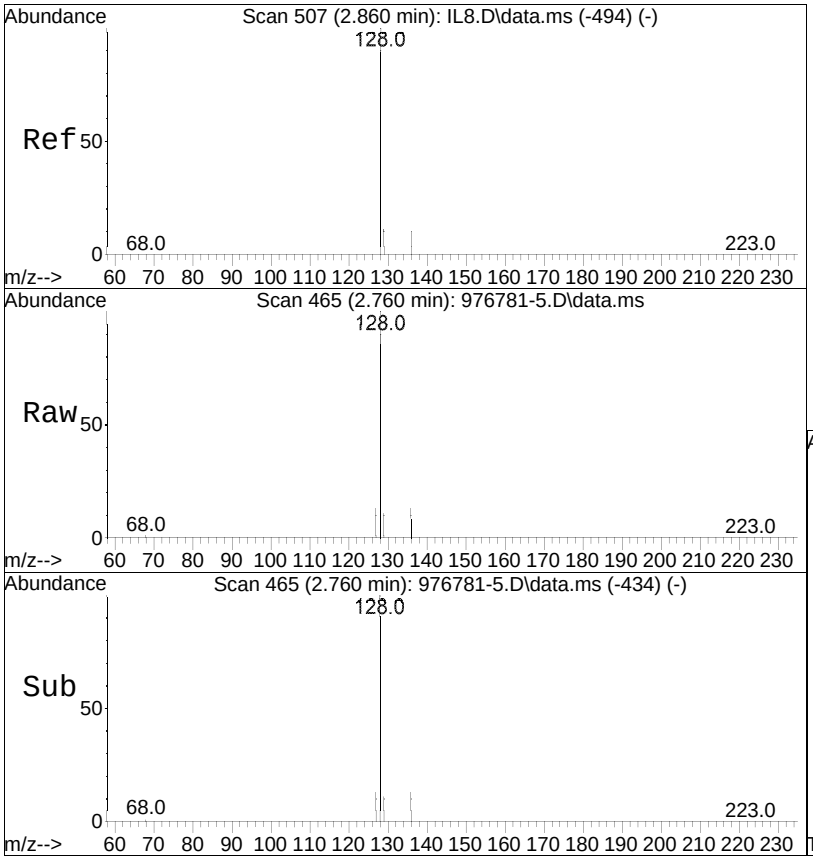


#6
Hexachloroethane
Concen: 1009.07 ng/ml
RT: 2.348 min Scan# 318
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:117 Resp: 48858

Ion	Ratio	Lower	Upper
117	100		
201	107.1	86.2	129.2

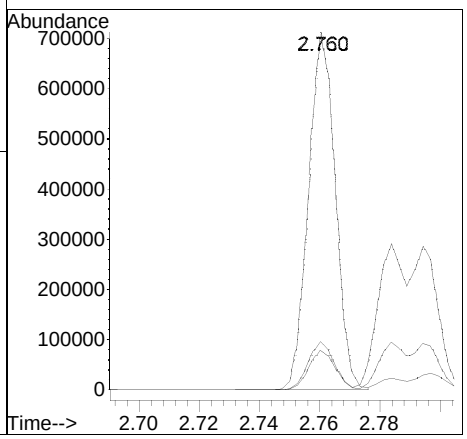


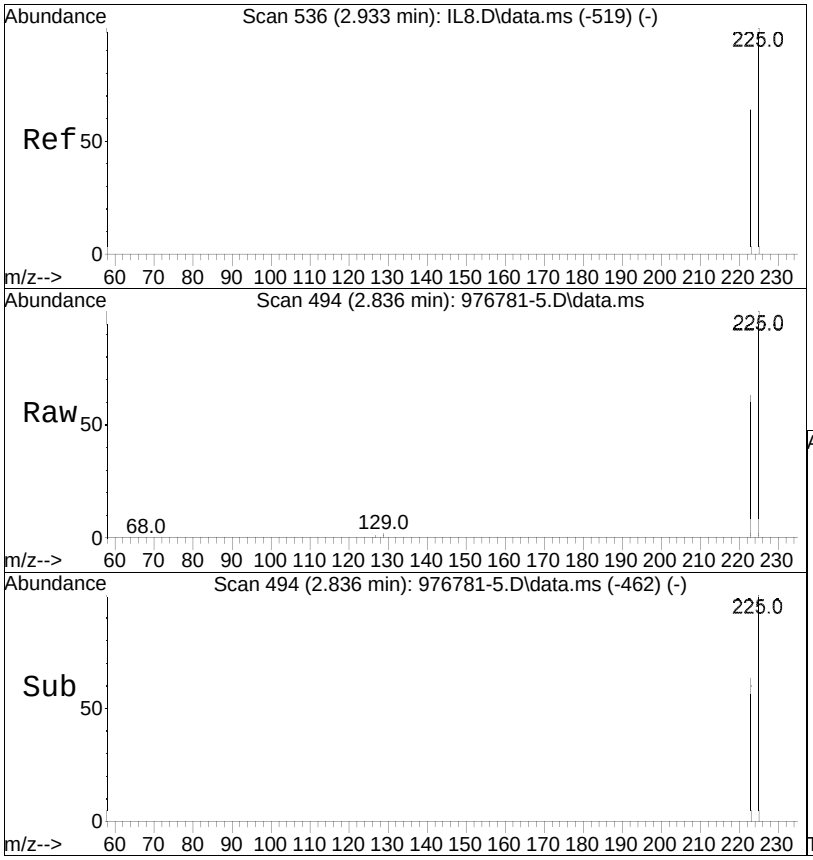


#9
Naphthalene
Concen: 1189.44 ng/ml
RT: 2.760 min Scan# 465
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:128 Resp: 436849

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.3	10.6	16.0

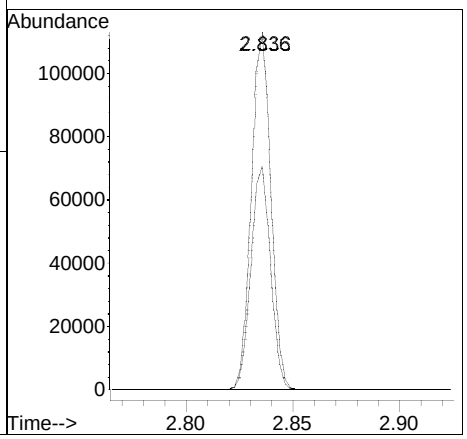


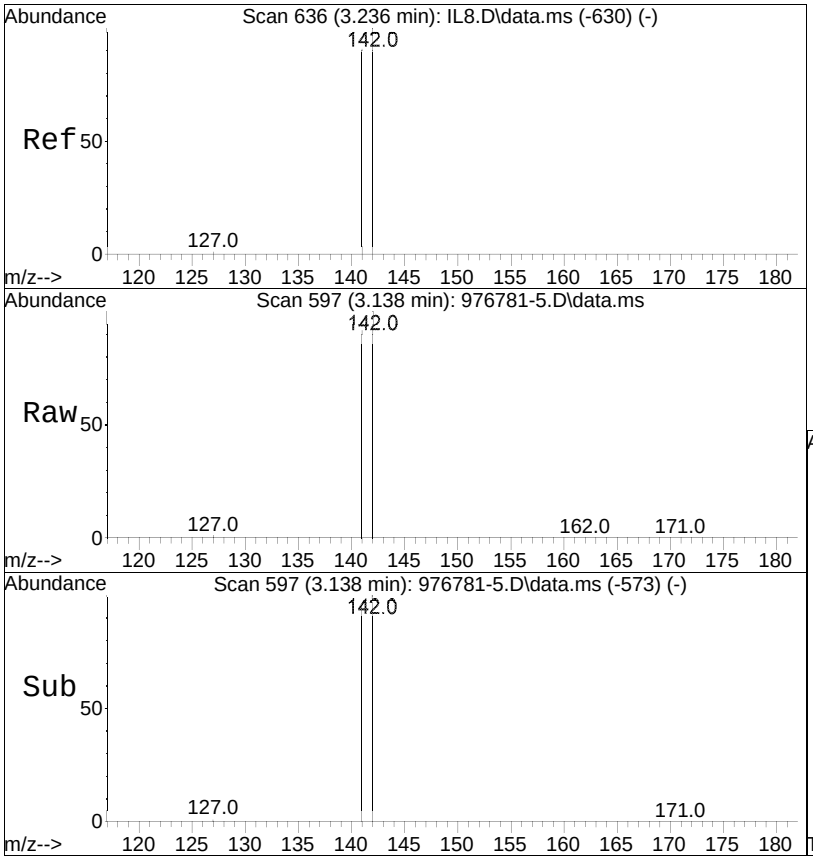


#10
Hexachlorobutadiene
Concen: 996.59 ng/ml
RT: 2.836 min Scan# 494
Delta R.T. 0.003 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:225 Resp: 70062

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5

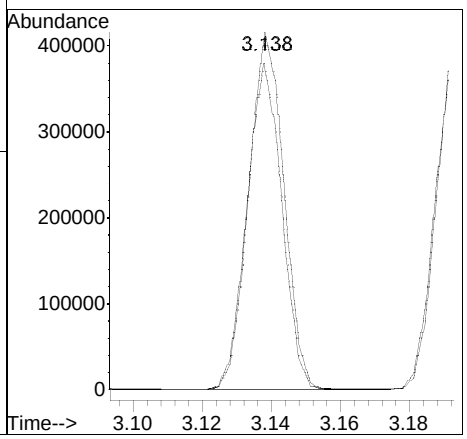


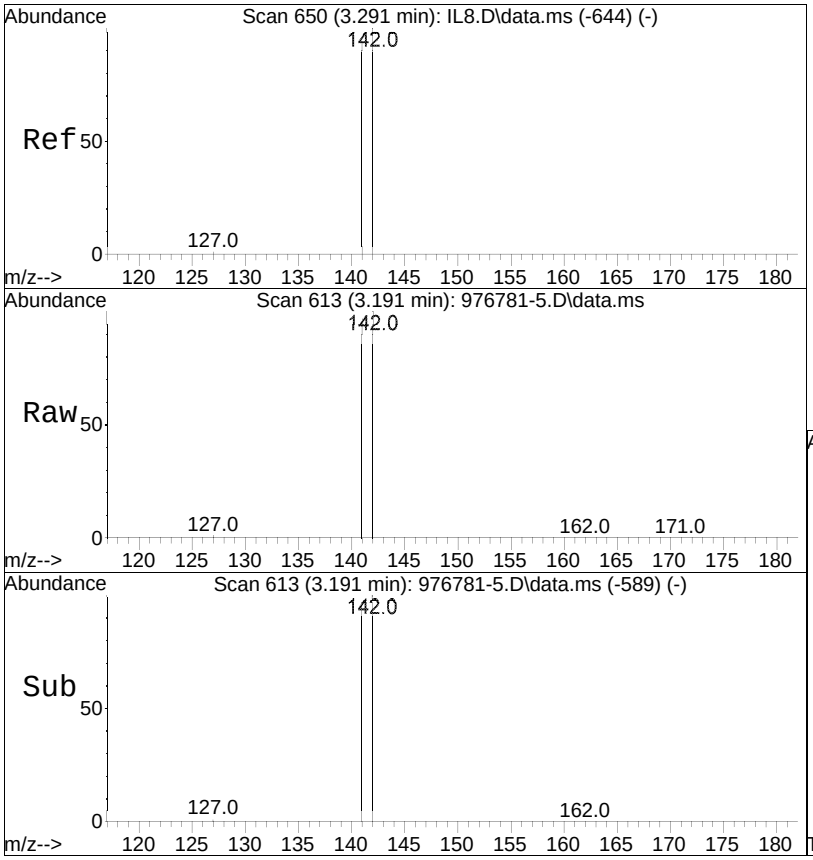


#11
2-Methylnaphthalene
Concen: 1267.56 ng/ml
RT: 3.138 min Scan# 597
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:142 Resp: 292816

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.3	109.9

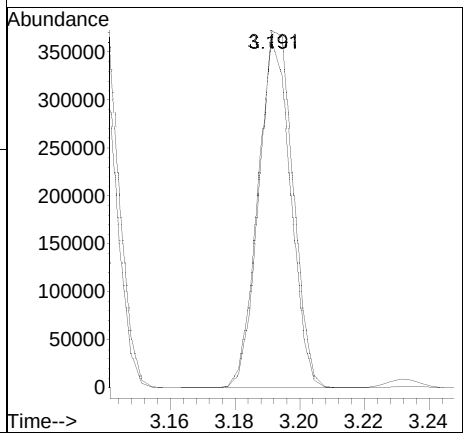


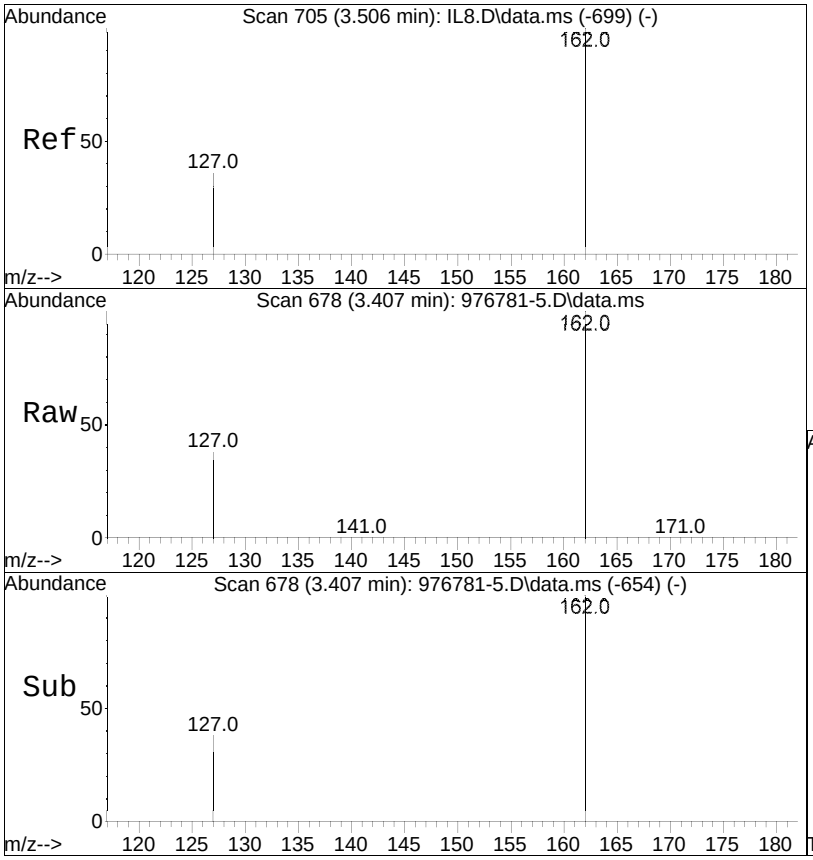


#12
1-Methylnaphthalene
Concen: 1218.79 ng/ml
RT: 3.191 min Scan# 613
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:142 Resp: 271625

Ion	Ratio	Lower	Upper
142	100		
141	94.1	74.9	112.3

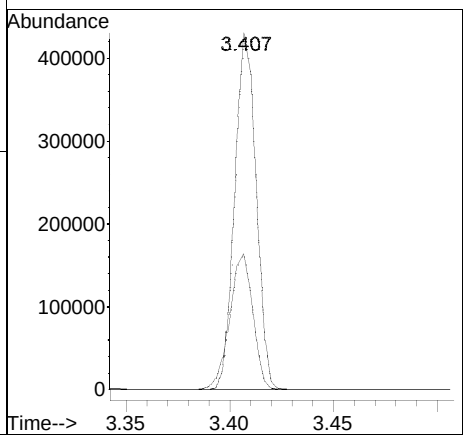


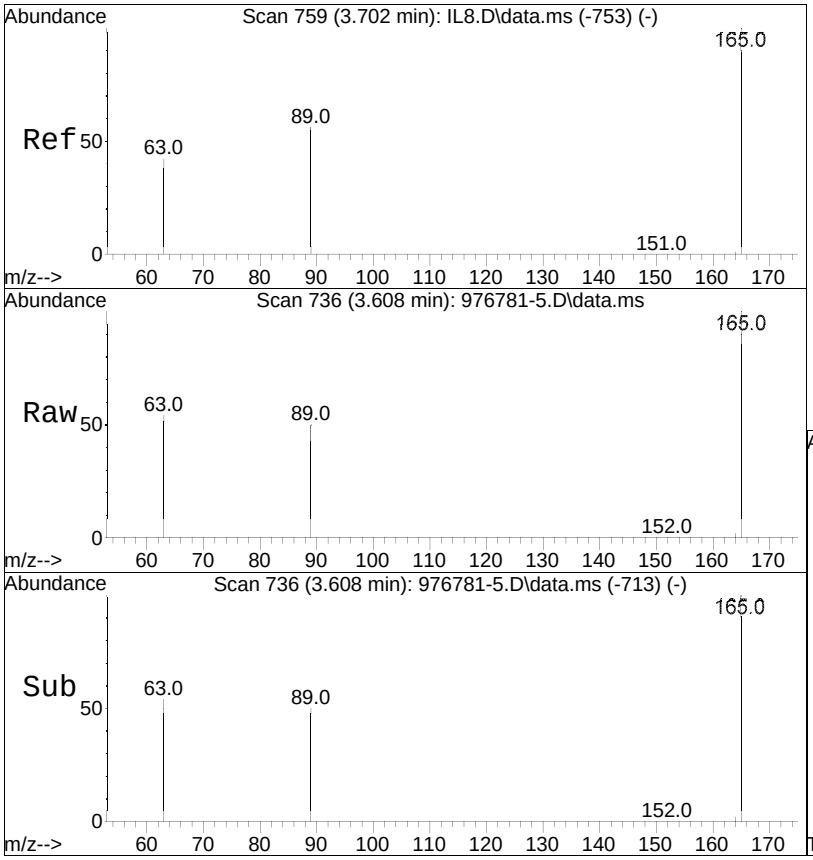


#14
2-Chloronaphthalene
Concen: 1261.94 ng/ml
RT: 3.407 min Scan# 678
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:162 Resp: 303778

Ion	Ratio	Lower	Upper
162	100		
127	41.5	30.1	45.1

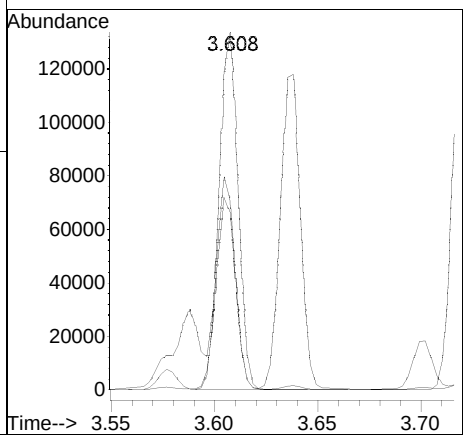


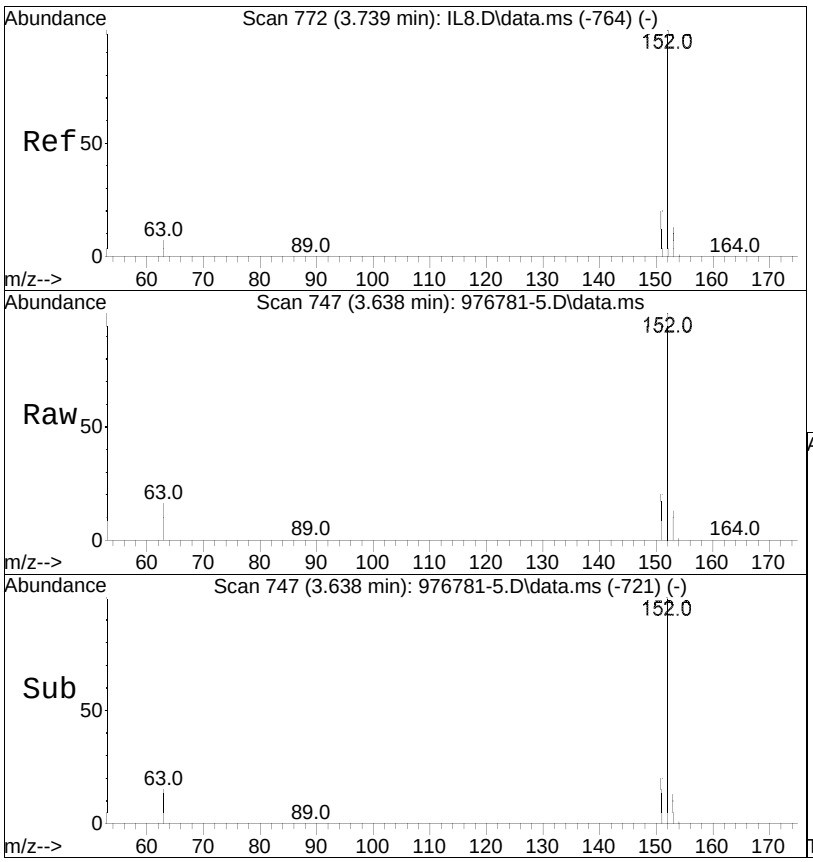


#15
2,6-Dinitrotoluene
Concen: 1425.87 ng/ml
RT: 3.608 min Scan# 736
Delta R.T. 0.004 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:165 Resp: 85888

Ion	Ratio	Lower	Upper
165	100		
89	54.9	44.0	66.0
63	58.2	47.5	71.3

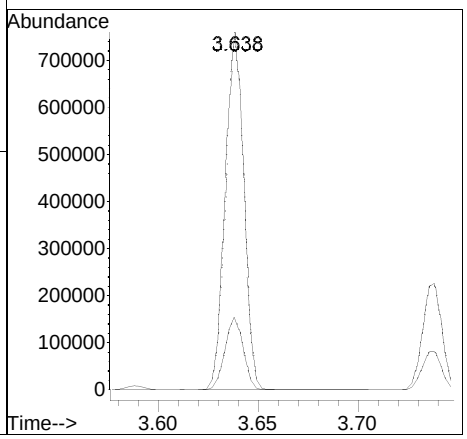


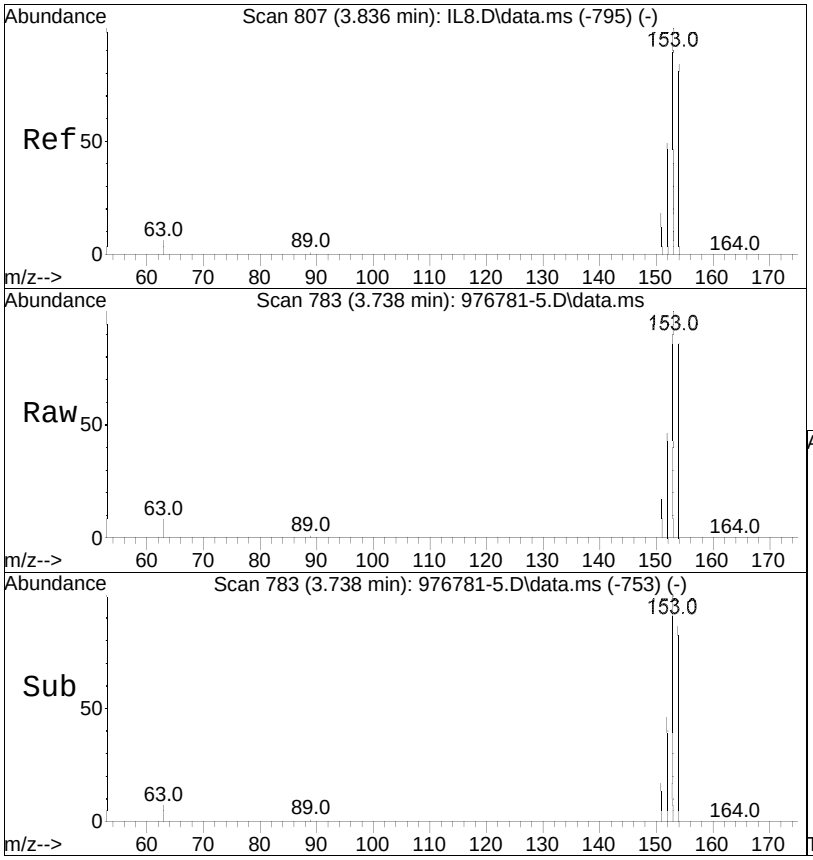


#16
Acenaphthylene
Concen: 1386.40 ng/ml
RT: 3.638 min Scan# 747
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:152 Resp: 485497

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2

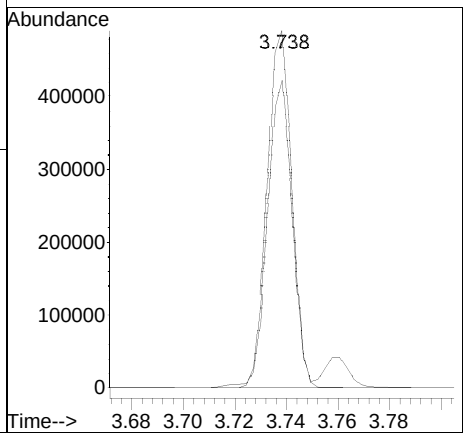


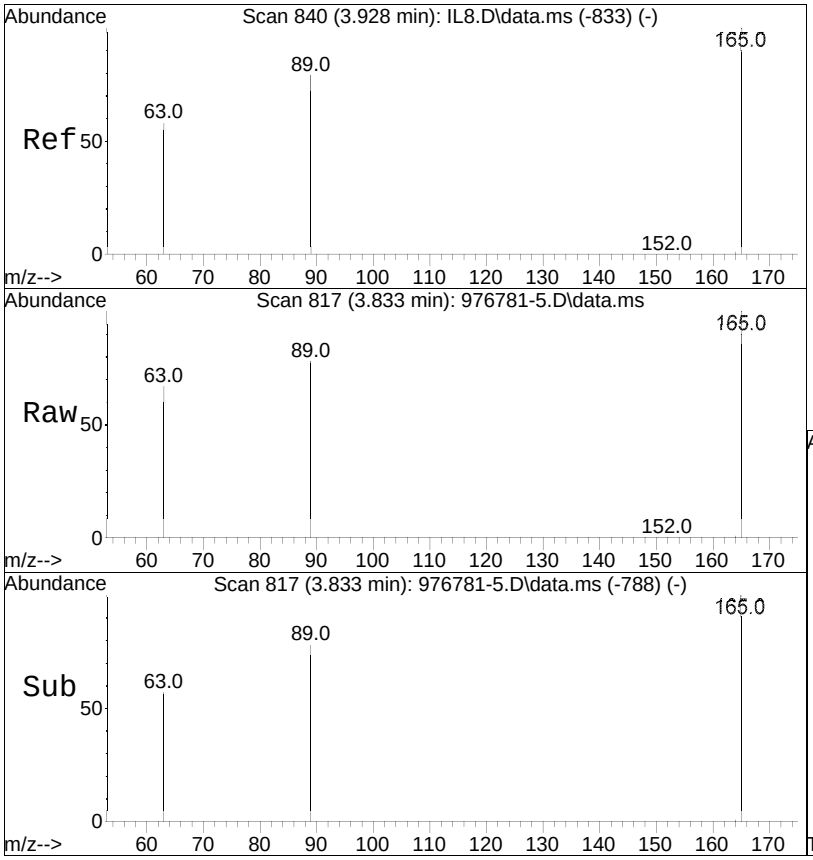


#18
Acenaphthene
Concen: 1340.94 ng/ml
RT: 3.738 min Scan# 783
Delta R.T. 0.004 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:153 Resp: 324541

Ion	Ratio	Lower	Upper
153	100		
154	86.2	69.1	103.7

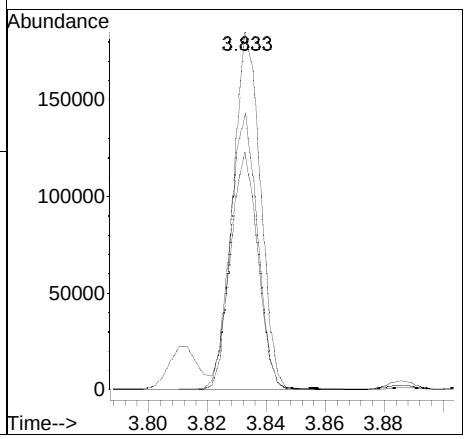


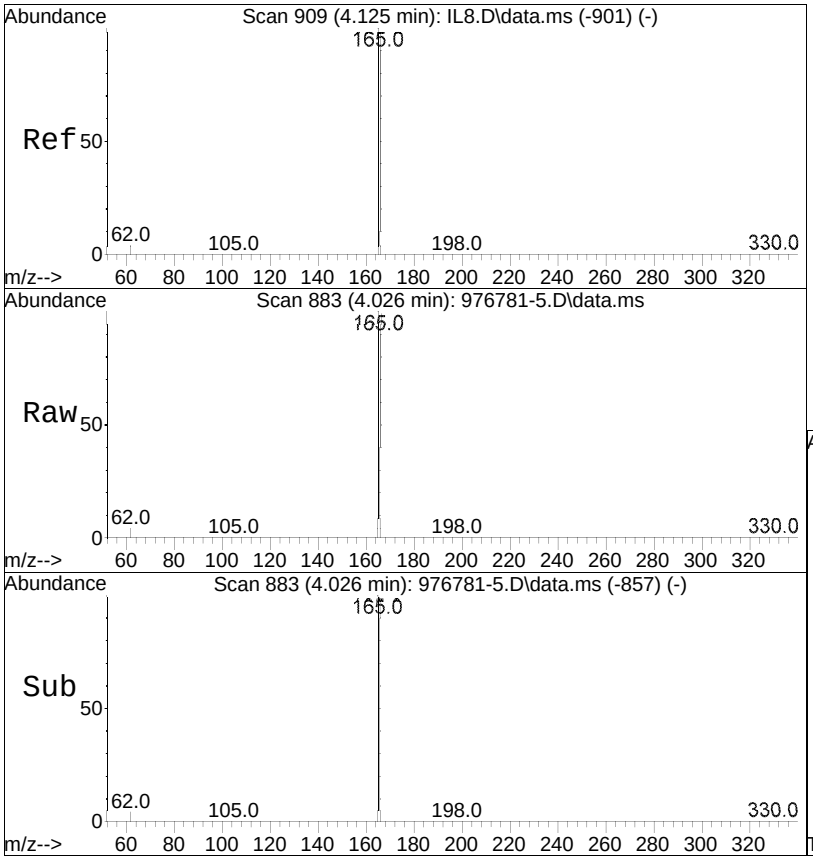


#19
2,4-Dinitrotoluene
Concen: 1483.81 ng/ml
RT: 3.833 min Scan# 817
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:165 Resp: 117477

Ion	Ratio	Lower	Upper
165	100		
89	77.6	64.6	96.8
63	66.2	56.5	84.7

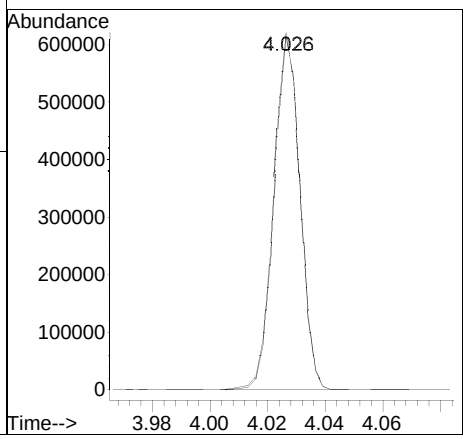


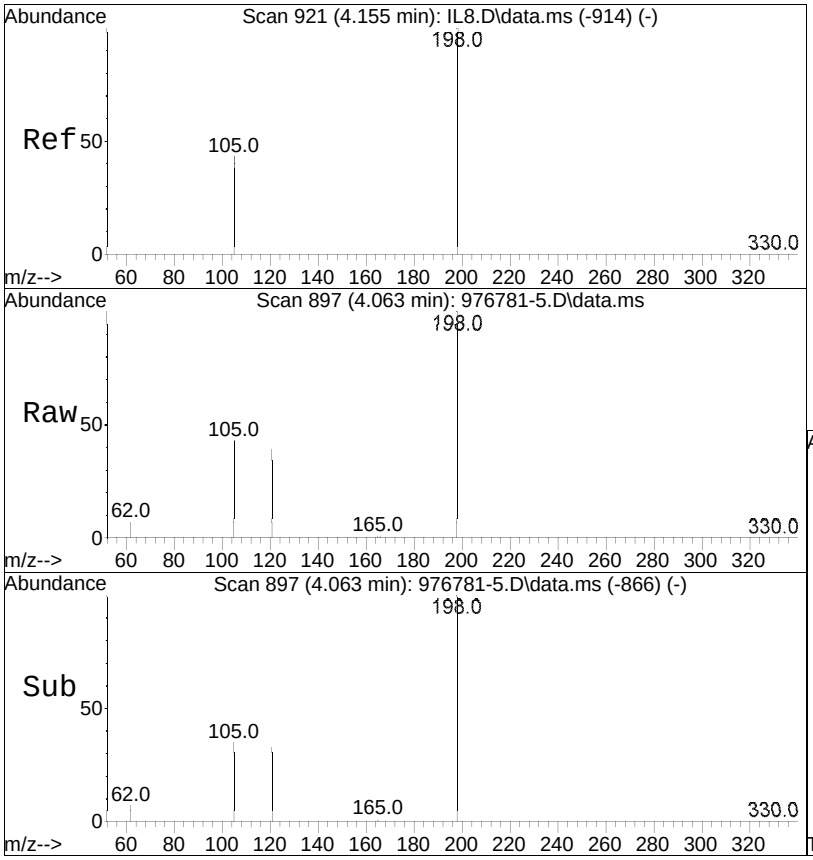


#20
Fluorene
Concen: 1440.32 ng/ml
RT: 4.026 min Scan# 883
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:166 Resp: 385026

Ion	Ratio	Lower	Upper
166	100		
165	101.6	81.4	122.2

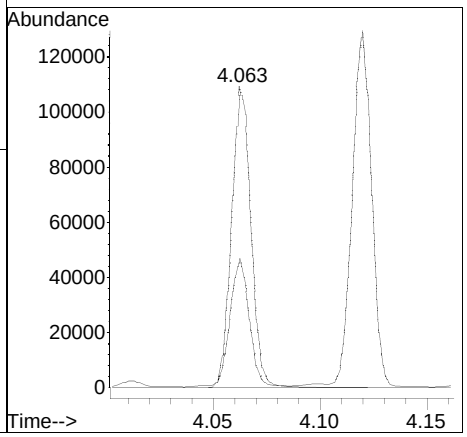


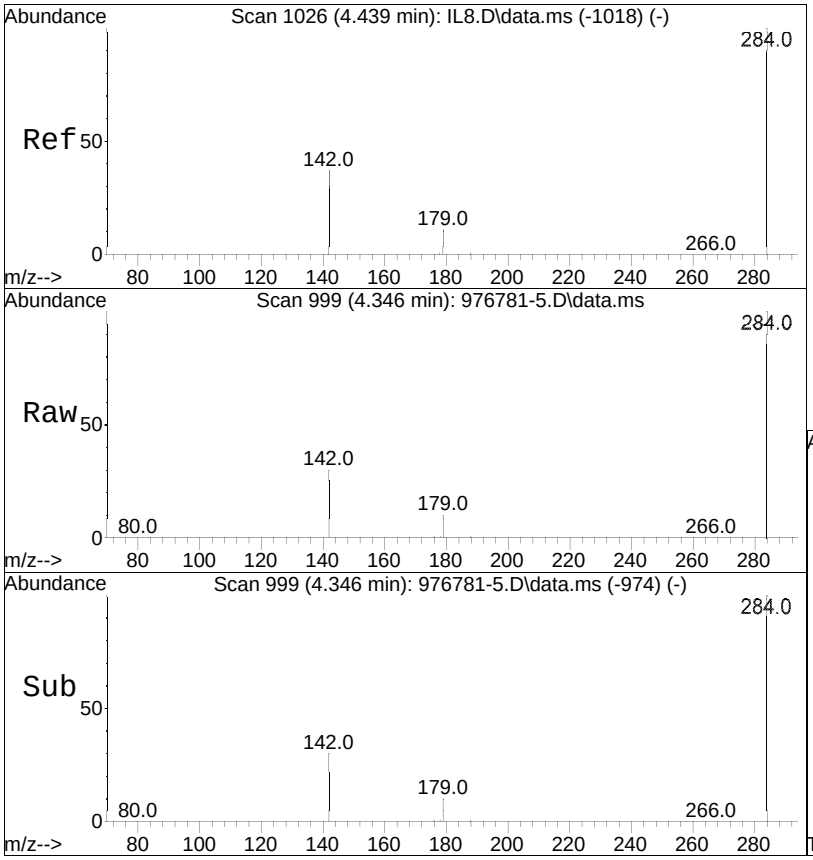


#23
4,6-Dinitro-o-cresol
Concen: 1512.50 ng/ml
RT: 4.063 min Scan# 897
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:198 Resp: 68620

Ion	Ratio	Lower	Upper
198	100		
105	42.4	34.9	52.3

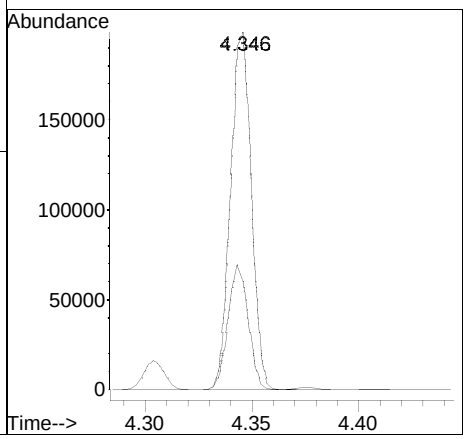


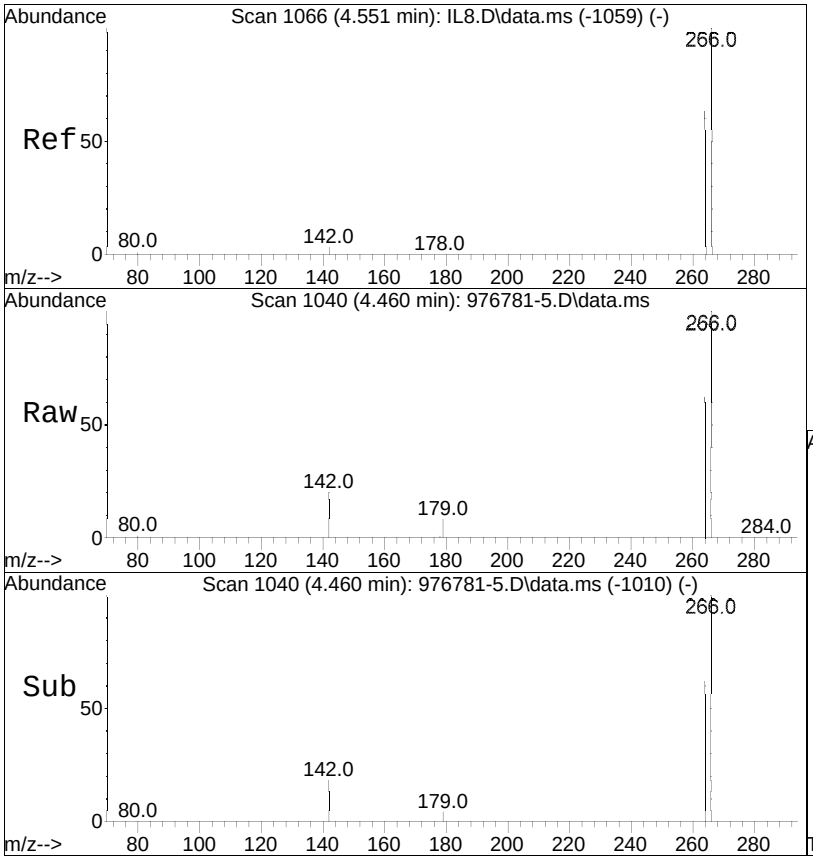


#24
Hexachlorobenzene
Concen: 1479.06 ng/ml
RT: 4.346 min Scan# 999
Delta R.T. 0.004 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:284 Resp: 132573

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.6	40.0

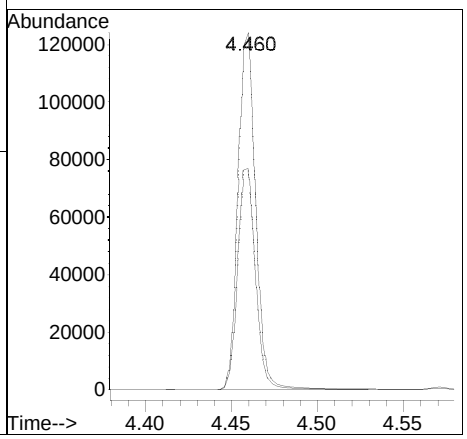


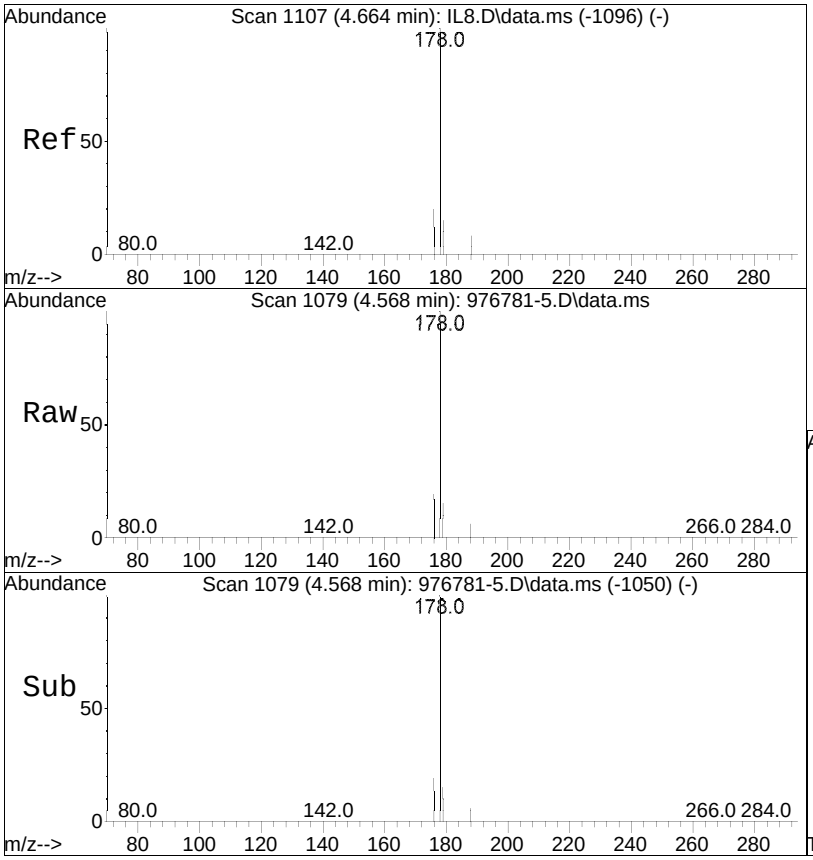


#25
Pentachlorophenol
Concen: 1777.20 ng/ml
RT: 4.460 min Scan# 1040
Delta R.T. 0.004 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:266 Resp: 87644

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.2	75.4

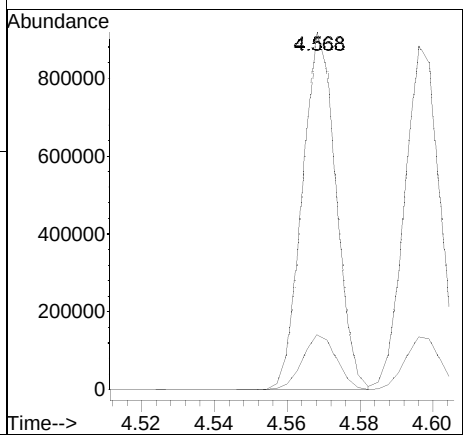


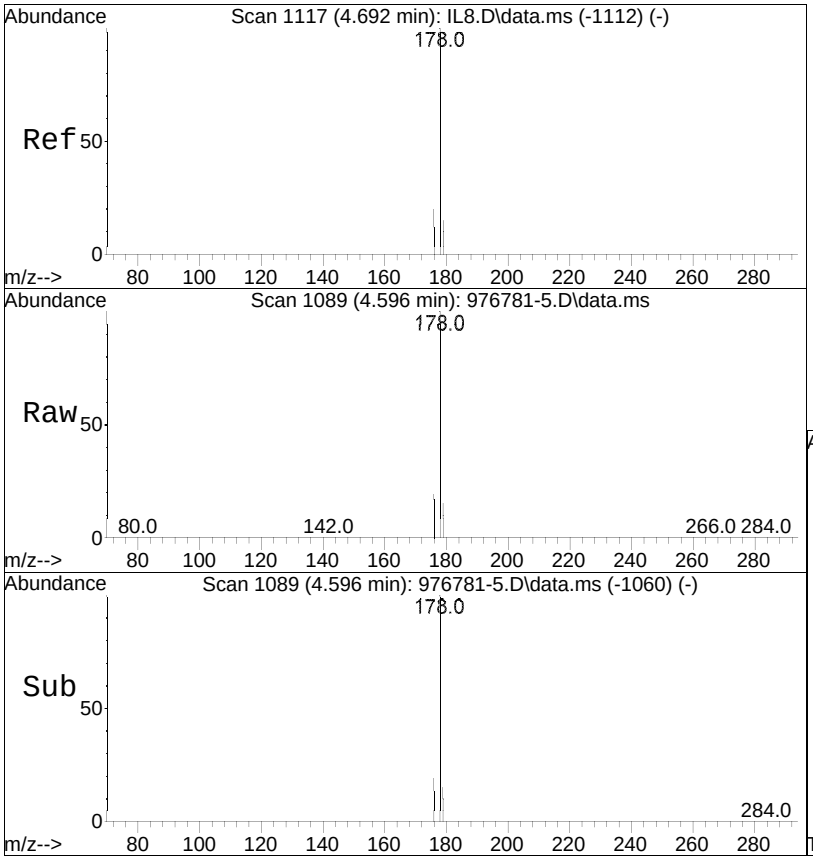


#26
Phenanthrene
Concen: 1501.47 ng/ml
RT: 4.568 min Scan# 1079
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:178 Resp: 589311

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

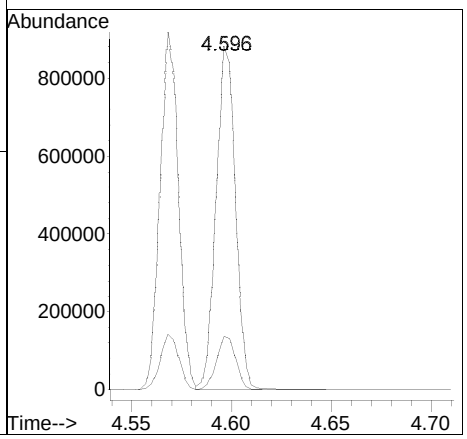


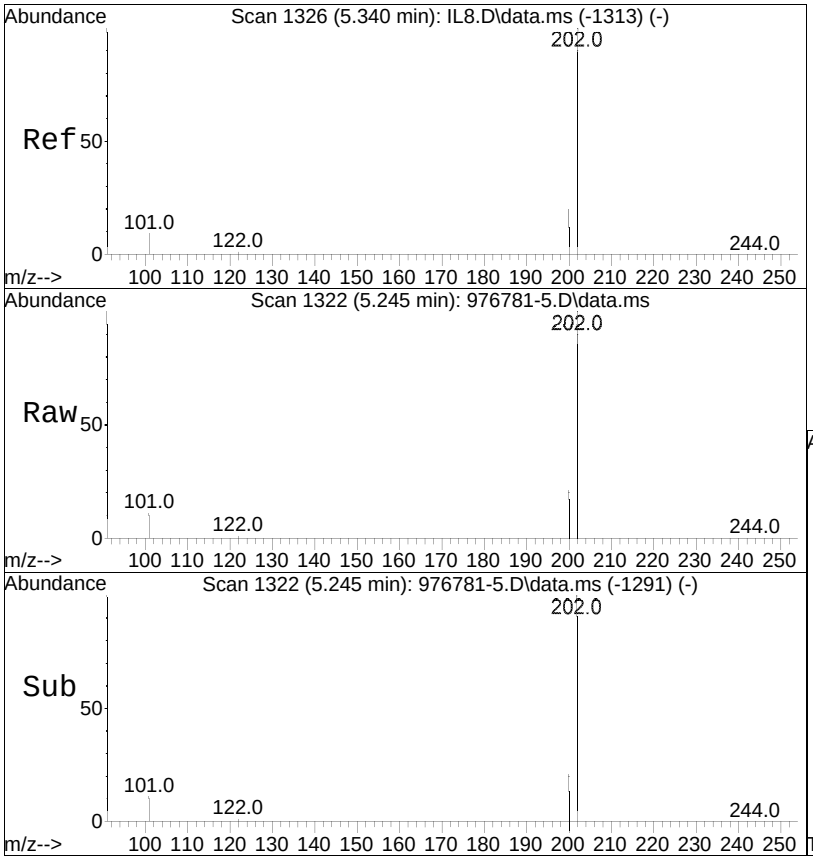


#27
Anthracene
Concen: 1546.20 ng/ml
RT: 4.596 min Scan# 1089
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:178 Resp: 595411

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

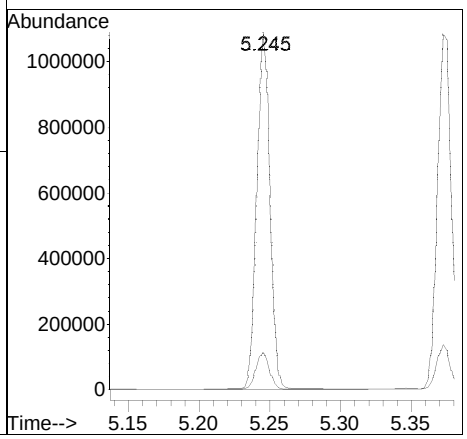


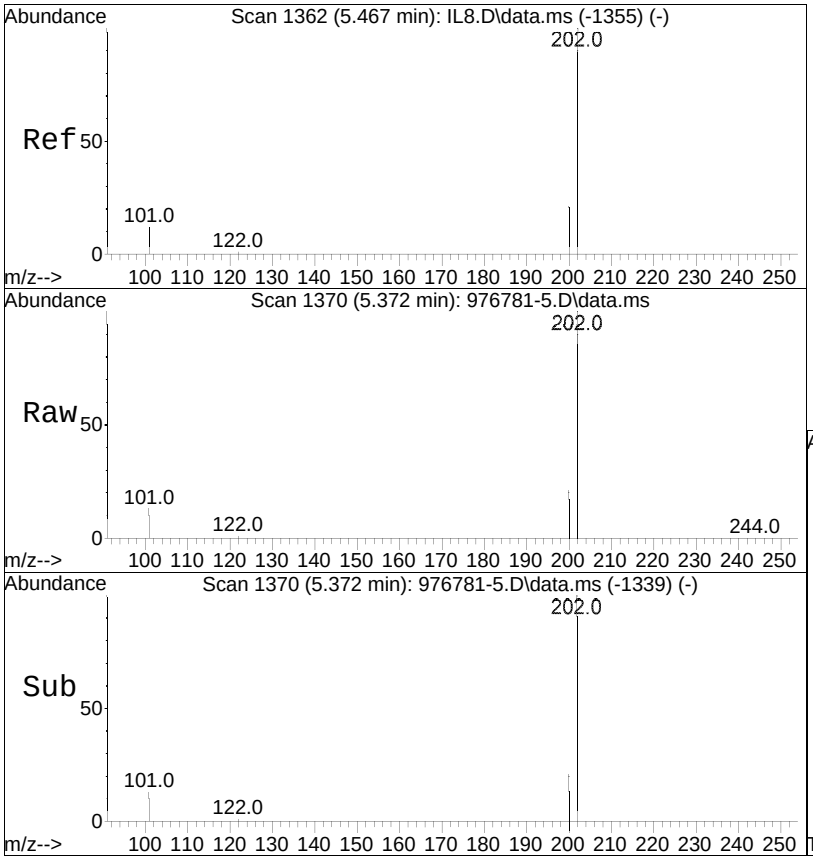


#28
Fluoranthene
Concen: 1565.80 ng/ml
RT: 5.245 min Scan# 1322
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:202 Resp: 711666

Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.3	12.5

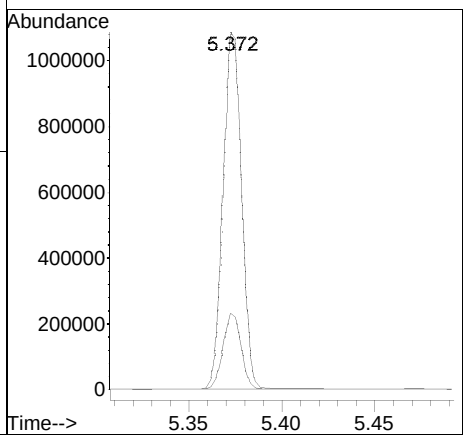


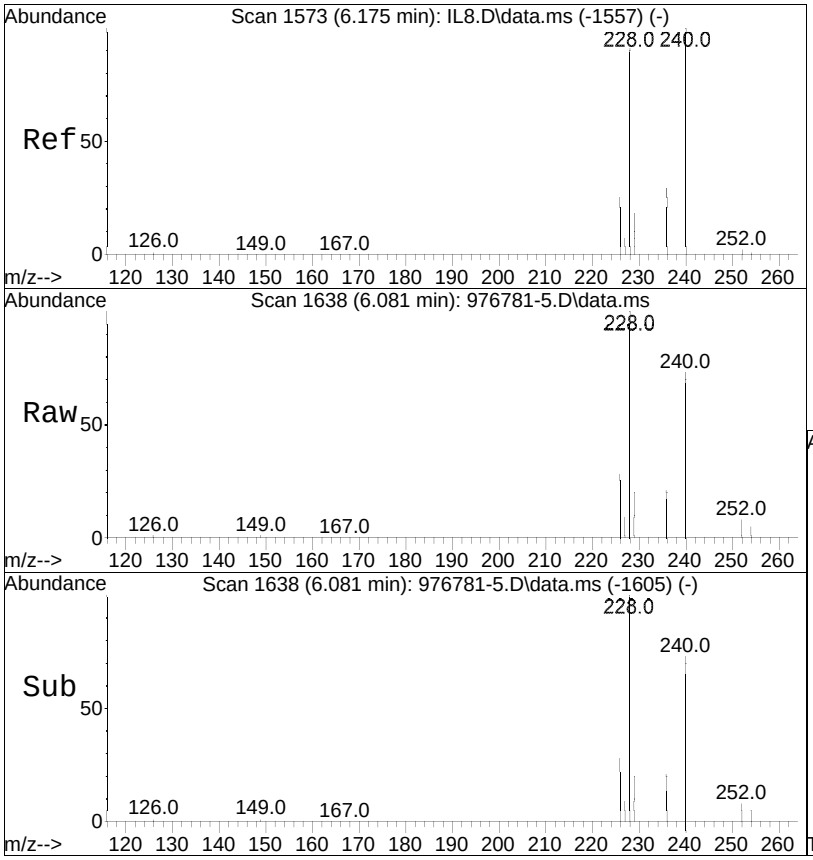


#29
Pyrene
Concen: 1538.02 ng/ml
RT: 5.372 min Scan# 1370
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:202 Resp: 739214

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

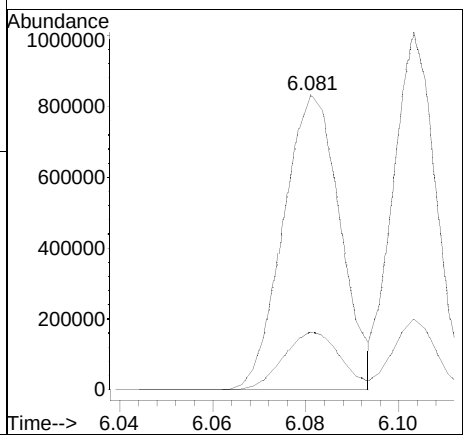


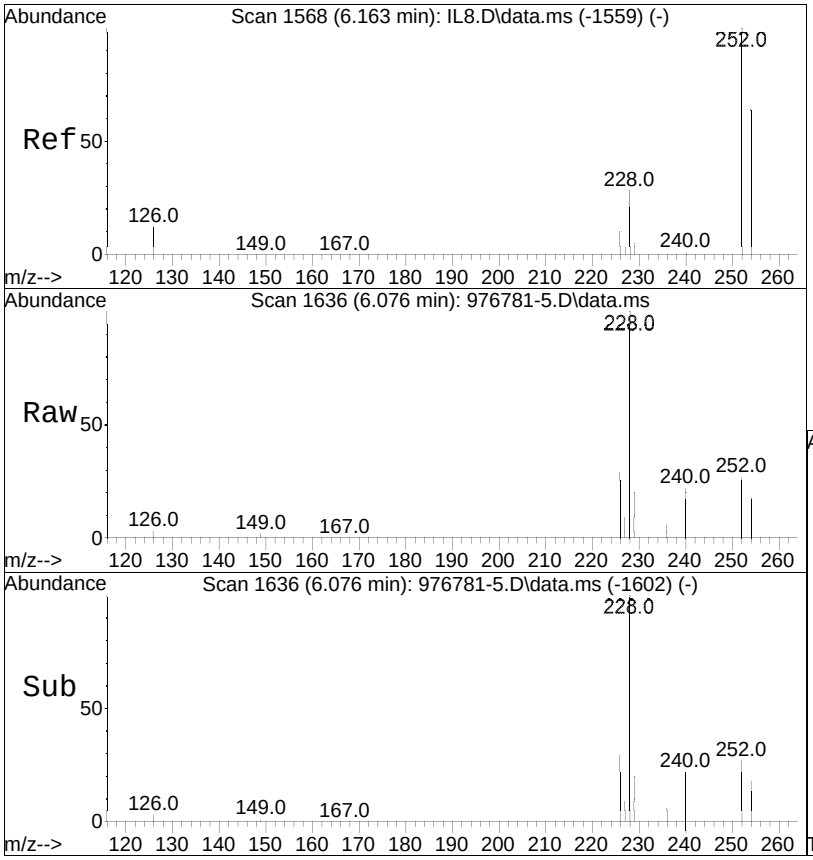


#32
Benzo[a]anthracene
Concen: 1725.36 ng/ml
RT: 6.081 min Scan# 1638
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:228 Resp: 709927

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

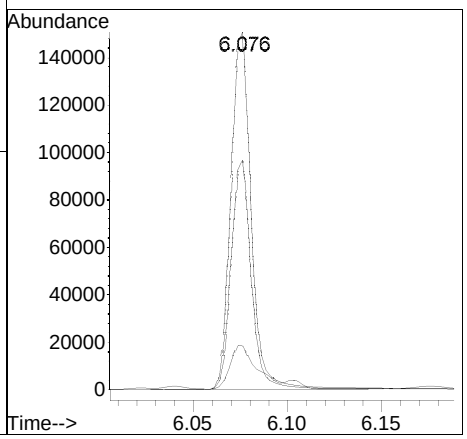


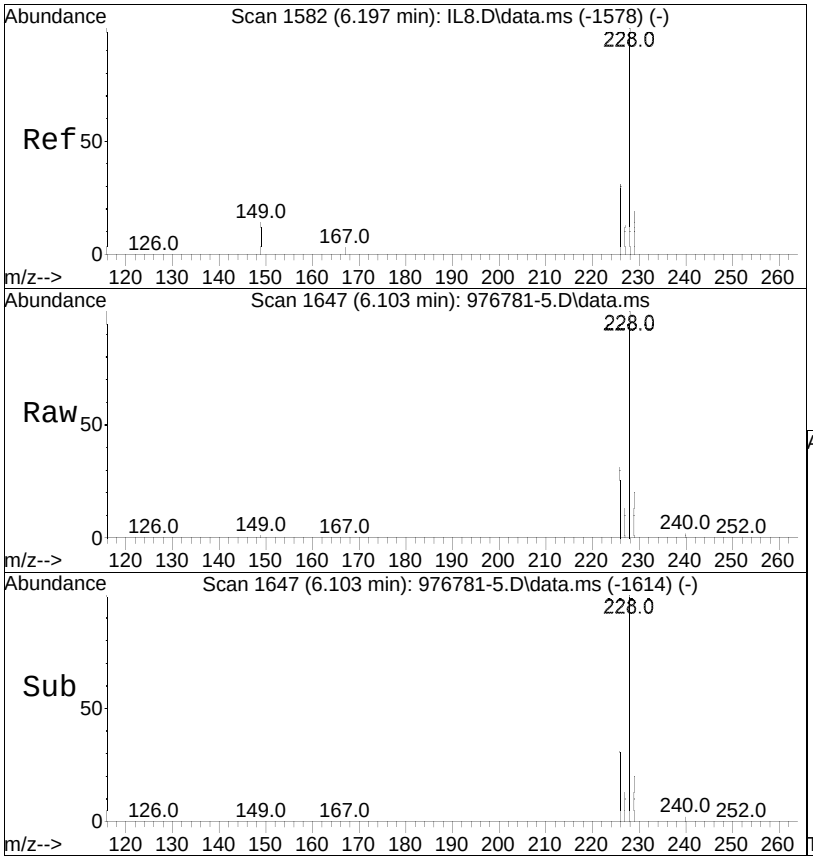


#33
3,3'-Dichlorobenzene
Concen: 759.40 ng/ml
RT: 6.076 min Scan# 1636
Delta R.T. 0.004 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:252 Resp: 111712

Ion	Ratio	Lower	Upper
252	100		
126	16.0	11.3	16.9
254	63.0	51.4	77.0

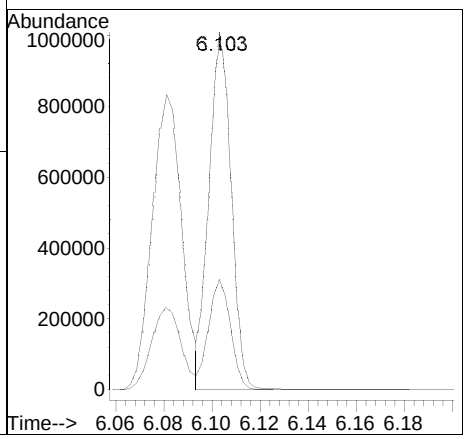


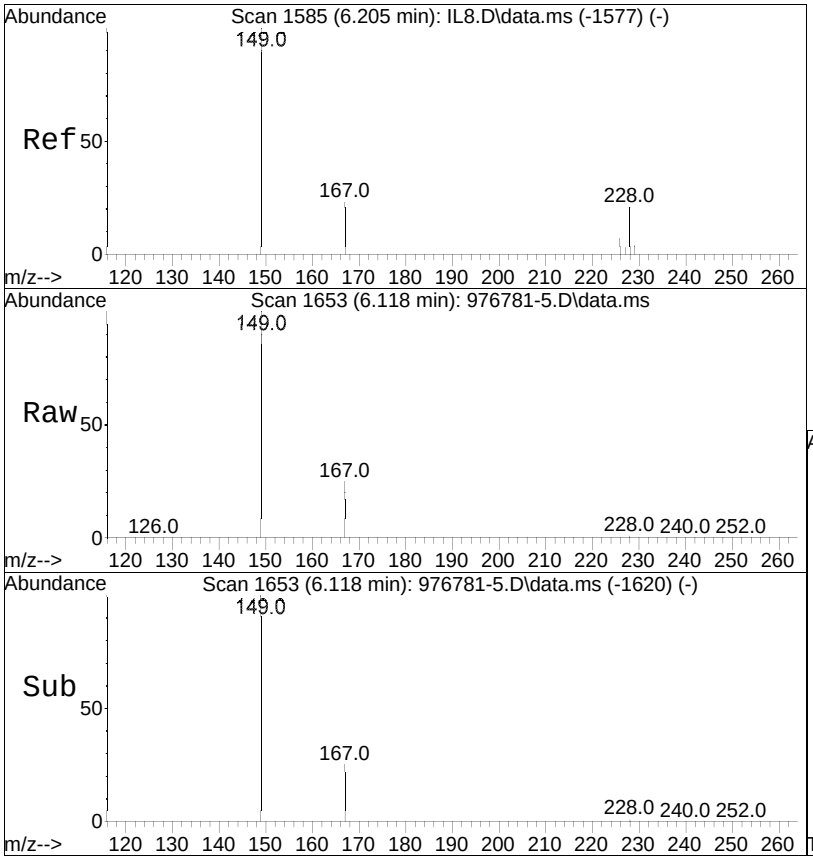


#34
Chrysene
Concen: 1650.20 ng/ml
RT: 6.103 min Scan# 1647
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:228 Resp: 643189

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	36.8

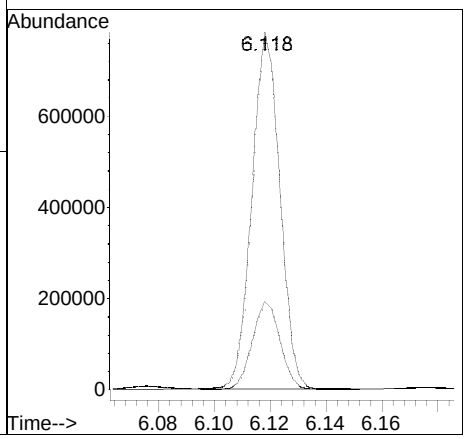


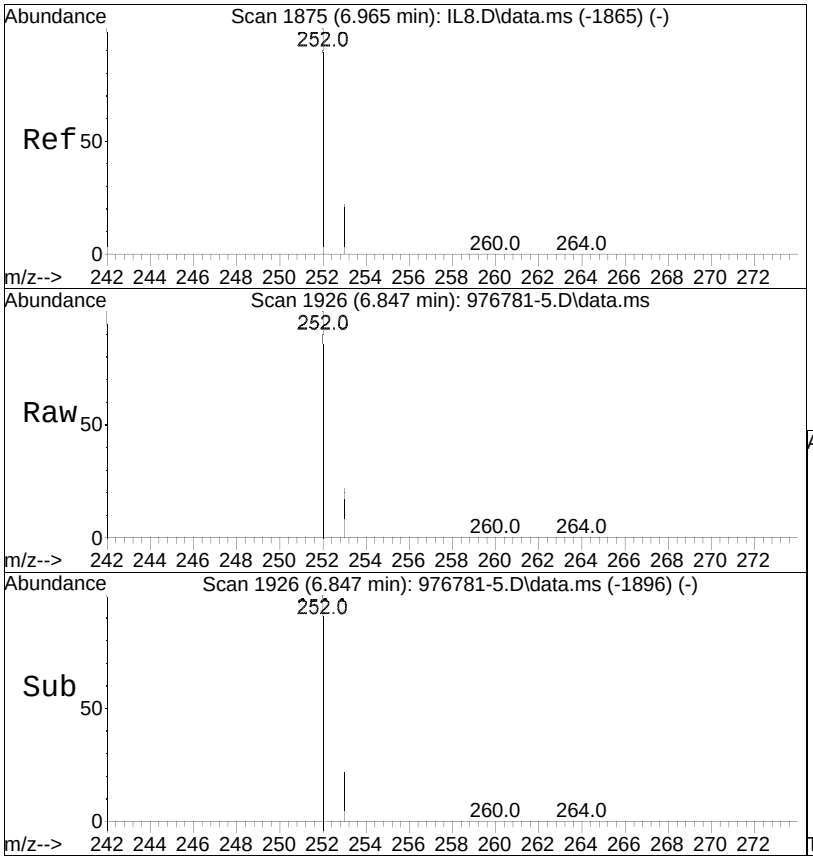


#35
Bis(2-ethylhexyl)phthalate
Concen: 2136.98 ng/ml
RT: 6.118 min Scan# 1653
Delta R.T. 0.001 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:149 Resp: 536207

Ion	Ratio	Lower	Upper
149	100		
167	24.5	19.5	29.3

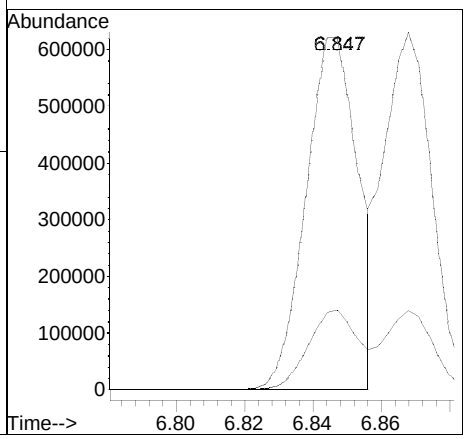


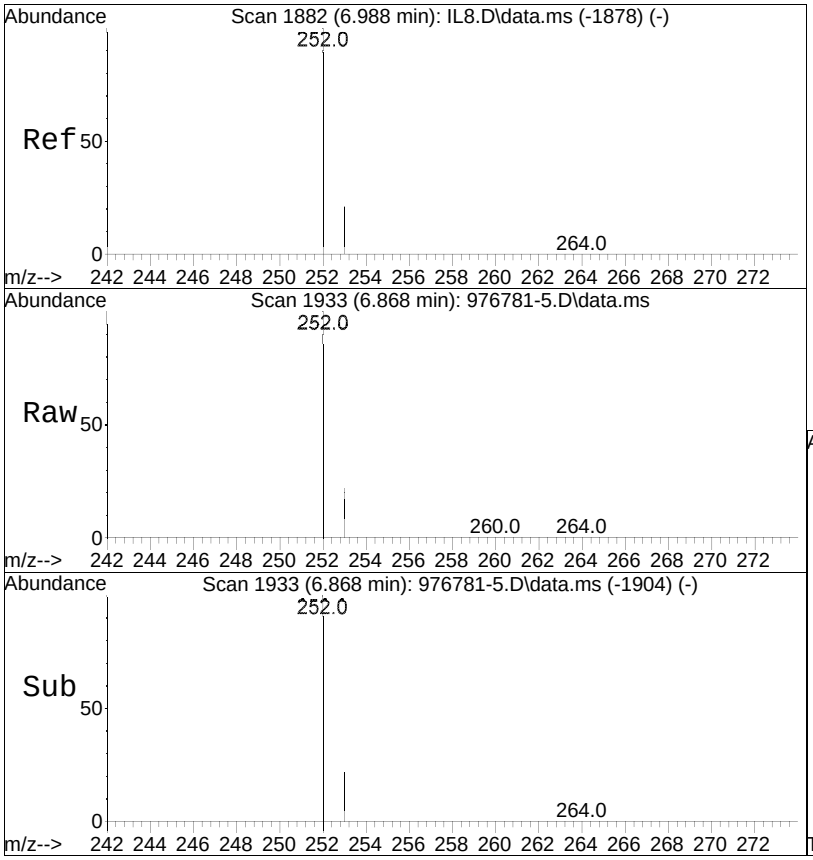


#37
Benzo[b]fluoranthene
Concen: 1781.89 ng/ml
RT: 6.847 min Scan# 1926
Delta R.T. 0.007 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:252 Resp: 655884

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

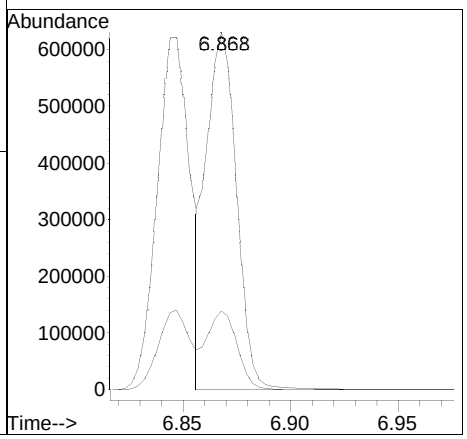


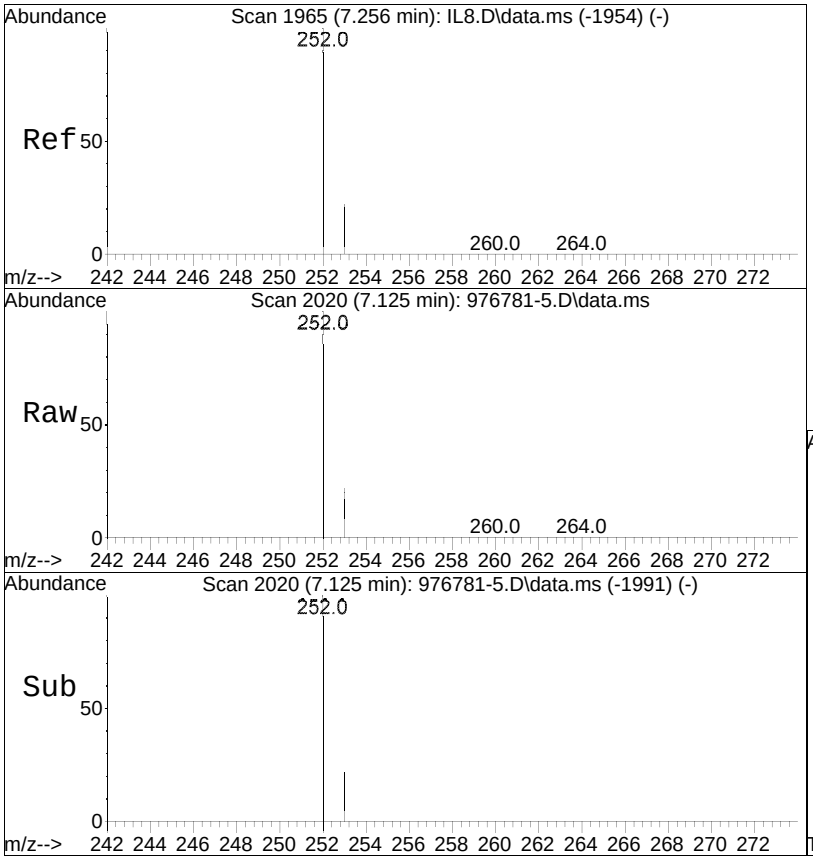


#38
Benzo[k]fluoranthene
Concen: 1701.32 ng/ml
RT: 6.868 min Scan# 1933
Delta R.T. 0.005 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:252 Resp: 614412

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3

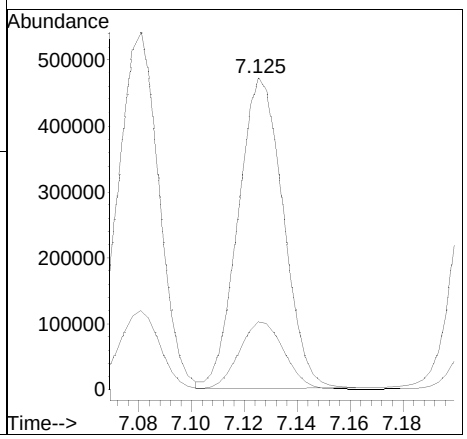


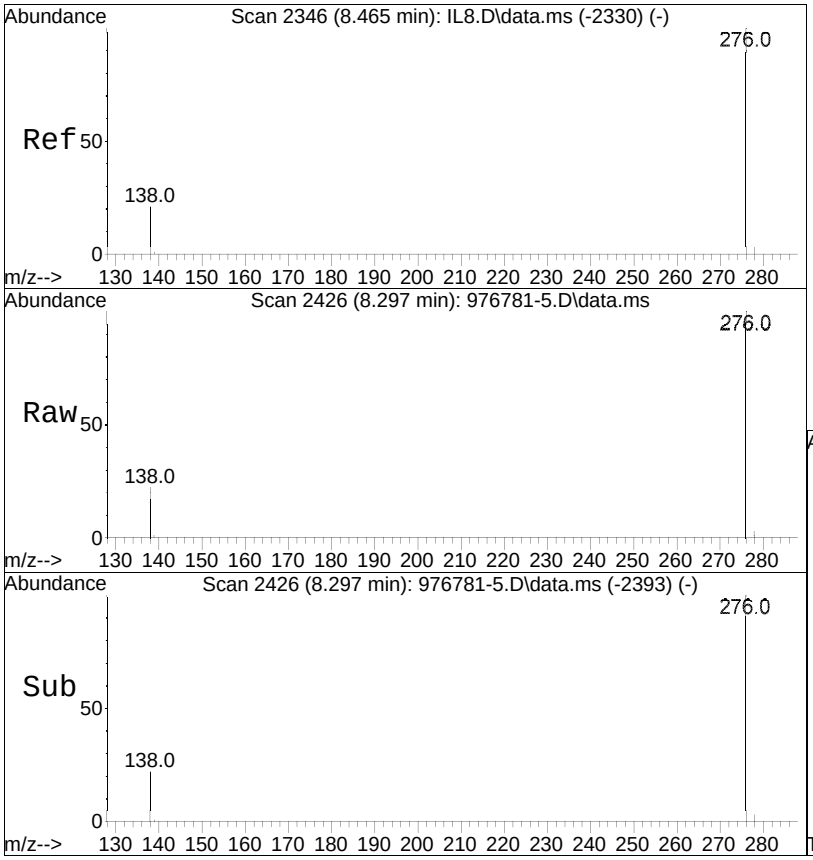


#39
Benzo[a]pyrene
Concen: 1766.60 ng/ml
RT: 7.125 min Scan# 2020
Delta R.T. 0.005 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:252 Resp: 556688

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

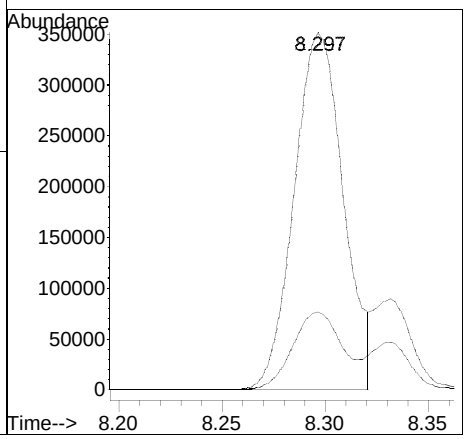


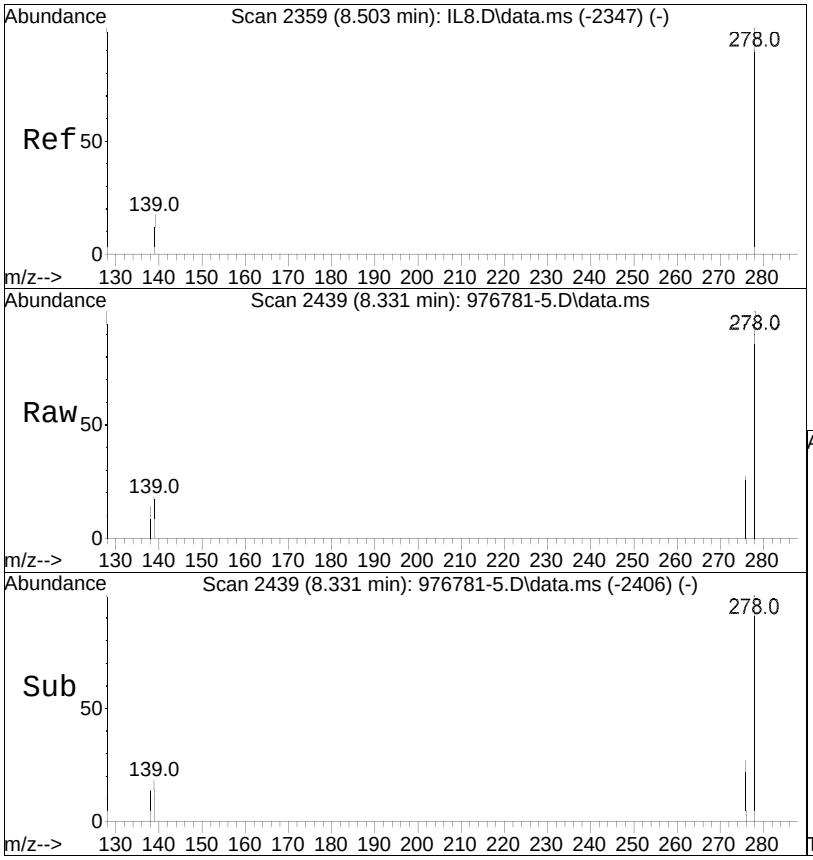


#40
Indeno[1,2,3-cd]pyrene
Concen: 1866.53 ng/ml
RT: 8.297 min Scan# 2426
Delta R.T. 0.010 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:276 Resp: 578351

Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.5	24.7

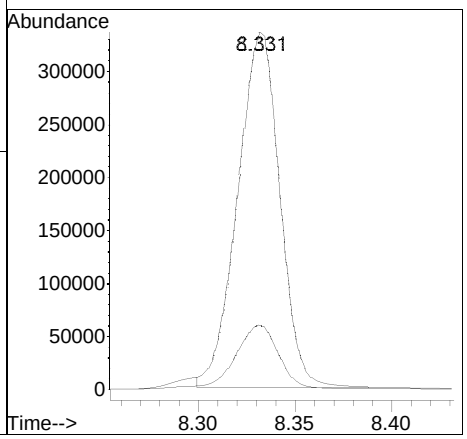


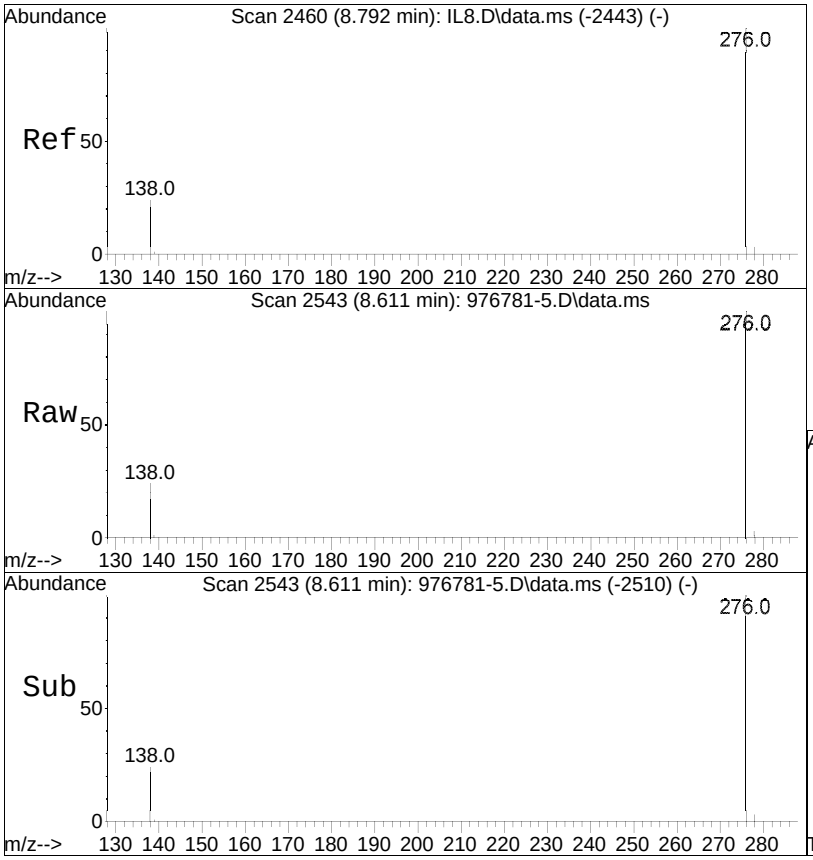


#41
Dibenzo[a,h]anthracene
Concen: 1729.39 ng/ml M6
RT: 8.331 min Scan# 2439
Delta R.T. 0.010 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:278 Resp: 506341

Ion	Ratio	Lower	Upper
278	100		
139	18.9	14.5	21.7

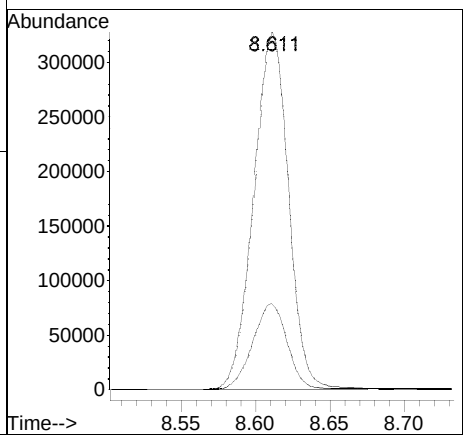




#42
Benzo[g,h,i]perylene
Concen: 1672.27 ng/ml
RT: 8.611 min Scan# 2543
Delta R.T. 0.010 min
Lab File: 976781-5.D
Acq: 27 Sep 2024 12:59 pm

Tgt Ion:276 Resp: 525726

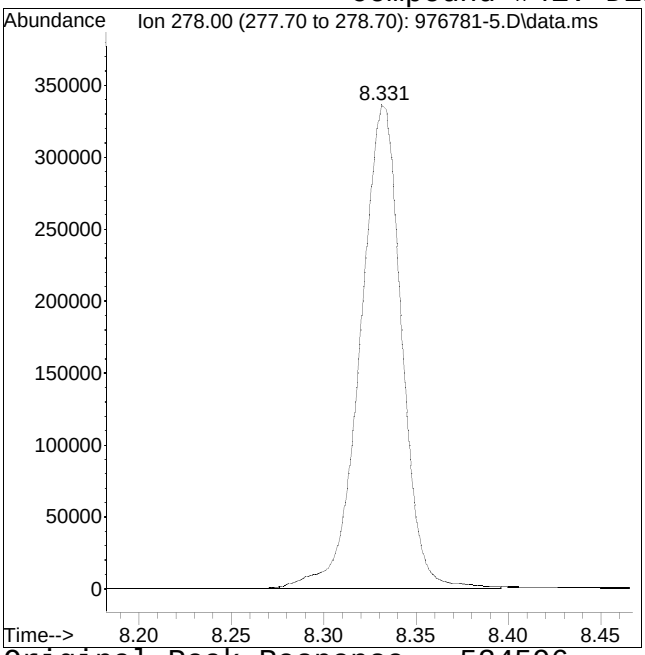
Ion	Ratio	Lower	Upper
276	100		
138	24.3	18.6	27.8



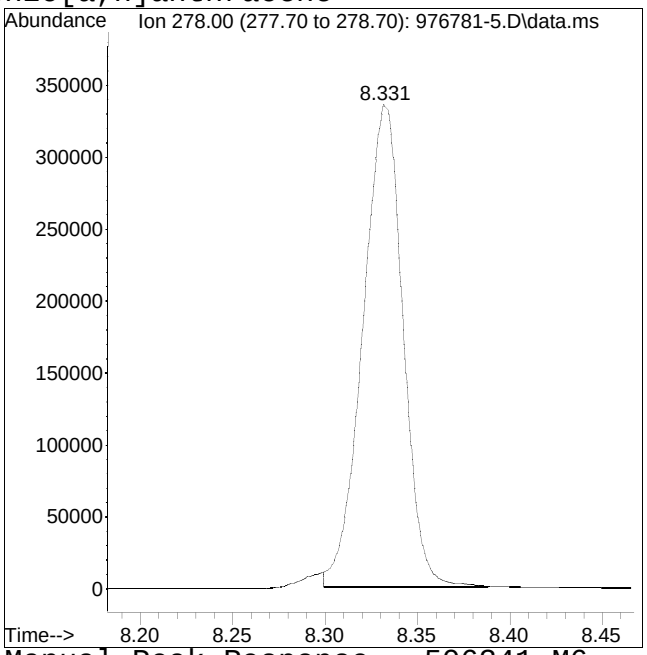
Manual Integration Report

Data Path : I:\8270SIM\sv120\240927RVTQMethod : SIM-RVT_240925_sv120.M
Data File : 976781-5.D Operator : SV120:dv
Date Inj'd : 9/27/2024 12:59 pm Instrument : SV120
Sample : WG1976781-5,32,,kmh Quant Date : 9/27/2024 1:12 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 524596



Manual Peak Response = 506341 M6

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 06:17 am

Work Group: WG1976781 for Department: 2 Organic Preparation

Created: 26-SEP-24 Due: Operator: YDA

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2454059-01	MW-4S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454059-02	MW-4D2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454075-03	SMP-MW-09	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454092-01	HA-MW-04	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454092-02	HA-MW-03	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454092-03	DUP01-20240919	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454092-05	FB-20240919	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454402-01	HA-MW-06	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454402-02	HA-MW-02	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454402-03	HA-MW-01	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454402-05	FB-20240920	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454675-02	SMP-MW-04	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0930	0930	S0	Amber-A.1
L2454678-01	TMW-04	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0930	0930	S0	Amber-A.1
L2455026-01	MW-19	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1001	0927	1C	Amber-A.1
L2455026-02	FB 2024-09-24	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1001	0927	1C	Amber-A.1
WG1976781-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1976781-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1976781-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1976781-4	Matrix Spike	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1976781-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1976781-3	WG1976781-2
WG1976781-4	L2454092-01
WG1976781-5	L2454092-01

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\sv120\240925RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	IL10.D	fast-SIM-RVT	IL10,32,,5000.0ng/mL lo	WG1976347	9/25/2024 12:46 am
2	TUNE.D	DFTPPRVT.M	TUNE Lot#11037	WG1976347	9/25/2024 12:30 am
3	IL9.D	fast-SIM-RVT	IL9,32,,2500.0ng/mL lot	WG1976347	9/25/2024 1:03 am
4	IL8.D	fast-SIM-RVT	IL8,32,,1000.0ng/mL lot	WG1976347	9/25/2024 1:19 am
5	IL7.D	fast-SIM-RVT	IL7,32,,500.0ng/mL lot#	WG1976347	9/25/2024 1:35 am
6	IL6.D	fast-SIM-RVT	IL6,32,,100.0ng/mL lot#	WG1976347	9/25/2024 1:52 am
7	IL5.D	fast-SIM-RVT	IL5,32,,40.0ng/mL lot#	WG1976347	9/25/2024 2:11 am
8	IL4.D	fast-SIM-RVT	IL4,32,,10.0ng/mL lot#1	WG1976347	9/25/2024 2:29 am
9	IL3.D	fast-SIM-RVT	IL3,32,,5.0ng/mL lot# 1	WG1976347	9/25/2024 2:45 am
10	IL2.D	fast-SIM-RVT	IL2,32,,2.0ng/mL lot# 1	WG1976347	9/25/2024 3:02 am
11	IL1.D	fast-SIM-RVT	IL1,32,,1.0ng/mL lot# 1	WG1976347	9/25/2024 3:18 am
12	ICV.D	fast-SIM-RVT	CQICV,32,,1000.0ng/mL l	WG1976347	9/25/2024 3:35 am
13	insblk.D	fast-SIM-RVT	instrument blank	WG1976347	9/25/2024 3:51 am

Dep.: GCMS
Inst: SV120
Date: **09/27/24**
Run:

Method
GC: SIM RVT

Seq: WG1977136
ICAL: 21522

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg0927	wg-1,32,, dftpp SV120 lot#11040				09/27 RAP
49	ccv0927	wg-3,32,,ICV 10884 (0921)	Full List			09/27 RAP
50	blk0927	instrument Blank				
50	blk0927a	instrument Blank				
1	976781-1	WG1976781-1,32,,kmh				09/27 RAP
2	976781-2	WG1976781-2,32,,kmh				09/27 RAP
3	976781-3	WG1976781-3,32,,kmh				09/27 RAP
4	55026-01	L2455026-01,32,,R1C,kmh				09/27 RAP
5	55026-02	L2455026-02,32,,R1C,kmh				09/27 RAP
6	54059-01	L2454059-01,32,,kmh			SV-RAP	09/27 DV
7	54059-02	L2454059-02,32,,kmh				09/27 DV
8	54075-02	L2454075-02,32,,kmh	RX acids <10%			09/27 DV
9	54075-03	L2454075-03,32,,kmh				09/27 DV
10	54075-04	L2454075-04,32,,kmh	RX acids <10%			09/27 DV
11	54075-05	L2454075-05,32,,kmh	RX acids <10%			09/27 DV
12	54092-01	L2454092-01,32,,kmh				09/27 DV
13	976781-4	WG1976781-4,32,,kmh			kmh	09/27 DV
14	976781-5	WG1976781-5,32,,kmh				09/27 DV
15	54092-02	L2454092-02,32,,kmh				09/27 DV
16	54092-03	L2454092-03,32,,kmh				09/27 DV
17	54092-05	L2454092-05,32,,kmh				09/27 DV
18	976915-2	WG1976915-2,32,,kmh				09/27 DV
19	976915-3	WG1976915-3,32,,kmh				09/27 DV
20	976915-1	WG1976915-1,32,,kmh				09/27 DV
21	54259-01	L2454259-01,32,,kmh				09/27 DV
22	54259-02	L2454259-02,32,,kmh				09/27 DV
23	54259-03	L2454259-03,32,,kmh				09/27 DV
24	54259-04	L2454259-04,32,,kmh			sv-DV	09/27 DV
25	54675-01	L2454675-01,32,,kmh	RX - acid surr < 10%			09/27 RAP
26	54675-02	L2454675-02,32,,kmh				09/27 RAP
27	54675-03	L2454675-03,32,,kmh	RX - acid surr < 10%			09/27 RAP
28	54678-01	L2454678-01,32,,kmh				09/27 RAP
29	976897-2	WG1976897-2,32,,rp				
30	976897-3	WG1976897-3,32,,rp				
31	976897-1	WG1976897-1,32,,rp			Sv-DV	
32	54014-03	L2454014-03,32,,rp				
33	976779-2	WG1976779-2,32,,rp				
34	976779-3	WG1976779-3,32,,rp				
35	976779-1	WG1976779-1,32,,rp				
36	54442-01	L2454442-01,32,,rp				
37	54442-02	L2454442-02,32,,rp				
38	54442-03	L2454442-03,32,,rp				
39	54442-04	L2454442-04,32,,rp				
40	54442-05	L2454442-05,32,,rp				

Dep.: GCMS
Inst: SV120
Date: **09/27/24**
Run:

Method
GC: SIM RVT

Seq: WG1977136
ICAL: 21522

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
41	54442-06	L2454442-06,32,,rp			RAP	

ORGANIC ELN REPORT

Workgroup: WG1976781

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: ABN **Lot #:** 11001-AY(03/11/2025)
Spike Type: ABN-SIM **Lot #:** 10948-AF(02/03/2025), 10949-A
Spike Verify by: YDA
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A091124
Na2SO4	241169
NaOH	10NNaOH082824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ089

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2454059-01 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454059-02 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454075-02 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454075-03 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454075-04 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454075-05 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454092-01 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K

Reported: 30-SEP-24 06:17 AM

ORGANIC ELN REPORT

Workgroup: WG1976781

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2454092-02 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454092-03 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454092-05 SAMP	09/26/24 15:06	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454402-01 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454402-02 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454402-03 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454402-05 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454675-01 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454675-02 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2454675-03 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K

ORGANIC ELN REPORT

Workgroup: WG1976781

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2454678-01 WATER	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2455026-01 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
L2455026-02 SAMP	09/26/24 15:11	Yaw Adu	100	<2,>12	.1		09/27/24 01:45	Shaylee Amidon	1	K
WG1976781-1 BLANK	09/26/24 15:06 **WG1976780**	Yaw Adu	100	<2,>12	.1		09/27/24 00:53	Shaylee Amidon	1	K
WG1976781-2 LCS	09/26/24 15:06	Yaw Adu	100	<2,>12	.1	.1	09/27/24 00:53	Shaylee Amidon	1	K
WG1976781-3 LCSD	09/26/24 15:06	Yaw Adu	100	<2,>12	.1	.1	09/27/24 00:53	Shaylee Amidon	1	K
WG1976781-4 MS	09/26/24 15:06	Yaw Adu	100	<2,>12	.1	.1	09/27/24 00:53	Shaylee Amidon	1	K
WG1976781-5 MSD	09/26/24 15:06	Yaw Adu	100	<2,>12	.1	.1	09/27/24 00:53	Shaylee Amidon	1	K

Reported: 30-SEP-24 06:17 AM

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2454059
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
MW-4S (L2454059-01)	35	--	--	--	--	--	0
WG1975505-1BLANK	40	--	--	--	--	--	0
WG1975505-2LCS	45	--	--	--	--	--	0
WG1975505-3LCSD	40	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-14-DIOXANESIM-PPB

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975505-2 **Analysis Date** : 09/27/24 12:02	**File ID**	: F609272404
LCSD Sample ID	: WG1975505-3 **Analysis Date** : 09/27/24 12:27	**File ID**	: F609272405

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ug/l)**	**Found (ug/l)**	**%R**	**True (ug/l)**	**Found (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,4-Dioxane	5	5.56	111	5	5.55	111	0	40-140	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975505-1	**Lab File ID**	: F609272403
Instrument ID	: GCMS6	**Extraction Date**	: 09/24/24
Matrix	: WATER	**Analysis Date**	: 09/27/24 11:38
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1975505-2LCS	WG1975505-2	09/27/24 12:02
WG1975505-3LCSD	WG1975505-3	09/27/24 12:27
MW-4S	L2454059-01	09/27/24 17:15

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GCMS6	**Analysis Date**	: 07/29/24 08:40
Tune Standard	: R1858067-1	**Tune File ID**	: F607292401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	23.2
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.1 (.5)1
127	10.0 - 80.0% of Base Peak	40.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	29.8
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	80.2
443	15.0 - 24.0% of mass 442	15.1 (18.8)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1858067-2	F607292402	07/29/24 09:17
STD 50	R1858067-3	F607292403	07/29/24 09:40
STD100	R1858067-5	F607292404	07/29/24 10:01
STD 500	R1858067-4	F607292405	07/29/24 10:23
STD 1000	R1858067-6	F607292406	07/29/24 10:45
STD 5000	R1858067-7	F607292407	07/29/24 11:07
STD 10000	R1858067-8	F607292408	07/29/24 11:29
ICV QUANT REPORT	R1858067-9	F607292409	07/29/24 11:50

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GCMS6	**Analysis Date**	: 09/27/24 09:57
Tune Standard	: WG1977209-1	**Tune File ID**	: F609272401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	26.2
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	42
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	30.5
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	16.3
442	Base Peak, or >50% of mass 198	80.8
443	15.0 - 24.0% of mass 442	15.7 (19.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1977209-2CCAL	WG1977209-2	F609272402	09/27/24 10:37
WG1975505-1BLANK	WG1975505-1	F609272403	09/27/24 11:38
WG1975505-2LCS	WG1975505-2	F609272404	09/27/24 12:02
WG1975505-3LCSD	WG1975505-3	F609272405	09/27/24 12:27
MW-4S	L2454059-01	F609272416	09/27/24 17:15

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GCMS6	**Analysis Date**	: 09/27/24 10:37:00
Sample No	: WG1977209-2	**Lab File ID**	: F609272402

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1977209-2	105048	8.47				
Upper Limit	210096	8.97				
Lower Limit	52524	7.97				
Sample ID						
WG1975505-1 BLANK	114296	8.47				
WG1975505-2 LCS	122700	8.47				
WG1975505-3 LCSD	118533	8.47				
MW-4S	119709	8.47				

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

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

* Values outside of QC limits

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12115-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

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

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12118-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	8	2.04	ug/kg	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ug/kg								

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

Semivolatile Sample Data

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 17:15
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F609272416	**Analyst**	: GRS
Sample Amount	: 260 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.144	0.0326	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975505-1	**Date Collected**	: NA
Client ID	: WG1975505-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 11:38
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F609272403	**Analyst**	: GRS
Sample Amount	: 250 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.150	0.0339	U

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272416.D
Acq On : 27 Sep 2024 5:15 pm
Operator : GCMS6:GRS
Sample : L2454059-01,32,,
Misc : wg1977209,wg1975505,ical21343
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 30 11:50:12 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Sep 19 09:10:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.697	64	13116M2	500.000	ng/mL	-0.08
3) 1,4-Dichlorobenzene-d4	8.471	152	119709	500.000	ng/mL	-0.07
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.697	64	13116M4	172.533	ng/mL	-0.08
Spiked Amount 500.000	Range 15 - 115		Recovery = 34.51%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

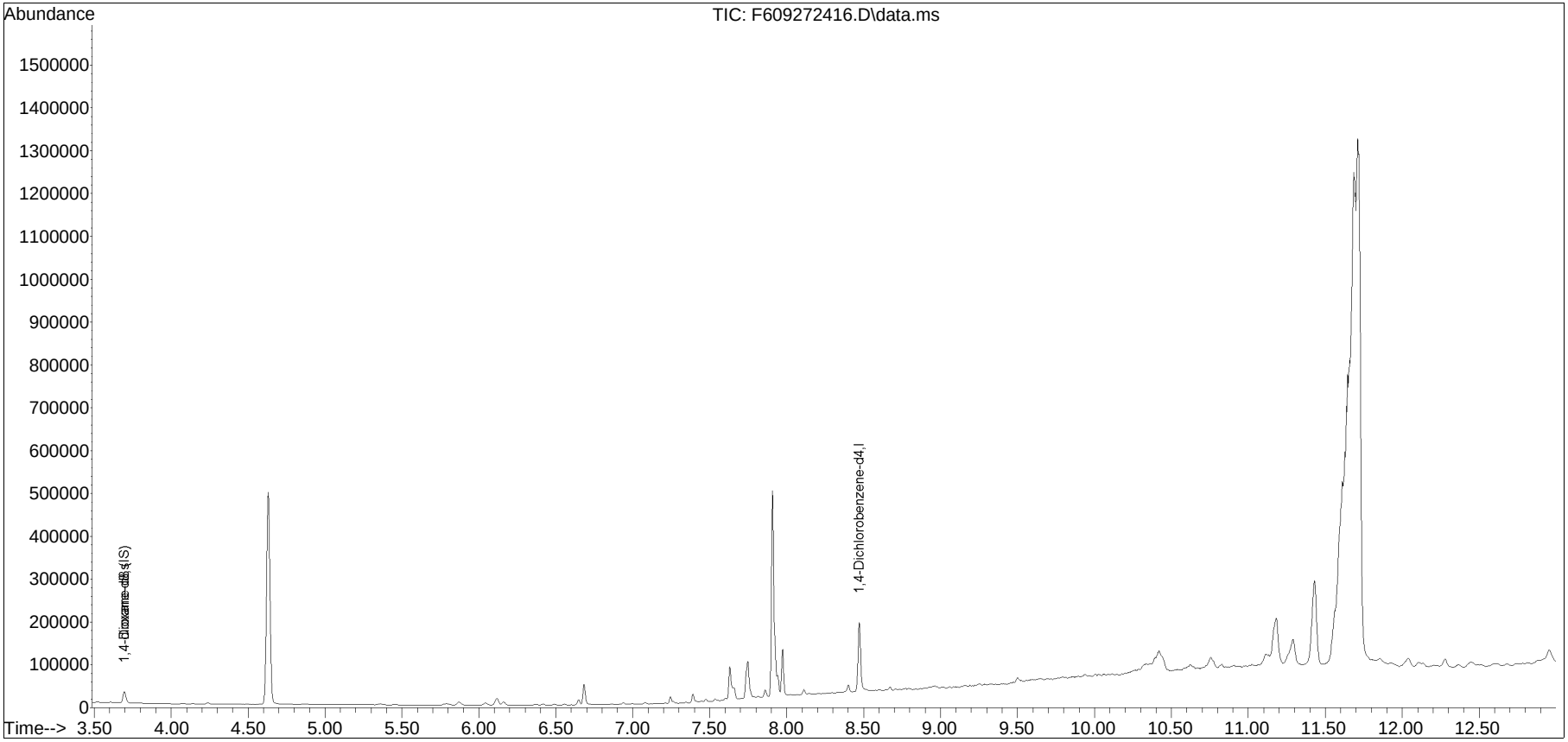
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272416.D
Acq On : 27 Sep 2024 5:15 pm
Operator : GCMS6:GRS
Sample : L2454059-01,32,,
Misc : wg1977209,wg1975505,ical21343
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 30 11:50:12 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Sep 19 09:10:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

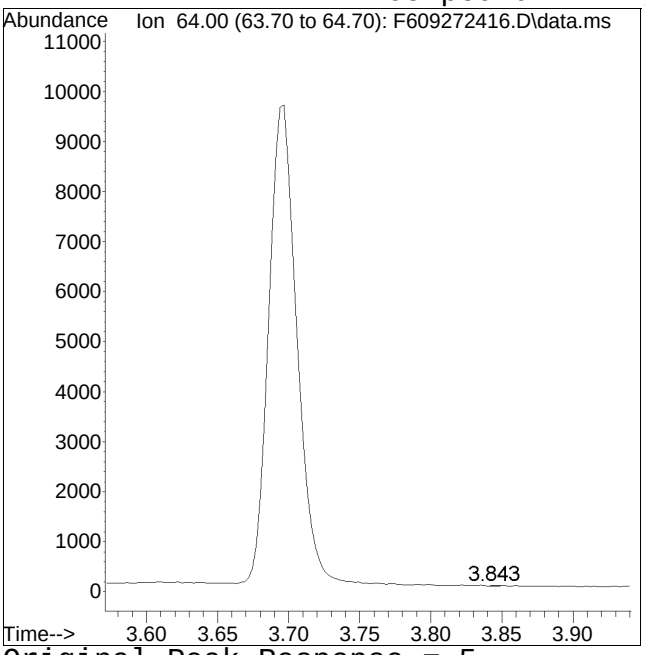


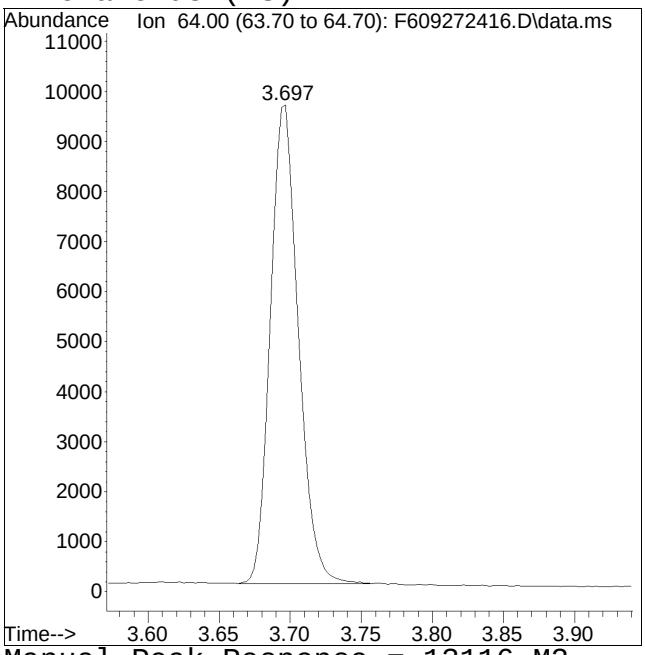
Manual Integration/Negative Proof Report

Data Path : S:\Organics\DATA\GCMS6\2024Q
Data File : F609272416.D
Date Inj'd : 9/27/2024 5:15 pm
Sample : L2454059-01,32,,

Method : 14DIOX0729GCMS6.M
Operator : GCMS6:GRS
Instrument : GCMS 6
Quant Date : 9/30/2024 11:22 am

Compound #1: 1,4-Dioxane-d8 (IS)



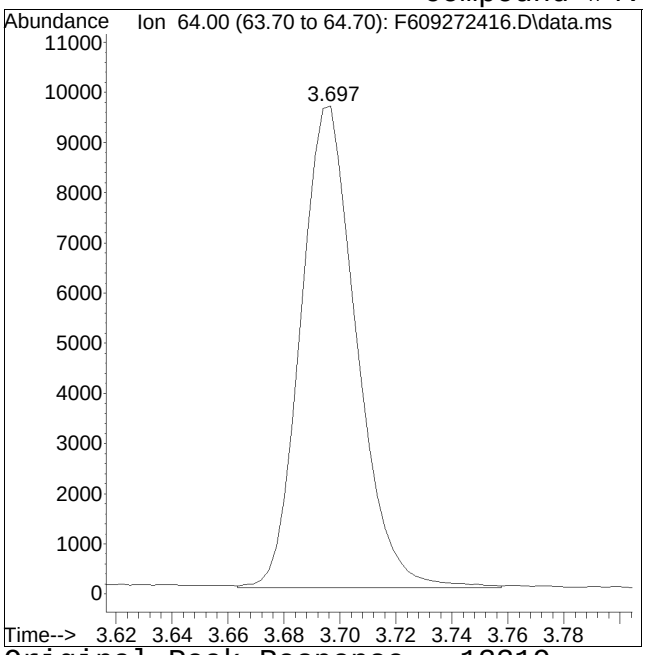


Original Peak Response = 5 Manual Peak Response = 13116 M2
M2 = Peak not found by automatic integration algorithm.

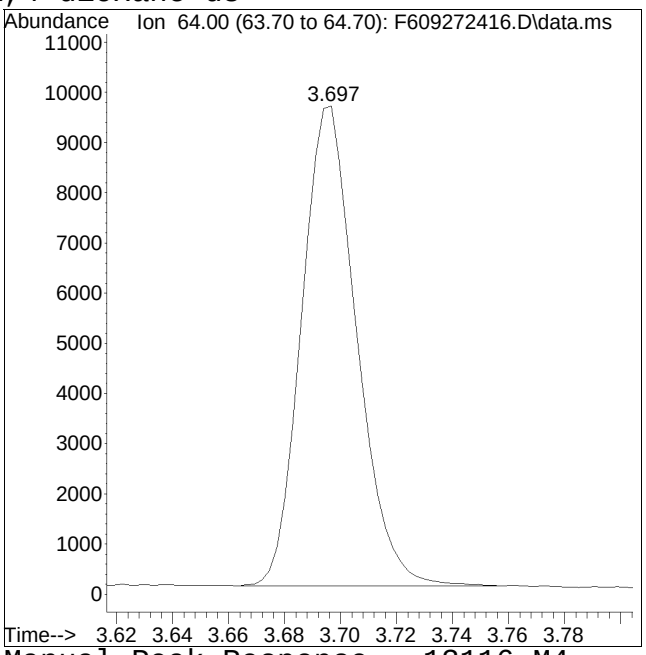
Manual Integration/Negative Proof Report

Data Path : S:\Organics\DATA\GCMS6\2024QMethod : 14DIOX0729GCMS6.M
Data File : F609272416.D Operator : GCMS6:GRS
Date Inj'd : 9/27/2024 5:15 pm Instrument : GCMS 6
Sample : L2454059-01,32,, Quant Date : 9/30/2024 11:22 am

Compound #4: 1,4-dioxane-d8



Original Peak Response = 13319



Manual Peak Response = 13116 M4

M4 = Poor automated baseline construction.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: GCMS6**	**Ical Ref**	**: ICAL21343**
Calibration dates	**: 07/29/24 09:17 07/29/24 11:29**		

Calibration Files
10 =F607292402.D 50 =F607292403.D 100 =F607292404.D 500 =F607292405.D 1000=F607292406.D
5000=F607292407.D 1e04=F607292408.D

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.727	1.480	1.503	1.522	1.537	1.568	1.592	1.561	5.28
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.305	0.316	0.319	0.323	0.318	0.323	0.318	0.318	1.91

Response Factor Report GCMS 6

Method Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Method File : 14DIOX0729GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Mon Jul 29 12:22:43 2024
Response Via : Initial Calibration

Calibration Files
10 =F607292402.D 50 =F607292403.D 100 =F607292404.D 500 =F607292405.D 1000=F607292406.D
5000=F607292407.D 1e04=F607292408.D

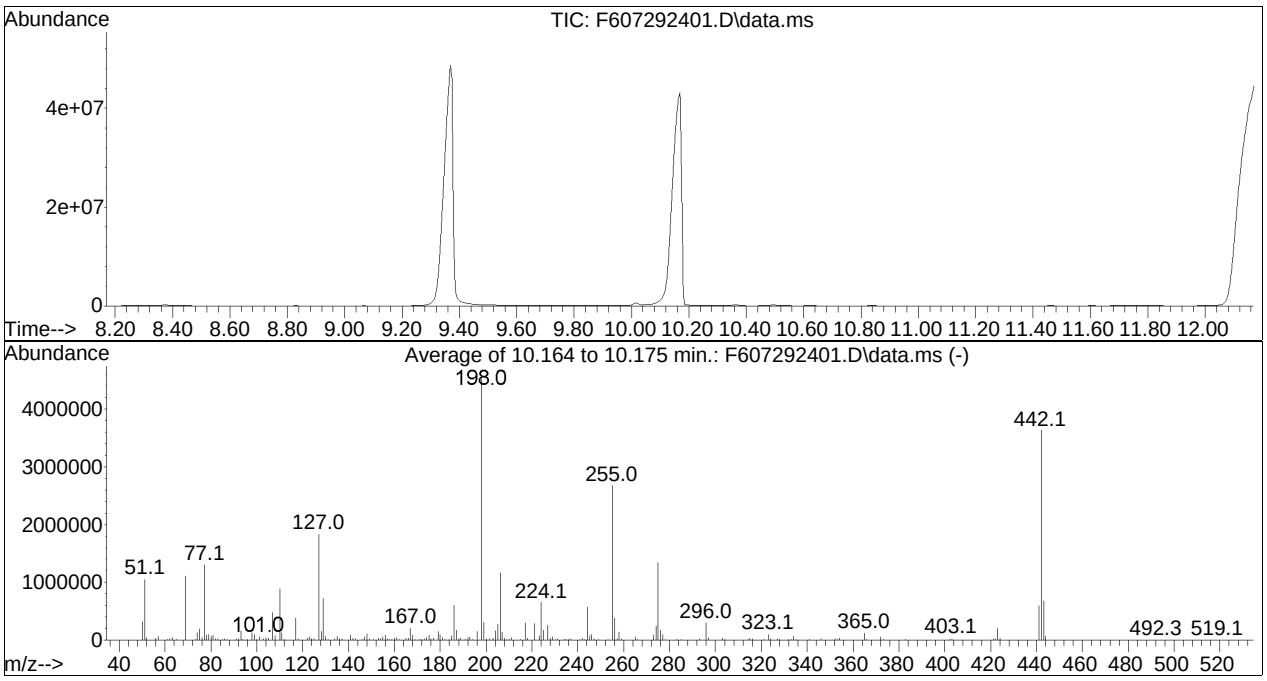
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	ISTD								
2)	1,4-dioxane	1.727	1.480	1.503	1.522	1.537	1.568	1.592	1.561	5.28
3) I	1,4-Dichlorobenzene-d4	ISTD								
4) s	1,4-dioxane-d8	0.305	0.316	0.319	0.323	0.318	0.323	0.318	0.318	1.91

(#) = Out of Range

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292401.D
Acq On : 29 Jul 2024 8:40 am
Operator : GCMS6:CSP
Sample : T607292401
Misc : WG1952684,MSBU36
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Mon Jul 29 12:22:43 2024



Spectrum Information: Average of 10.164 to 10.175 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.2	1052280	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	5260	PASS
127	198	10	80	40.5	1834379	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	4526272	PASS
199	198	5	9	6.7	301864	PASS
275	198	10	60	29.8	1348584	PASS
365	198	1	100	2.7	122733	PASS
441	442	0.01	24	16.4	594690	PASS
442	198	50	100	80.2	3629008	PASS
443	442	15	24	18.8	681507	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292402.D
Acq On : 29 Jul 2024 9:17 am
Operator : GCMS6:CSP
Sample : I607292401
Misc : WG1952684,MSBU51
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 12:23:02 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.336	64	43735	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.900	152	143395	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.336	64	43735	480.277	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 96.06%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.413	88	1511M2	11.064	ng/mL	

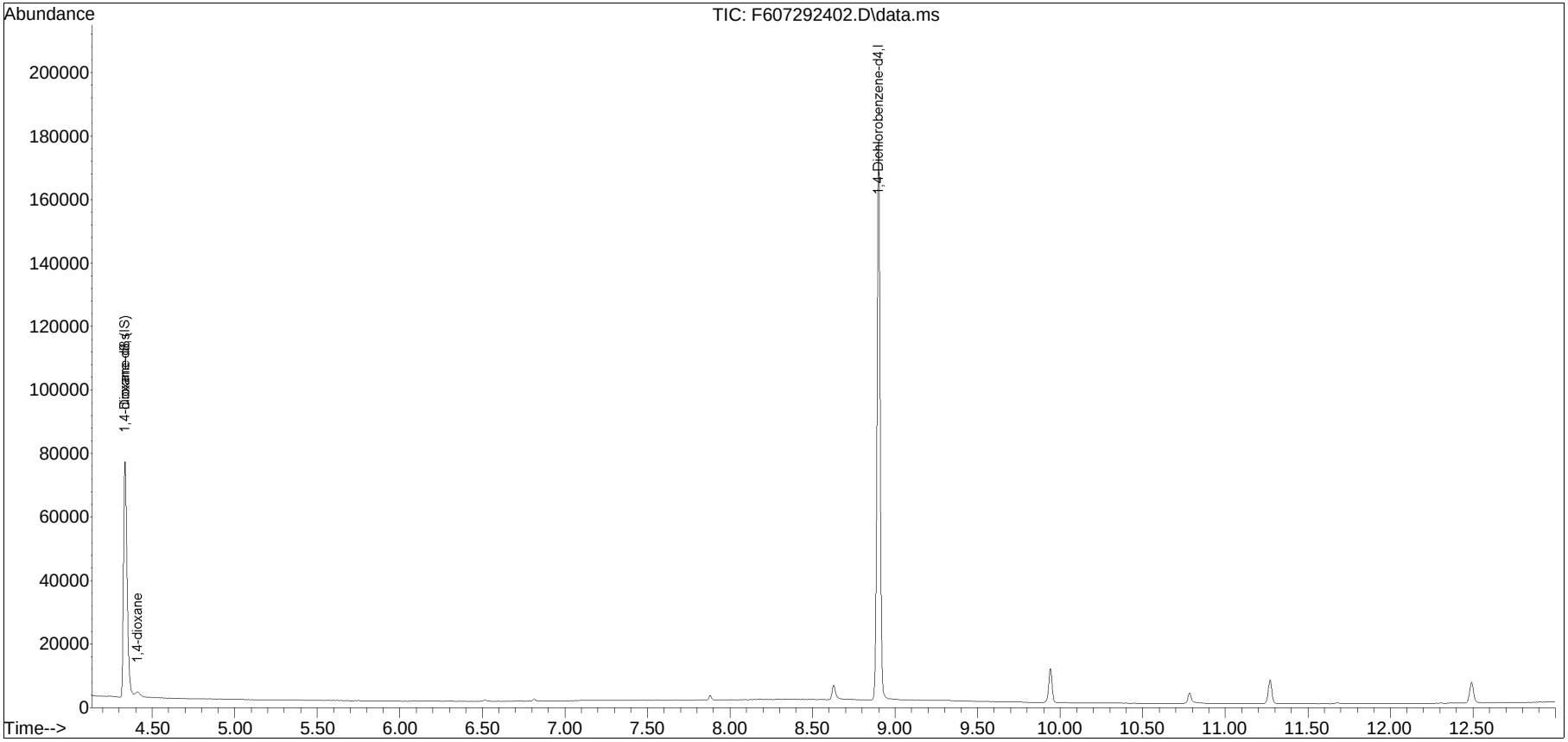
(#) = qualifier out of range (m) = manual integration (+) = signals summed

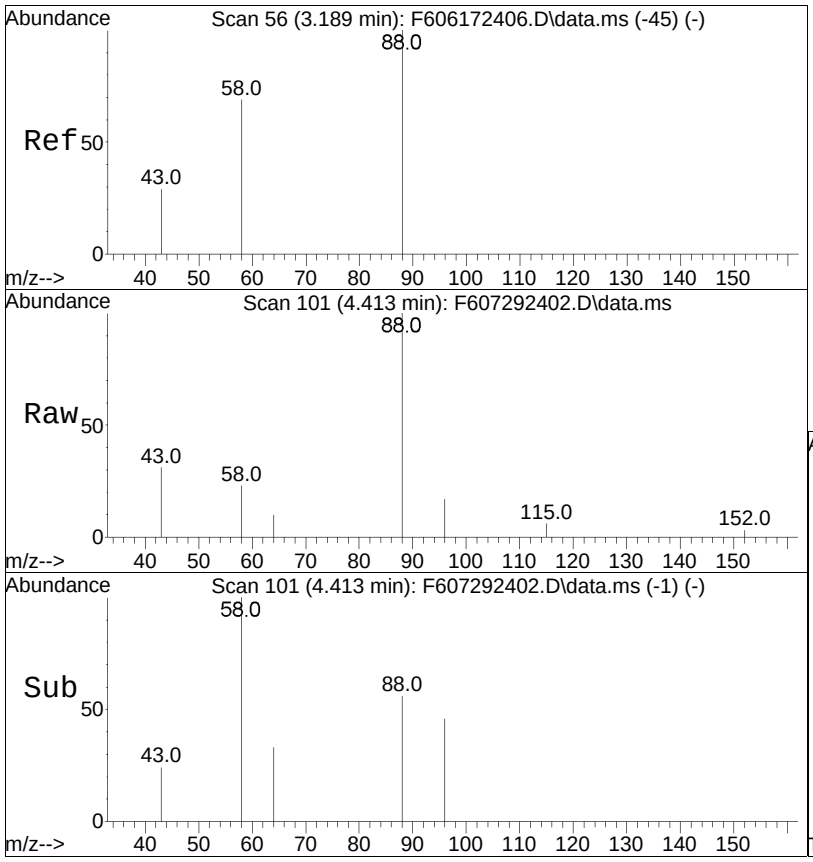
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292402.D
Acq On : 29 Jul 2024 9:17 am
Operator : GCMS6:CSP
Sample : I607292401
Misc : WG1952684,MSBU51
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 12:23:02 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

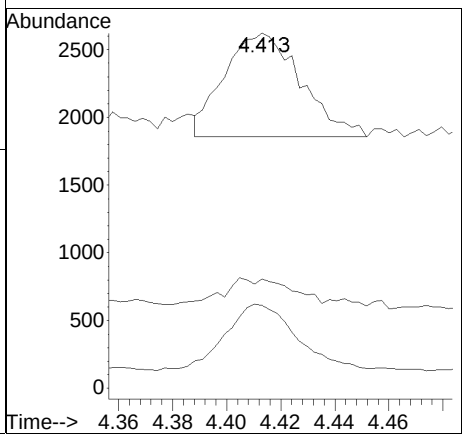




#2
1,4-dioxane
Concen: 11.06 ng/mL M2
RT: 4.413 min Scan# 101
Delta R.T. 0.016 min
Lab File: F607292402.D
Acq: 29 Jul 2024 9:17 am

Tgt Ion: 88 Resp: 1511

Ion	Ratio	Lower	Upper
88	100		
58	0.3	54.0	81.0#
43	3.8	21.4	32.2#

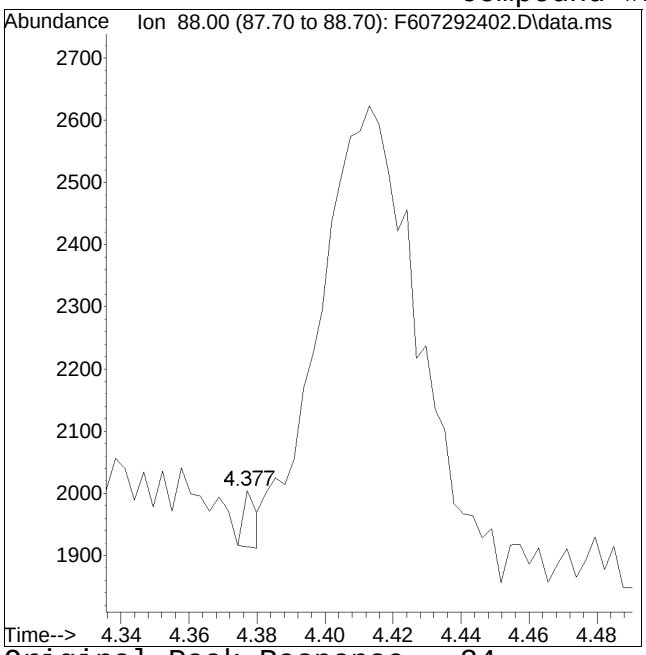


Manual Integration/Negative Proof Report

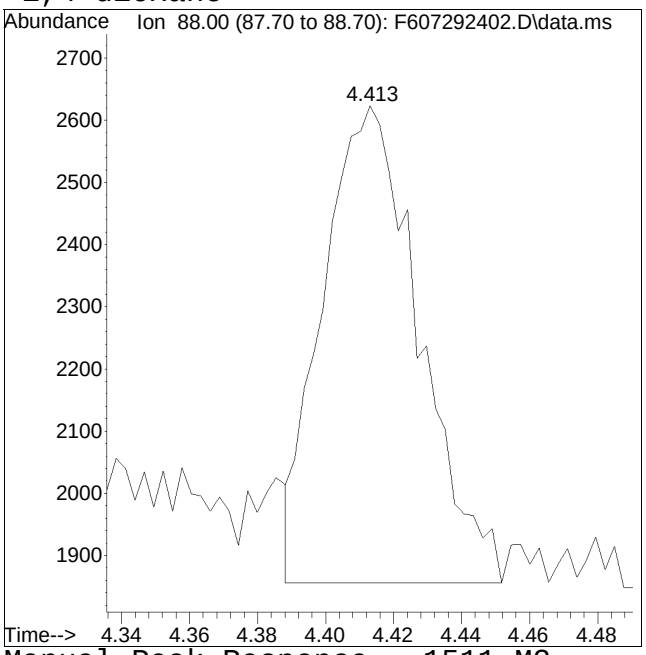
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F607292402.D
Date Inj'd : 7/29/2024 9:17 am
Sample : I607292401

Method : 14DIOX0729GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 7/29/2024 12:23 pm

Compound #2: 1,4-dioxane



Original Peak Response = 24



Manual Peak Response = 1511 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292403.D
Acq On : 29 Jul 2024 9:40 am
Operator : GCMS6:CSP
Sample : I607292402
Misc : WG1952684,MSBU52
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 29 12:23:04 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.333	64	44160	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.903	152	139546	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.333	64	44160	498.320	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.66%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.405	88	6534	47.383	ng/mL	99

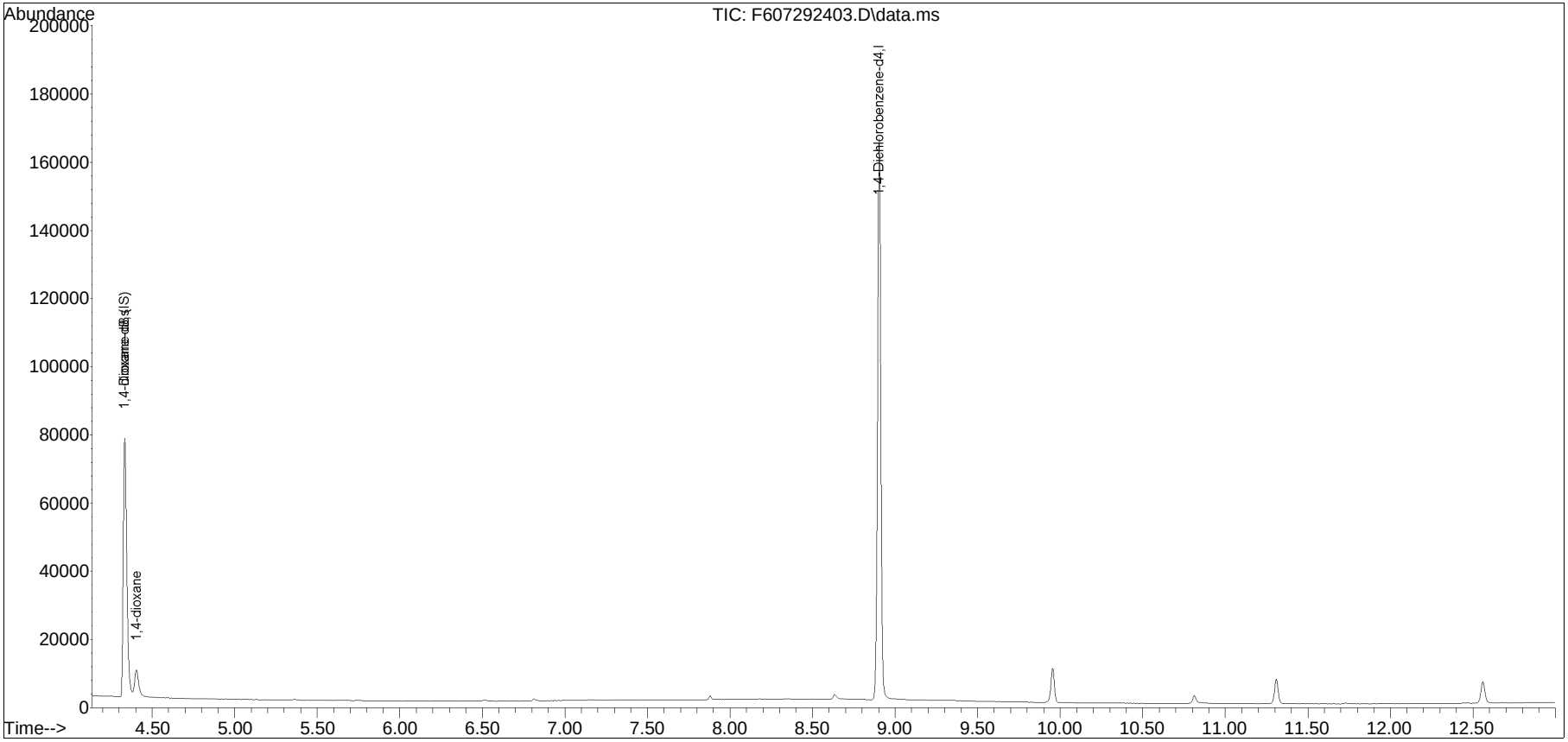
(#) = qualifier out of range (m) = manual integration (+) = signals summed

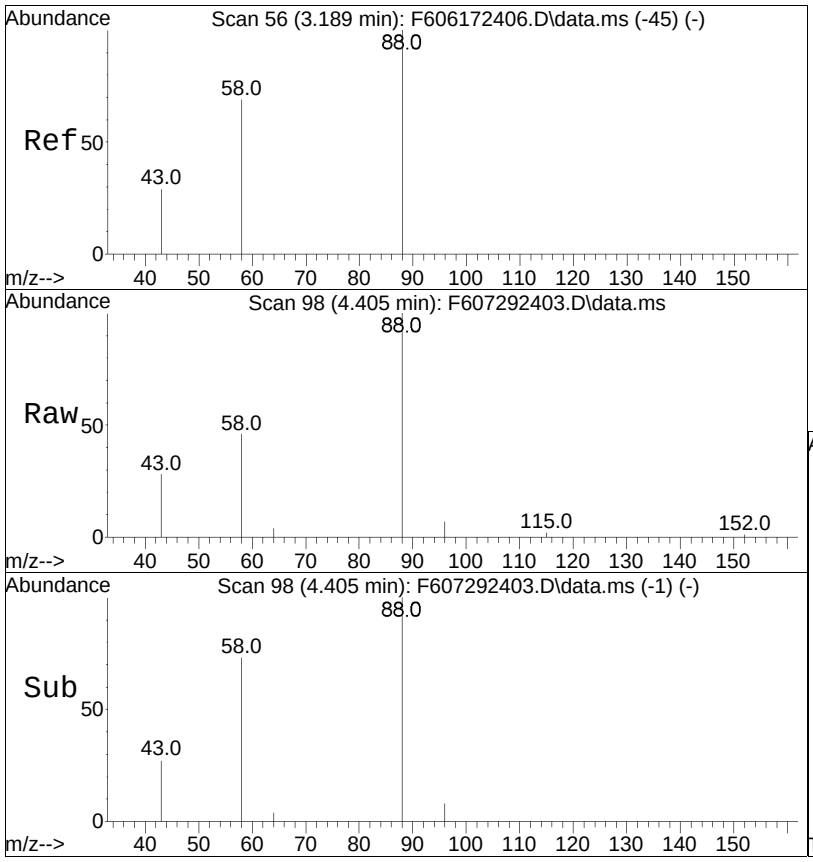
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292403.D
Acq On : 29 Jul 2024 9:40 am
Operator : GCMS6:CSP
Sample : I607292402
Misc : WG1952684,MSBU52
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 29 12:23:04 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

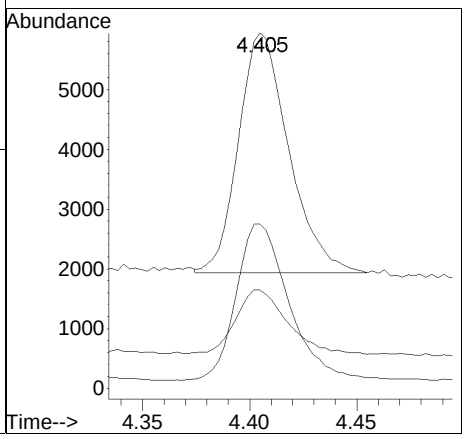




#2
1,4-dioxane
Concen: 47.38 ng/mL
RT: 4.405 min Scan# 98
Delta R.T. 0.008 min
Lab File: F607292403.D
Acq: 29 Jul 2024 9:40 am

Tgt Ion: 88 Resp: 6534

Ion	Ratio	Lower	Upper
88	100		
58	68.6	54.0	81.0
43	27.7	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F607292403.D	Operator	: GCMS6:CSP
Date Inj'd	: 7/29/2024 9:40 am	Instrument	: GCMS 6
Sample	: I607292402	Quant Date	: 7/29/2024 12:23 pm

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

F607292403.D 14DIOX0729GCMS6.M Mon Jul 29 12:28:24 2024 RePage 1er

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292404.D
Acq On : 29 Jul 2024 10:01 am
Operator : GCMS6:CSP
Sample : I607292403
Misc : WG1952684,MSBU53
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 12:23:07 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.338	64	45799	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.900	152	143493	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.338	64	45799	502.599	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.52%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.408	88	13765	96.247	ng/mL	99

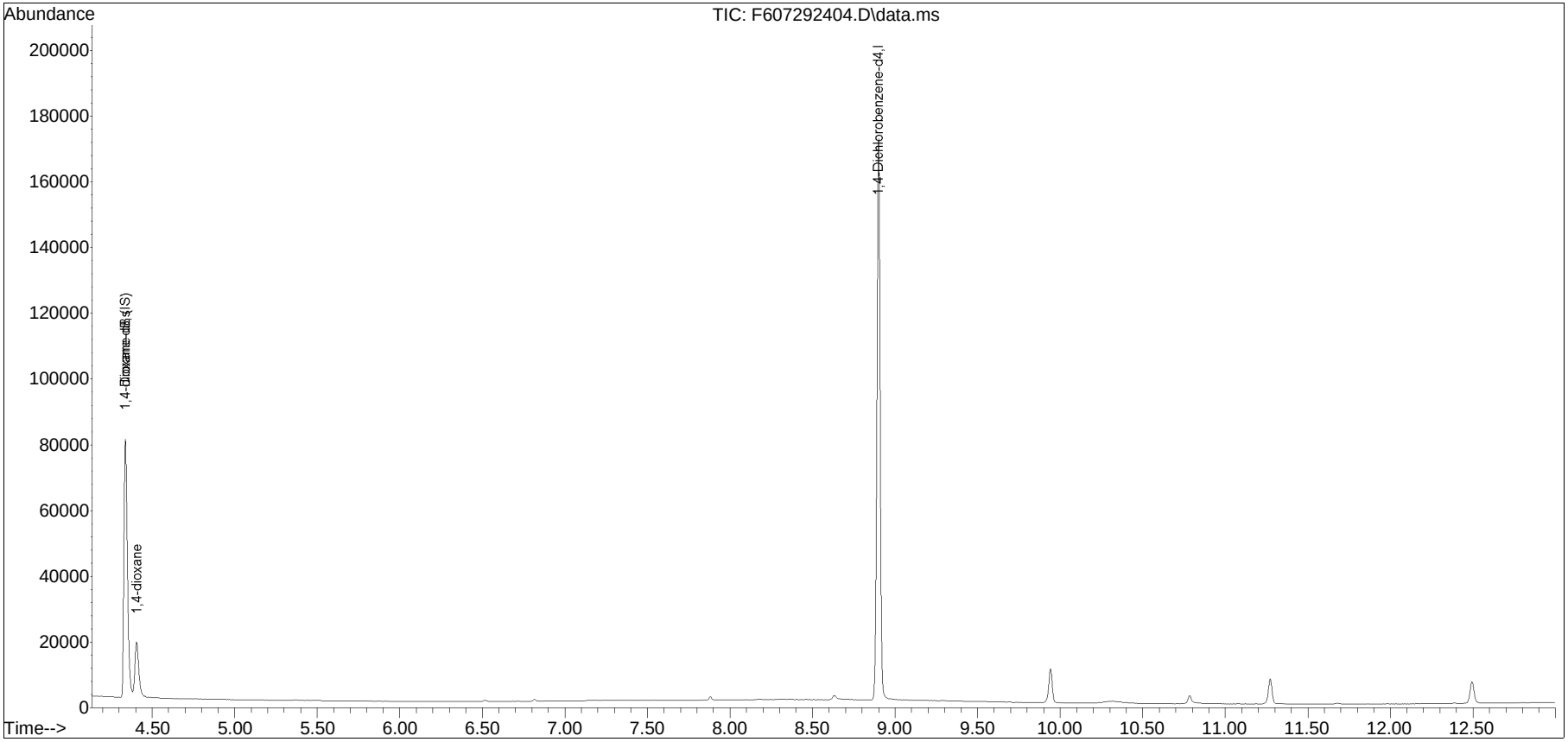
(#) = qualifier out of range (m) = manual integration (+) = signals summed

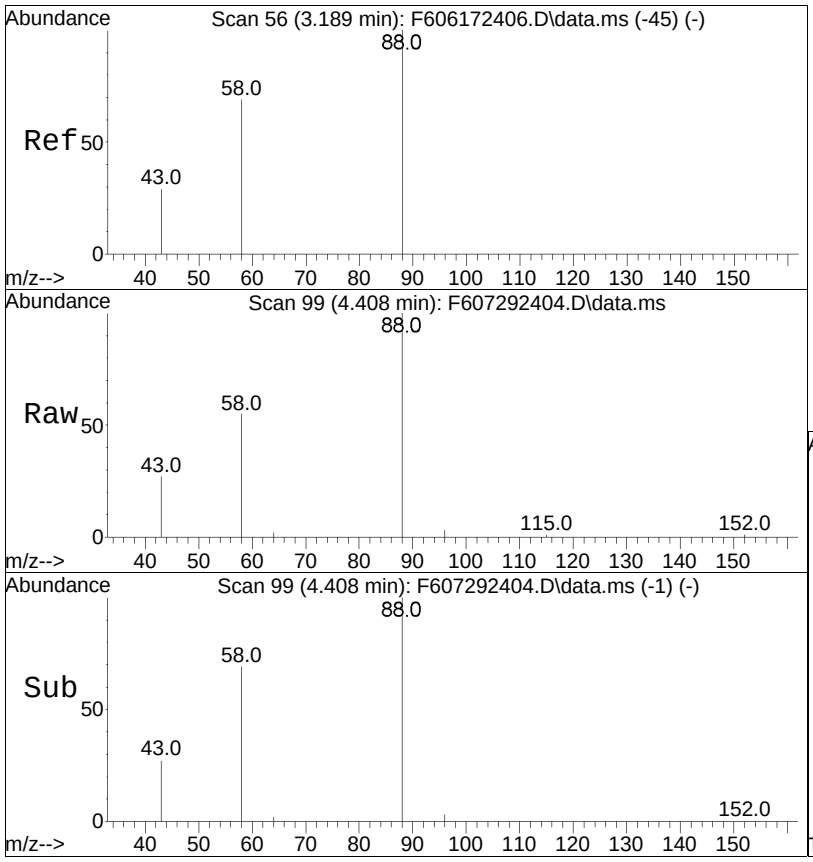
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292404.D
Acq On : 29 Jul 2024 10:01 am
Operator : GCMS6:CSP
Sample : I607292403
Misc : WG1952684,MSBU53
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 12:23:07 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

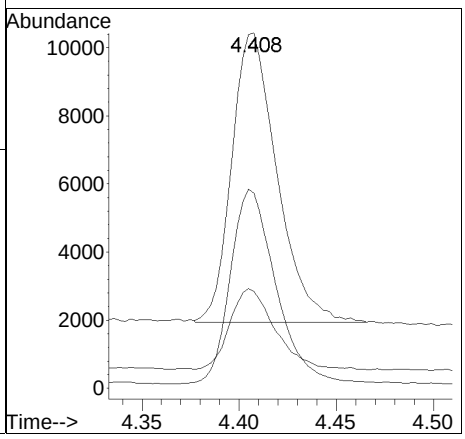




#2
1,4-dioxane
Concen: 96.25 ng/mL
RT: 4.408 min Scan# 99
Delta R.T. 0.011 min
Lab File: F607292404.D
Acq: 29 Jul 2024 10:01 am

Tgt Ion: 88 Resp: 13765

Ion	Ratio	Lower	Upper
88	100		
58	67.9	54.0	81.0
43	28.1	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F607292404.D	Operator	: GCMS6:CSP
Date Inj'd	: 7/29/2024 10:01 am	Instrument	: GCMS 6
Sample	: I607292403	Quant Date	: 7/29/2024 12:23 pm

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292405.D
Acq On : 29 Jul 2024 10:23 am
Operator : GCMS6:CSP
Sample : I607292404
Misc : WG1952684,MSBU54
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 12:23:10 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.336	64	45541	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.898	152	141159	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.336	64	45541	508.031	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.61%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.397	88	69306	487.346	ng/mL	99

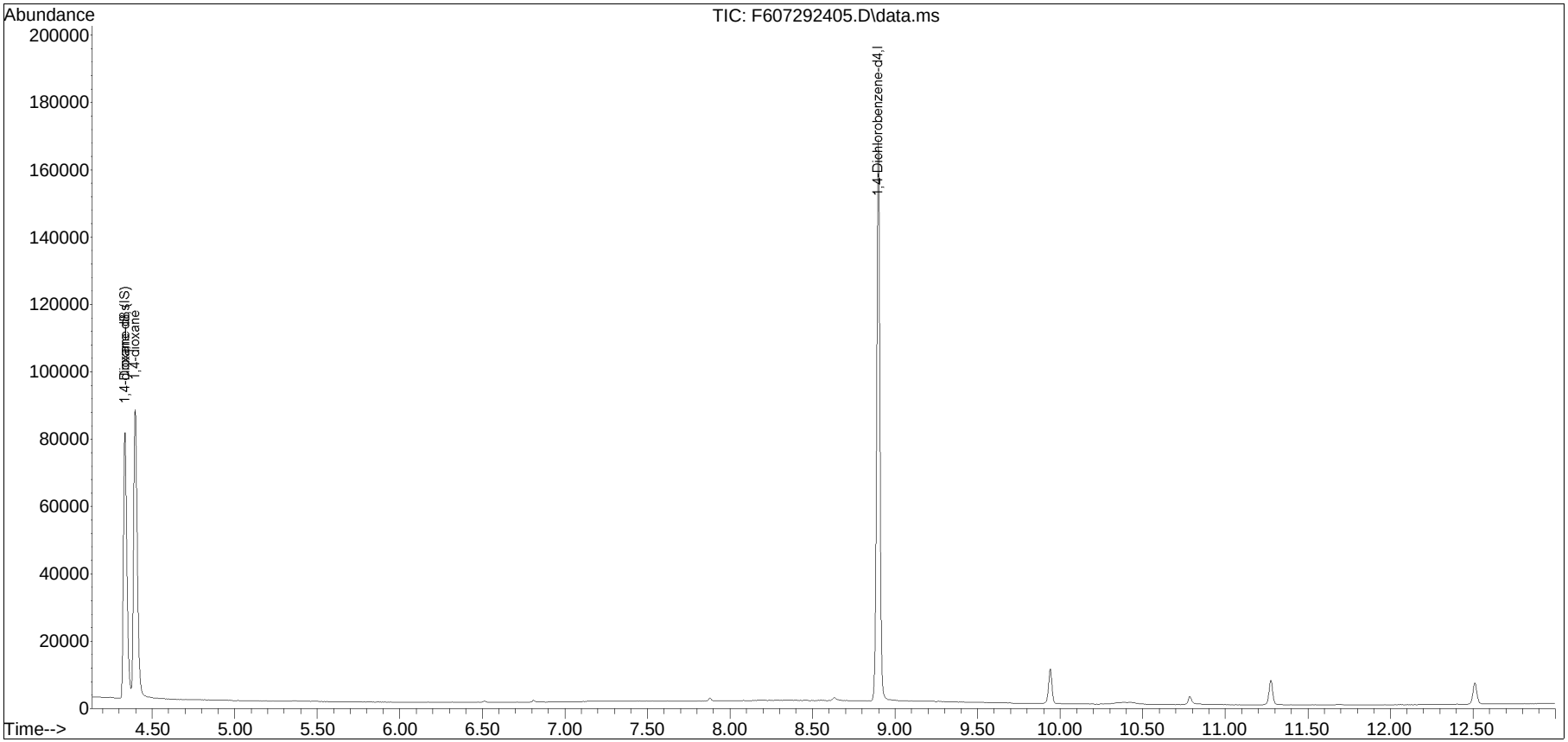
(#) = qualifier out of range (m) = manual integration (+) = signals summed

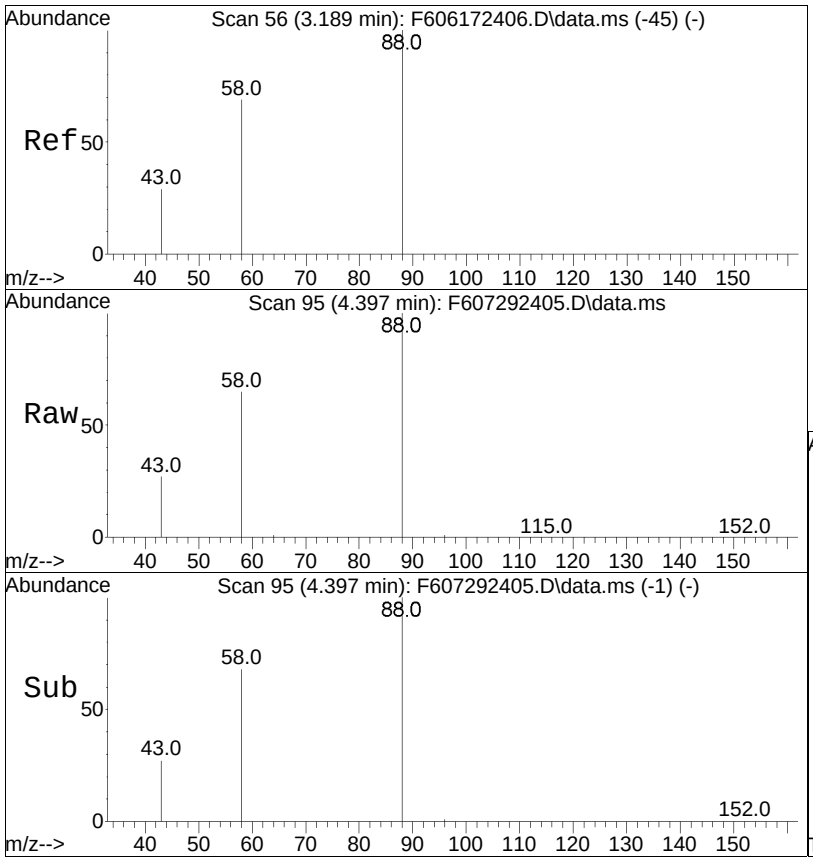
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292405.D
Acq On : 29 Jul 2024 10:23 am
Operator : GCMS6:CSP
Sample : I607292404
Misc : WG1952684,MSBU54
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 12:23:10 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

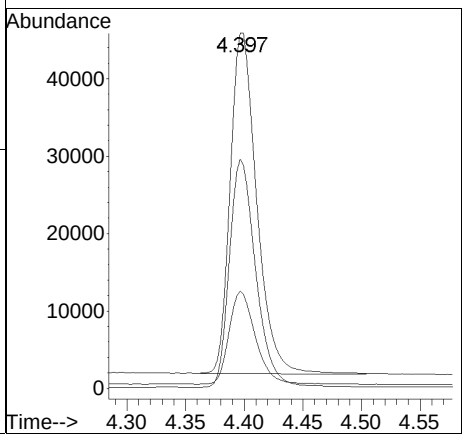




#2
1,4-dioxane
Concen: 487.35 ng/mL
RT: 4.397 min Scan# 95
Delta R.T. -0.000 min
Lab File: F607292405.D
Acq: 29 Jul 2024 10:23 am

Tgt Ion: 88 Resp: 69306

Ion	Ratio	Lower	Upper
88	100		
58	66.5	54.0	81.0
43	26.9	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F607292405.D	Operator	: GCMS6:CSP
Date Inj'd	: 7/29/2024 10:23 am	Instrument	: GCMS 6
Sample	: I607292404	Quant Date	: 7/29/2024 12:23 pm

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292406.D
Acq On : 29 Jul 2024 10:45 am
Operator : GCMS6:CSP
Sample : I607292405
Misc : WG1952684,MSBU55
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 12:23:13 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.336	64	45692	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.900	152	143704	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.336	64	45692	500.689	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.14%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.397	88	140492	984.646	ng/mL	100

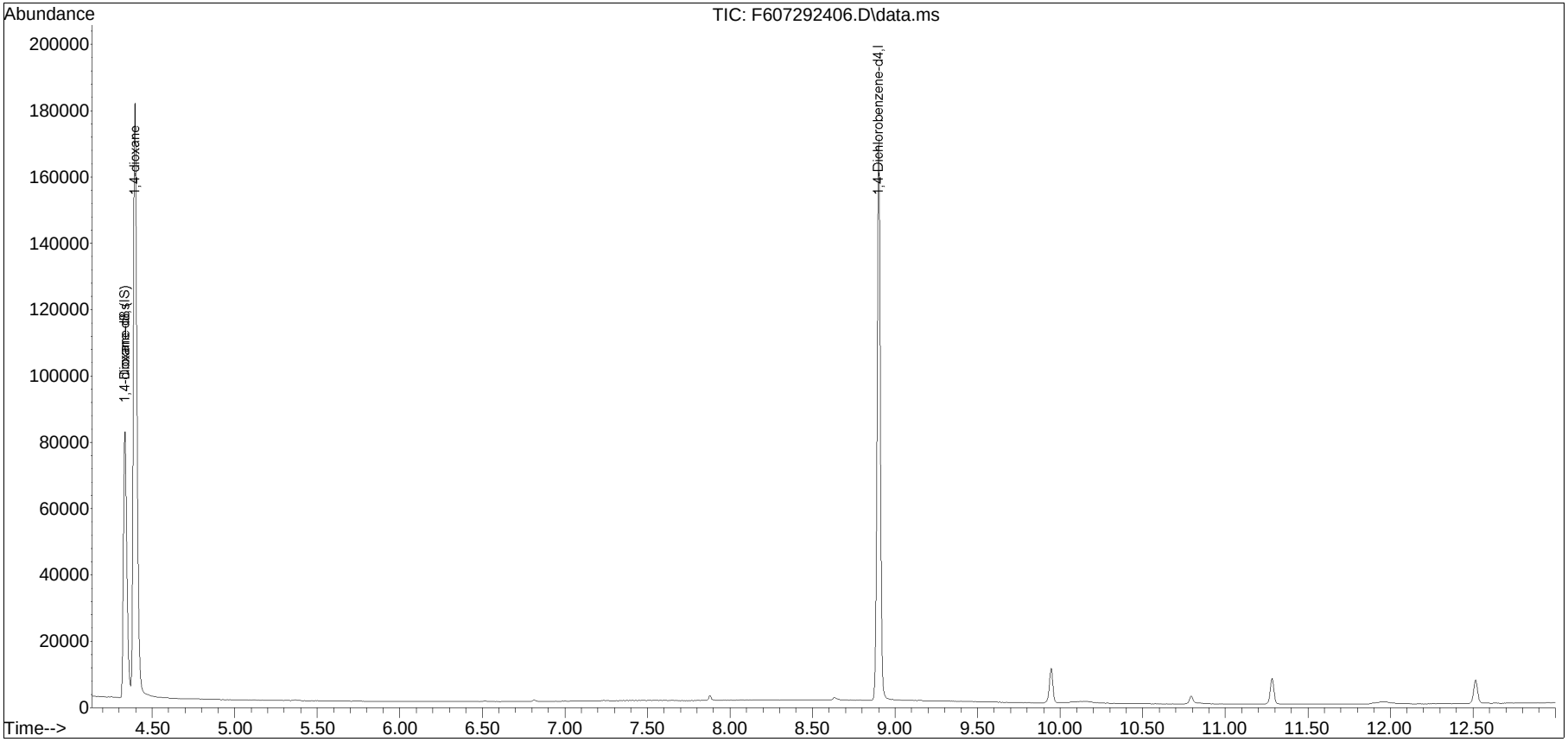
(#) = qualifier out of range (m) = manual integration (+) = signals summed

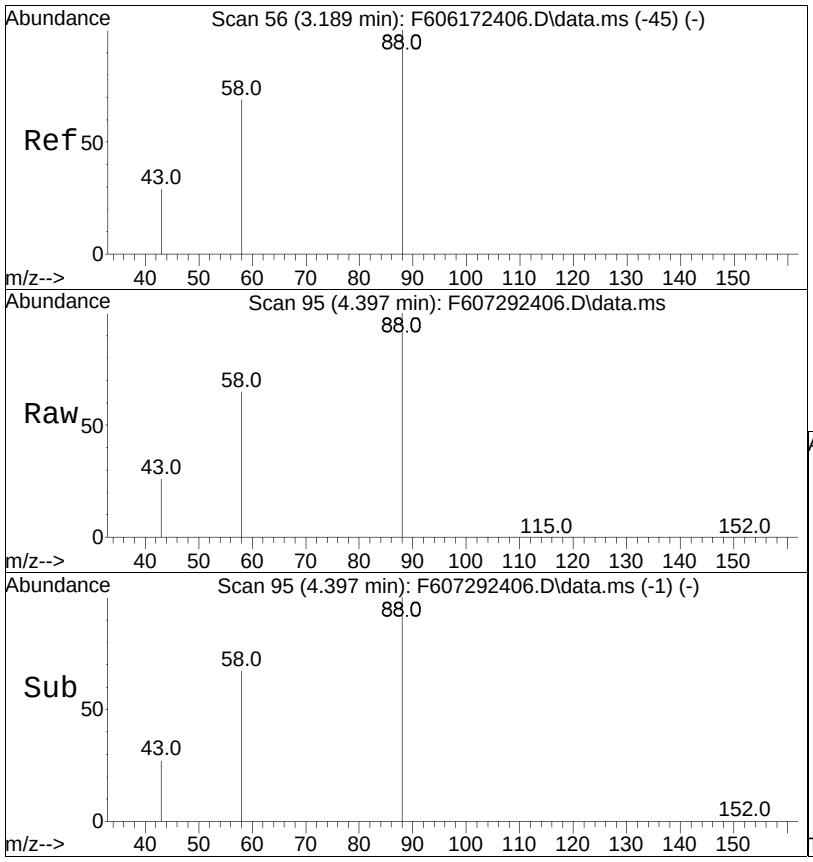
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292406.D
Acq On : 29 Jul 2024 10:45 am
Operator : GCMS6:CSP
Sample : I607292405
Misc : WG1952684,MSBU55
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 12:23:13 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

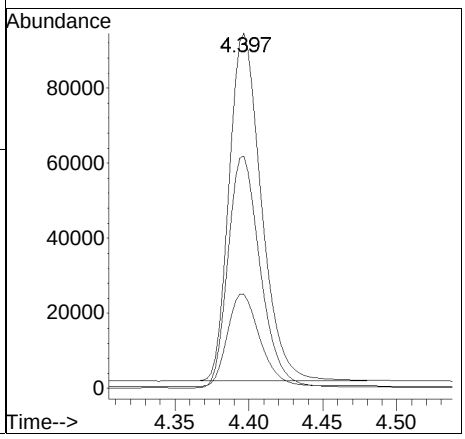




#2
1,4-dioxane
Concen: 984.65 ng/mL
RT: 4.397 min Scan# 95
Delta R.T. 0.000 min
Lab File: F607292406.D
Acq: 29 Jul 2024 10:45 am

Tgt Ion: 88 Resp: 140492

Ion	Ratio	Lower	Upper
88	100		
58	67.5	54.0	81.0
43	26.8	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F607292406.D	Operator	: GCMS6:CSP
Date Inj'd	: 7/29/2024 10:45 am	Instrument	: GCMS 6
Sample	: I607292405	Quant Date	: 7/29/2024 12:23 pm

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

F607292406.D 14DIOX0729GCMS6.M Mon Jul 29 12:28:30 2024 RePage 1er

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292407.D
Acq On : 29 Jul 2024 11:07 am
Operator : GCMS6:CSP
Sample : I607292406
Misc : WG1952684,MSBU56
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 12:23:16 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.327	64	44310	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.903	152	137046	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.327	64	44310	509.134	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.83%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.385	88	694776	5021.250	ng/mL	99

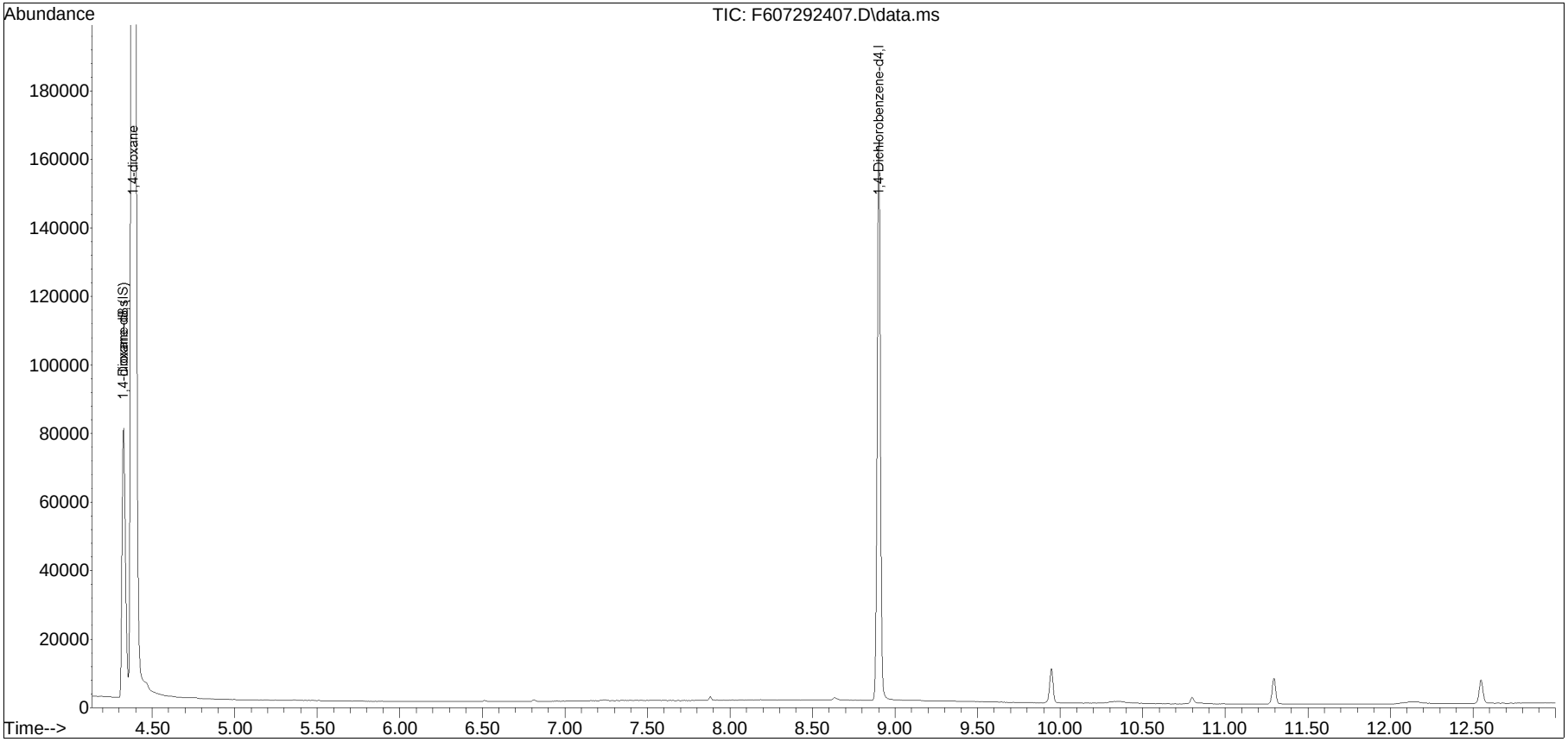
(#) = qualifier out of range (m) = manual integration (+) = signals summed

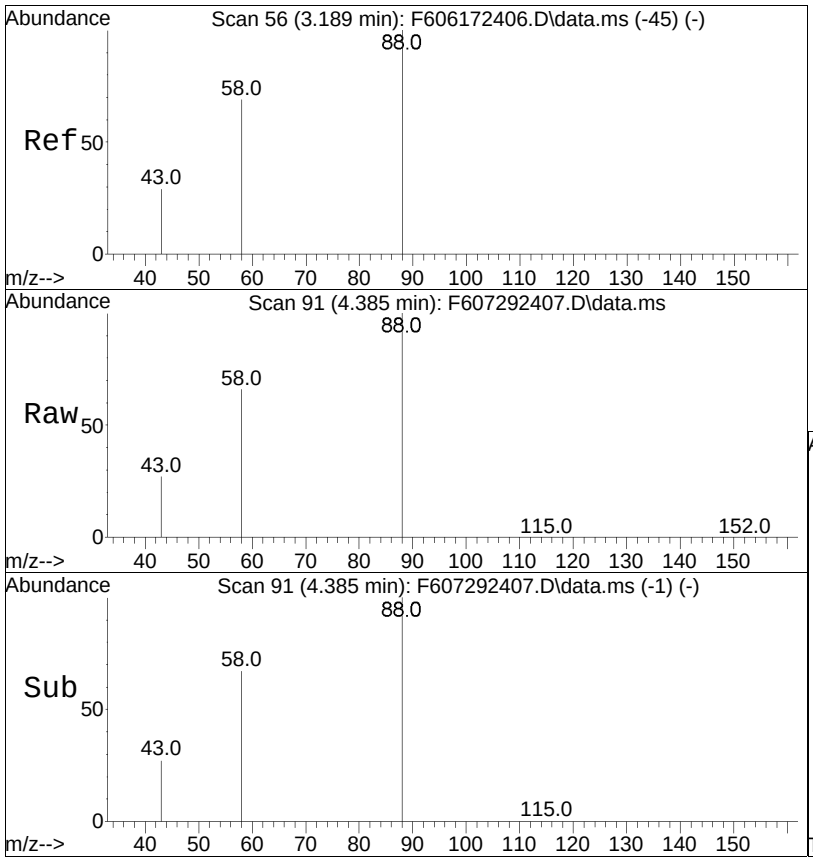
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292407.D
Acq On : 29 Jul 2024 11:07 am
Operator : GCMS6:CSP
Sample : I607292406
Misc : WG1952684,MSBU56
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 12:23:16 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

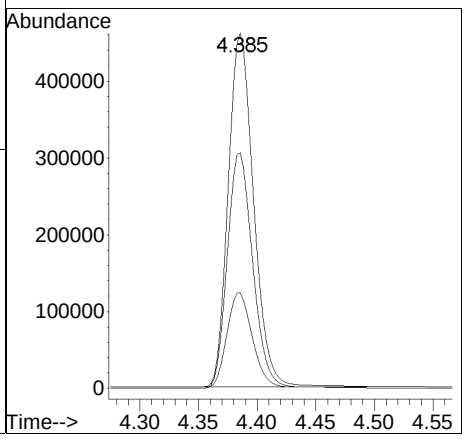




#2
1,4-dioxane
Concen: 5021.25 ng/mL
RT: 4.385 min Scan# 91
Delta R.T. -0.011 min
Lab File: F607292407.D
Acq: 29 Jul 2024 11:07 am

Tgt Ion: 88 Resp: 694776

Ion	Ratio	Lower	Upper
88	100		
58	66.9	54.0	81.0
43	27.0	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F607292407.D	Operator	: GCMS6:CSP
Date Inj'd	: 7/29/2024 11:07 am	Instrument	: GCMS 6
Sample	: I607292406	Quant Date	: 7/29/2024 12:23 pm

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292408.D
Acq On : 29 Jul 2024 11:29 am
Operator : GCMS6:CSP
Sample : I607292407
Misc : WG1952684,MSBU50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 12:23:19 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.330	64	43979	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.900	152	138244	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.330	64	43979	500.951	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.19%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.388	88	1400674	10199.069	ng/mL	100

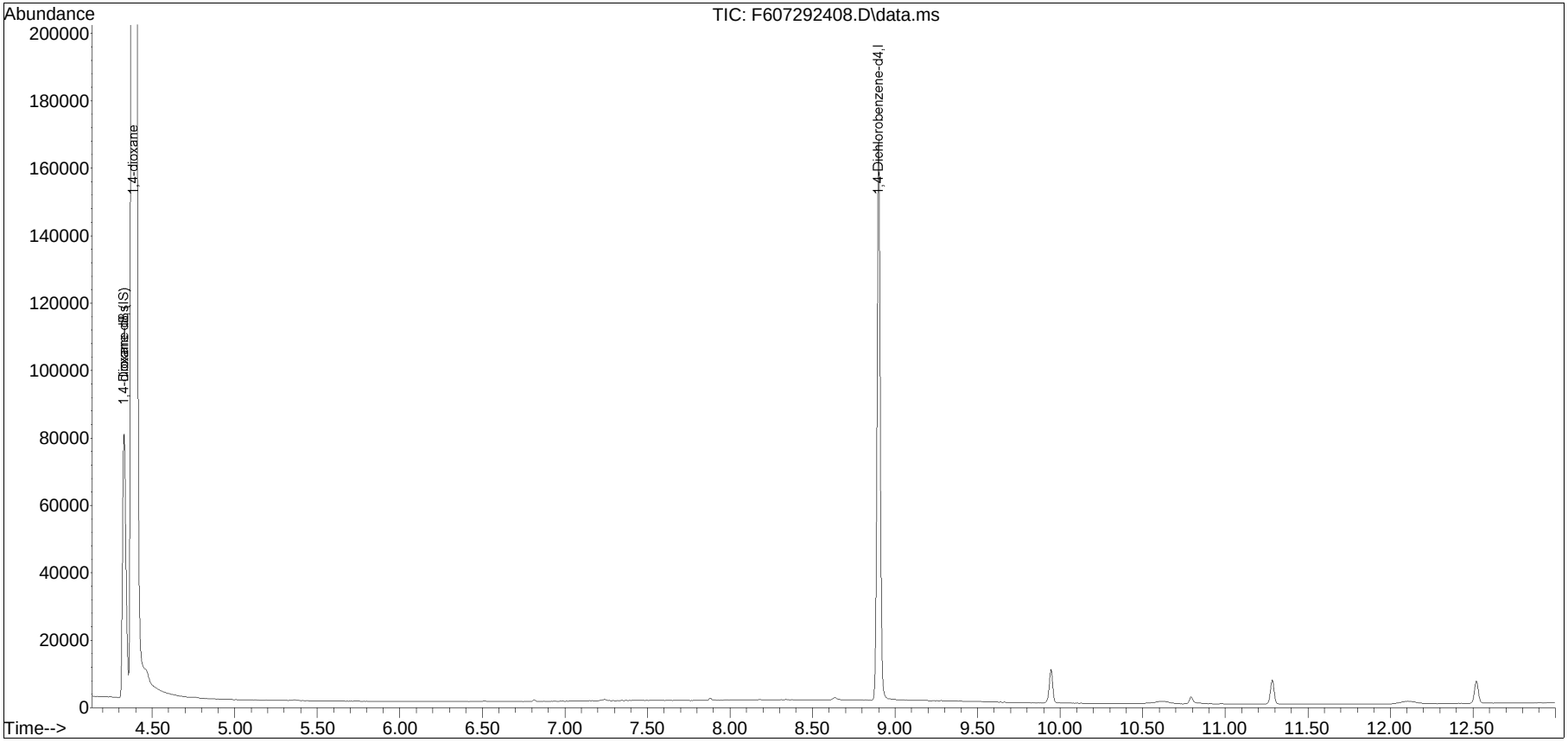
(#) = qualifier out of range (m) = manual integration (+) = signals summed

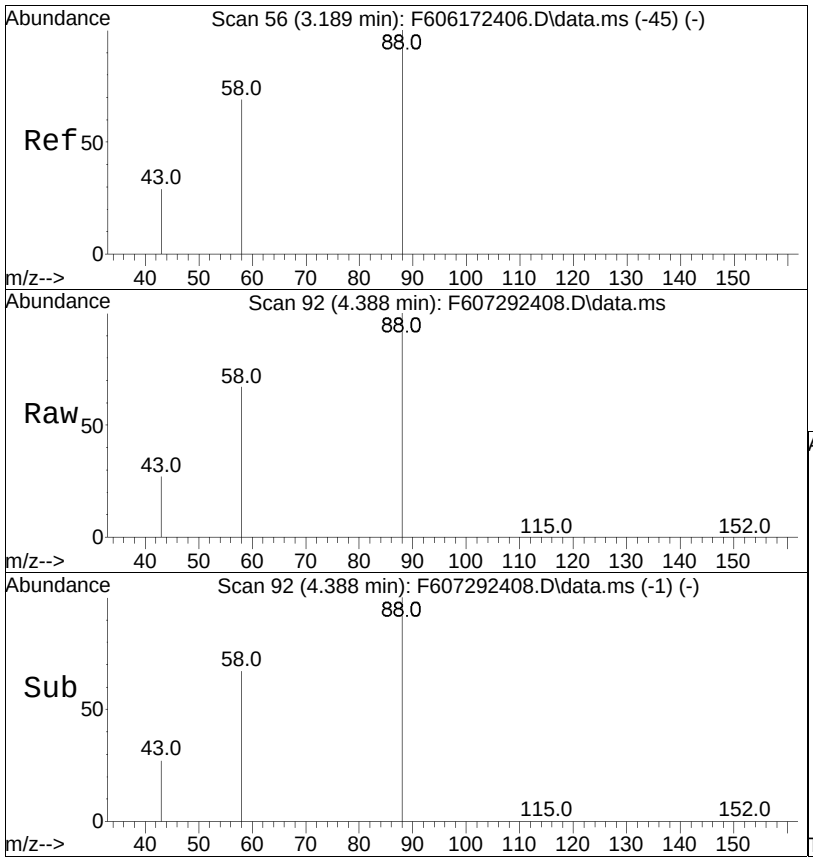
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292408.D
Acq On : 29 Jul 2024 11:29 am
Operator : GCMS6:CSP
Sample : I607292407
Misc : WG1952684,MSBU50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 12:23:19 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

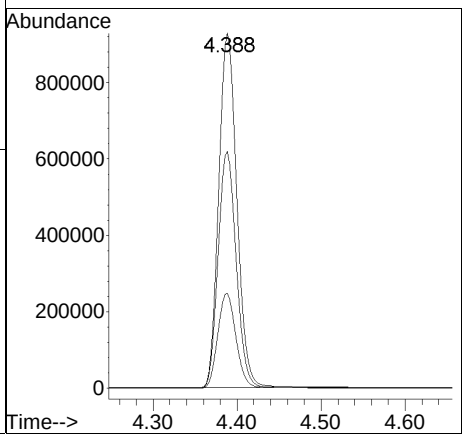




#2
1,4-dioxane
Concen: 10199.07 ng/mL
RT: 4.388 min Scan# 92
Delta R.T. -0.008 min
Lab File: F607292408.D
Acq: 29 Jul 2024 11:29 am

Tgt Ion: 88 Resp: 1400674

Ion	Ratio	Lower	Upper
88	100		
58	67.0	54.0	81.0
43	26.7	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F607292408.D	Operator	: GCMS6:CSP
Date Inj'd	: 7/29/2024 11:29 am	Instrument	: GCMS 6
Sample	: I607292407	Quant Date	: 7/29/2024 12:23 pm

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

F607292408.D 14DIOX0729GCMS6.M Mon Jul 29 12:28:34 2024 RePage 1er

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292409.D
Acq On : 29 Jul 2024 11:50 am
Operator : GCMS6:CSP
Sample : CQ607292401
Misc : WG1952684,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 12:23:56 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	98	0.00
2	1,4-dioxane	1.561	1.461	6.4	93	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
4 s	1,4-dioxane-d8	0.318	0.316	0.6	102	0.00

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292409.D
Acq On : 29 Jul 2024 11:50 am
Operator : GCMS6:CSP
Sample : CQ607292401
Misc : WG1952684,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 12:23:56 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.327	64	44594	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.903	152	141301	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.327	64	44594	496.967	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.39%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.388	88	130346	936.031	ng/mL	99

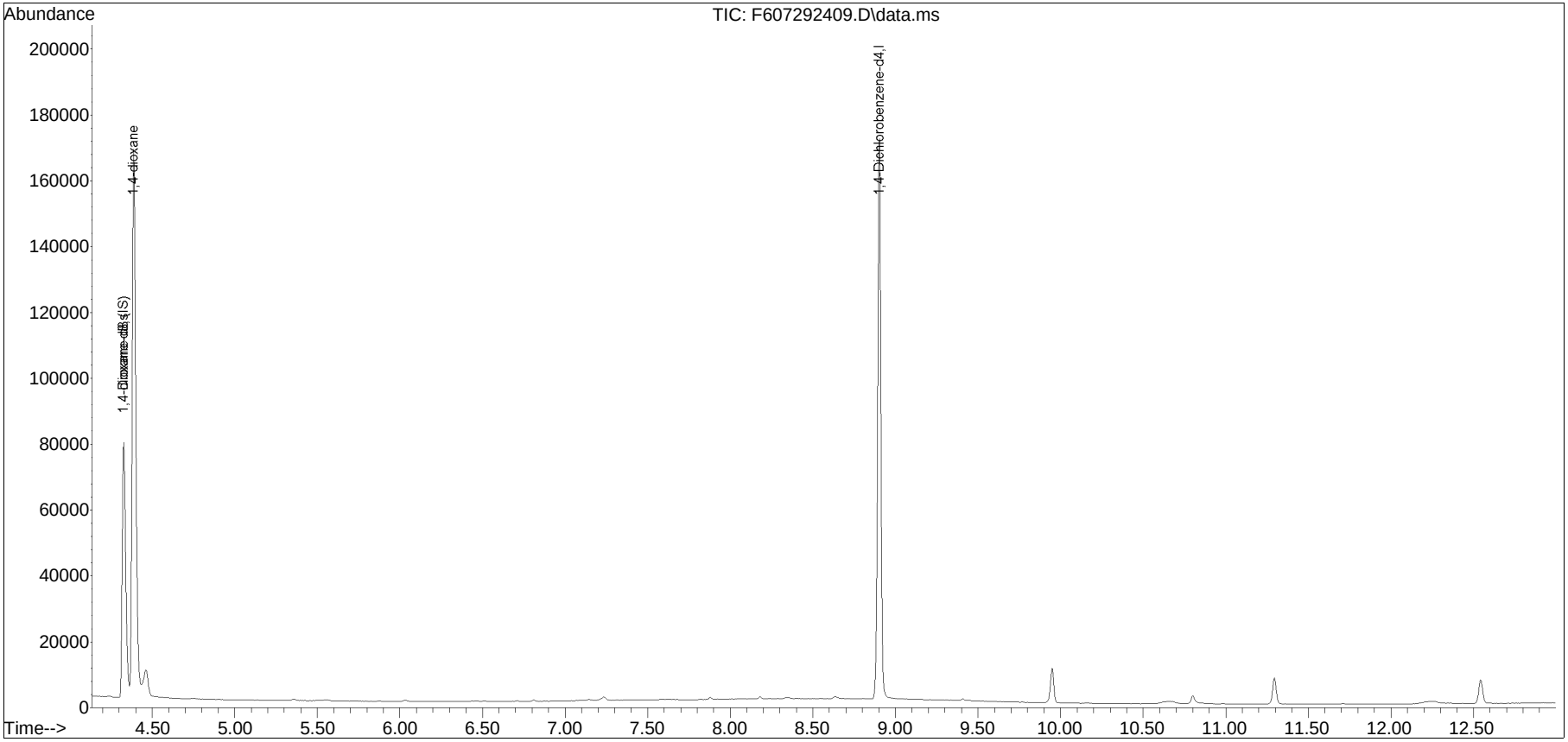
(#) = qualifier out of range (m) = manual integration (+) = signals summed

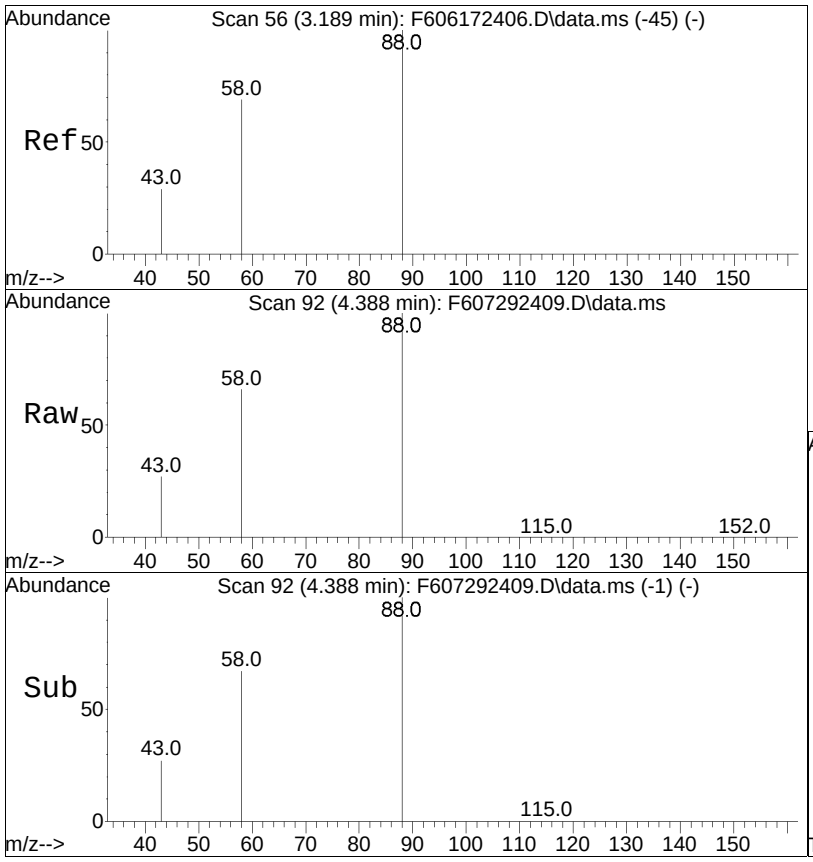
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\
Data File : F607292409.D
Acq On : 29 Jul 2024 11:50 am
Operator : GCMS6:CSP
Sample : CQ607292401
Misc : WG1952684,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 12:23:56 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUL\JUL29\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jul 29 12:22:43 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

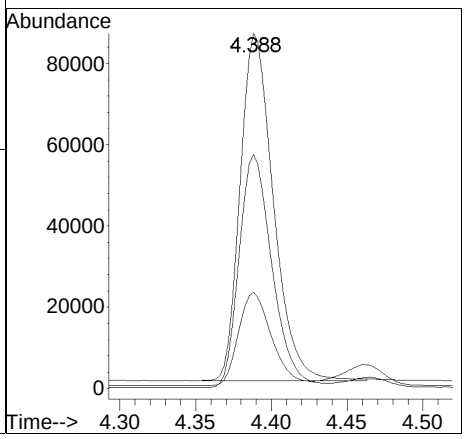




#2
1,4-dioxane
Concen: 936.03 ng/mL
RT: 4.388 min Scan# 92
Delta R.T. -0.008 min
Lab File: F607292409.D
Acq: 29 Jul 2024 11:50 am

Tgt Ion: 88 Resp: 130346

Ion	Ratio	Lower	Upper
88	100		
58	66.9	54.0	81.0
43	27.0	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F607292409.D	Operator	: GCMS6:CSP
Date Inj'd	: 7/29/2024 11:50 am	Instrument	: GCMS 6
Sample	: CQ607292401	Quant Date	: 7/29/2024 12:23 pm

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

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: GCMS6	**Calibration Date**	: 09/27/24 10:37		
Lab File ID	: F609272402	**Init. Calib. Date(s)**	: 07/29/24	07/29/24	
Sample No	: WG1977209-2	**Init. Calib. Times**	: 09:17	11:29	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	66	0
1,4-dioxane	1.561	1.549	-	0.8	20	66	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	73	0
1,4-dioxane-d8	0.318	0.286	-	10.1	20	69	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272402.D
Acq On : 27 Sep 2024 10:37 am
Operator : GCMS6:GRS
Sample : WG1977209-2
Misc : WG1977209,,ICAL21343,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 12:40:51 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 30 12:40:43 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	66	0.00
2	1,4-dioxane	1.561	1.549	0.8	66	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00
4 s	1,4-dioxane-d8	0.318	0.286	10.1	69	0.00

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272402.D
Acq On : 27 Sep 2024 10:37 am
Operator : GCMS6:GRS
Sample : WG1977209-2
Misc : WG1977209,,ICAL21343,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 11:06:25 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 11:06:16 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.675	64	29999	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.469	152	105048	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.675	64	29999	449.692	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 89.94%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.730	88	92961	992.345	ng/mL	97

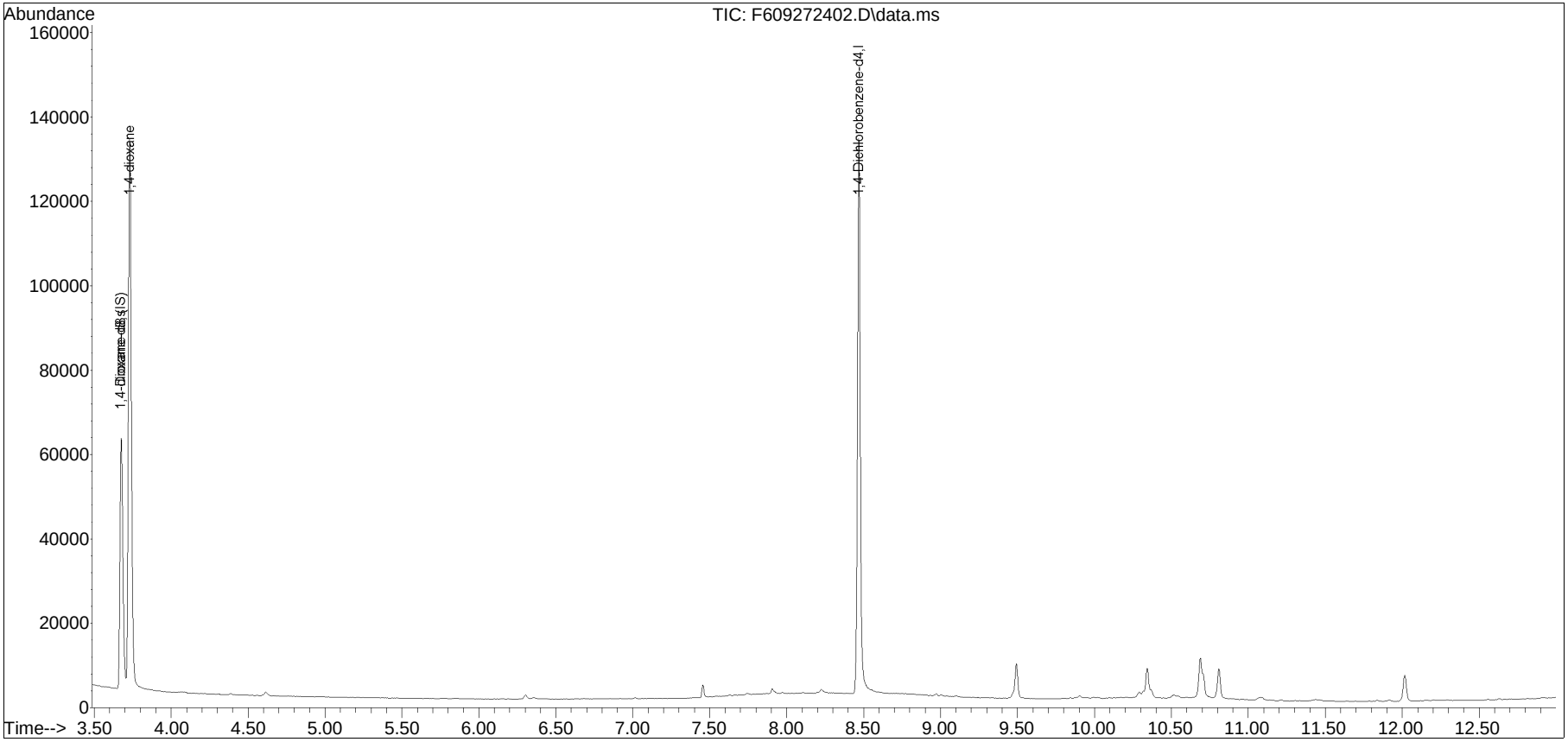
(#) = qualifier out of range (m) = manual integration (+) = signals summed

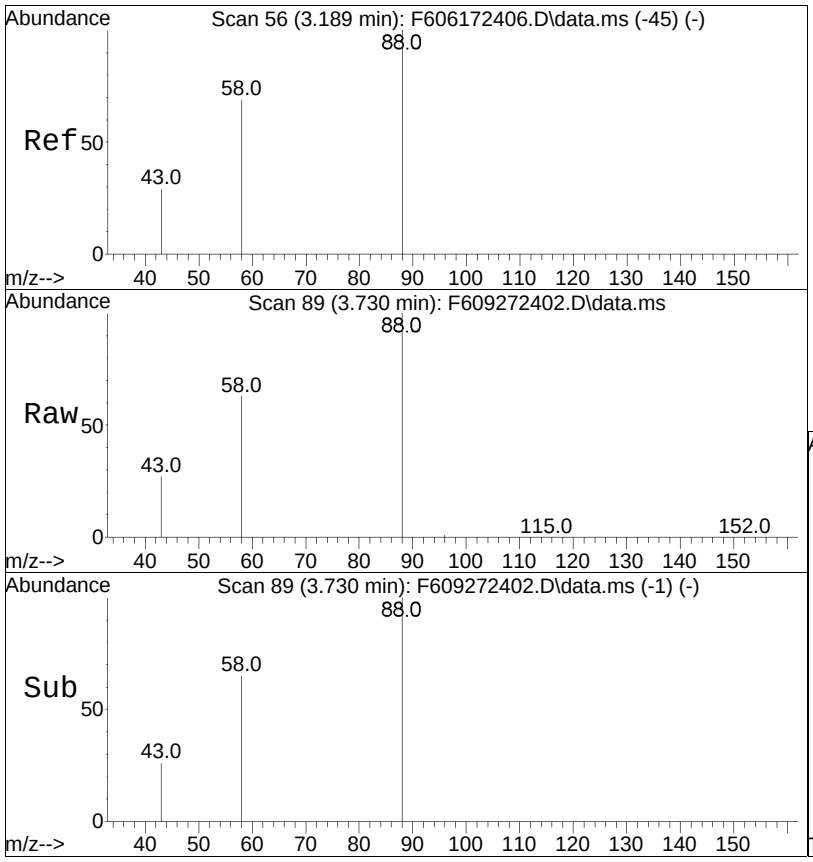
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272402.D
Acq On : 27 Sep 2024 10:37 am
Operator : GCMS6:GRS
Sample : WG1977209-2
Misc : WG1977209,,ICAL21343,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 11:06:25 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 11:06:16 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

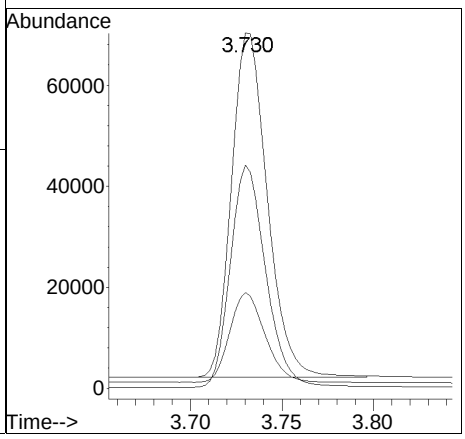




#2
1,4-dioxane
Concen: 992.35 ng/mL
RT: 3.730 min Scan# 89
Delta R.T. 0.000 min
Lab File: F609272402.D
Acq: 27 Sep 2024 10:37 am

Tgt Ion: 88 Resp: 92961

Ion	Ratio	Lower	Upper
88	100		
58	64.2	54.0	81.0
43	25.8	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F609272402.D	Operator	: GCMS6:GRS
Date Inj'd	: 9/27/2024 10:37 am	Instrument	: GCMS 6
Sample	: WG1977209-2	Quant Date	: 9/27/2024 11:06 am

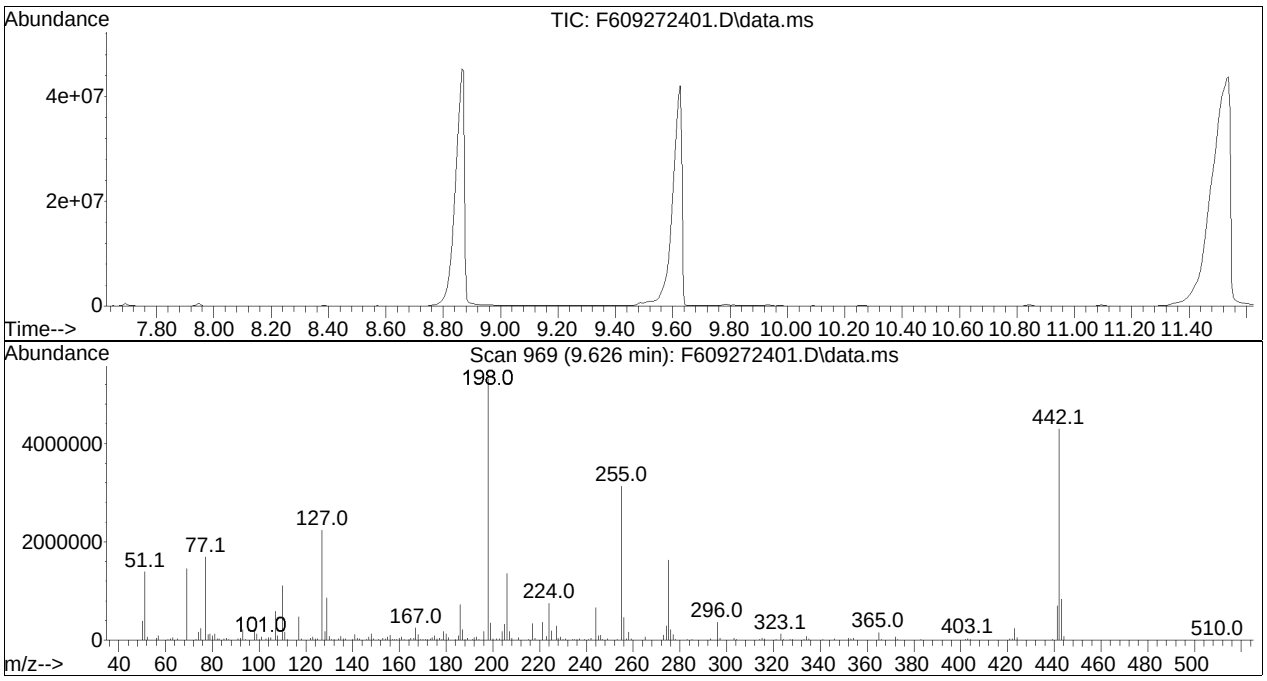
There are no manual integrations or false positives in this file.

Semivolatiles Raw QC Data

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272401.D
Acq On : 27 Sep 2024 9:57 am
Operator : GCMS6:GRS
Sample : WG1977209-1
Misc : WG1977209,,ICAL21343,MSBU90
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Fri Sep 27 11:06:16 2024



Spectrum Information: Scan 969

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.2	1393664	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	8396	PASS
127	198	10	80	42.0	2234880	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	5319168	PASS
199	198	5	9	6.5	348288	PASS
275	198	10	60	30.5	1622528	PASS
365	198	1	100	2.8	151232	PASS
441	442	0.01	24	16.3	702400	PASS
442	198	50	100	80.8	4297216	PASS
443	442	15	24	19.4	834112	PASS

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272403.D
Acq On : 27 Sep 2024 11:38 am
Operator : GCMS6:GRS
Sample : WG1975505-1,32,,
Misc : wg1977209,wg1975505,ical21343
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 11:26:32 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 11:06:16 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.697	64	14586M2	500.000	ng/mL	-0.08
3) 1,4-Dichlorobenzene-d4	8.471	152	114296	500.000	ng/mL	-0.07
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.697	64	14586M2	200.956	ng/mL	-0.08
Spiked Amount 500.000	Range 15 - 115		Recovery = 40.19%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

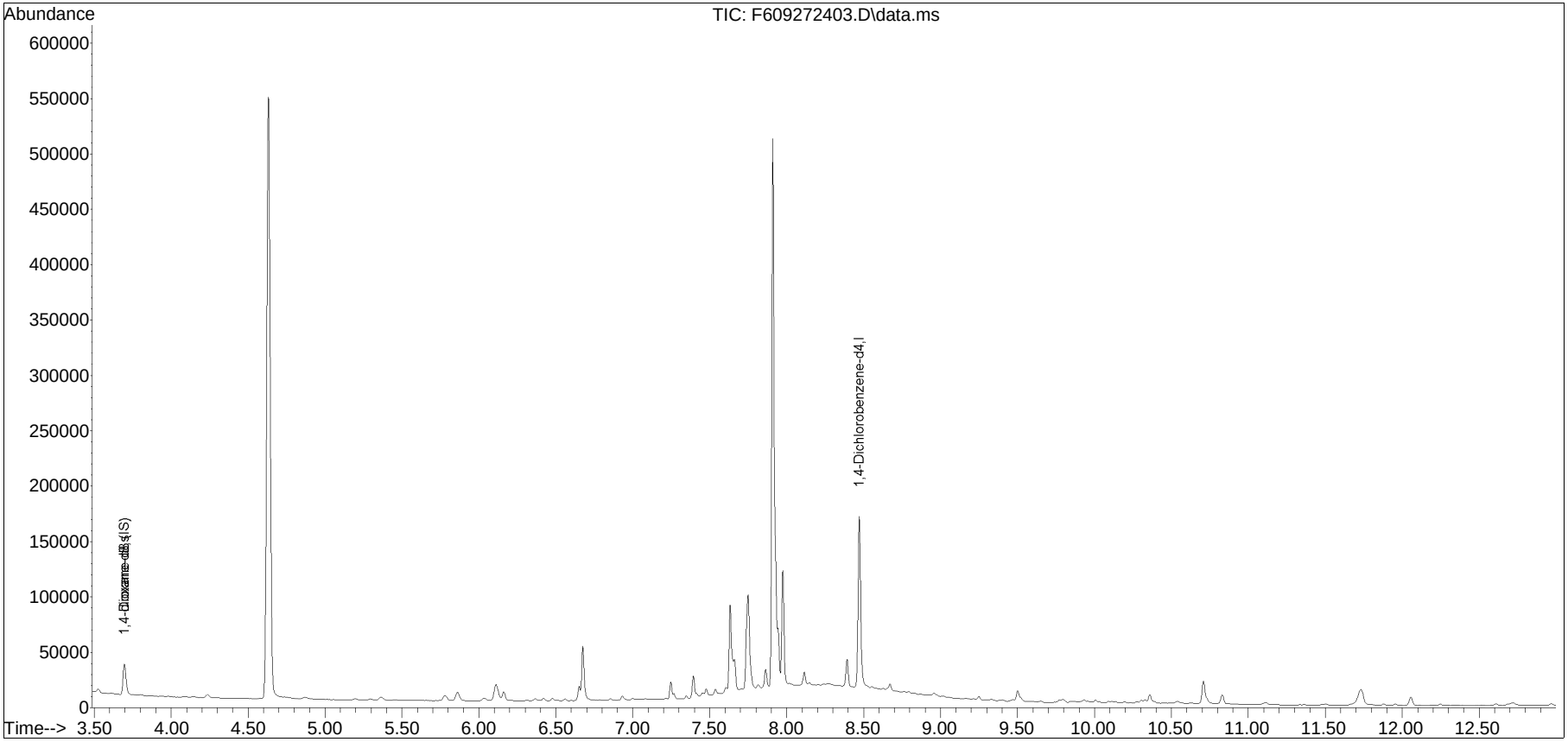
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272403.D
Acq On : 27 Sep 2024 11:38 am
Operator : GCMS6:GRS
Sample : WG1975505-1,32,,
Misc : wg1977209,wg1975505,ical21343
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 11:26:32 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 11:06:16 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

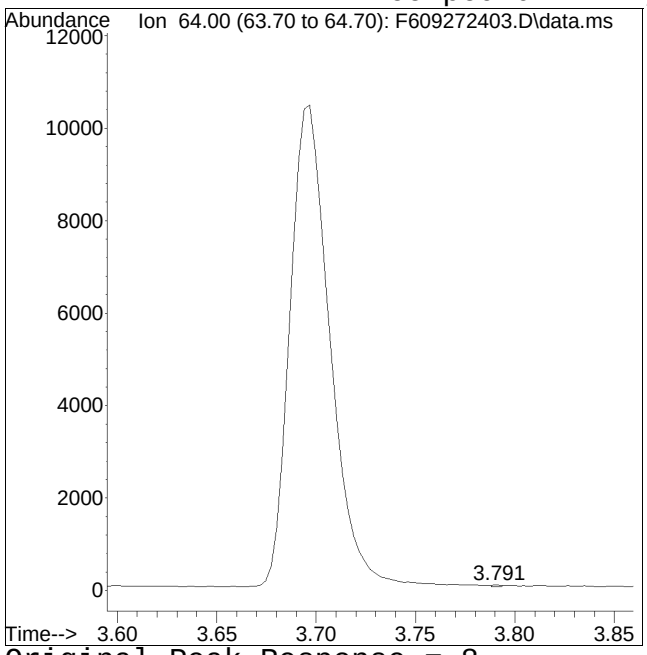


Manual Integration/Negative Proof Report

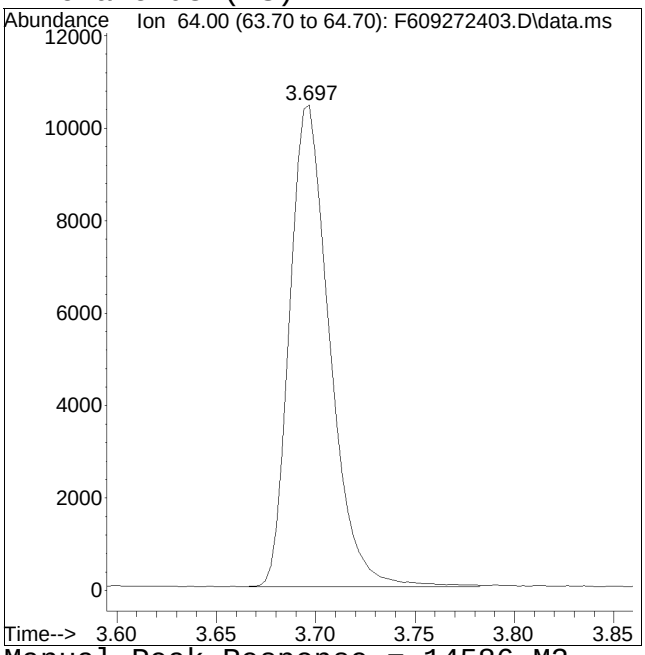
Data Path : S:\Organics\DATA\GCMS6\2024Q
Data File : F609272403.D
Date Inj'd : 9/27/2024 11:38 am
Sample : WG1975505-1,32,,

Method : 14DIOX0729GCMS6.M
Operator : GCMS6:GRS
Instrument : GCMS 6
Quant Date : 9/30/2024 11:22 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 8



Manual Peak Response = 14586 M2

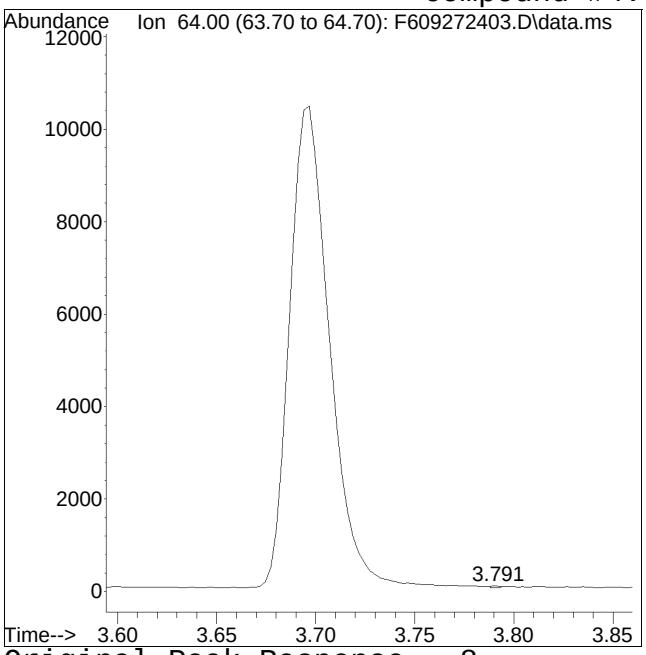
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

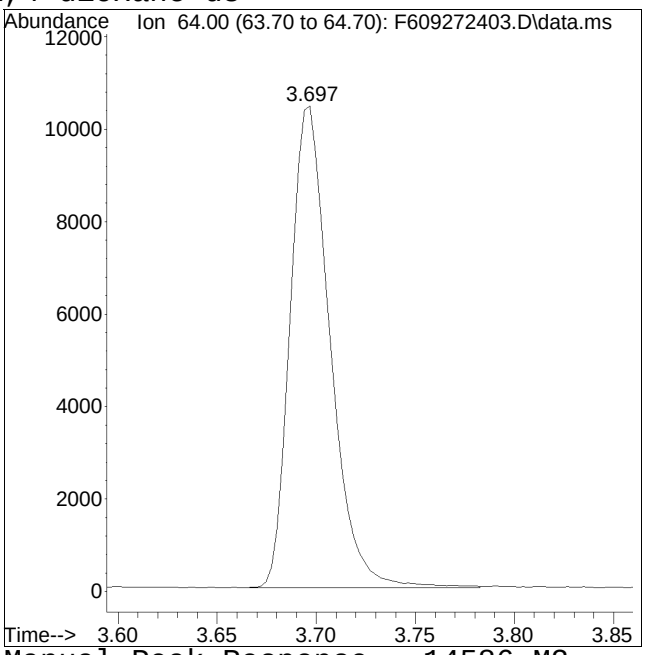
Data Path : S:\Organics\DATA\GCMS6\2024Q
Data File : F609272403.D
Date Inj'd : 9/27/2024 11:38 am
Sample : WG1975505-1,32,,

Method : 14DIOX0729GCMS6.M
Operator : GCMS6:GRS
Instrument : GCMS 6
Quant Date : 9/30/2024 11:22 am

Compound #4: 1,4-dioxane-d8



Original Peak Response = 8



Manual Peak Response = 14586 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272404.D
Acq On : 27 Sep 2024 12:02 pm
Operator : GCMS6:GRS
Sample : WG1975505-2,32,,
Misc : wg1977209,wg1975505,ical21343
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 11:22:04 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Sep 19 09:10:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.722	64	17525	500.000	ng/mL	-0.05
3) 1,4-Dichlorobenzene-d4	8.469	152	122700	500.000	ng/mL	-0.07
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.722	64	17525	224.911	ng/mL	-0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 44.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.777	88	30423	555.921	ng/mL	97

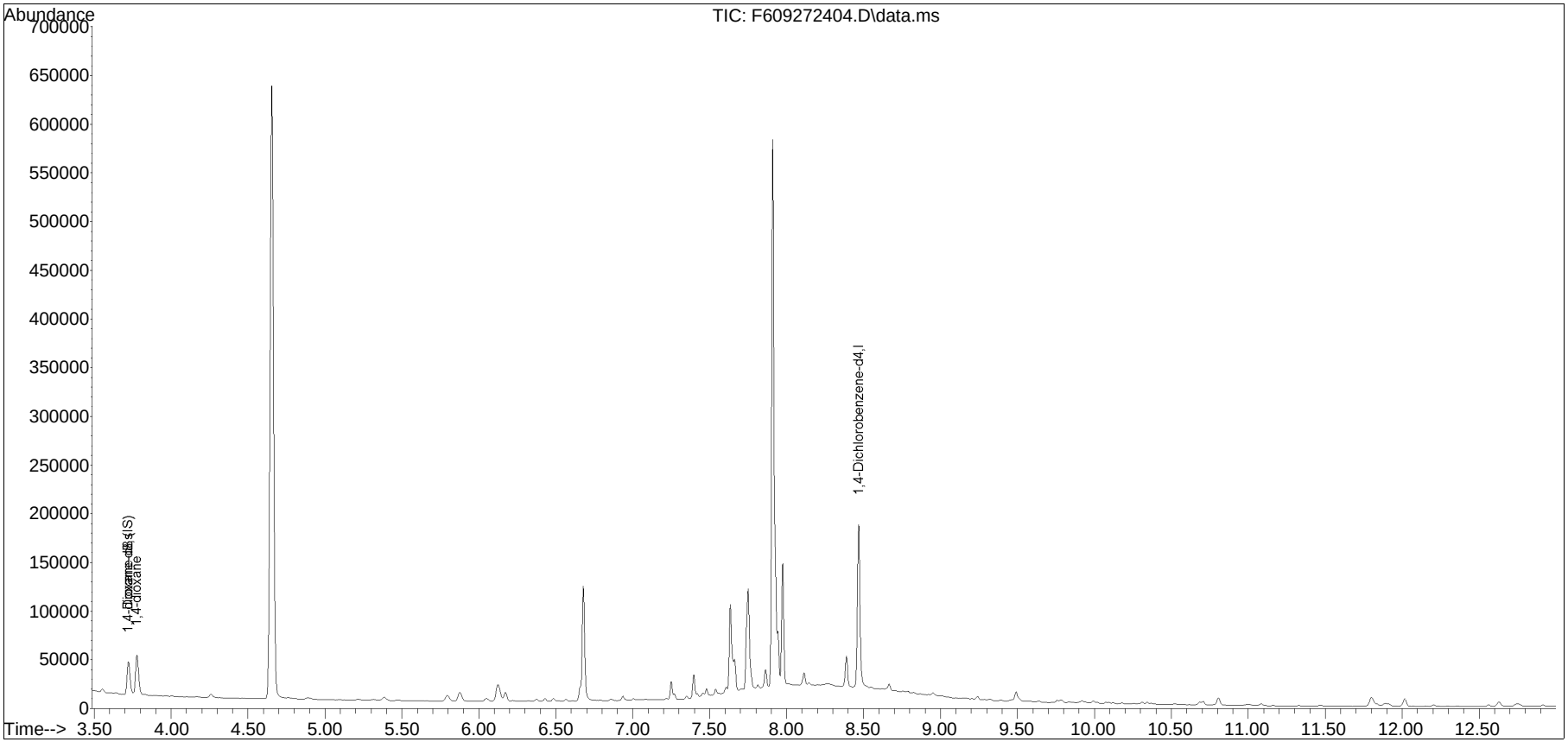
(#) = qualifier out of range (m) = manual integration (+) = signals summed

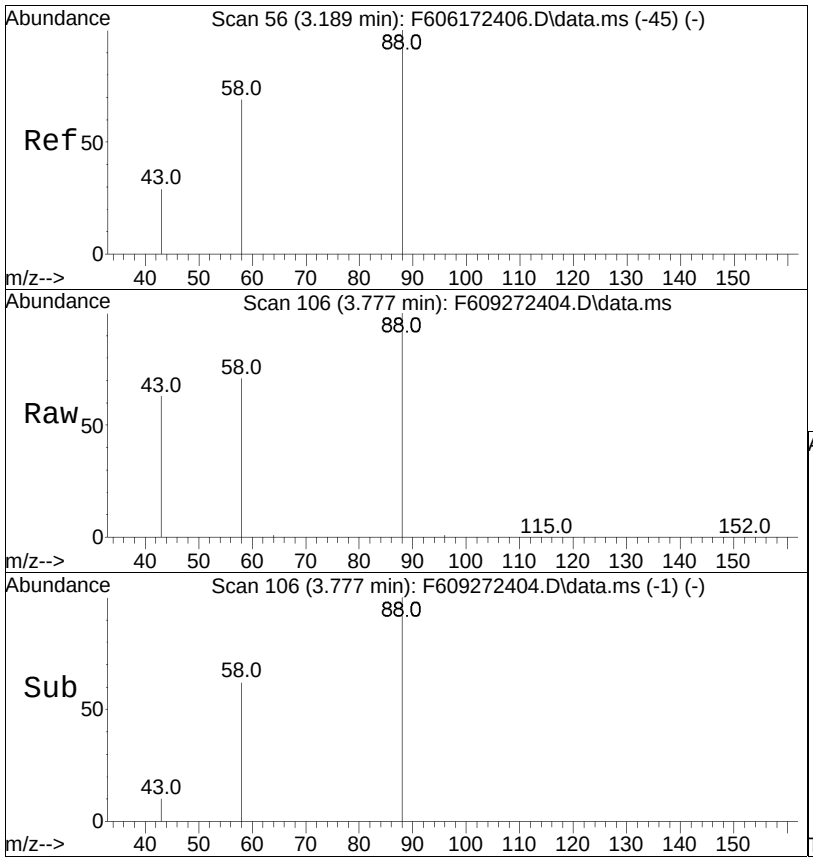
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272404.D
Acq On : 27 Sep 2024 12:02 pm
Operator : GCMS6:GRS
Sample : WG1975505-2,32,,
Misc : wg1977209,wg1975505,ical21343
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 11:22:04 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Sep 19 09:10:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

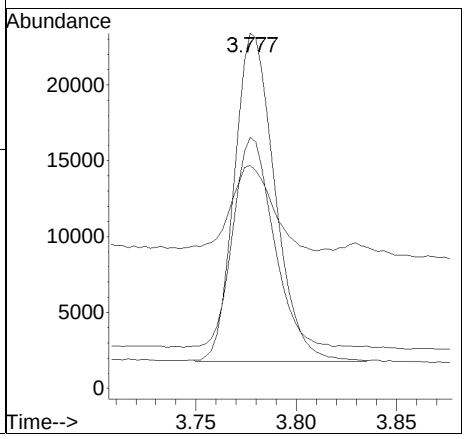




#2
1,4-dioxane
Concen: 555.92 ng/mL
RT: 3.777 min Scan# 106
Delta R.T. -0.053 min
Lab File: F609272404.D
Acq: 27 Sep 2024 12:02 pm

Tgt Ion: 88 Resp: 30423

Ion	Ratio	Lower	Upper
88	100		
58	64.2	54.0	81.0
43	26.1	21.4	32.2



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0729GCMS6.M
Data File	: F609272404.D	Operator	: GCMS6:GRS
Date Inj'd	: 9/27/2024 12:02 pm	Instrument	: GCMS 6
Sample	: WG1975505-2,32,,	Quant Date	: 9/30/2024 11:22 am

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272405.D
Acq On : 27 Sep 2024 12:27 pm
Operator : GCMS6:GRS
Sample : WG1975505-3,32,,
Misc : wg1977209,wg1975505,ical21343
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 11:28:40 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Sep 19 09:10:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.702	64	15096M2	500.000	ng/mL	-0.07
3) 1,4-Dichlorobenzene-d4	8.466	152	118533	500.000	ng/mL	-0.07
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.702	64	15096	200.548	ng/mL	-0.07
Spiked Amount 500.000	Range 15 - 115		Recovery = 40.11%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.760	88	26181M2	555.384	ng/mL	

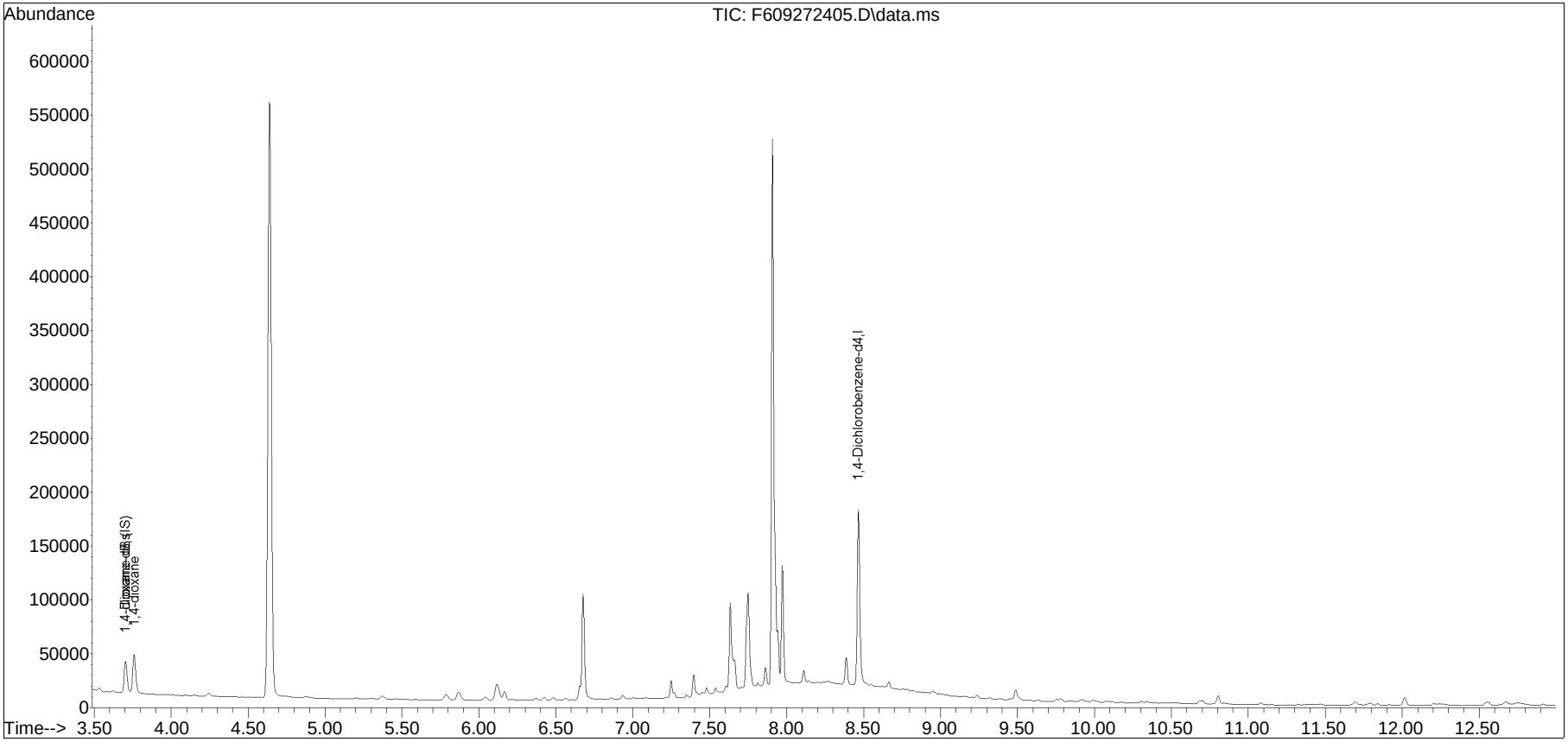
(#) = qualifier out of range (m) = manual integration (+) = signals summed

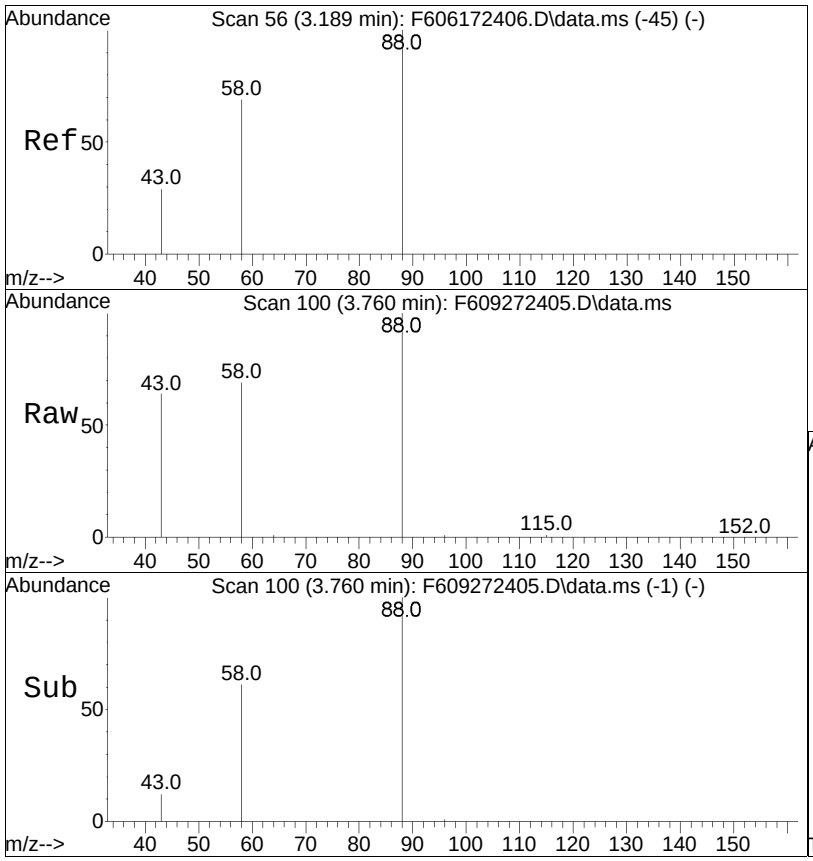
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\
Data File : F609272405.D
Acq On : 27 Sep 2024 12:27 pm
Operator : GCMS6:GRS
Sample : WG1975505-3,32,,
Misc : wg1977209,wg1975505,ical21343
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 11:28:40 2024
Quant Method : S:\Organics\DATA\GCMS6\2024\SEP\SEP27\14DIOX0729GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Sep 19 09:10:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

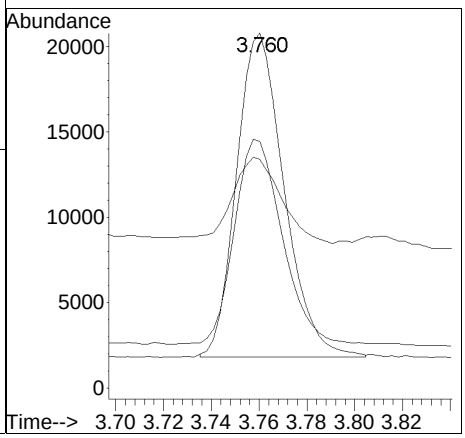




#2
1,4-dioxane
Concen: 555.38 ng/mL M2
RT: 3.760 min Scan# 100
Delta R.T. -0.070 min
Lab File: F609272405.D
Acq: 27 Sep 2024 12:27 pm

Tgt Ion: 88 Resp: 26181

Ion	Ratio	Lower	Upper
88	100		
58	71.2	54.0	81.0
43	24.7	21.4	32.2

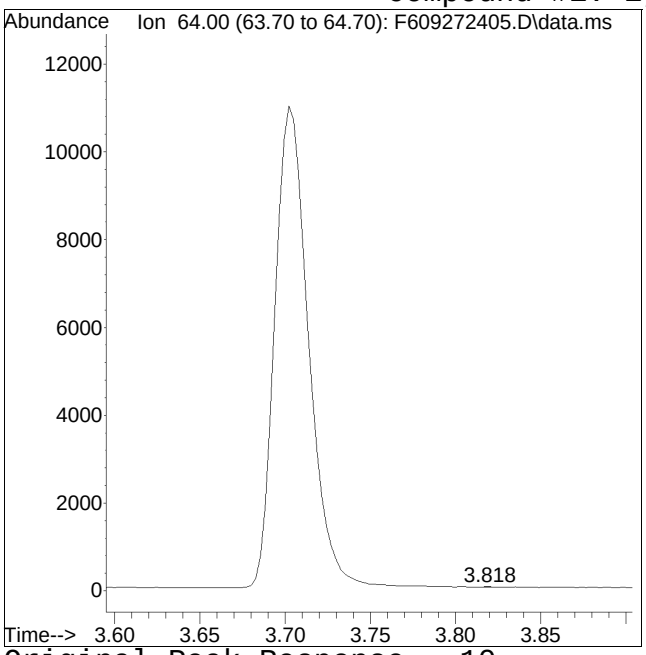


Manual Integration/Negative Proof Report

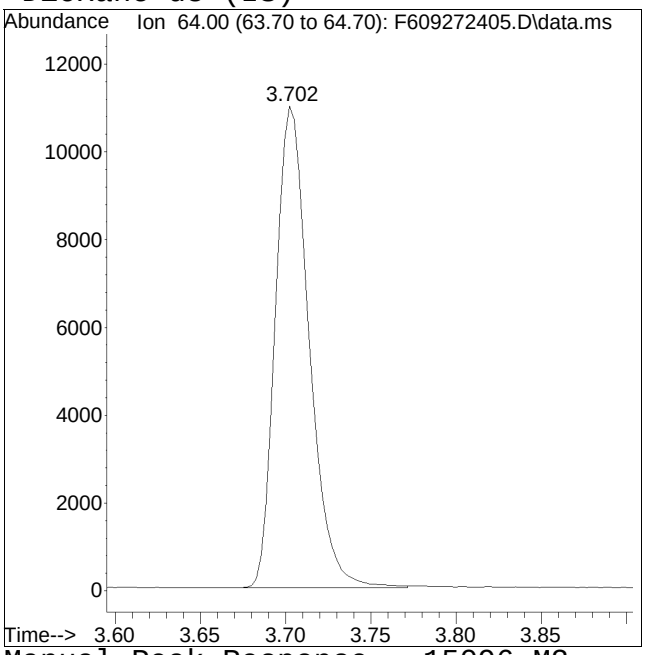
Data Path : S:\Organics\DATA\GCMS6\2024Q
Data File : F609272405.D
Date Inj'd : 9/27/2024 12:27 pm
Sample : WG1975505-3,32,,

Method : 14DIOX0729GCMS6.M
Operator : GCMS6:GRS
Instrument : GCMS 6
Quant Date : 9/30/2024 11:22 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 10



Manual Peak Response = 15096 M2

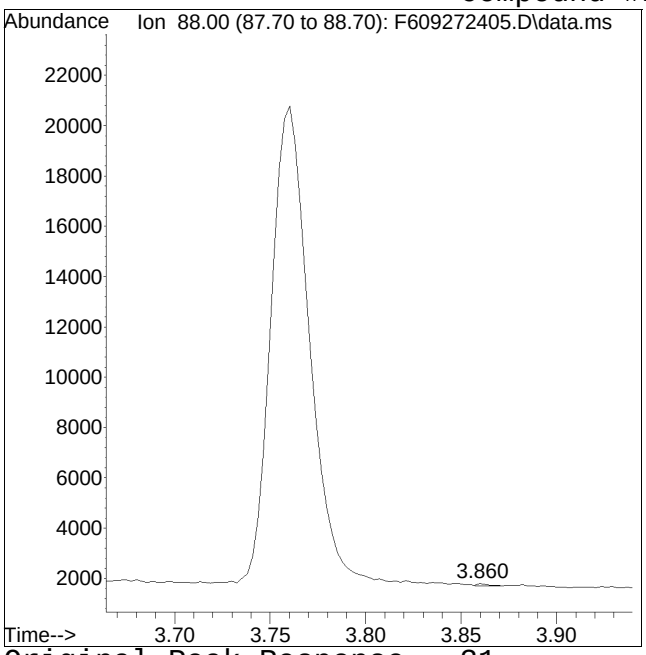
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

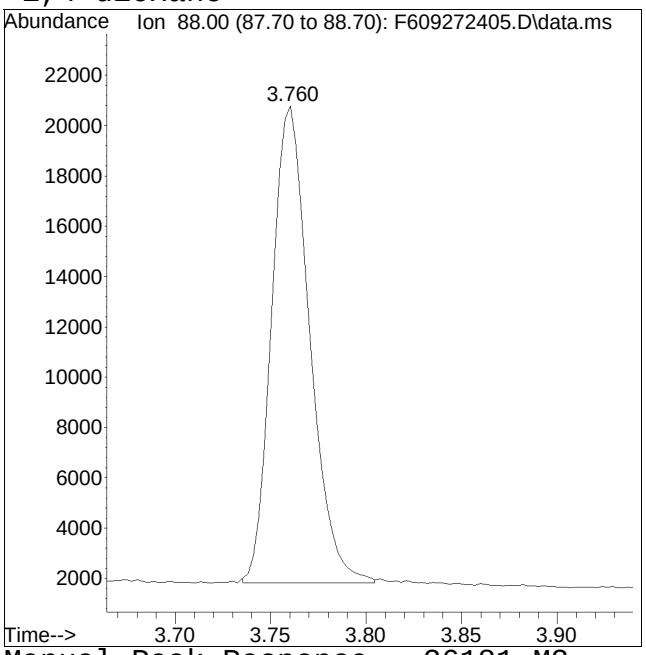
Data Path : S:\Organics\DATA\GCMS6\2024Q
Data File : F609272405.D
Date Inj'd : 9/27/2024 12:27 pm
Sample : WG1975505-3,32,,

Method : 14DIOX0729GCMS6.M
Operator : GCMS6:GRS
Instrument : GCMS 6
Quant Date : 9/30/2024 11:22 am

Compound #2: 1,4-dioxane



Original Peak Response = 31



Manual Peak Response = 26181 M2

M2 = Peak not found by automatic integration algorithm.

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Oct 03 2024, 12:52 pm

Work Group: WG1977209 for Department: 32 GC/MS - Semivolatiles

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

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453990-03	W-121-12-091924	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2453990-05	W-122-13-091924	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2453990-06	W-122-28-091924	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2453990-09	W-40-13-091924-D	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454059-01	MW-4S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454061-03	DUP-01-20240919	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454061-04	PGWPB-01(3-5)-20240919	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454061-05	PGWPB-01(8-10)-20240919	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454061-06	PGWPB-01(13-15)-20240919	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454061-07	PGWPB-02(3-5)-20240919	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454061-08	PGWPB-02(8-10)-20240919	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454061-09	PGWPB-02(13-15)-20240919	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2454339-01	MW-23S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0924	0927	S0	Amber-A.25
L2454339-02	MW-23I	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0924	0927	S0	Amber-A.25
L2454339-03	MW-23D	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0924	0927	S0	Amber-A.25
L2454339-04	MW-24	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0924	0927	S0	Amber-A.25
WG1975505-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1975505-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1975505-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1975505-5	Duplicate Sample	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1975514-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1975514-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1975514-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1975518-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975518-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975518-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1977209-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1977209-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1977209-1	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1977209-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1977209-2	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1977209-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				

Comments:

WG1975505-3	WG1975505-2
WG1975505-5	L2453990-09
WG1975514-3	WG1975514-2
WG1975518-3	WG1975518-2

Analysis log File

Total Files Reported in Log : 9
Log Generated From Directory: O:\Organics\DATA\GCMS6\2024\JUL\JUL29\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F607292401.D	DFTPPGCMS6.M	T607292401	WG1952684,MSBU36	7/29/2024 8:40 am
2	F607292402.D	GCMS614DX@1U	I607292401	WG1952684,MSBU51	7/29/2024 9:17 am
3	F607292403.D	GCMS614DX@1U	I607292402	WG1952684,MSBU52	7/29/2024 9:40 am
4	F607292404.D	GCMS614DX@1U	I607292403	WG1952684,MSBU53	7/29/2024 10:01 am
5	F607292405.D	GCMS614DX@1U	I607292404	WG1952684,MSBU54	7/29/2024 10:23 am
6	F607292406.D	GCMS614DX@1U	I607292405	WG1952684,MSBU55	7/29/2024 10:45 am
7	F607292407.D	GCMS614DX@1U	I607292406	WG1952684,MSBU56	7/29/2024 11:07 am
8	F607292408.D	GCMS614DX@1U	I607292407	WG1952684,MSBU50	7/29/2024 11:29 am
9	F607292409.D	GCMS614DX@1U	CQ607292401	WG1952684,MSBU02	7/29/2024 11:50 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 27
Log Generated From Directory: S:\Organics\DATA\GCMS6\2024\SEP\SEP27\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F609272401.D	DFTPPGCMS6.M	WG1977209-1	WG1977209,,ICAL21343,MS..	9/27/2024 9:57 am
2	F609272402.D	GCMS614DX@1U	WG1977209-2	WG1977209,,ICAL21343,MS..	9/27/2024 10:37 am
3	F609272403.D	GCMS614DX@1U	WG1975518-1,32,,	wg1977209,wg1975518,ica..	9/27/2024 11:38 am
4	F609272404.D	GCMS614DX@1U	WG1975518-2,32,,	wg1977209,wg1975518,ica..	9/27/2024 12:02 pm
5	F609272405.D	GCMS614DX@1U	WG1975518-3,32,,	wg1977209,wg1975518,ica..	9/27/2024 12:27 pm
6	F609272406.D	GCMS614DX@1U	L2454298-03,32,,	OVERCAL, SEE 10X DL	9/27/2024 12:53 pm
7	F609272407.D	GCMS614DX@1U	L2453990-03,32,,	wg1977209,wg1975505,ica..	9/27/2024 1:20 pm
8	F609272408.D	GCMS614DX@1U	L2453990-04,32,,	OVERCAL, SEE 2X DL	9/27/2024 1:46 pm
9	F609272409.D	GCMS614DX@1U	L2453990-05,32,,	wg1977209,wg1975505,ica..	9/27/2024 2:13 pm
10	F609272410.D	GCMS614DX@1U	L2453990-06,32,,	wg1977209,wg1975505,ica..	9/27/2024 2:39 pm
11	F609272411.D	GCMS614DX@1U	L2453990-07,32,,	IS INTERFERENCE, SEE 10..	9/27/2024 3:05 pm
12	F609272412.D	GCMS614DX@1U	L2453990-08,32,,	IS INTERFERENCE, SEE 5X..	9/27/2024 3:32 pm
13	F609272413.D	GCMS614DX@1U	WG1975505-4,32,,	IS INTERFERENCE, SEE 5X..	9/27/2024 3:57 pm
14	F609272414.D	GCMS614DX@1U	L2453990-09,32,,	wg1977209,wg1975505,ica..	9/27/2024 4:23 pm
15	F609272415.D	GCMS614DX@1U	WG1975505-5,32,,	wg1977209,wg1975505,ica..	9/27/2024 4:49 pm
16	F609272416.D	GCMS614DX@1U	L2454059-01,32,,	wg1977209,wg1975505,ica..	9/27/2024 5:15 pm
17	F609272417.D	GCMS614DX@1U	L2454339-01,32,,	wg1977209,wg1975505,ica..	9/27/2024 5:41 pm
18	F609272418.D	GCMS614DX@1U	L2454339-02,32,,	wg1977209,wg1975505,ica..	9/27/2024 6:08 pm
19	F609272419.D	GCMS614DX@1U	L2454339-03,32,,	wg1977209,wg1975505,ica..	9/27/2024 6:34 pm
20	F609272420.D	GCMS614DX@1U	L2454339-04,32,,	wg1977209,wg1975505,ica..	9/27/2024 7:00 pm
21	F609272421.D	GCMS614DX@1U	L2454061-04,32,,	wg1977209,wg1975514,ica..	9/27/2024 7:25 pm
22	F609272422.D	GCMS614DX@1U	L2454061-03,32,,	wg1977209,wg1975514,ica..	9/27/2024 7:50 pm
23	F609272423.D	GCMS614DX@1U	L2454061-05,32,,	wg1977209,wg1975514,ica..	9/27/2024 8:16 pm
24	F609272424.D	GCMS614DX@1U	L2454061-06,32,,	wg1977209,wg1975514,ica..	9/27/2024 8:41 pm
25	F609272425.D	GCMS614DX@1U	L2454061-07,32,,	wg1977209,wg1975514,ica..	9/27/2024 9:05 pm
26	F609272426.D	GCMS614DX@1U	L2454061-08,32,,	wg1977209,wg1975514,ica..	9/27/2024 9:30 pm
27	F609272427.D	GCMS614DX@1U	L2454061-09,32,,	wg1977209,wg1975514,ica..	9/27/2024 9:55 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG1975505

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089-US
Surrogate Type: 1,4-DIOXANE **Lot #:** MSBU58
Spike Type: 1,4-DIOXANE **Lot #:** MSBU59
Spike Verify by: AMC
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

NaOH	OWB061124A
Na2SO4	ON091324F
Glass Wool	16022999

Conc.Method: S-EVAP/N-EVAP
Solvent Type: DCM
Lot #: EJ089-US

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453990-03 SAMP	09/24/24 10:45	Ryan Michaels	250	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2453990-04 SAMP	09/24/24 10:45	Ryan Michaels	270	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2453990-05 SAMP	09/24/24 10:45	Ryan Michaels	250	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2453990-06 SAMP	09/24/24 10:45	Ryan Michaels	270	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2453990-07 SAMP	09/24/24 10:45	Ryan Michaels	260	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2453990-08 SAMP	09/24/24 10:45	Ryan Michaels	260	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2453990-09 SAMP	09/24/24 10:45	Ryan Michaels	260	I=4 ->7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10

INITIAL PH 4 BROUGHT TO NEUTRAL WITH BASE

Reported: 03-OCT-24 12:52 PM

ORGANIC ELN REPORT

Workgroup: WG1975505

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2454059-01 SAMP	09/24/24 10:45	Ryan Michaels	260	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2454339-01 SAMP	09/24/24 10:45	Ryan Michaels	250	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2454339-02 SAMP	09/24/24 10:45	Ryan Michaels	250	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2454339-03 SAMP	09/24/24 10:45	Ryan Michaels	250	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
L2454339-04 SAMP	09/24/24 10:45	Ryan Michaels	250	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
WG1975505-1 BLANK	09/24/24 10:45	Ryan Michaels	250	7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
	SHARING QCS WITH WG1975514, WG1975518									
WG1975505-2 LCS	09/24/24 10:45	Ryan Michaels	250	7	.25	.25	09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
WG1975505-3 LCSD	09/24/24 10:45	Ryan Michaels	250	7	.25	.25	09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
WG1975505-4 MS	09/24/24 10:45	Ryan Michaels	270	7	.25	.25	09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
WG1975505-5 DUP	09/24/24 10:45	Ryan Michaels	260	I=4 ->7	.25		09/24/24 13:18	Ryan Michaels	2.5	SEVAP 3/NEV AP10
	INITIAL PH 4 BROUGHT TO NEUTRAL WITH BASE									

Reported: 03-OCT-24 12:52 PM

GC Extractable Analysis
Herbicides

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

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

Lab Number: L2454059
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-4S (L2454059-01)	97	92	--	--			0
MW-4D2 (L2454059-02)	96	89	--	--			0
WG1976393-1BLANK	86	83	--	--			0
WG1976393-2LCS	97	107	--	--			0
WG1976393-3LCSD	169*	168*	--	--			2

QC LIMITS
(30-150) S1 = DCAA

*** Values outside of QC limits**

FORM II HERB-8151

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976393-2 **Analysis Date** : 09/27/24 04:40	**File ID**	: 22240926a-68
LCSD Sample ID	: WG1976393-3 **Analysis Date** : 09/27/24 04:58	**File ID**	: 22240926a-69

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	500	605	121	500	652	130	7	30-150	25
MCPA	500	540	108	500	525	105	3	30-150	25
Dalapon	5	3.61	72	5	3.11	62	15	30-150	25
Dicamba	5	5.21	104	5	5.06	101	3	30-150	25
Dichloroprop	5	5.63	113	5	5.16	103	9	30-150	25
2,4-D	5	5.05	101	5	4.96	99	2	30-150	25
2,4-DB	5	5.48	110	5	4.96	99	11	30-150	25
2,4,5-T	5	5.18	104	5	4.90	98	6	30-150	25
2,4,5-TP (Silvex)	5	4.97	99	5	4.83	97	2	30-150	25
Dinoseb	5	3.52	70	5	3.29	66	6	30-150	25

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976393-1	**Lab File ID**	: 22240926a-67
Matrix	: WATER	**Extraction Date**	: 09/25/24
Analysis Date (1)	: 09/27/24 04:21	**Analysis Date (2)**	: 09/27/24 04:21
Instrument ID (1)	: PEST22	**Instrument ID (2)**	: PEST22

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1976393-2LCS	WG1976393-2	09/27/24 04:40	09/27/24 04:40
WG1976393-3LCSD	WG1976393-3	09/27/24 04:58	09/27/24 04:58
MW-4S	L2454059-01	09/27/24 05:17	09/27/24 05:17
MW-4D2	L2454059-02	09/27/24 05:36	09/27/24 05:36

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Initial Calib. Date(s)**	: 09/20/24 09/20/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1879093-1	09/20/24 11:42
Herbicides L2	R1879093-2	09/20/24 12:01
Herbicides L3	R1879093-3	09/20/24 12:20
Herbicides L4	R1879093-4	09/20/24 12:38
Herbicides L5	R1879093-5	09/20/24 12:57
Herbicides L6	R1879093-6	09/20/24 13:15
R1879093-7 ICV	R1879093-7	09/20/24 13:34
WG1976540-5 CCAL	WG1976540-5	09/27/24 00:01
WG1976393-1 BLANK	WG1976393-1	09/27/24 04:21
WG1976393-2 LCS	WG1976393-2	09/27/24 04:40
WG1976393-3 LCSD	WG1976393-3	09/27/24 04:58
MW-4S	L2454059-01	09/27/24 05:17
MW-4D2	L2454059-02	09/27/24 05:36

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14024-1
Page: 1

Herbicides -EPA 8151A Long List (WATER)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	500	58.5	ug/l	30-150	25	30-150	25	25			
MCPA	94-74-6	500	63.2	ug/l	30-150	25	30-150	25	25			
Dalapon	75-99-0	20	0.81	ug/l	30-150	25	30-150	25	25			
Dicamba	1918-00-9	1	0.243	ug/l	30-150	25	30-150	25	25			
Dichloroprop	120-36-5	10	0.564	ug/l	30-150	25	30-150	25	25			
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4-DB	94-82-6	10	0.729	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
Dinoseb	88-85-7	5	0.573	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

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

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

Herbicides -EPA 8151A Long List (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	3.33	1.04895	mg/kg	30-150	30	30-150	30	30			
MCPA	94-74-6	3.33	0.94239	mg/kg	30-150	30	30-150	30	30			
Dalapon	75-99-0	0.0333	0.0108891	mg/kg	30-150	30	30-150	30	30			
Dicamba	1918-00-9	0.0333	0.0055944	mg/kg	30-150	30	30-150	30	30			
Dichloroprop	120-36-5	0.0333	0.0095571	mg/kg	30-150	30	30-150	30	30			
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4-DB	94-82-6	0.1665	0.0085581	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

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

Herbicide Sample Data

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 05:17
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-70	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 05:36
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-71	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976393-1	**Date Collected**	: NA
Client ID	: WG1976393-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 04:21
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-67	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-70.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 05:17
Operator : pest22:akm
Sample : L2454059-01,42,,
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:08 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.435	1232.2E6	1594.6E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery =	93.97%	
	Standard Area 1 : #2 = 1679118582				Recovery =	94.97%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.361	438.9E6	553.4E6	0.484M4	0.458M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	96.80%	91.60%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

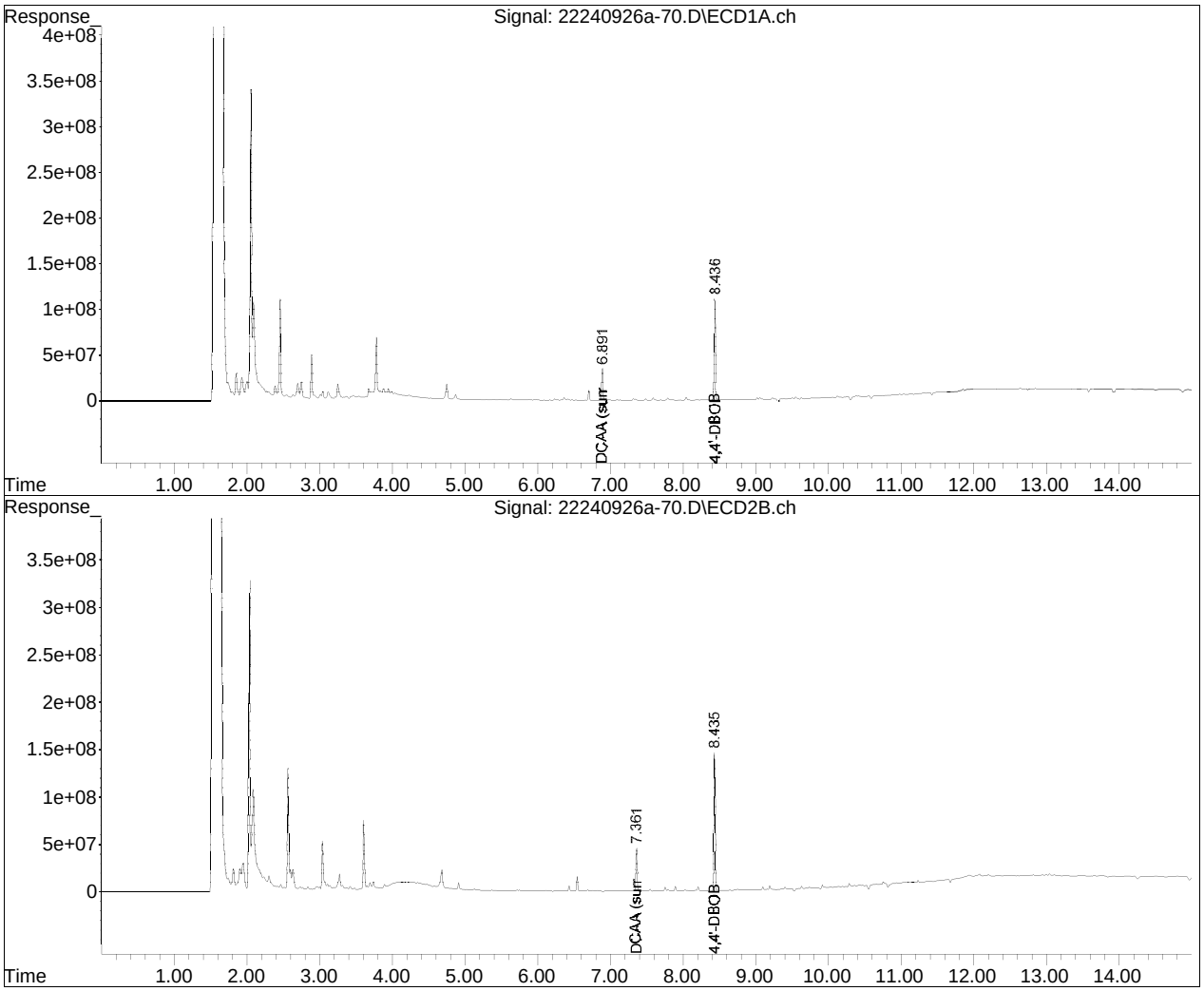
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-70.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 05:17
Operator : pest22:akm
Sample : L2454059-01,42,,
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:08 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

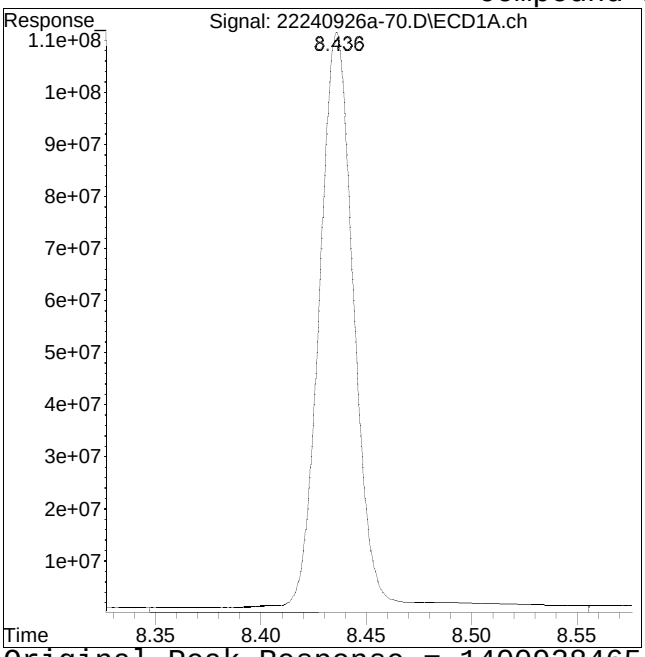
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

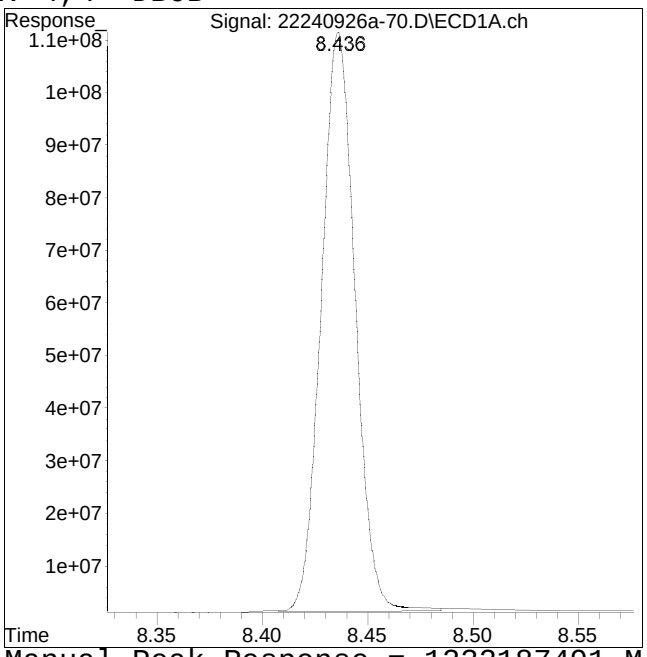


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-70.D Operator : pest22:akm
Date Inj'd : 9/27/2024 5:17 Instrument : Pest22
Sample : L2454059-01,42,, Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



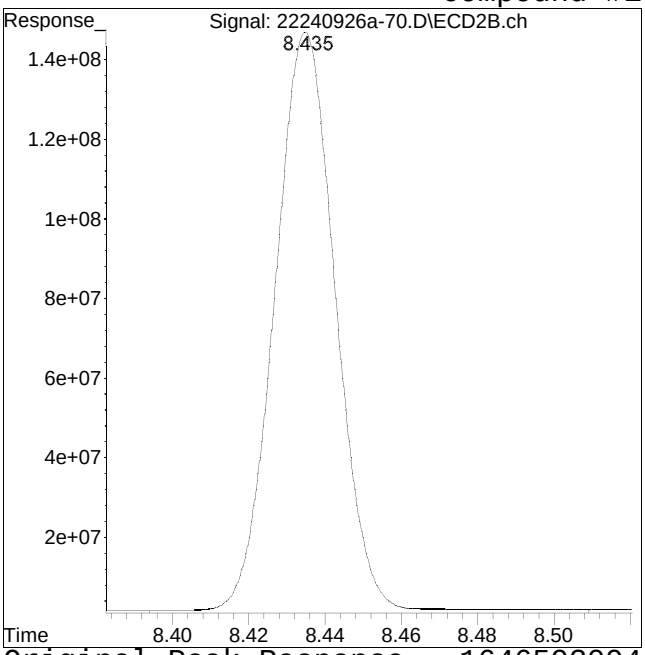


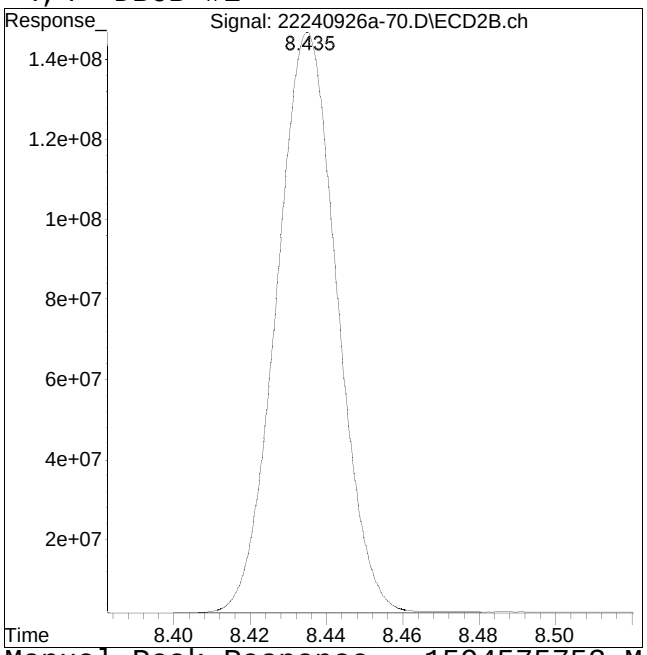
Original Peak Response = 1400928465 Manual Peak Response = 1232187491 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-70.D Operator : pest22:akm
Date Inj'd : 9/27/2024 5:17 Instrument : Pest22
Sample : L2454059-01,42,, Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



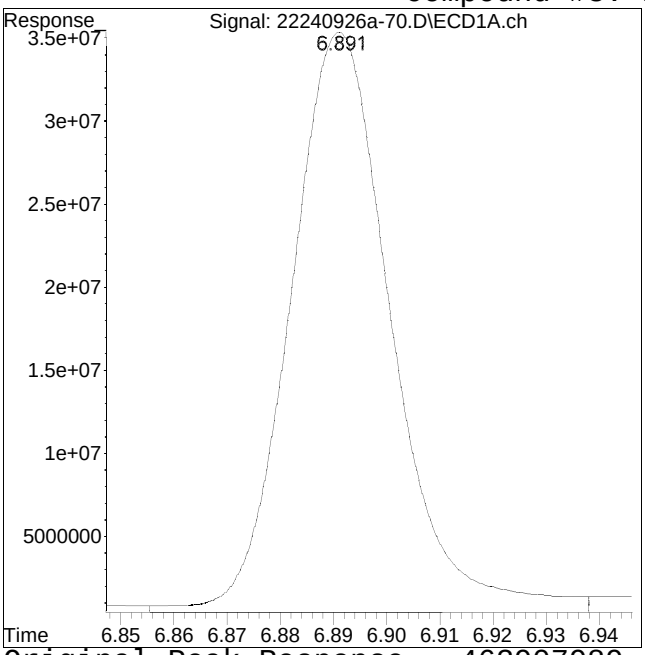


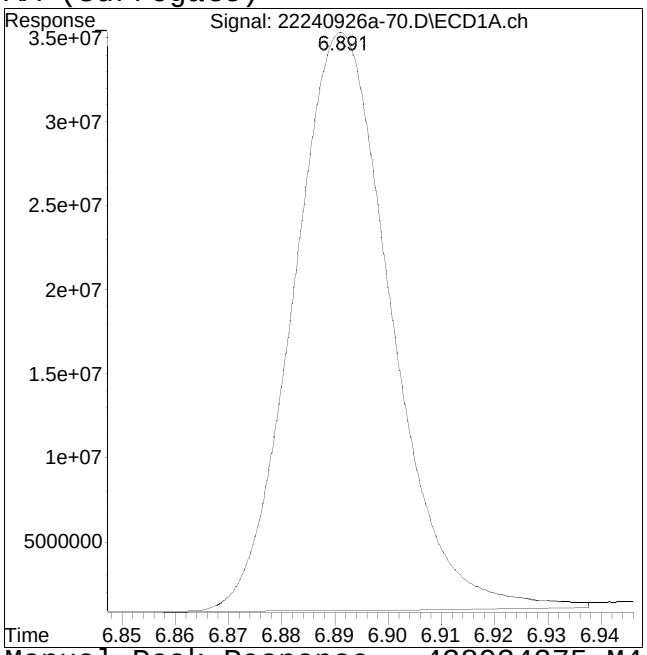
Original Peak Response = 1646593094 Manual Peak Response = 1594575753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-70.D Operator : pest22:akm
Date Inj'd : 9/27/2024 5:17 Instrument : Pest22
Sample : L2454059-01,42,, Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



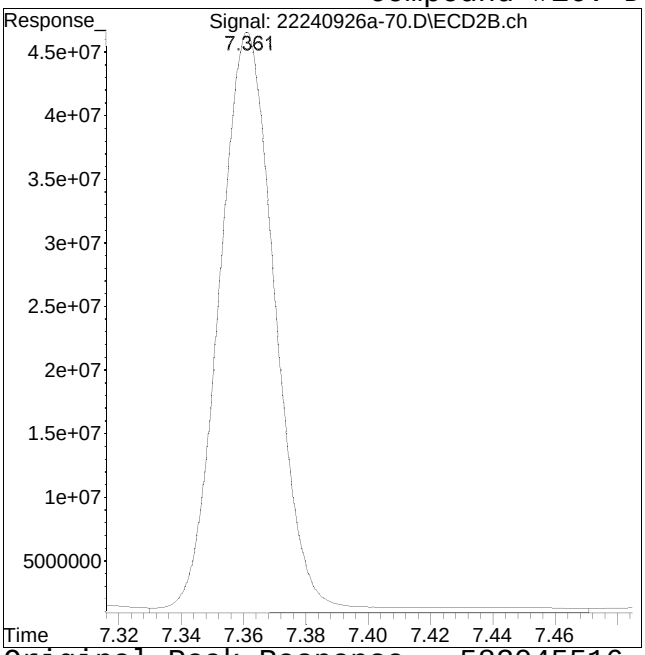


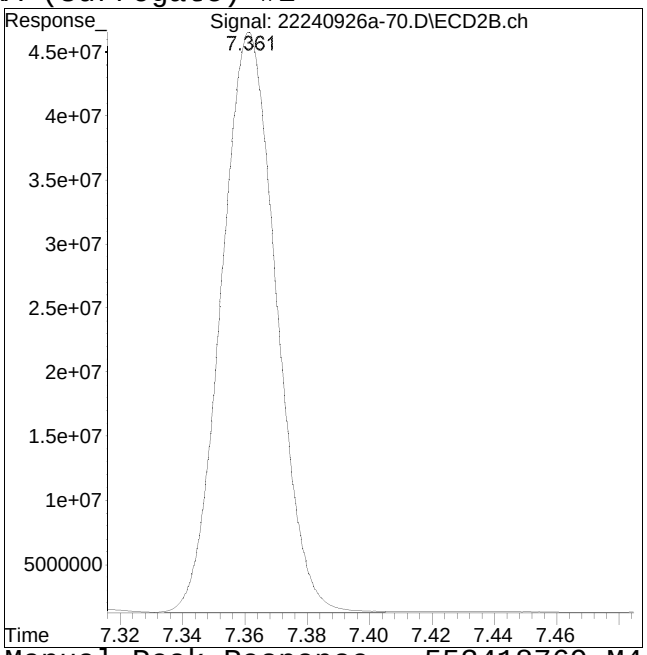
Original Peak Response = 463907989 Manual Peak Response = 438934275 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-70.D Operator : pest22:akm
Date Inj'd : 9/27/2024 5:17 Instrument : Pest22
Sample : L2454059-01,42,, Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 583045516 Manual Peak Response = 553418769 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-71.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 05:36
Operator : pest22:akm
Sample : L2454059-02,42,,
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:09 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.434	1355.5E6	1746.7E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery = 103.37%		
	Standard Area 1 : #2 = 1679118582				Recovery = 104.02%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.890	7.361	479.6E6	587.6E6	0.481M4	0.444M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	96.20%	88.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

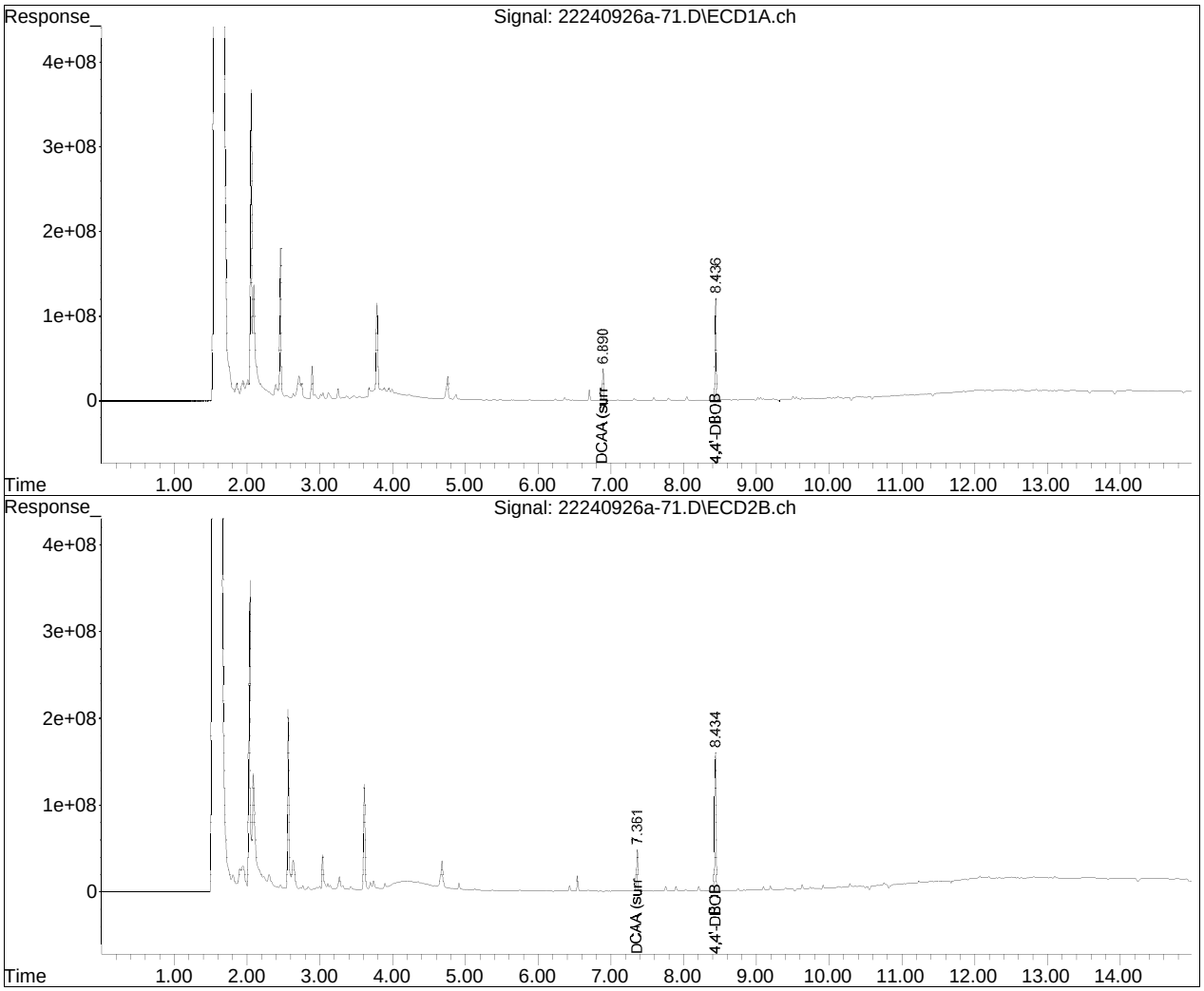
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-71.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 05:36
Operator : pest22:akm
Sample : L2454059-02,42,,
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:09 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

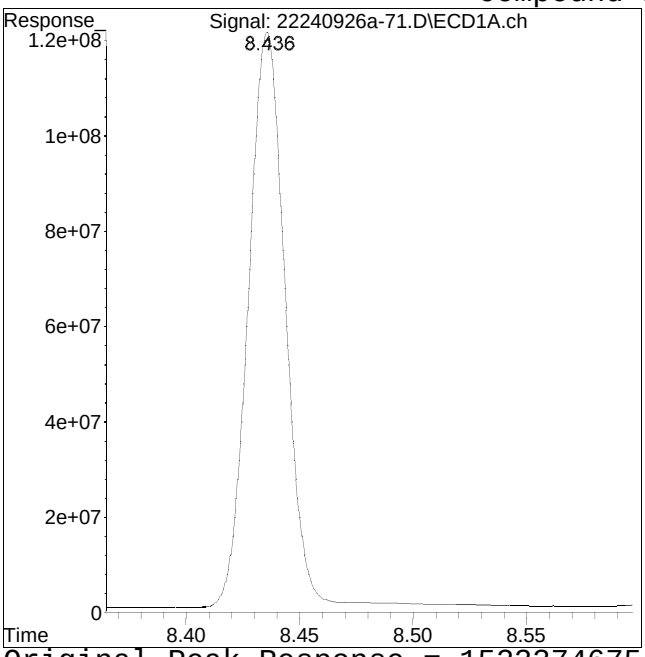
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

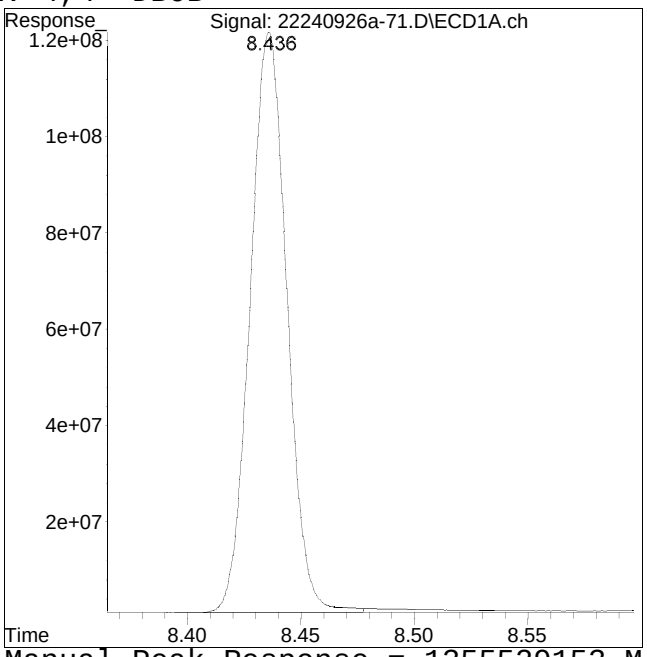


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-71.D Operator : pest22:akm
Date Inj'd : 9/27/2024 5:36 Instrument : Pest22
Sample : L2454059-02,42,, Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



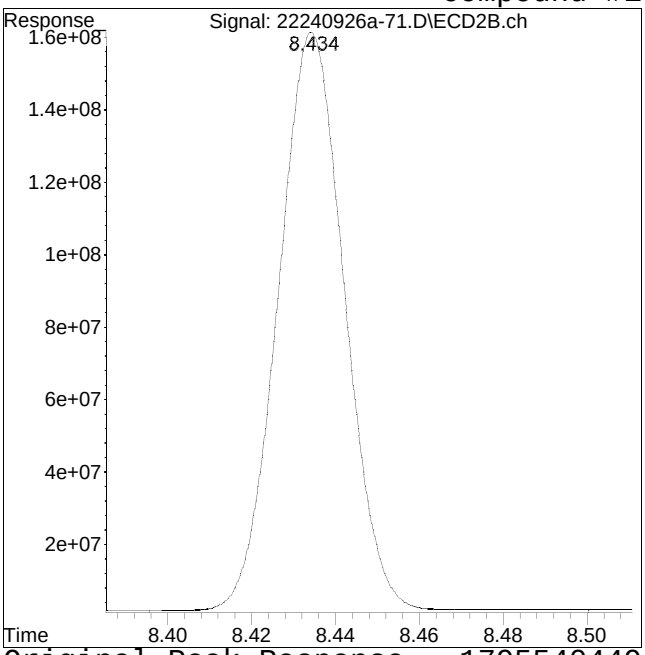


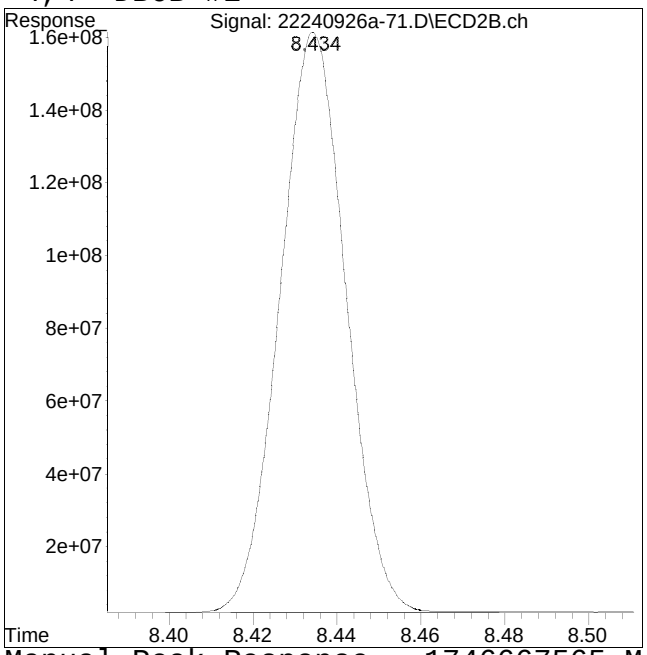
Original Peak Response = 1523374675 Manual Peak Response = 1355529153 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-71.D Operator : pest22:akm
Date Inj'd : 9/27/2024 5:36 Instrument : Pest22
Sample : L2454059-02,42,, Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



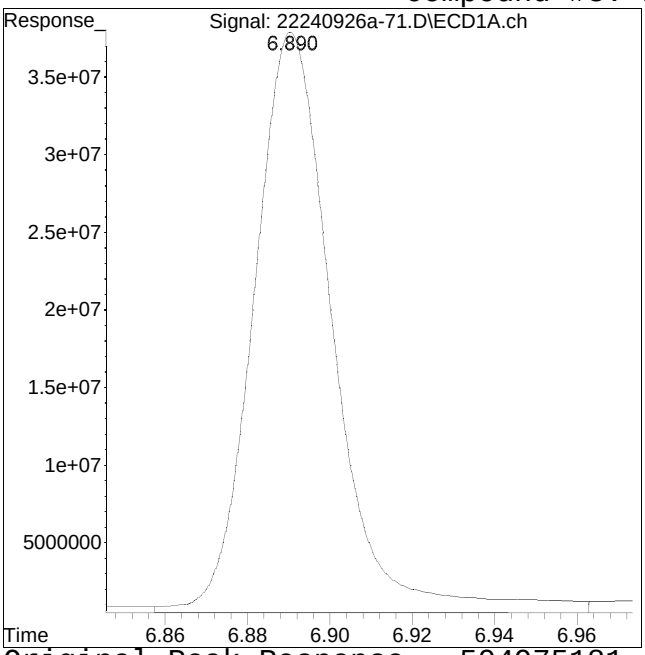


Original Peak Response = 1795540449 Manual Peak Response = 1746667565 M4
M4 = Poor automated baseline construction.

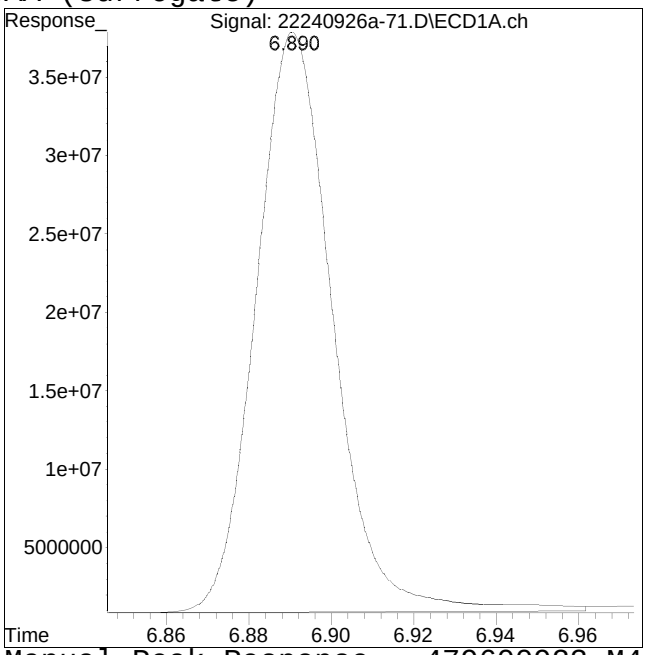
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-71.D Operator : pest22:akm
Date Inj'd : 9/27/2024 5:36 Instrument : Pest22
Sample : L2454059-02,42,, Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



Original Peak Response = 504975181

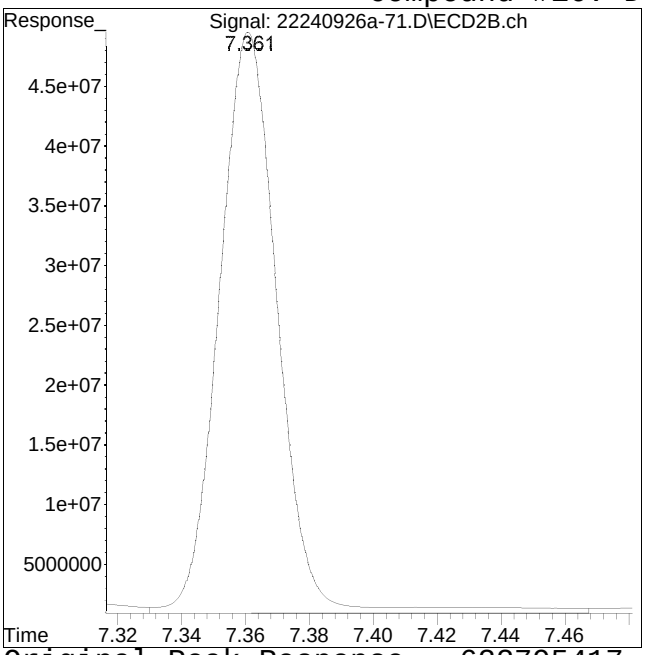


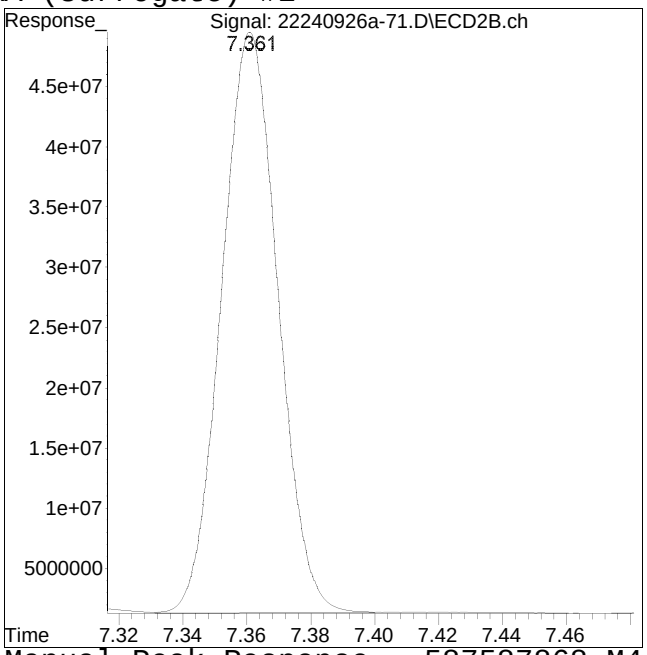
Manual Peak Response = 479600923 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-71.D Operator : pest22:akm
Date Inj'd : 9/27/2024 5:36 Instrument : Pest22
Sample : L2454059-02,42,, Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 622795417 Manual Peak Response = 587587868 M4
M4 = Poor automated baseline construction.

Herbicides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21511**
Calibration dates	**: 09/20/24 11:42 09/20/24 13:15**		

Calibration Files

1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D

6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.268	0.253	0.244	0.207	0.196		0.234	13.27
3)	s	DCAA (surrogate)	0.213	0.207	0.200	0.180	0.159	0.146	0.184	14.76
4)	t	Dicamba	0.663	0.640	0.602	0.542	0.487	0.471	0.568	14.09
5)	t	MCPP	0.000	0.000	0.001	0.001	0.001	0.001	0.000	10.39
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.36
7)	t	Dichloroprop	0.218	0.201	0.190	0.162	0.144	0.134	0.175	19.07
8)	t	2,4-D	0.260	0.236	0.223	0.201	0.182	0.174	0.213	15.60
9)	t	2,4,5-TP (Silvex)	0.882	0.856	0.832	0.739	0.680	0.645	0.772	12.73
10)	t	2,4,5-T	0.939	0.859	0.837	0.747	0.695	0.676	0.792	12.99
11)	t	2,4-DB	0.141	0.121	0.123	0.110	0.103	0.098	0.116	13.37
12)	t	Dinoseb	0.754	0.680	0.636	0.533	0.481	0.459	0.590	19.96

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21511**
Calibration dates	**: 09/20/24 11:42 09/20/24 13:15**		

Signal #2 Calibration Files

1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D

6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.225	0.227	0.203	0.179	0.176		0.202	12.00
3)	s	DCAA (surrogate)	0.235	0.227	0.198	0.174	0.155	0.148	0.189	19.30
4)	t	Dicamba	0.638	0.604	0.557	0.497	0.457	0.447	0.534	14.78
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	8.78
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.33
7)	t	Dichloroprop	0.214	0.201	0.182	0.160	0.142	0.136	0.173	18.35
8)	t	2,4-D	0.270	0.252	0.231	0.204	0.189	0.185	0.222	15.74
9)	t	2,4,5-TP (Sil	0.905	0.874	0.820	0.723	0.673	0.659	0.776	13.57
10)	t	2,4,5-T	0.863	0.859	0.799	0.713	0.687	0.685	0.768	10.90
11)	t	2,4-DB	0.143	0.139	0.131	0.117	0.113	0.111	0.126	11.01
12)	t	Dinoseb	0.557	0.554	0.517	0.455	0.429	0.425	0.490	12.42

Response Factor Report Pest22

Method Path : I:\PEST\Pest22\2024\240920ical\
Method File : Herb22_2024_09_20_mgL_ICAL.m
Title : herb
Last Update : Mon Sep 23 11:28:20 2024
Response Via : Initial Calibration

Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon		0.268	0.253	0.244	0.207	0.196	0.234	13.27
3)	s	DCAA (surrogate)	0.213	0.207	0.200	0.180	0.159	0.146	0.184	14.76
4)	t	Dicamba	0.663	0.640	0.602	0.542	0.487	0.471	0.568	14.09
5)	t	MCPP	0.000	0.000	0.001	0.001	0.001	0.001	0.000	10.39
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.36
7)	t	Dichloroprop	0.218	0.201	0.190	0.162	0.144	0.134	0.175	19.07
8)	t	2,4-D	0.260	0.236	0.223	0.201	0.182	0.174	0.213	15.60
9)	t	2,4,5-TP (Sil...	0.882	0.856	0.832	0.739	0.680	0.645	0.772	12.73
10)	t	2,4,5-T	0.939	0.859	0.837	0.747	0.695	0.676	0.792	12.99
11)	t	2,4-DB	0.141	0.121	0.123	0.110	0.103	0.098	0.116	13.37
12)	t	Dinoseb	0.754	0.680	0.636	0.533	0.481	0.459	0.590	19.96

Signal #2 Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon		0.225	0.227	0.203	0.179	0.176	0.202	12.00
3)	s	DCAA (surrogate)	0.235	0.227	0.198	0.174	0.155	0.148	0.189	19.30
4)	t	Dicamba	0.638	0.604	0.557	0.497	0.457	0.447	0.534	14.78
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	8.78
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.33
7)	t	Dichloroprop	0.214	0.201	0.182	0.160	0.142	0.136	0.173	18.35
8)	t	2,4-D	0.270	0.252	0.231	0.204	0.189	0.185	0.222	15.74
9)	t	2,4,5-TP (Sil...	0.905	0.874	0.820	0.723	0.673	0.659	0.776	13.57
10)	t	2,4,5-T	0.863	0.859	0.799	0.713	0.687	0.685	0.768	10.90
11)	t	2,4-DB	0.143	0.139	0.131	0.117	0.113	0.111	0.126	11.01

Method Path : I:\PEST\Pest22\2024\240920ical\
Method File : Herb22_2024_09_20_mgL_ICAL.m
Title : herb
Last Update : Mon Sep 23 11:28:20 2024
Response Via : Initial Calibration

Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.557	0.554	0.517	0.455	0.429	0.425	0.490	12.42

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1208.6E6	1536.3E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.906	7.365	48342330	67860898	0.054M4	0.058M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	10.80%#	11.60%#
		Target Compounds						
2)	t	Dalapon	2.327	2.321	64110826	69961534	0.055M4	0.051M4
4)	t	Dicamba	7.079	7.542	150.7E6	184.3E6	0.055M4	0.056M4
5)	t	MCPP	7.276	7.655	8760966	12721796	3.748M4	3.942M4
6)	t	MCPA	7.424	7.882	20732761	31539153	4.929M4	5.385M4
7)	t	Dichloroprop	7.786	8.201	49557404	61863211	0.059M4	0.058M4
8)	t	2,4-D	8.021f	8.479	59112709	78070519	0.057M4	0.057M4
9)	t	2,4,5-TP (Si	8.719	9.137	202.5E6	264.1E6	0.054M4	0.055M4
10)	t	2,4,5-T	8.953f	9.428	215.5E6	252.0E6	0.057M4	0.053M4
11)	t	2,4-DB	9.364f	9.791	32612397	42276332	0.058M4	0.055M4
12)	t	Dinoseb	10.088	10.011	173.2E6	162.6E6	0.064M4	0.054M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

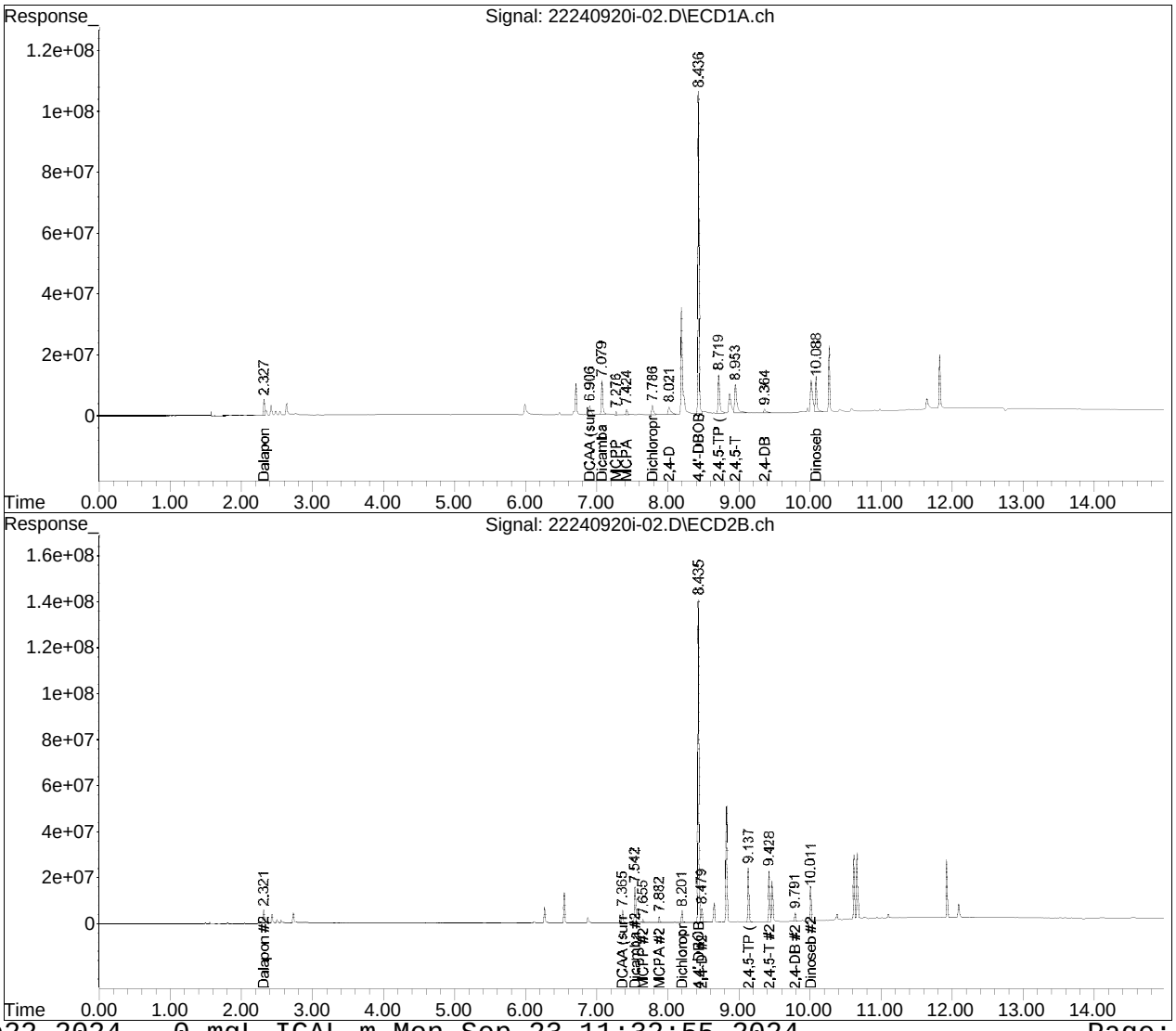
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

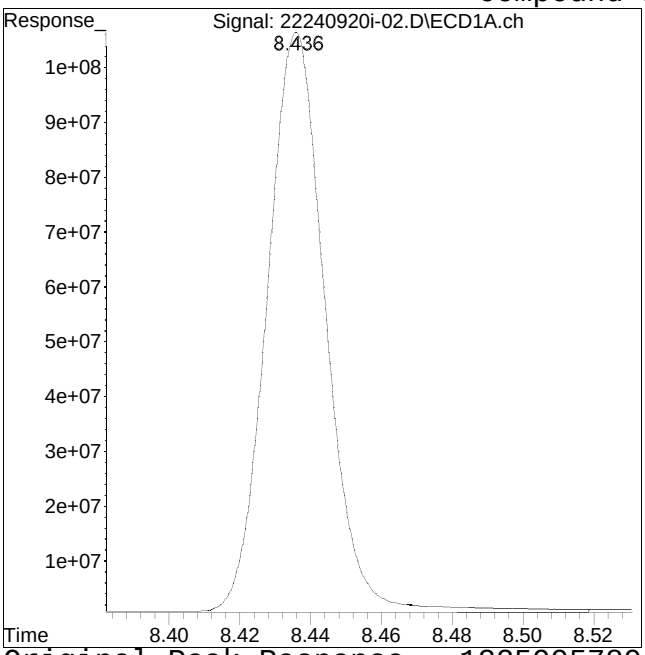
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

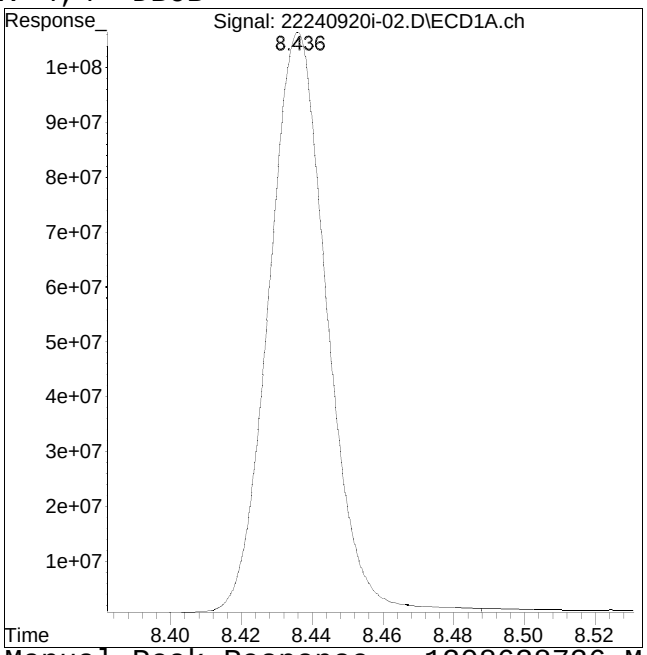


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #1: 4,4'-DBOB



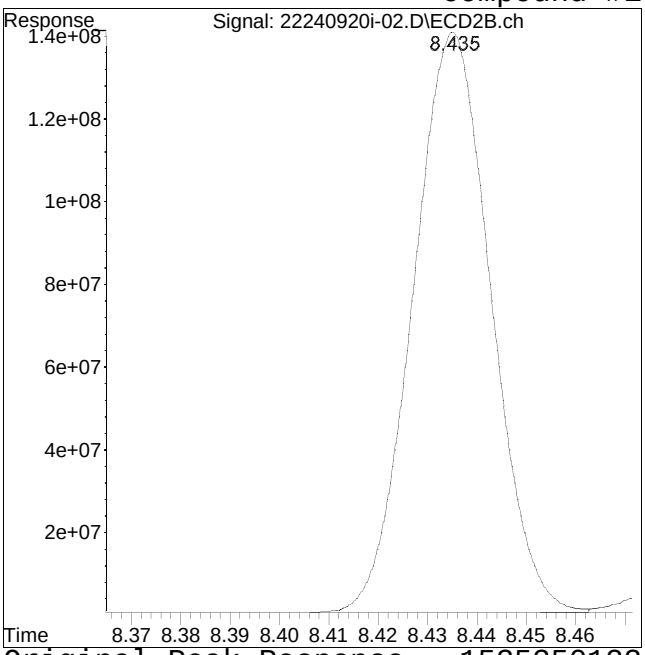


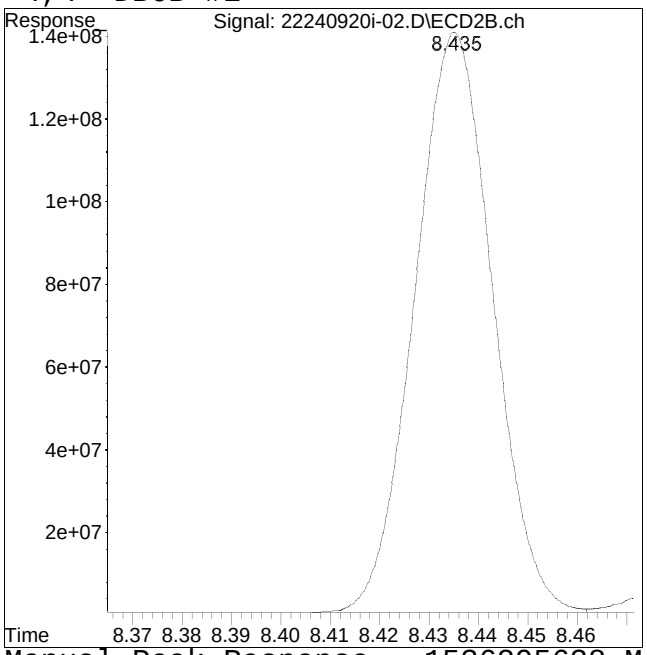
Original Peak Response = 1225995789 Manual Peak Response = 1208638736 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #14: 4,4'-DBOB #2



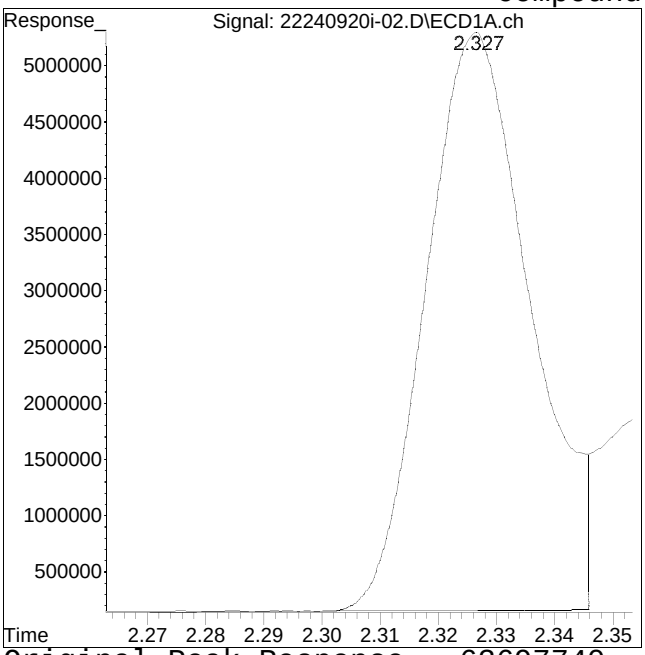


Original Peak Response = 1535350123 Manual Peak Response = 1536295638 M4
M4 = Poor automated baseline construction.

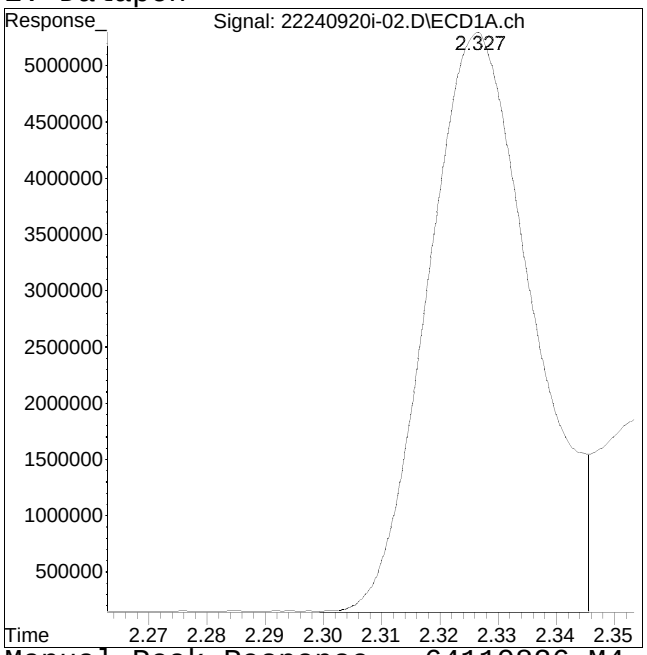
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #2: Dalapon



Original Peak Response = 63697740



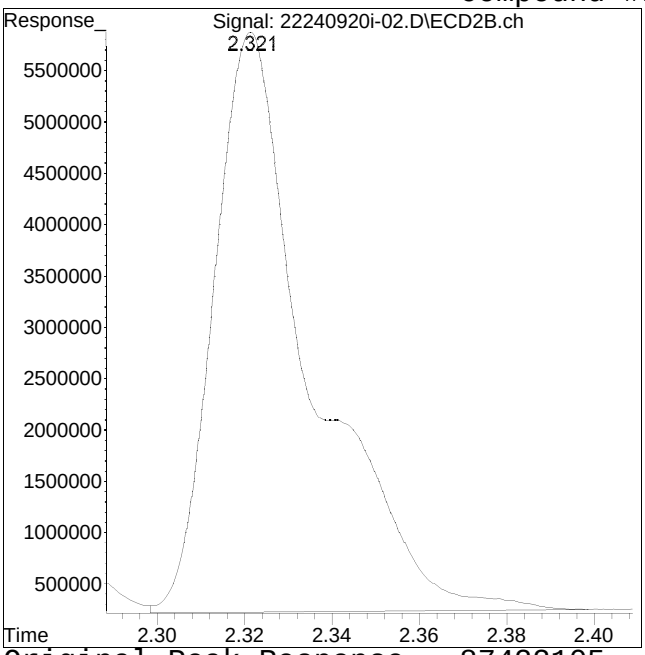
Manual Peak Response = 64110826 M4

M4 = Poor automated baseline construction.

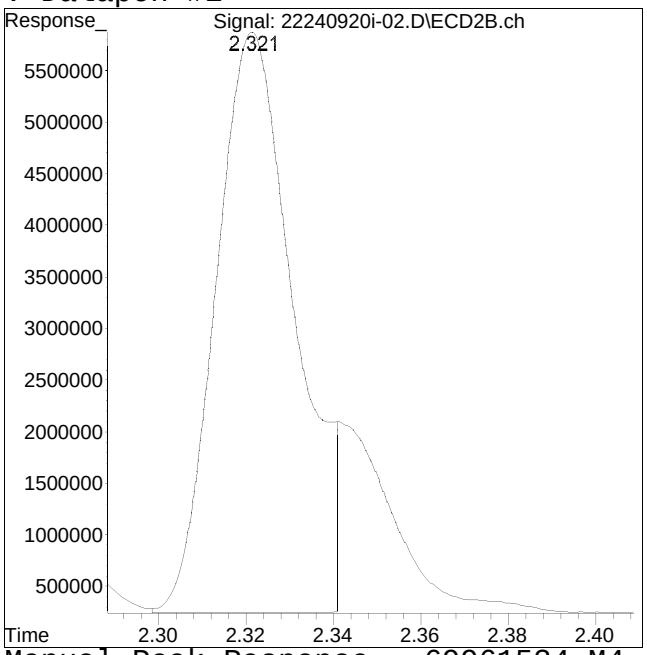
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #15: Dalapon #2



Original Peak Response = 87422105



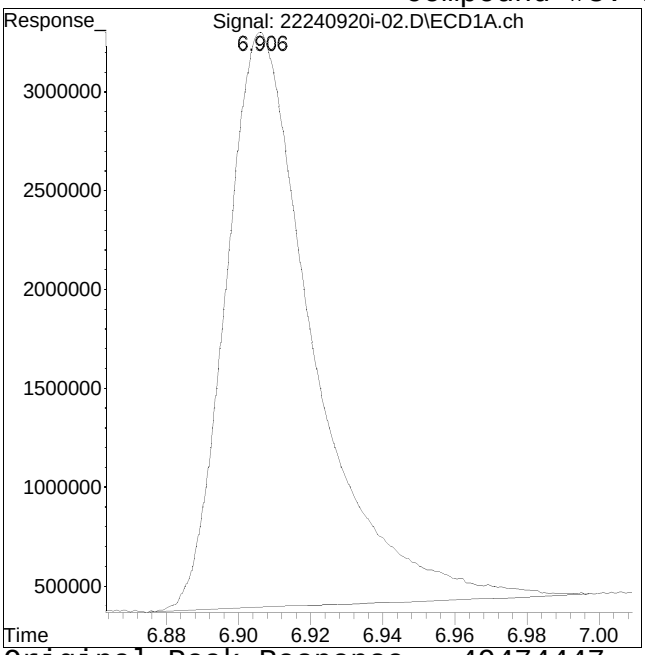
Manual Peak Response = 69961534 M4

M4 = Poor automated baseline construction.

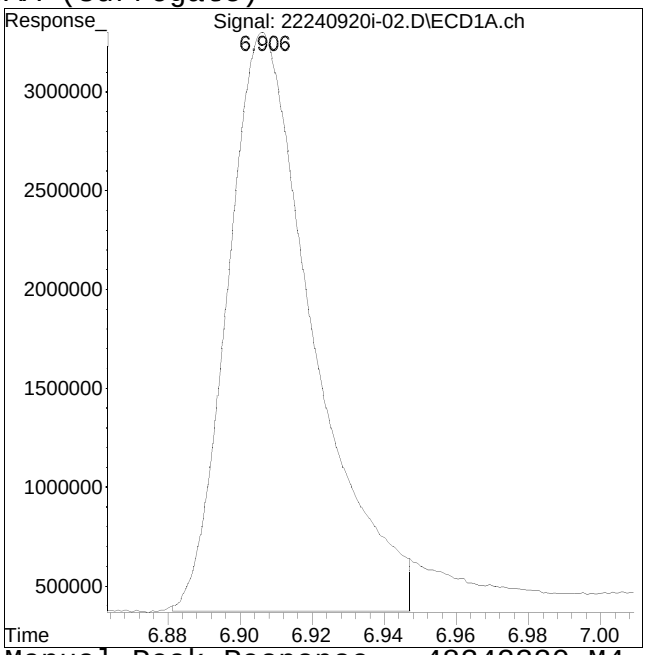
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #3: DCAA (surrogate)



Original Peak Response = 49474447



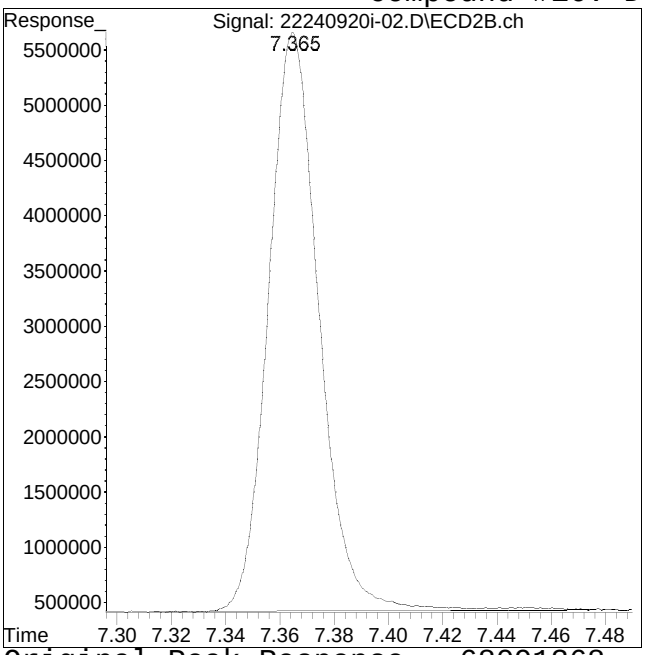
Manual Peak Response = 48342330 M4

M4 = Poor automated baseline construction.

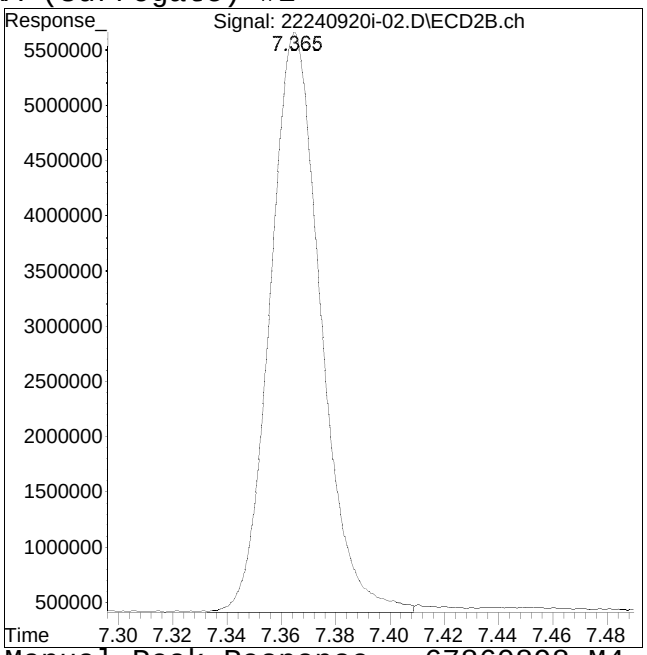
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 68091368



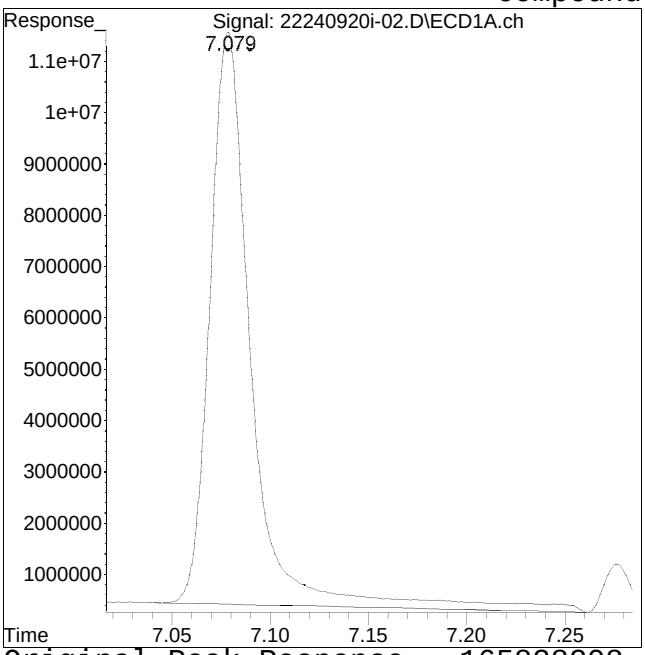
Manual Peak Response = 67860898 M4

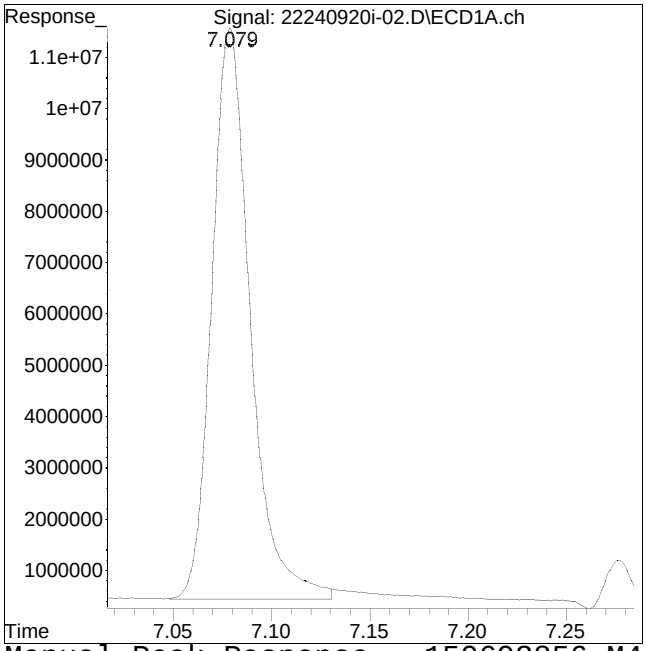
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #4: Dicamba



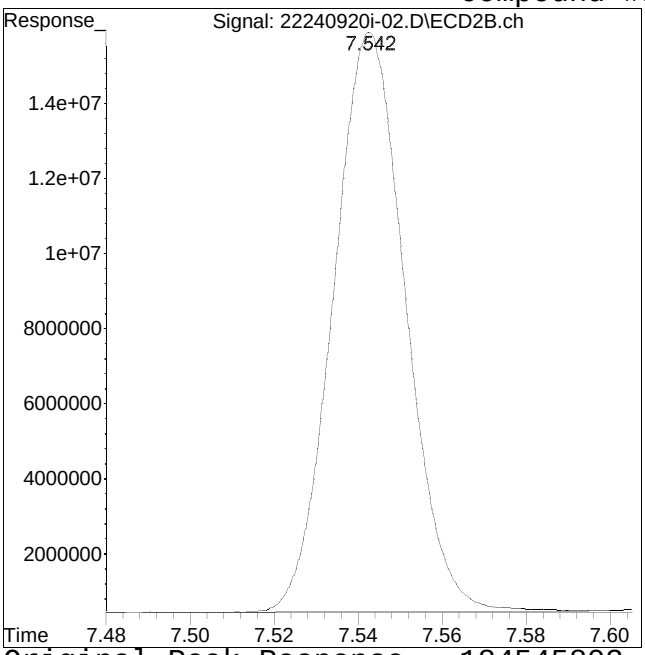


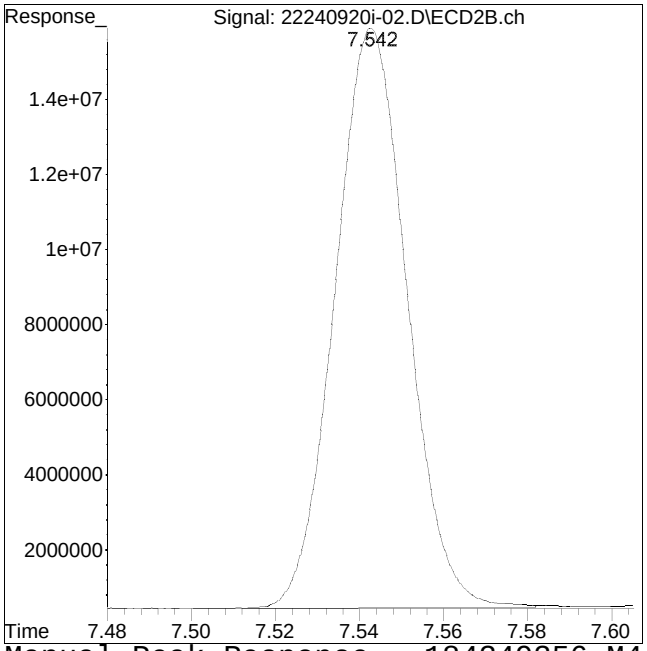
Original Peak Response = 165828208 Manual Peak Response = 150693856 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #17: Dicamba #2



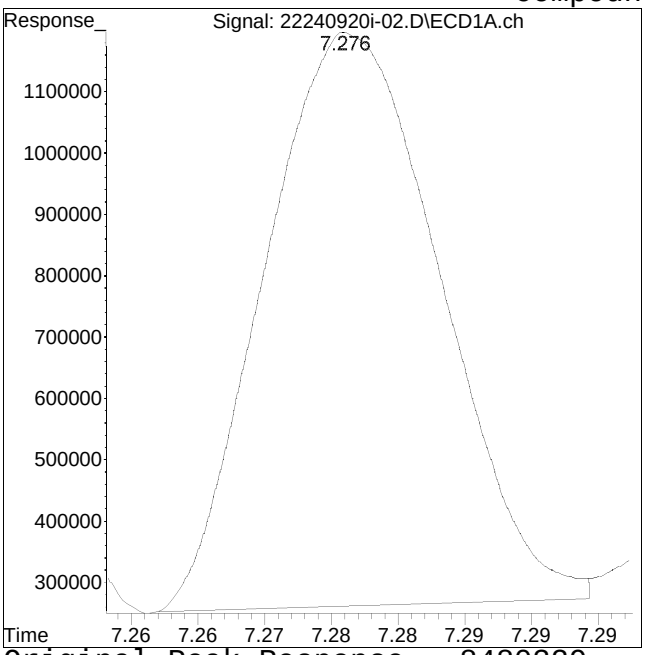


Original Peak Response = 184545803 Manual Peak Response = 184349356 M4
M4 = Poor automated baseline construction.

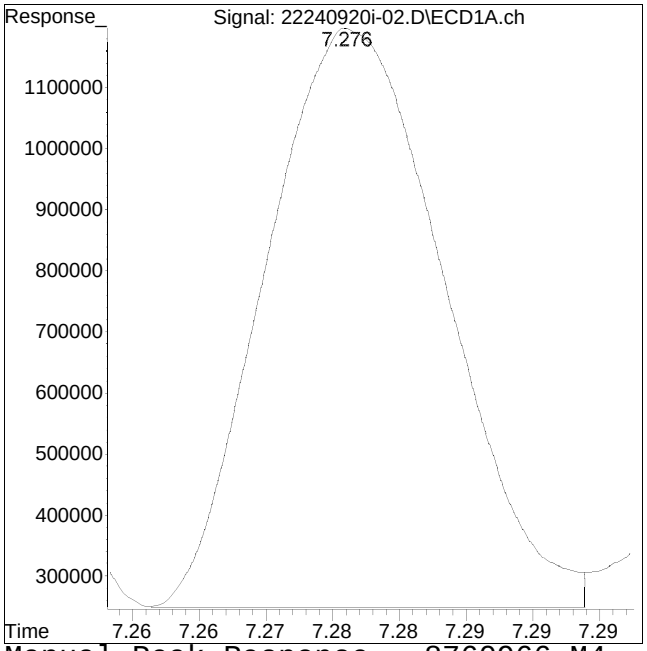
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #5: MCPP



Original Peak Response = 8480329



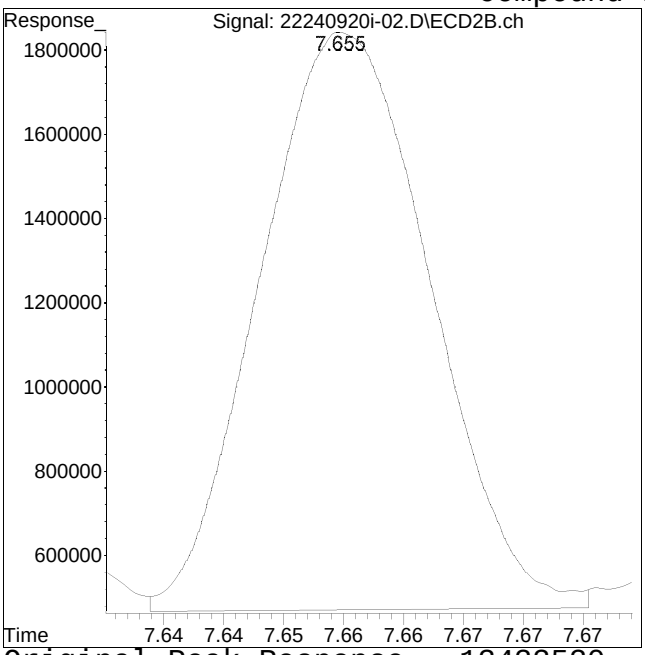
Manual Peak Response = 8760966 M4

M4 = Poor automated baseline construction.

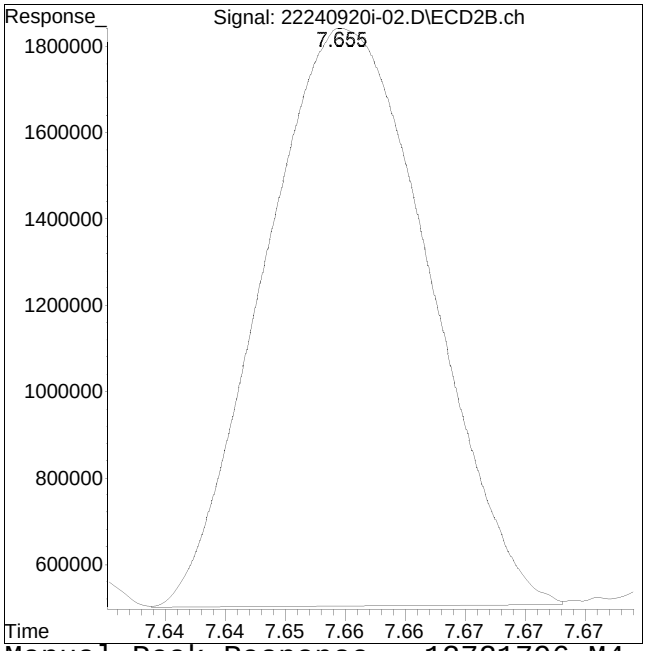
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #18: MCPP #2



Original Peak Response = 13433530



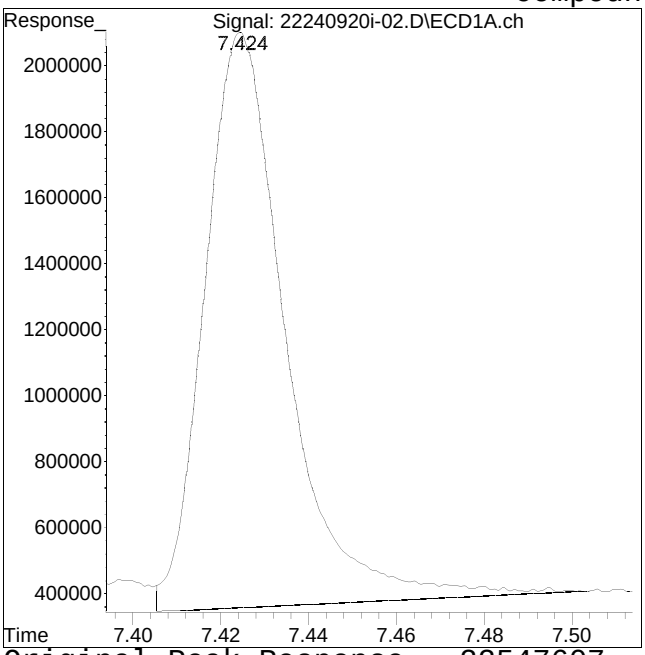
Manual Peak Response = 12721796 M4

M4 = Poor automated baseline construction.

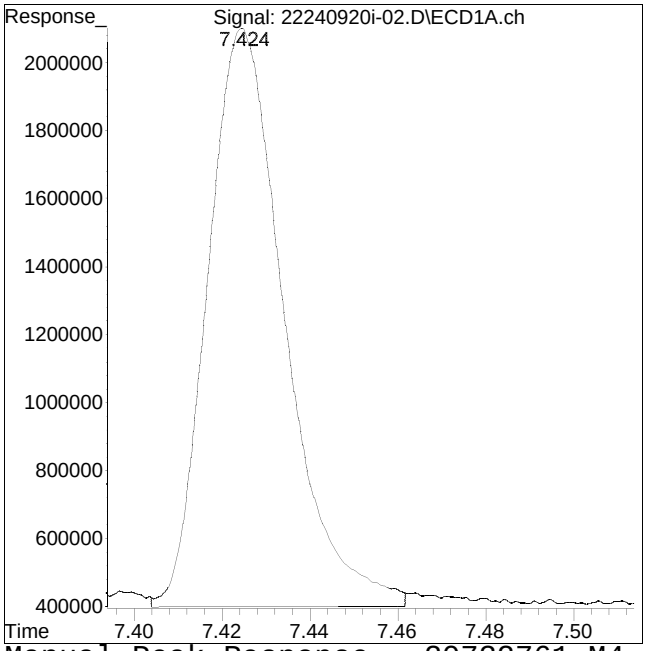
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #6: MCPA



Original Peak Response = 22547607



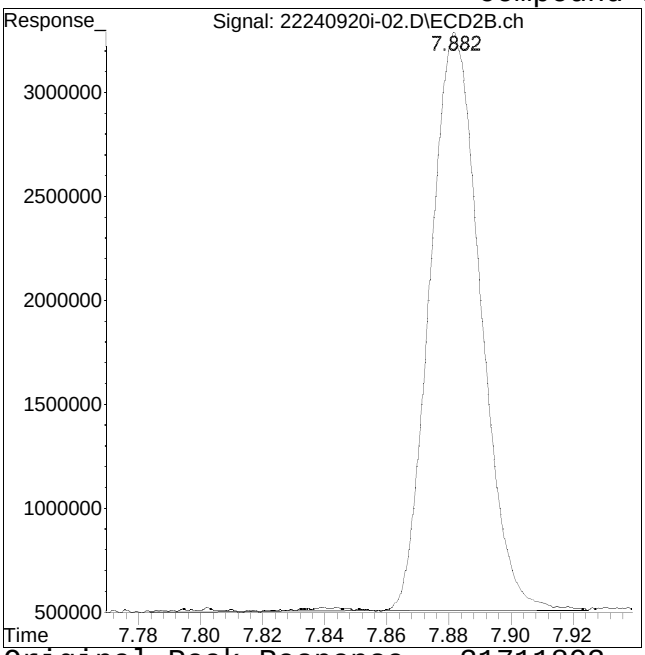
Manual Peak Response = 20732761 M4

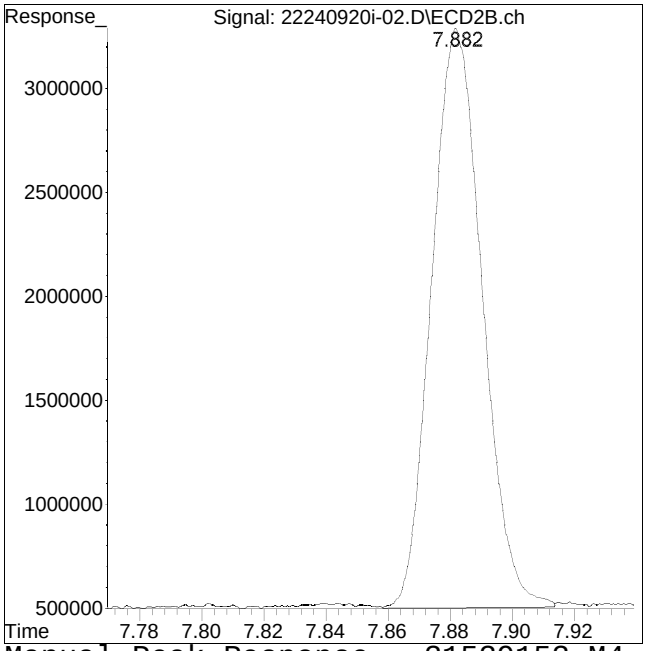
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #19: MCPA #2



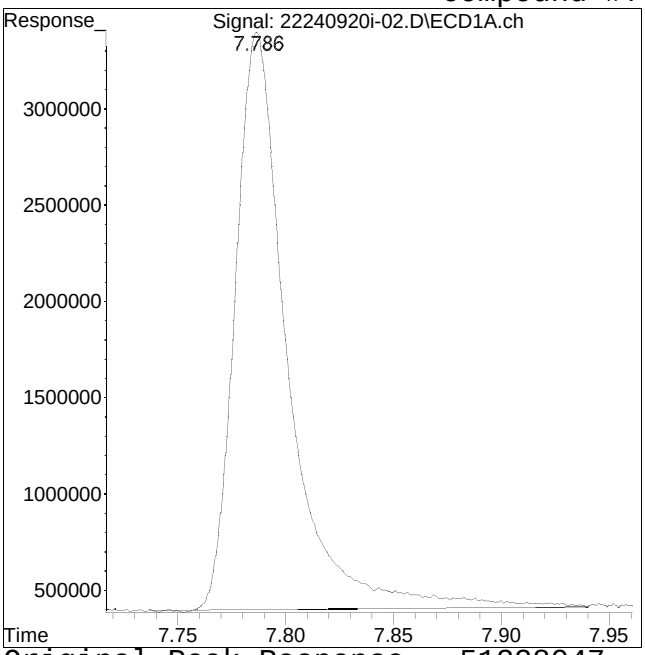


Original Peak Response = 31711893 Manual Peak Response = 31539153 M4
M4 = Poor automated baseline construction.

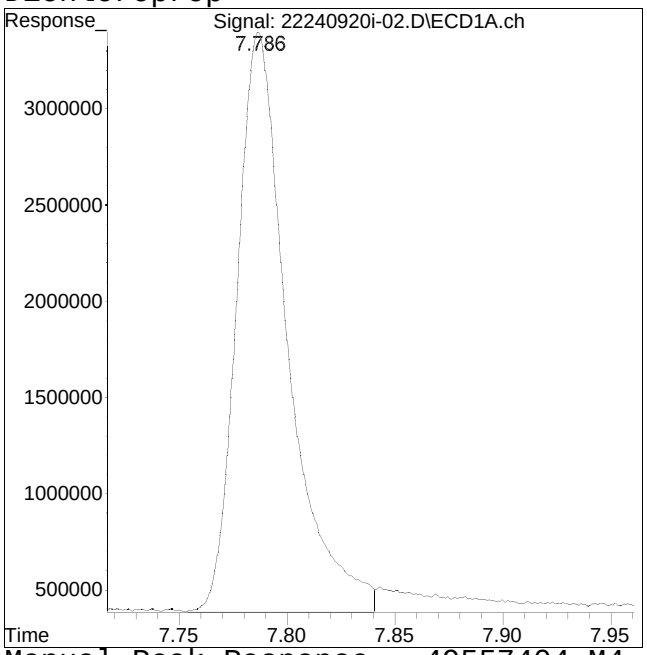
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #7: Dichloroprop



Original Peak Response = 51228047



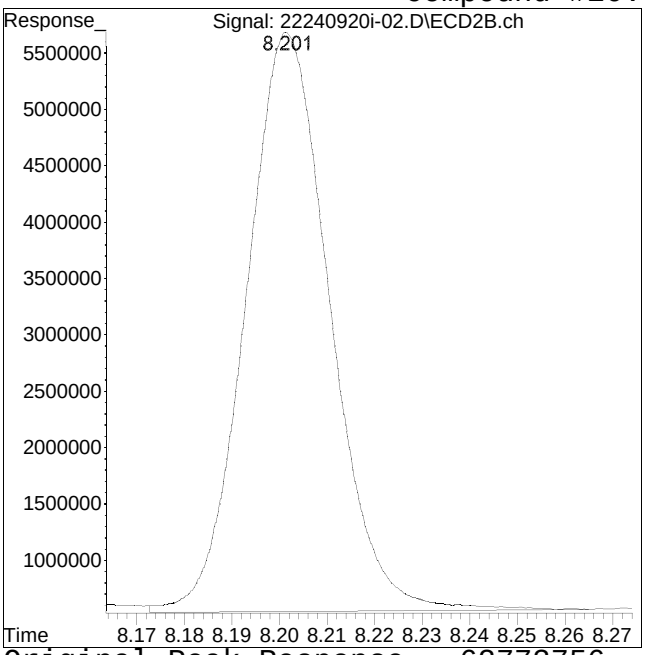
Manual Peak Response = 49557404 M4

M4 = Poor automated baseline construction.

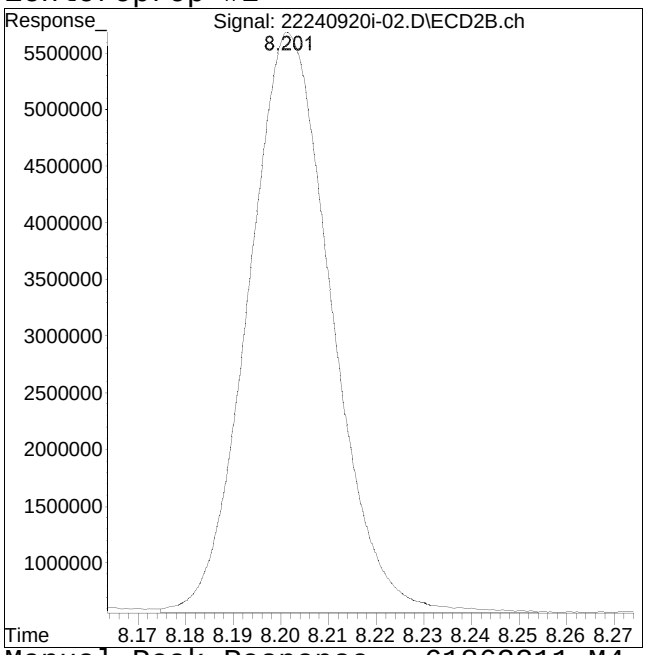
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #20: Dichloroprop #2



Original Peak Response = 62773756



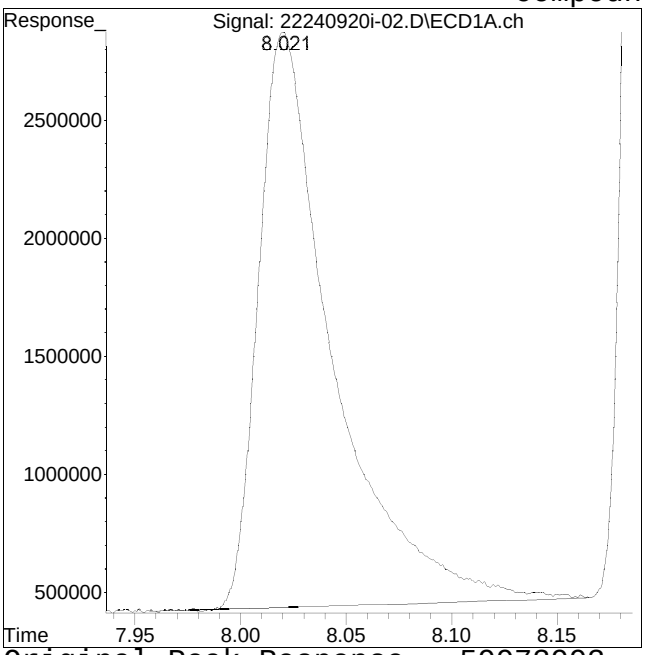
Manual Peak Response = 61863211 M4

M4 = Poor automated baseline construction.

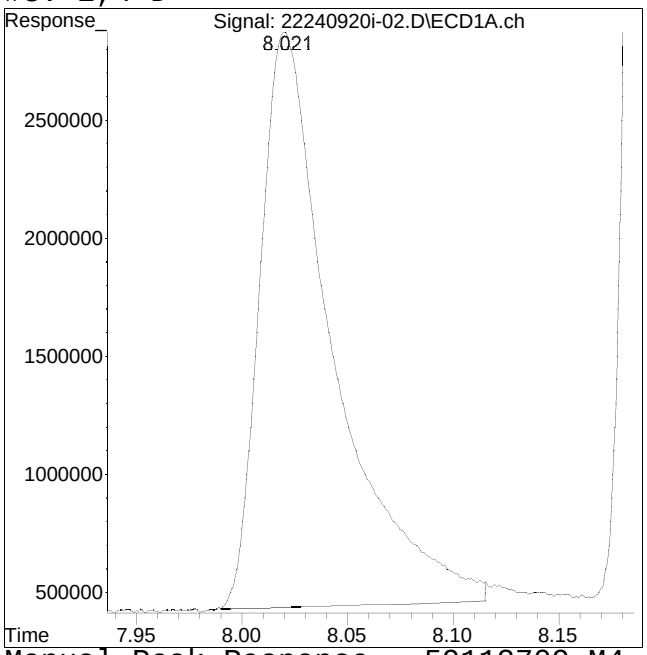
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #8: 2,4-D



Original Peak Response = 59973993



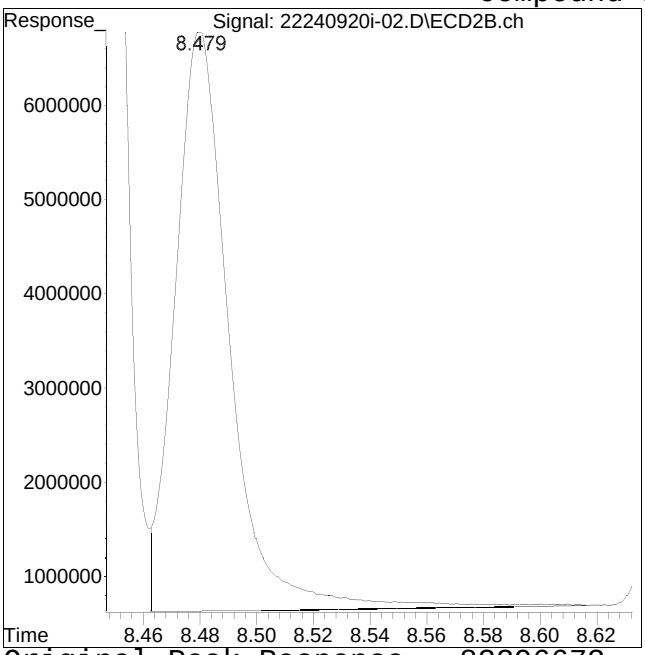
Manual Peak Response = 59112709 M4

M4 = Poor automated baseline construction.

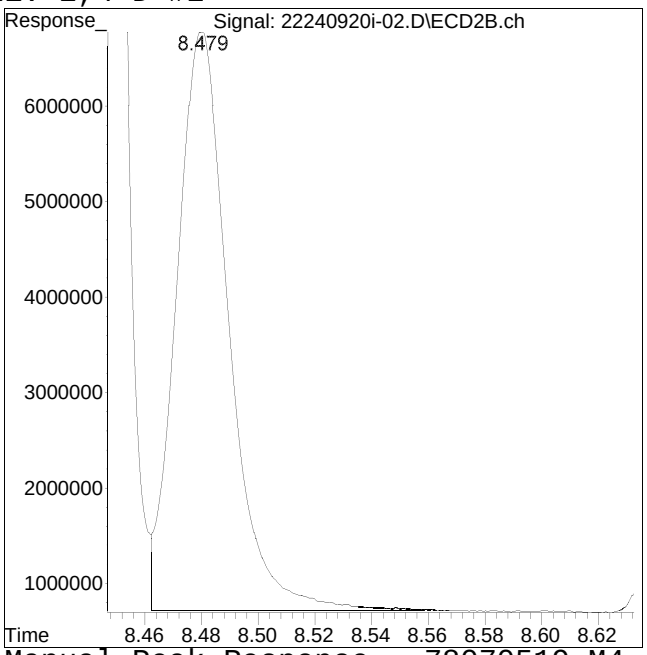
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #21: 2,4-D #2



Original Peak Response = 83296673



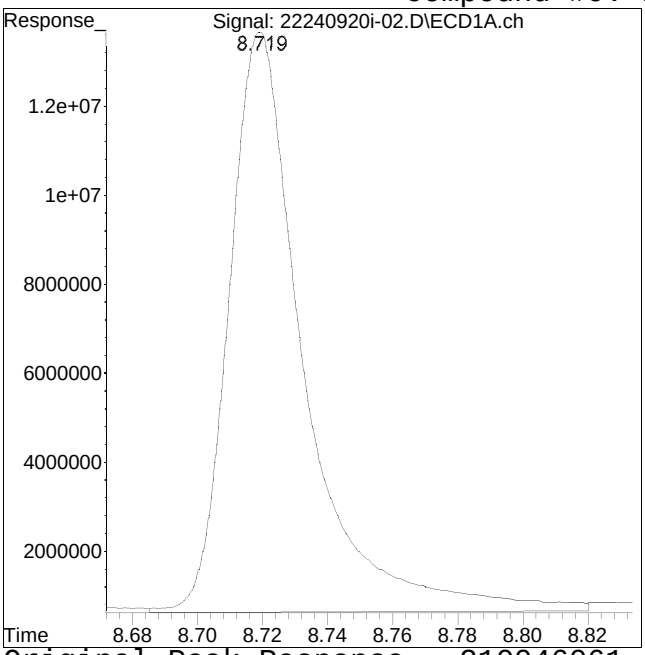
Manual Peak Response = 78070519 M4

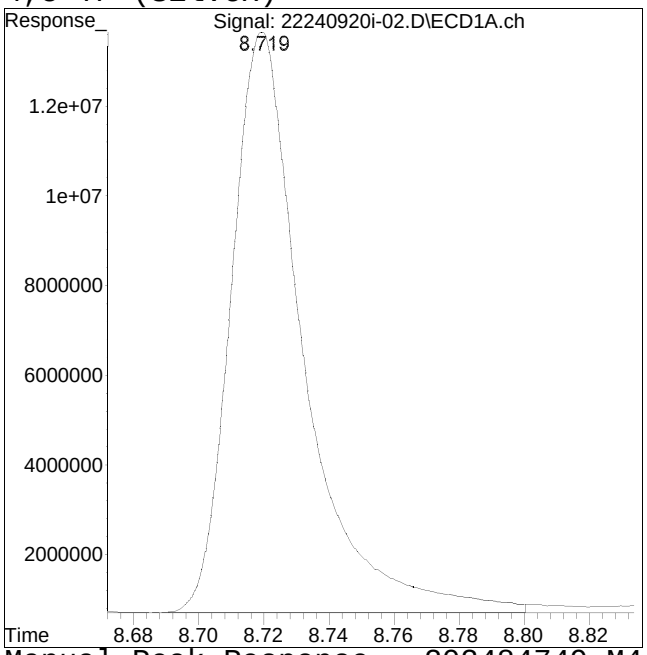
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #9: 2,4,5-TP (Silvex)



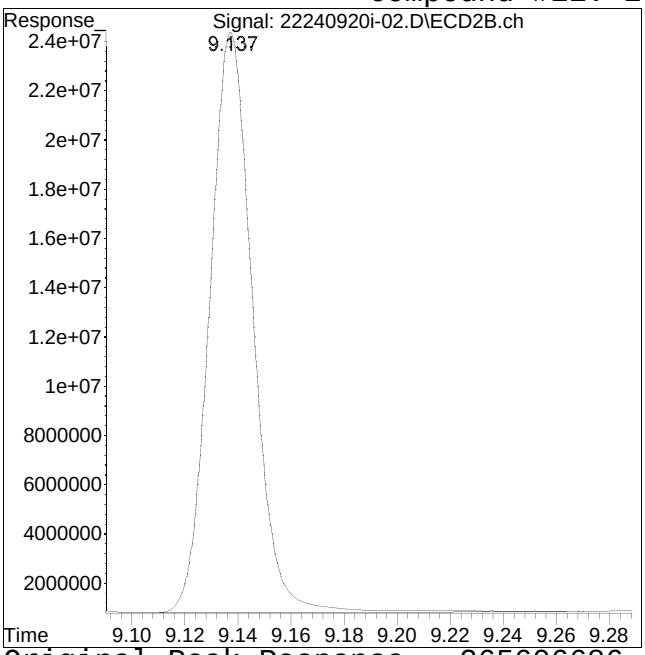


Original Peak Response = 210046061 Manual Peak Response = 202484749 M4
M4 = Poor automated baseline construction.

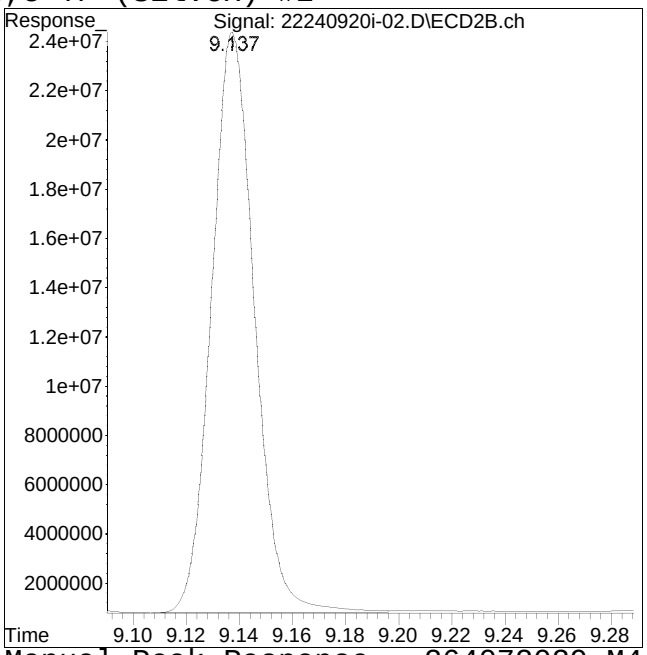
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 265606686



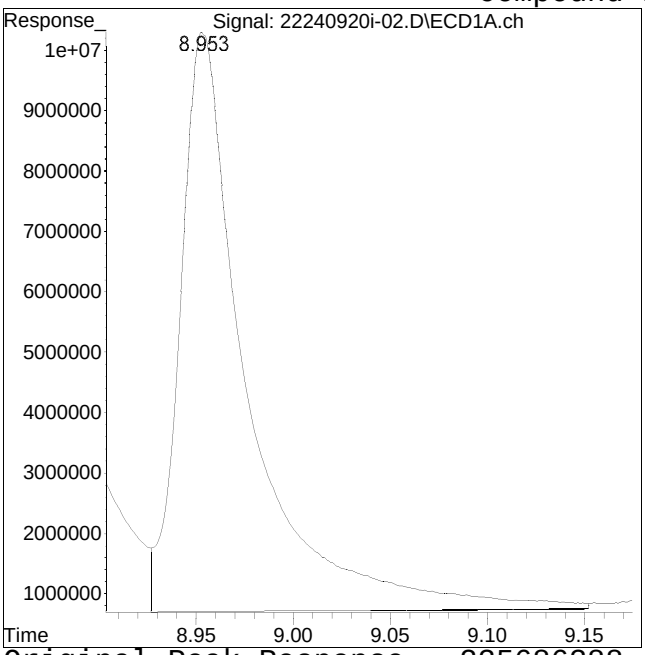
Manual Peak Response = 264072029 M4

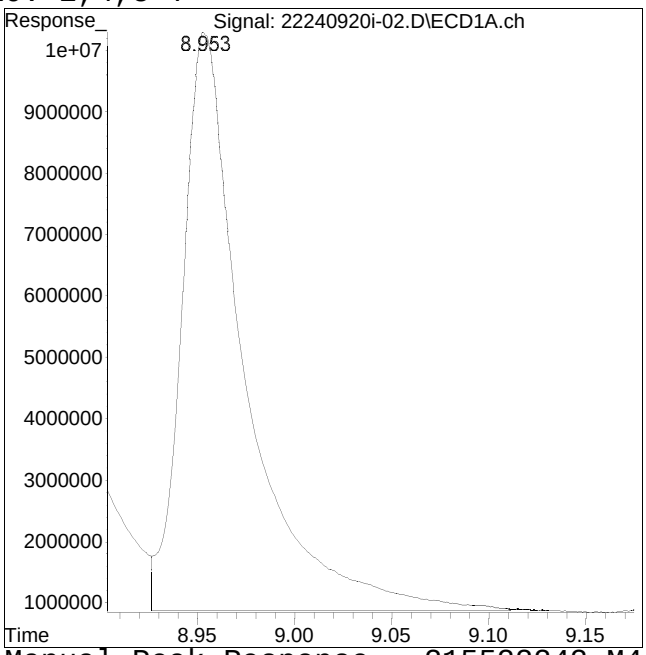
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #10: 2,4,5-T



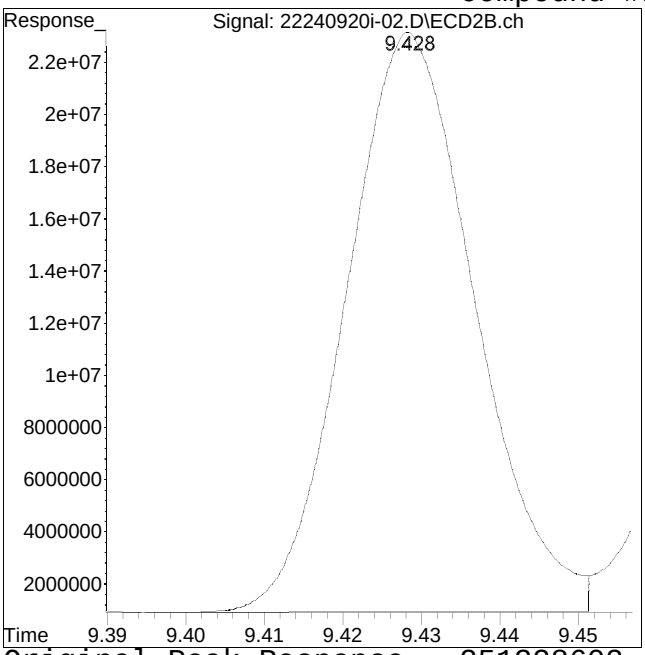


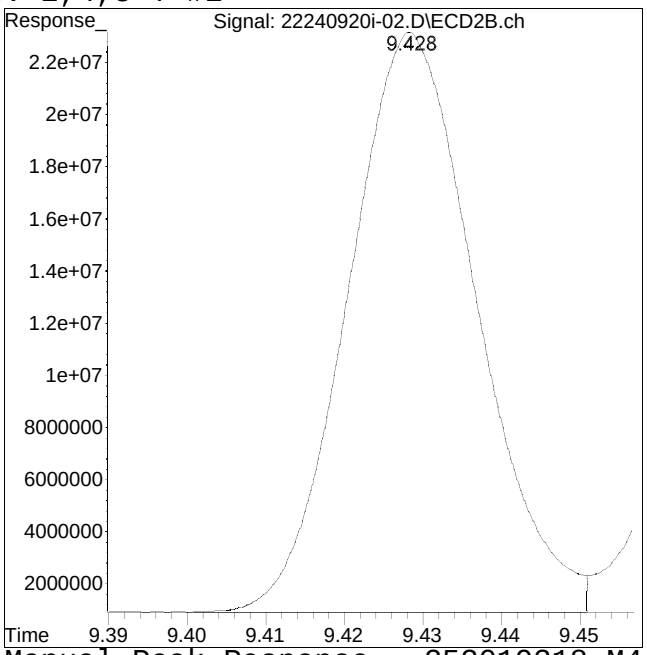
Original Peak Response = 235686388 Manual Peak Response = 215522242 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #23: 2,4,5-T #2



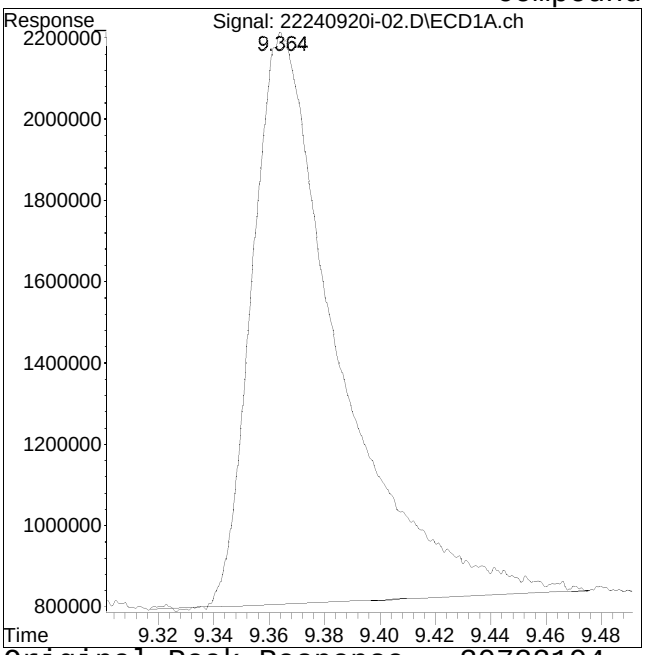


Original Peak Response = 251328602 Manual Peak Response = 252019318 M4
M4 = Poor automated baseline construction.

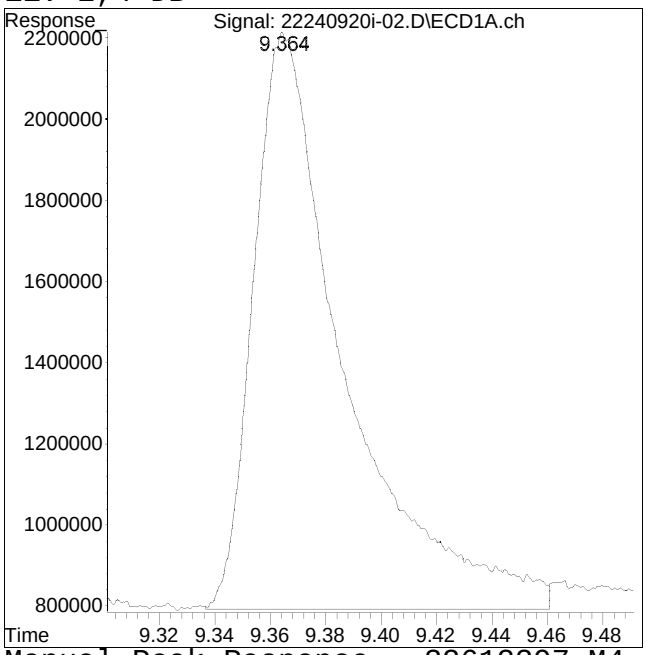
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #11: 2,4-DB



Original Peak Response = 30722194



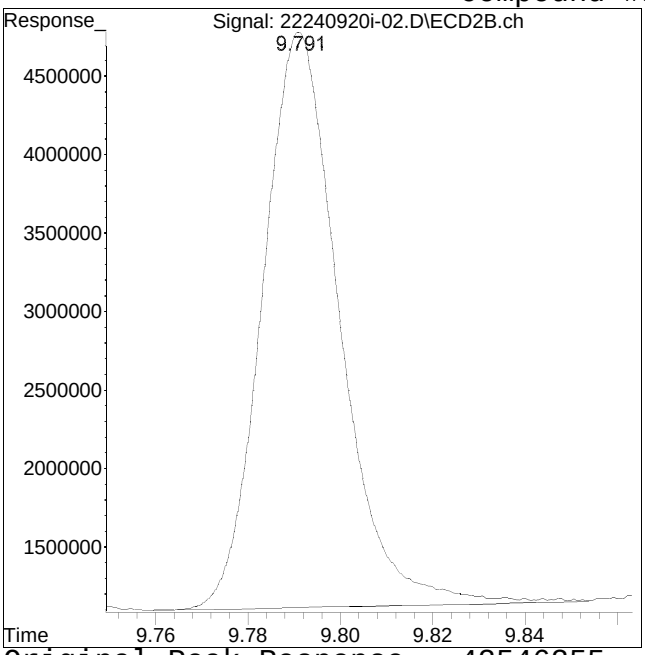
Manual Peak Response = 32612397 M4

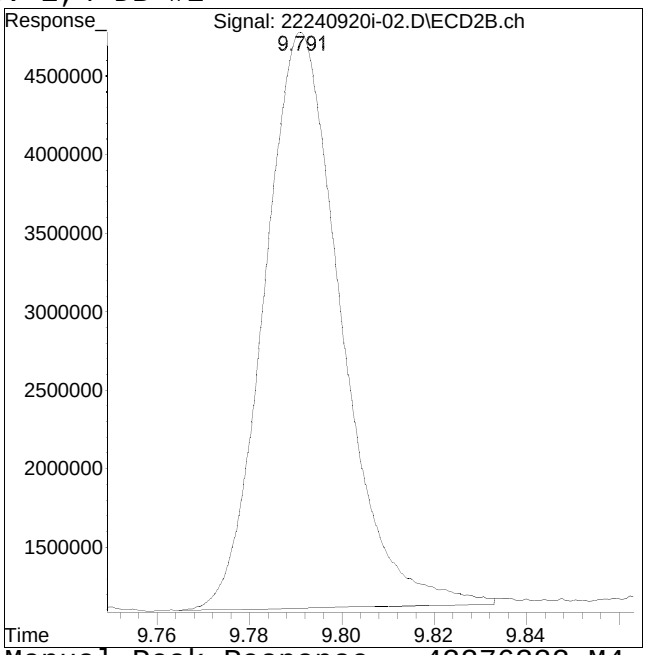
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #24: 2,4-DB #2



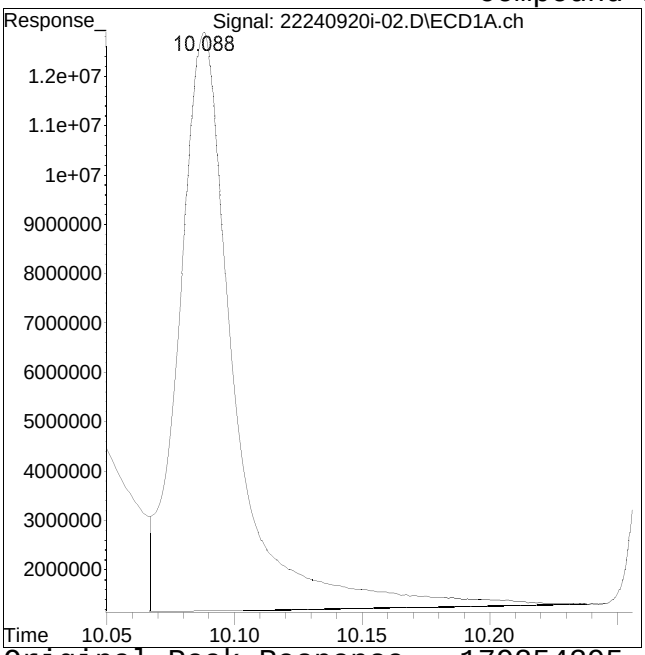


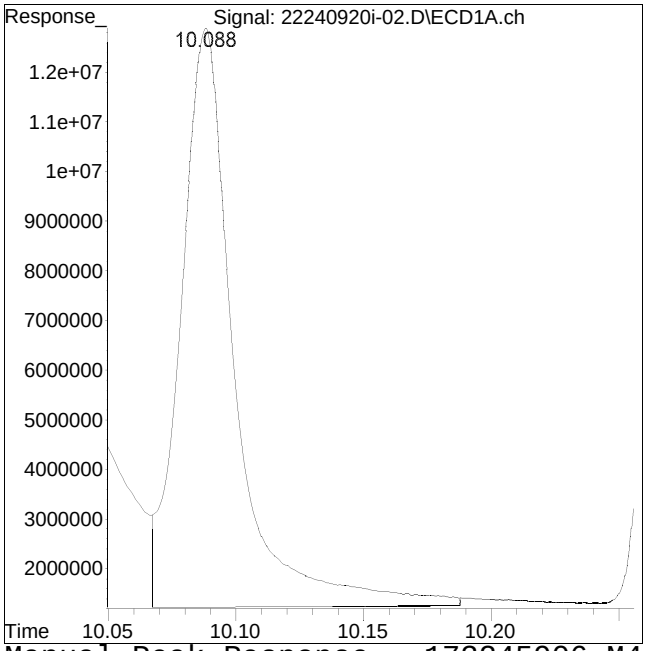
Original Peak Response = 42546255 Manual Peak Response = 42276332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #12: Dinoseb



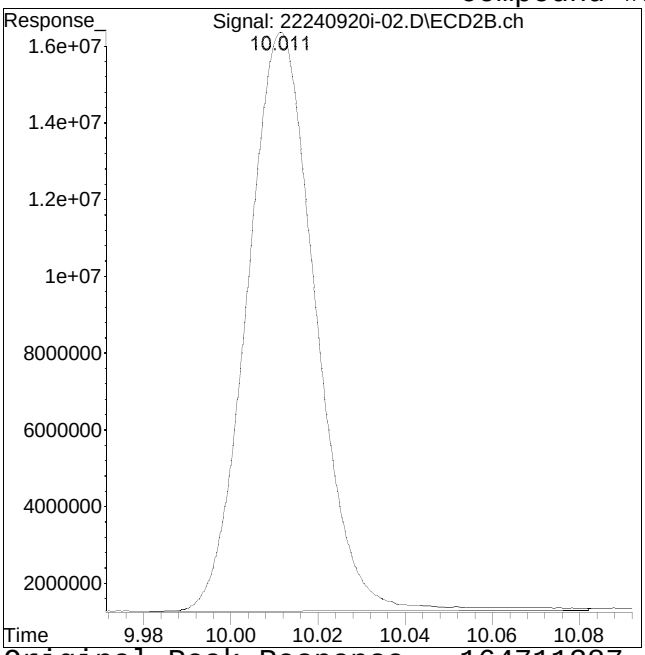


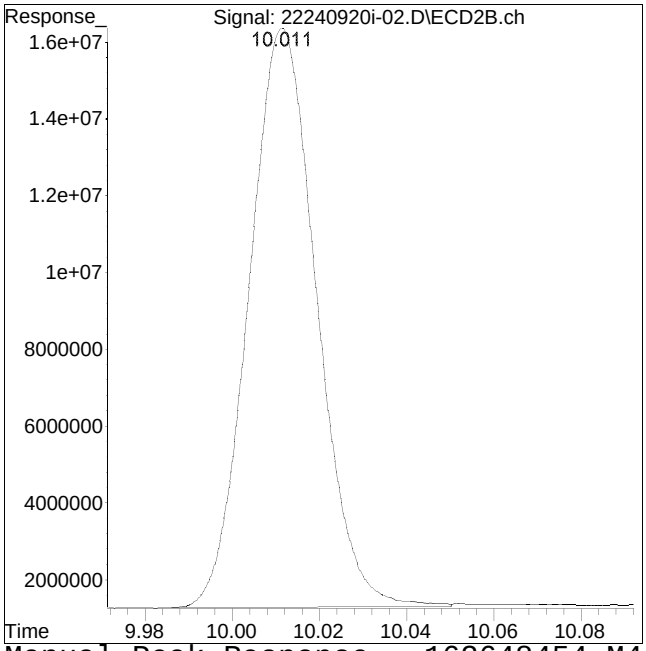
Original Peak Response = 179254395 Manual Peak Response = 173245906 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #25: Dinoseb #2





Original Peak Response = 164711387 Manual Peak Response = 162648454 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.437	8.435	1259.9E6	1596.4E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.903	7.364	98009582	136.2E6	0.109M4	0.118M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	21.80%#	23.60%#
		Target Compounds						
2)	t	Dalapon	2.326	2.321	122.9E6	130.8E6	0.104M3	0.099M3
4)	t	Dicamba	7.077	7.542	303.3E6	362.5E6	0.110M4	0.111M4
5)	t	MCPP	7.276	7.655	22437726	30753638	8.849M4	8.884M4
6)	t	MCPA	7.423	7.882	45037977	63370790	10.397M4	10.753M4
7)	t	Dichloroprop	7.784	8.202	95191965	120.5E6	0.114M4	0.115M4
8)	t	2,4-D	8.009	8.478	112.0E6	151.3E6	0.109M3	0.112M4
9)	t	2,4,5-TP (Si	8.714	9.136	409.7E6	530.4E6	0.108M3	0.111M4
10)	t	2,4,5-T	8.940	9.428	411.2E6	521.3E6	0.108M4	0.109
11)	t	2,4-DB	9.355	9.790	58377768	85050468	0.104M3	0.109M4
12)	t	Dinoseb	10.087	10.011	325.4E6	336.1E6	0.122M4	0.111M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

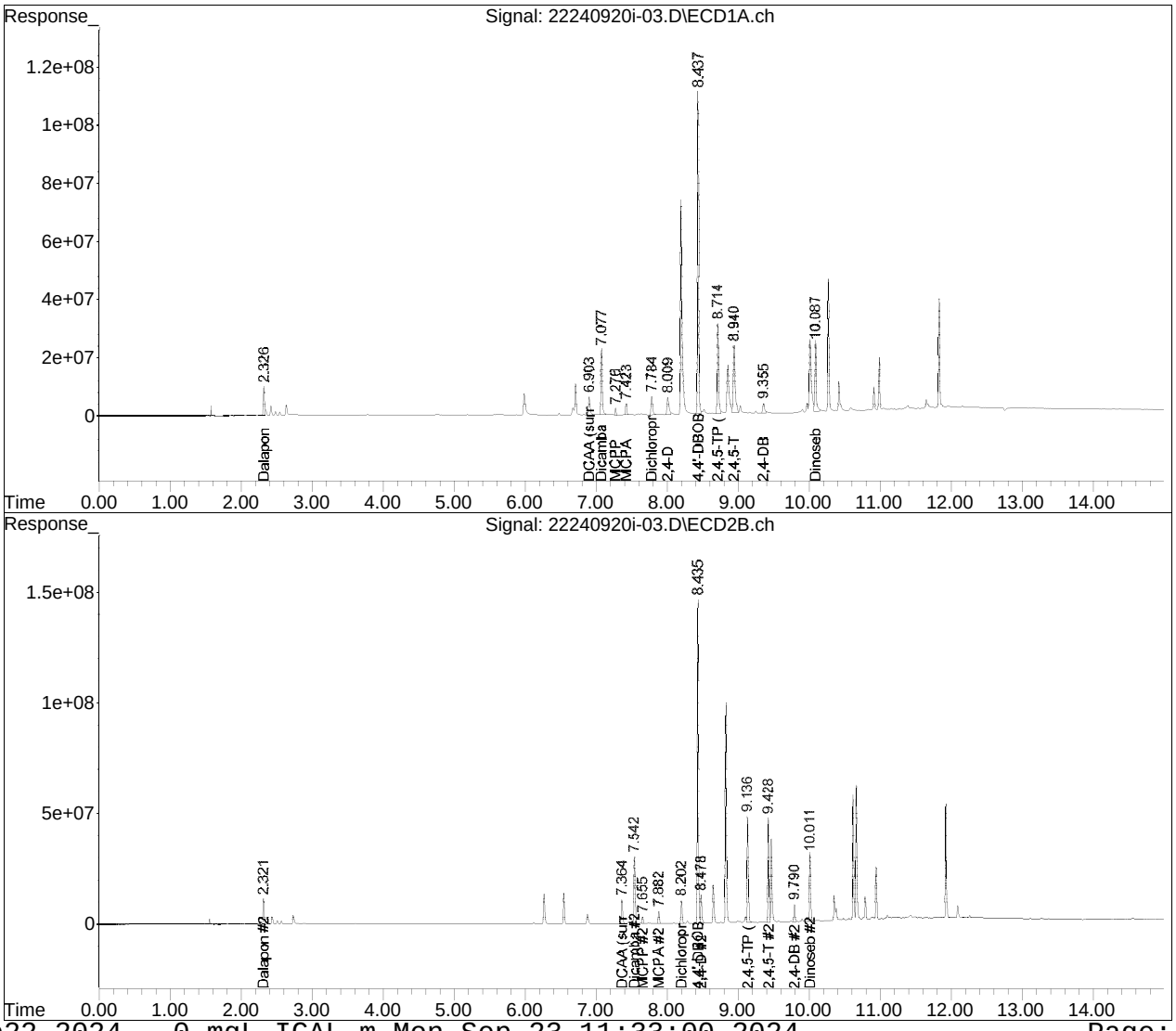
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

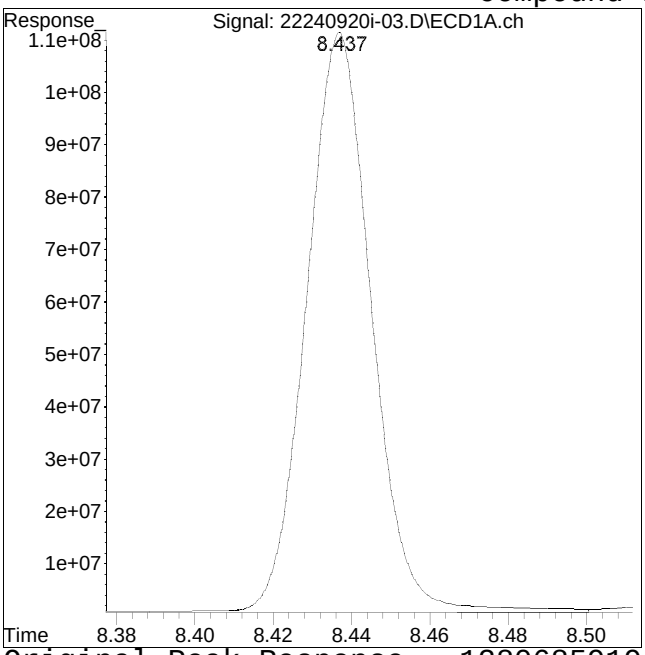
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

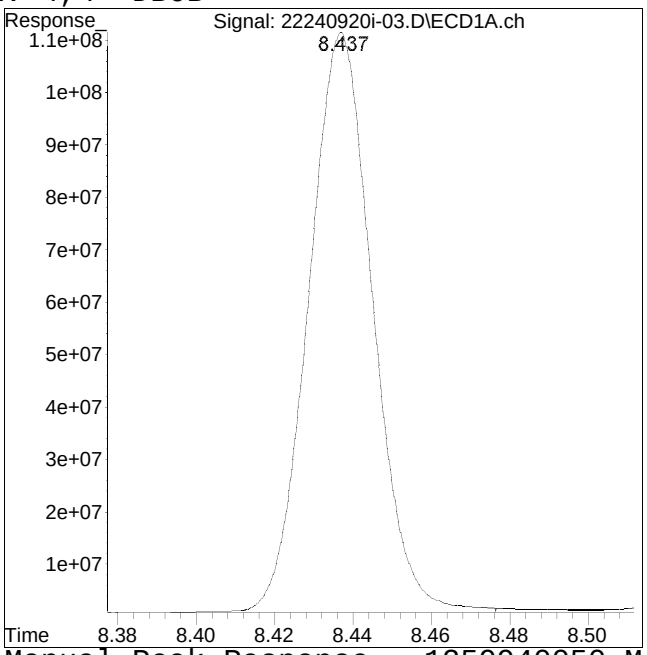


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #1: 4,4'-DBOB



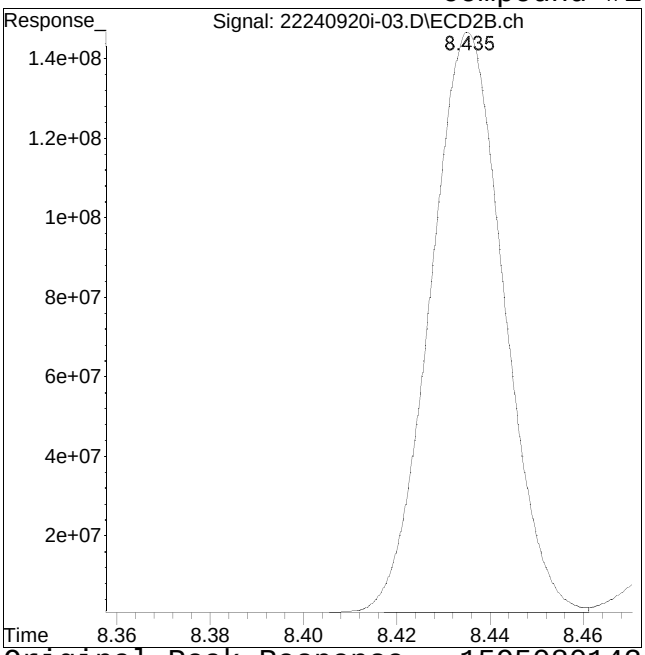


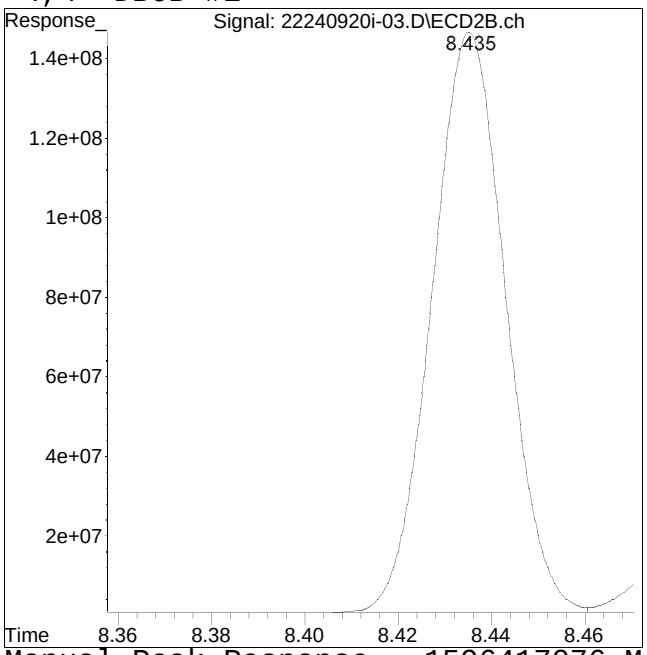
Original Peak Response = 1280685919 Manual Peak Response = 1259940050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #14: 4,4'-DBOB #2



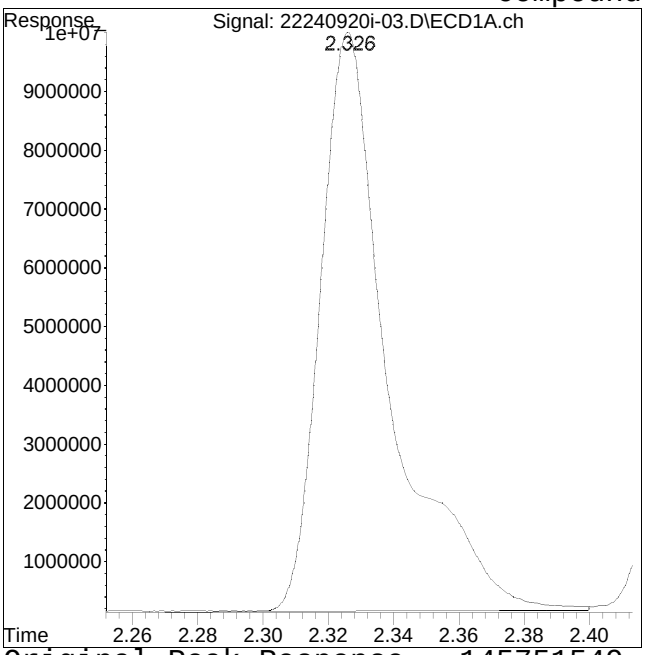


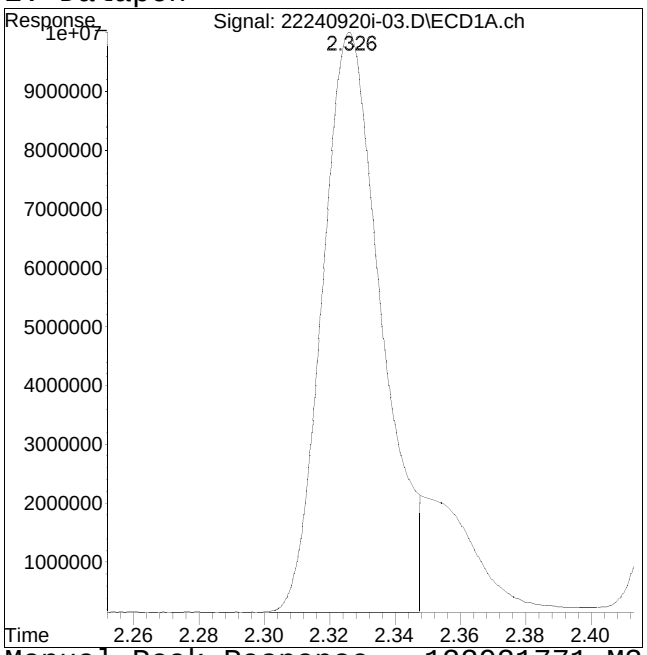
Original Peak Response = 1595080143 Manual Peak Response = 1596417076 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #2: Dalapon



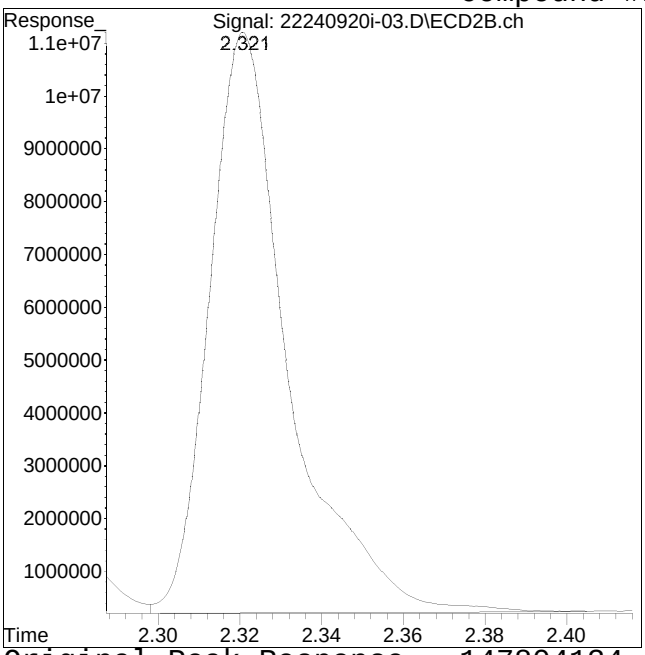


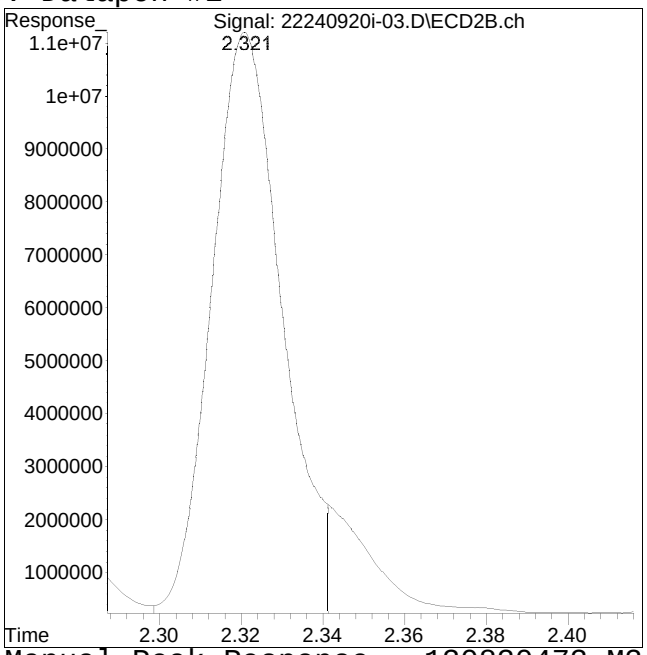
Original Peak Response = 145751549 Manual Peak Response = 122921771 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #15: Dalapon #2



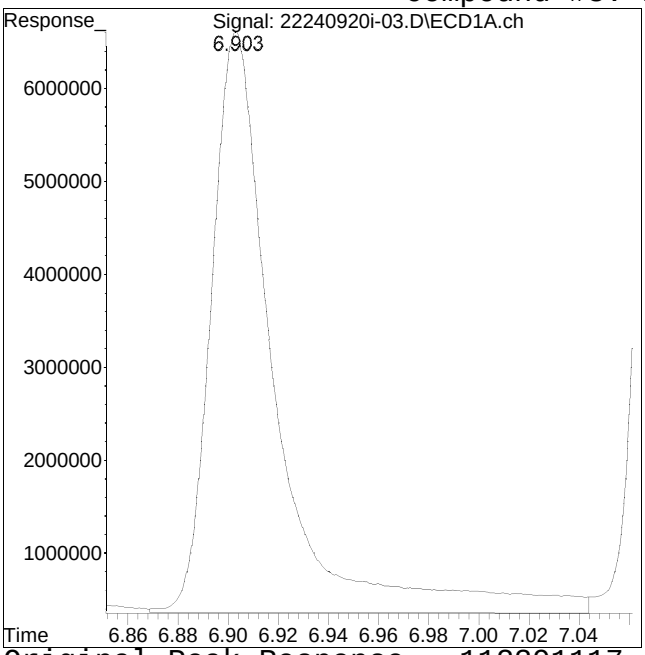


Original Peak Response = 147804134 Manual Peak Response = 130830473 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

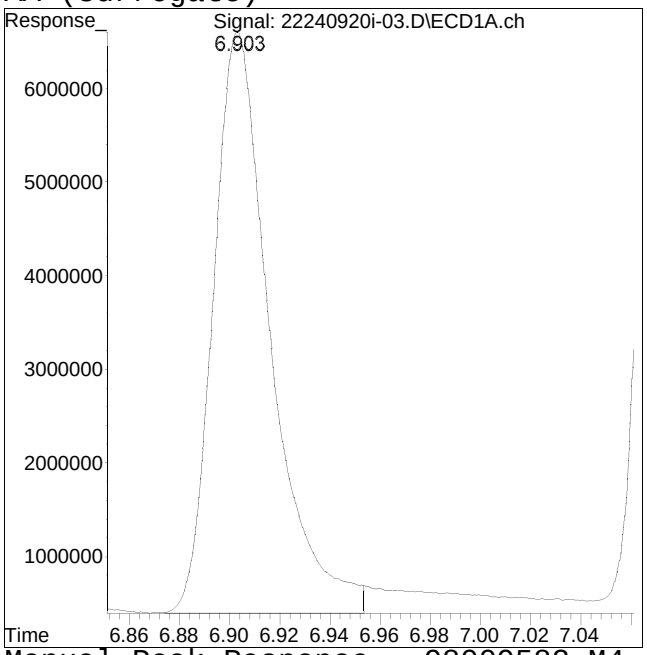
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #3: DCAA (surrogate)



Original Peak Response = 112391117



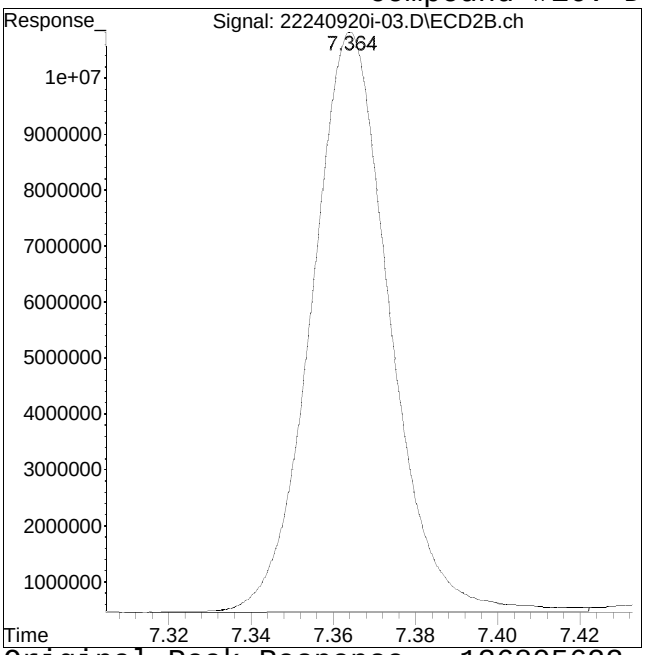
Manual Peak Response = 98009582 M4

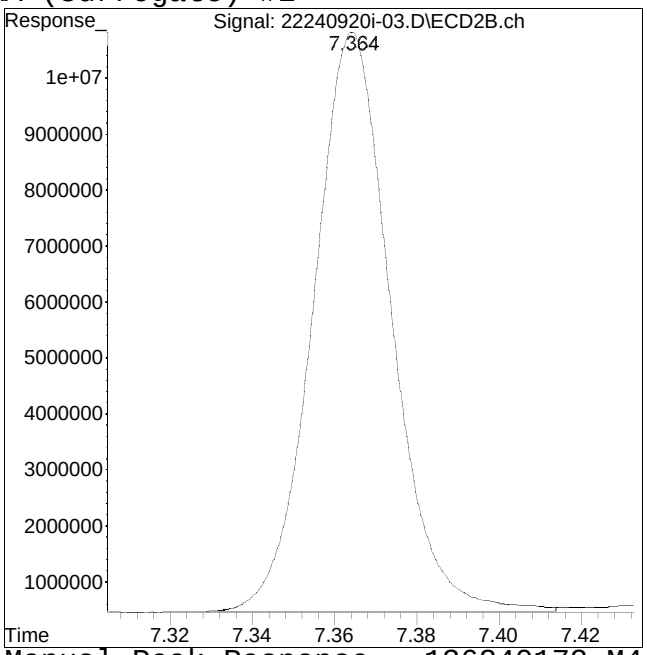
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #16: DCAA (surrogate) #2



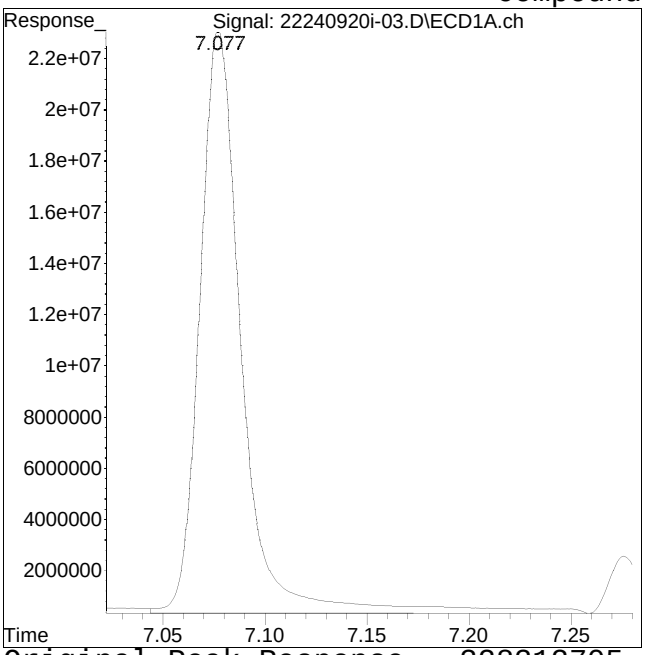


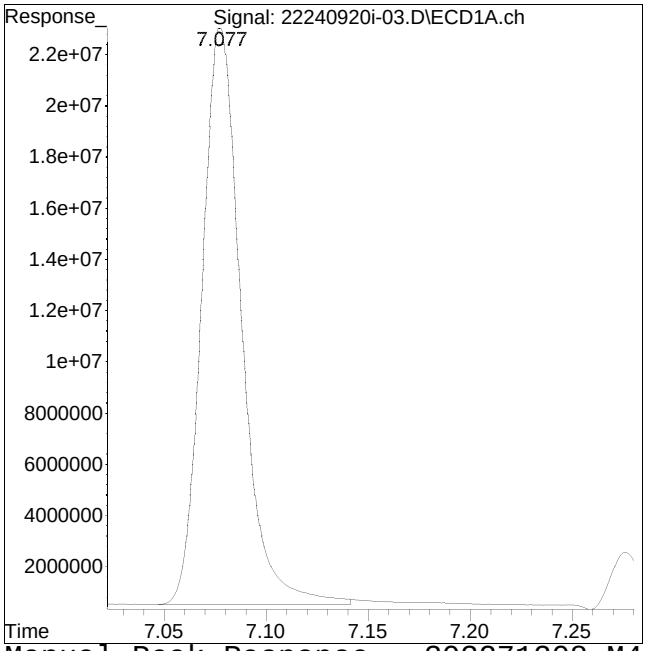
Original Peak Response = 136805622 Manual Peak Response = 136240172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #4: Dicamba



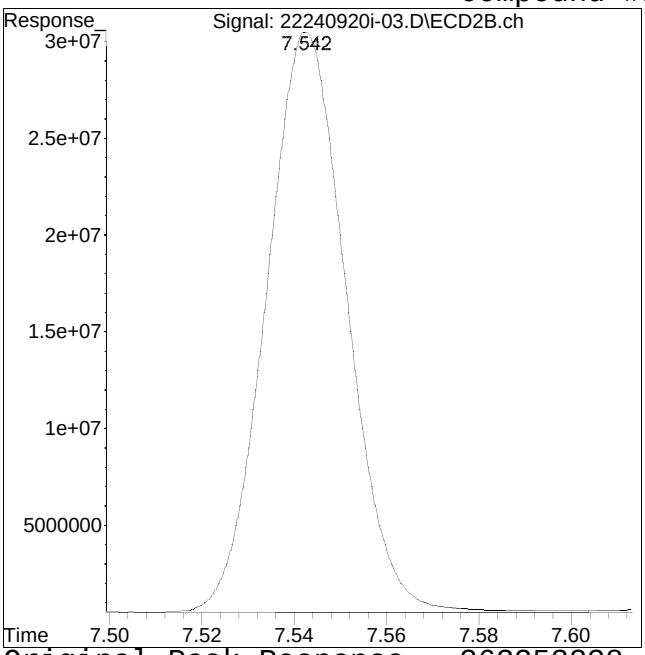


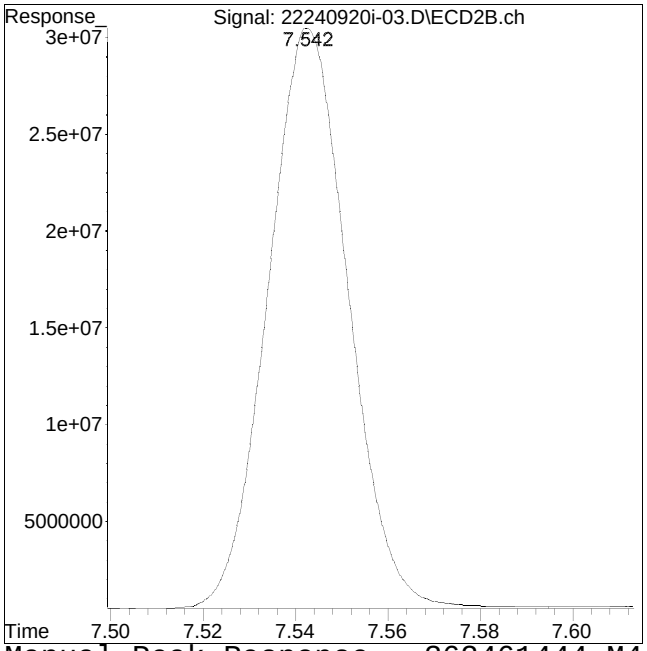
Original Peak Response = 328312705 Manual Peak Response = 303271208 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #17: Dicamba #2



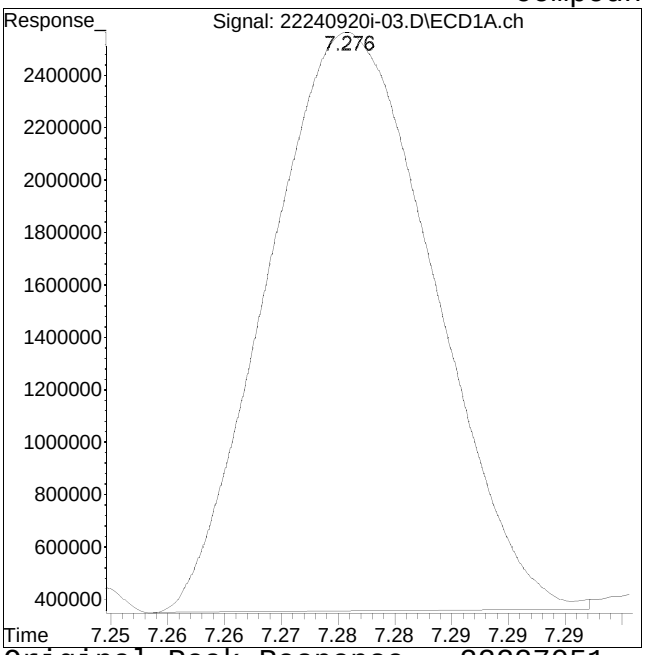


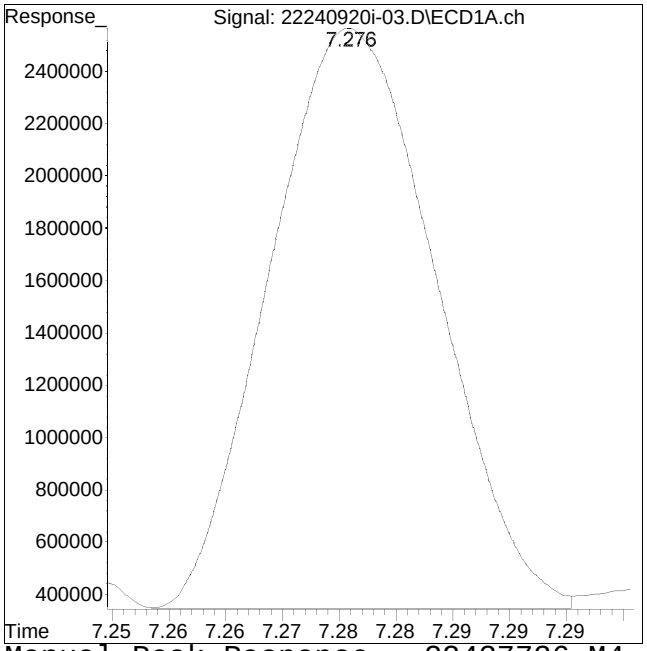
Original Peak Response = 363353338 Manual Peak Response = 362461444 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #5: MCPP



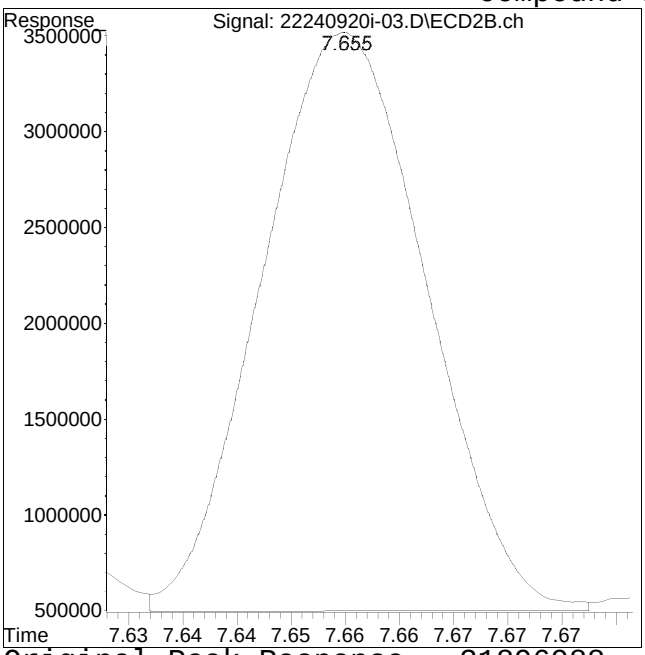


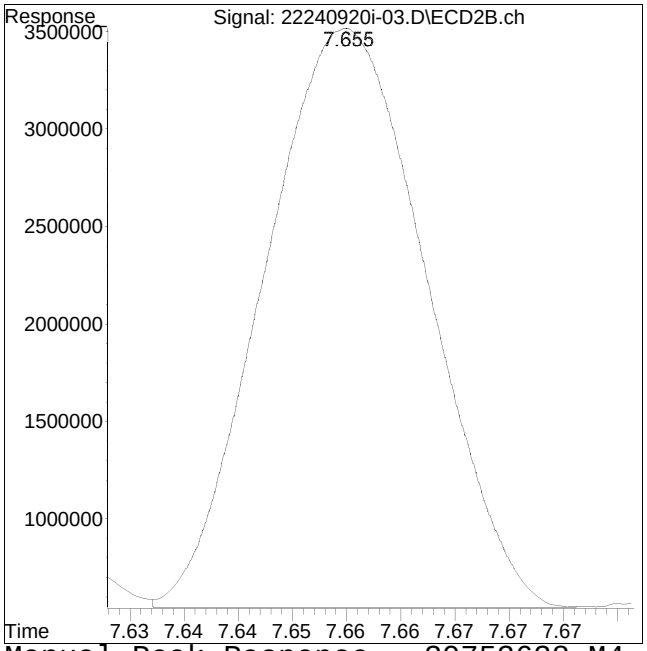
Original Peak Response = 22227051 Manual Peak Response = 22437726 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #18: MCPP #2



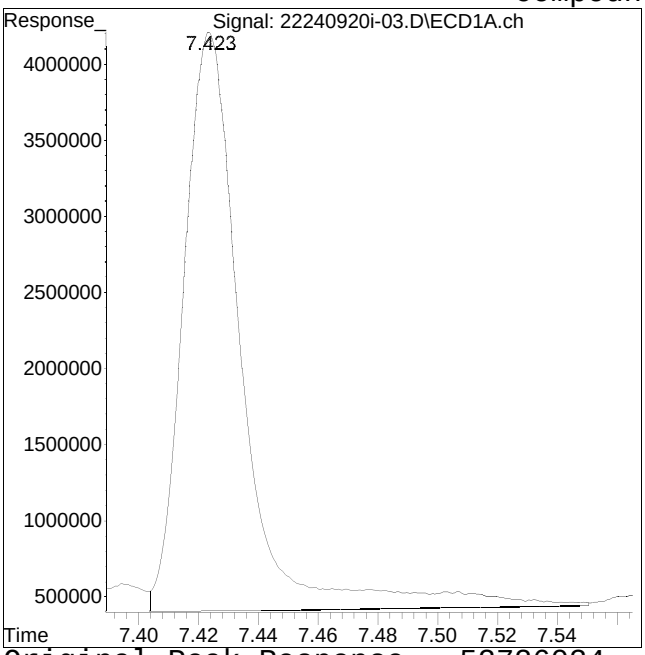


Original Peak Response = 31896988 Manual Peak Response = 30753638 M4
M4 = Poor automated baseline construction.

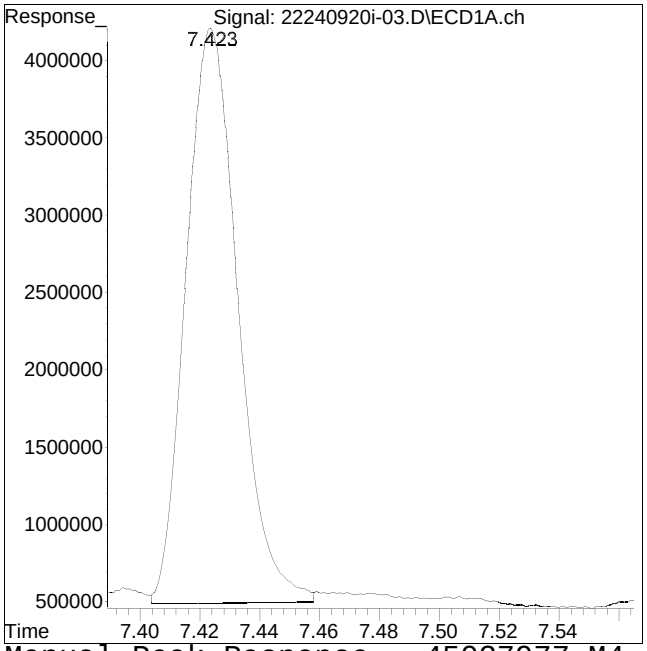
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #6: MCPA



Original Peak Response = 52726034



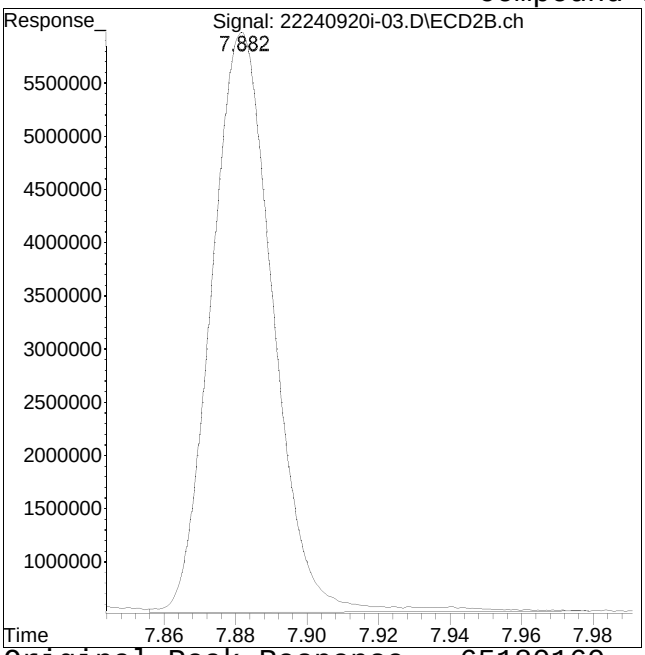
Manual Peak Response = 45037977 M4

M4 = Poor automated baseline construction.

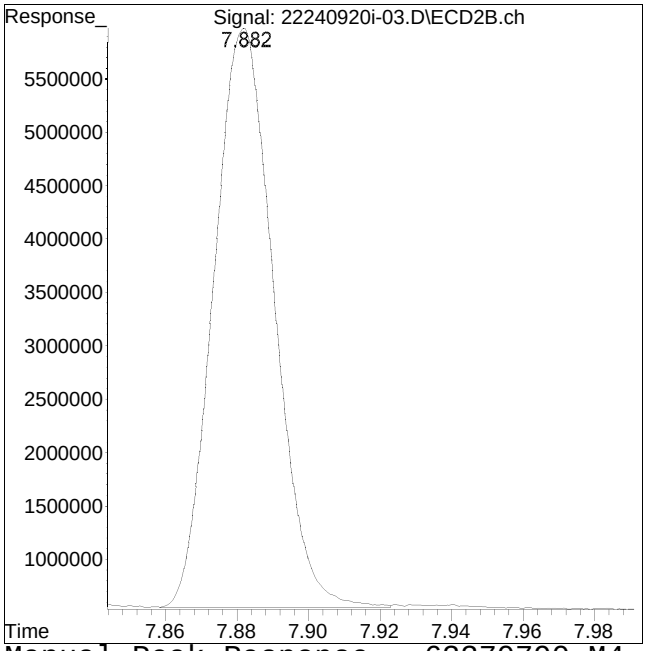
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #19: MCPA #2



Original Peak Response = 65180160



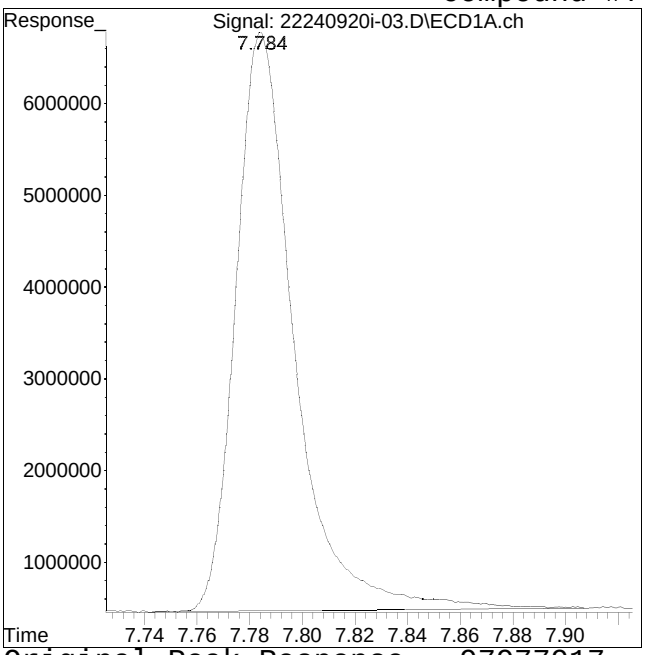
Manual Peak Response = 63370790 M4

M4 = Poor automated baseline construction.

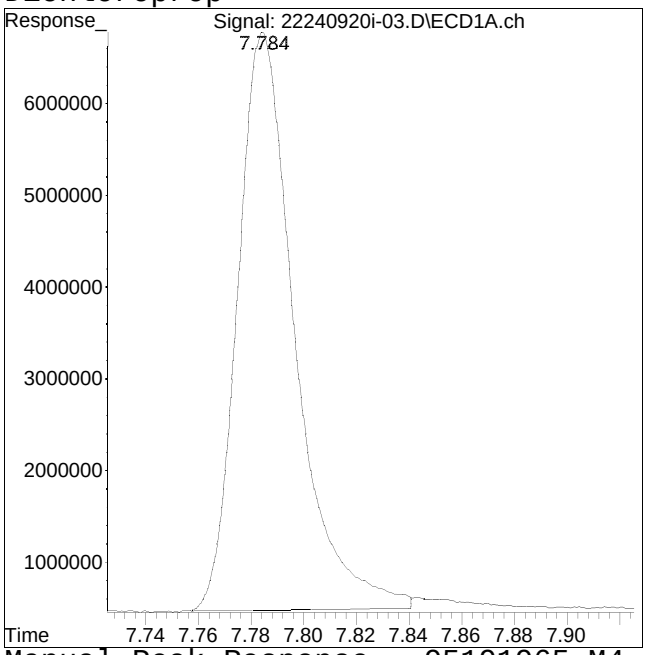
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #7: Dichloroprop



Original Peak Response = 97977917



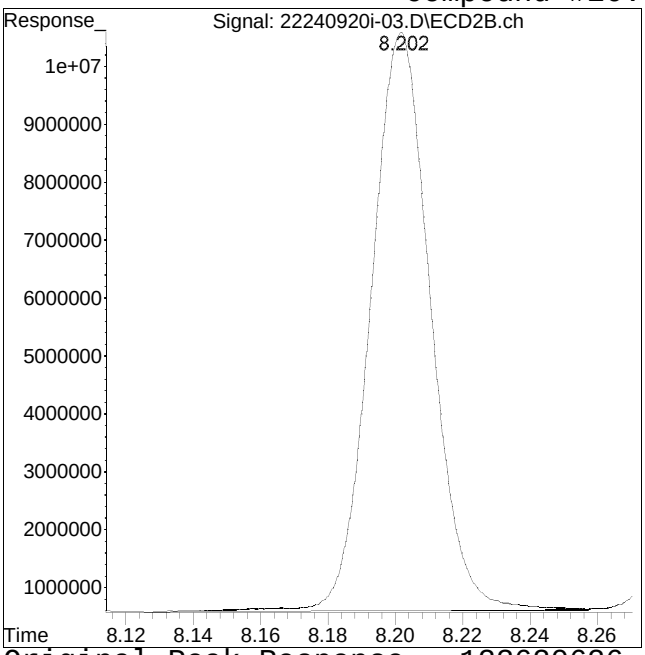
Manual Peak Response = 95191965 M4

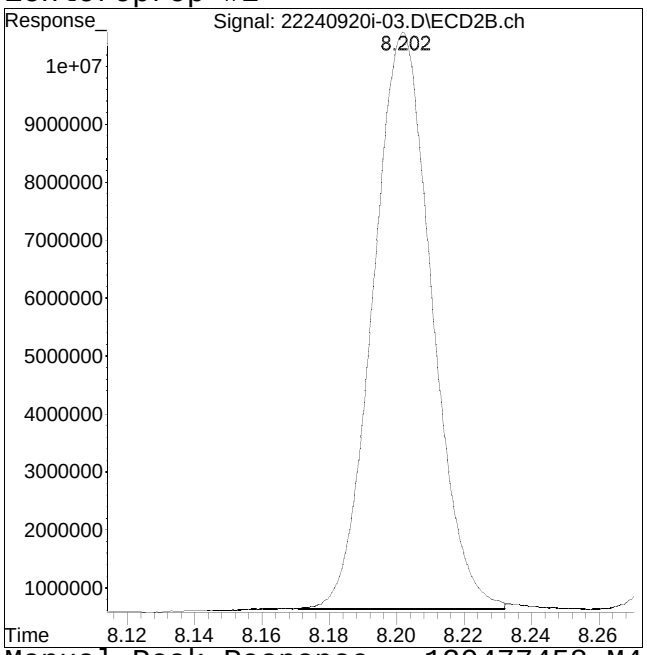
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #20: Dichloroprop #2



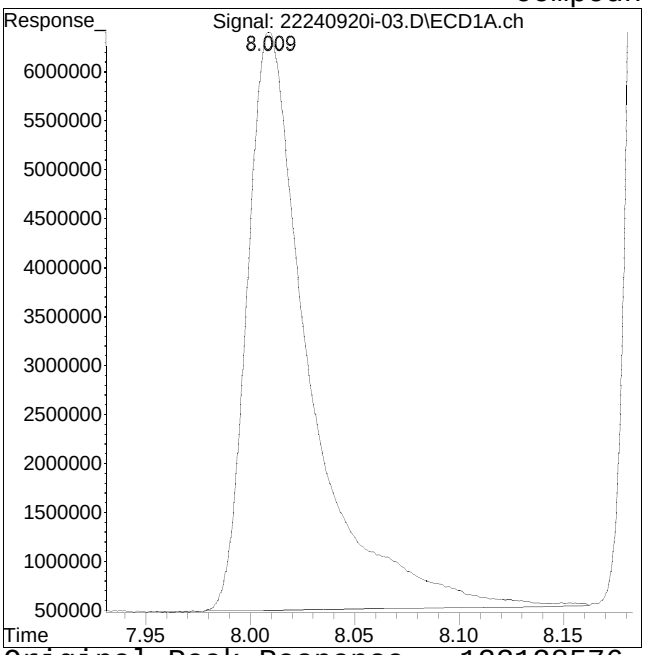


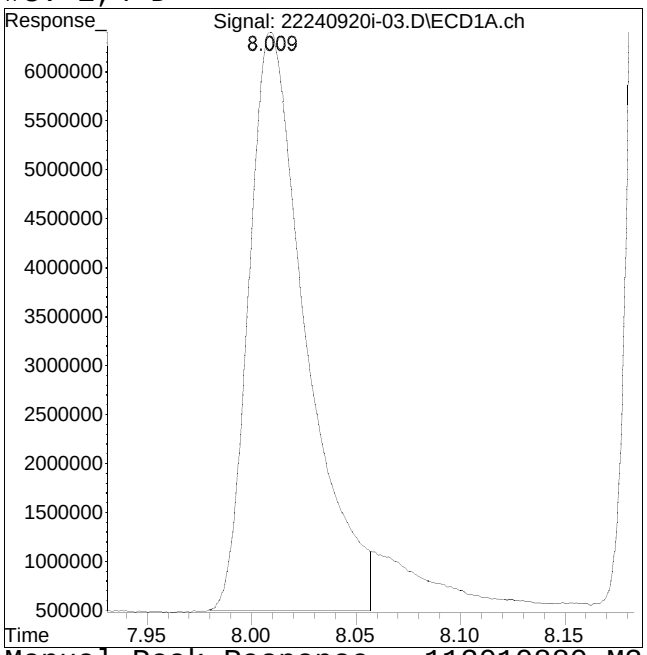
Original Peak Response = 123620626 Manual Peak Response = 120477458 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #8: 2,4-D



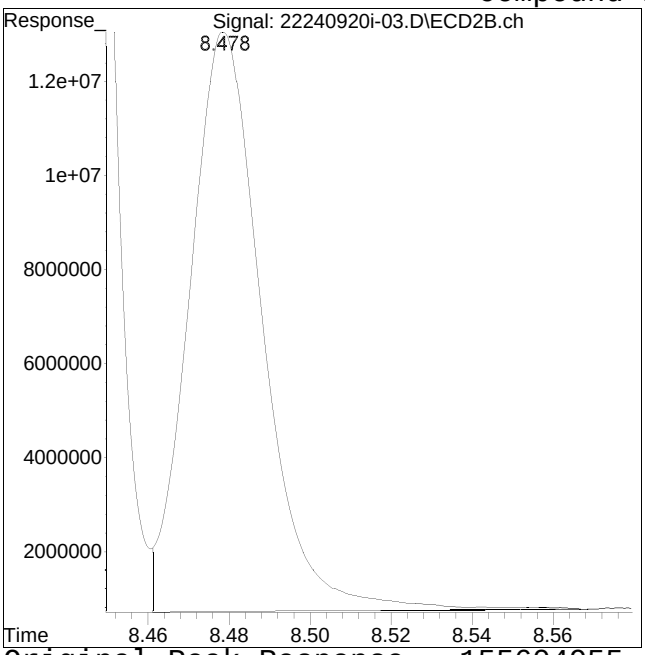


Original Peak Response = 123128576 Manual Peak Response = 112010880 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

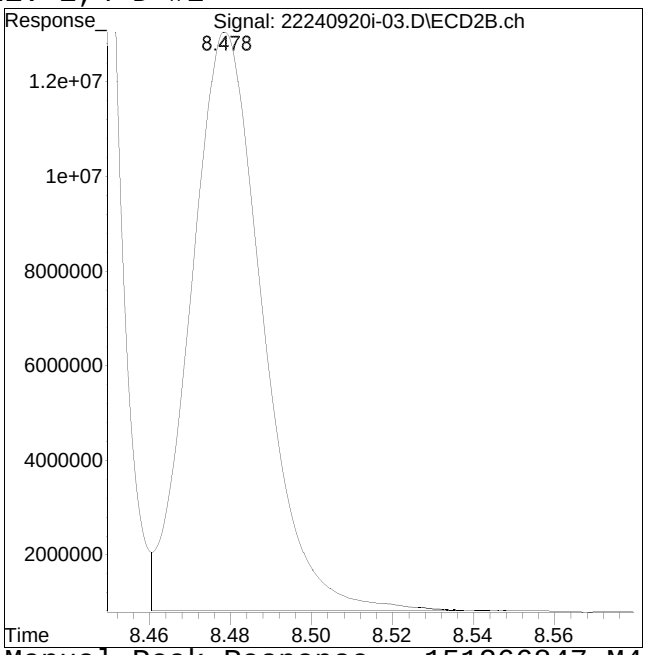
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #21: 2,4-D #2



Original Peak Response = 155604955

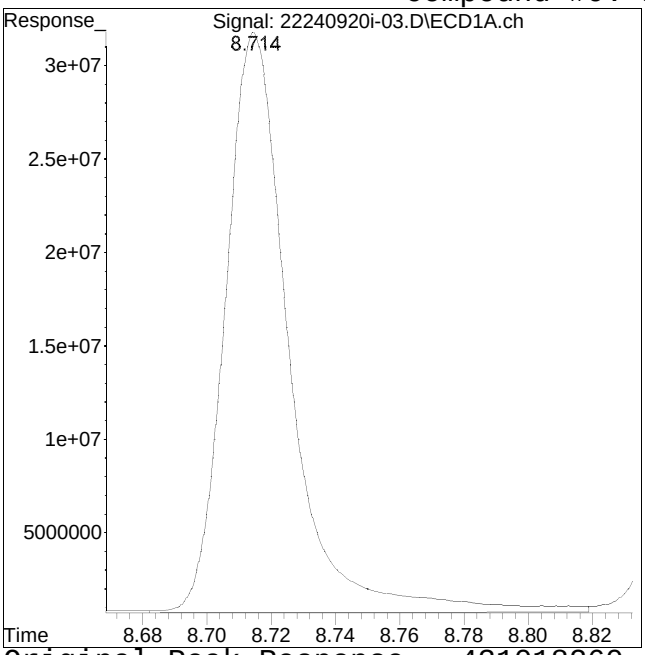


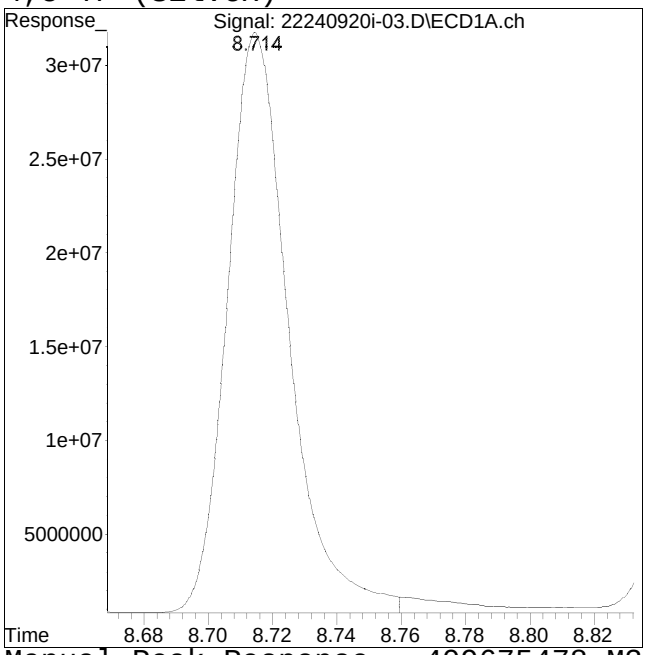
Manual Peak Response = 151266847 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #9: 2,4,5-TP (Silvex)



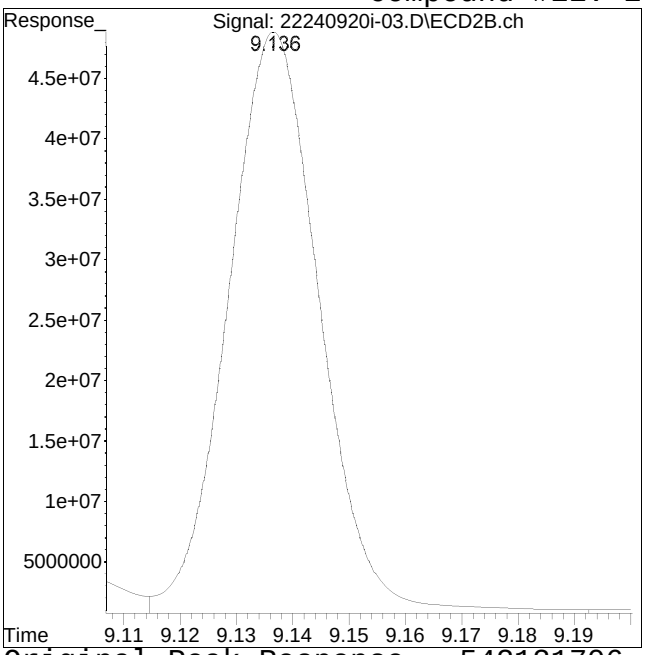


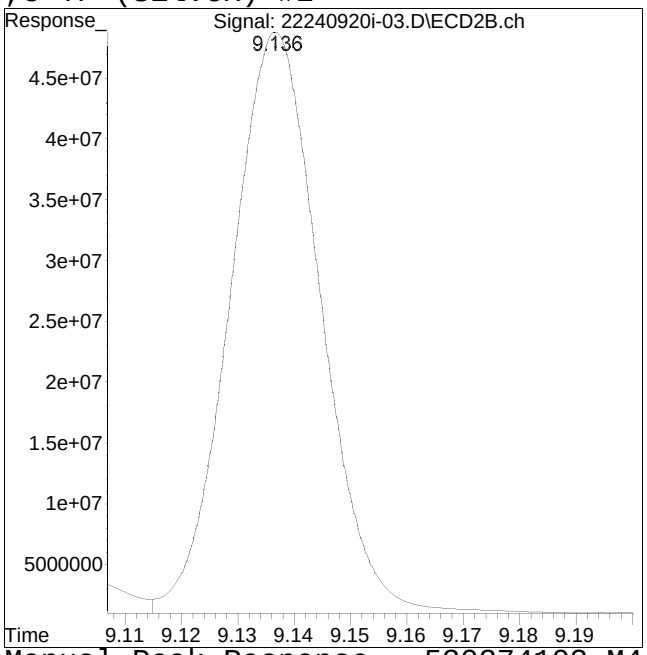
Original Peak Response = 431018260 Manual Peak Response = 409675478 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #22: 2,4,5-TP (Silvex) #2



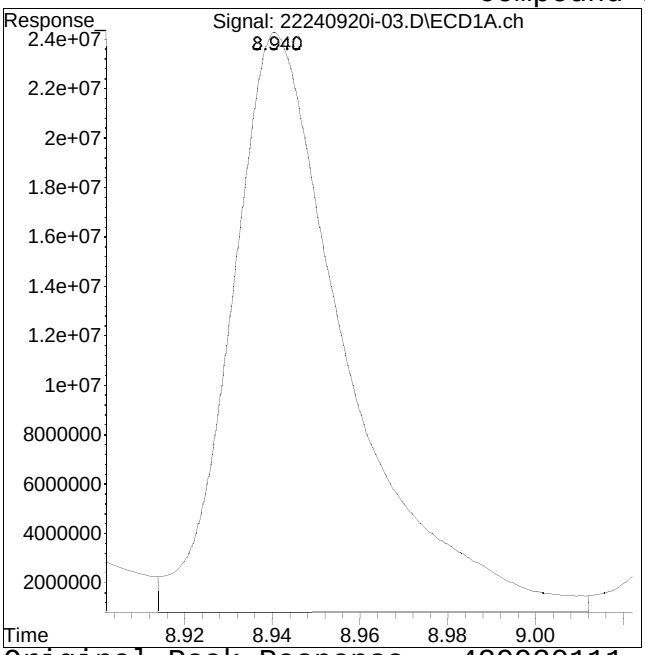


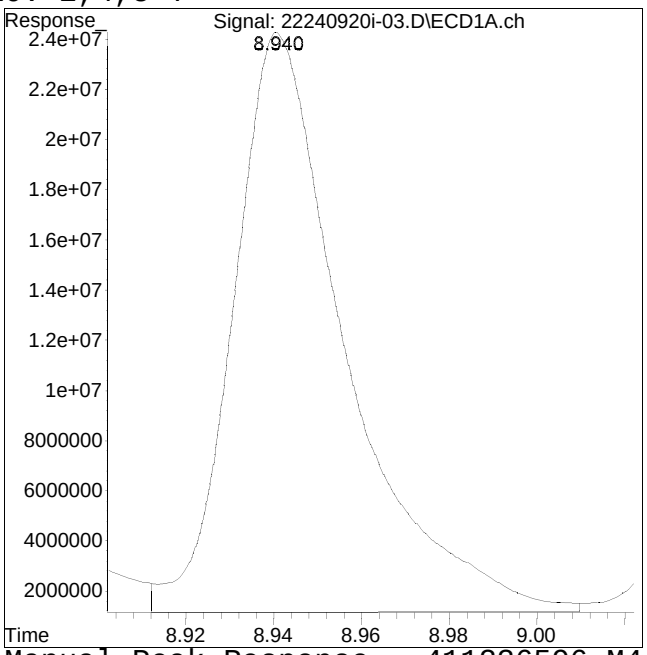
Original Peak Response = 542121706 Manual Peak Response = 530374103 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #10: 2,4,5-T



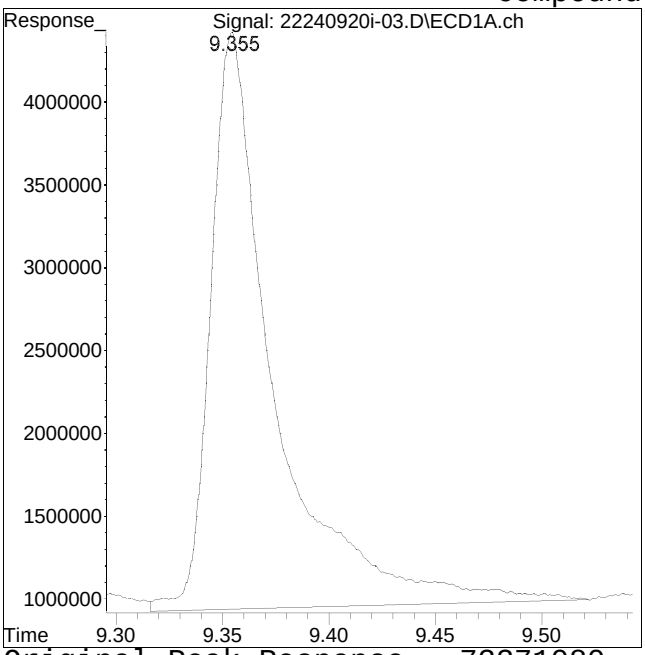


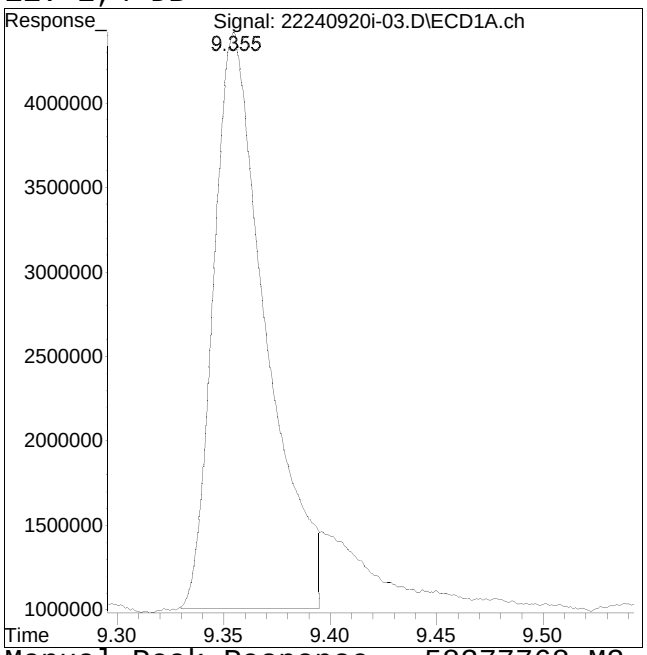
Original Peak Response = 429920111 Manual Peak Response = 411236596 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #11: 2,4-DB



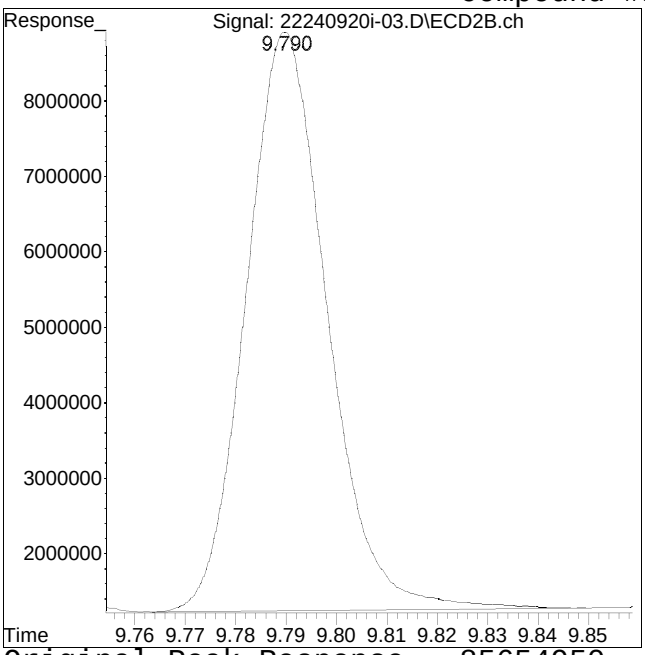


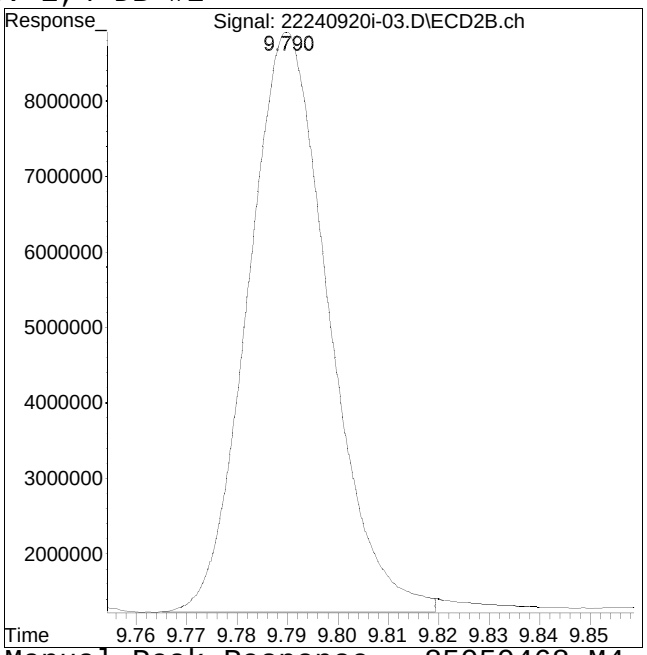
Original Peak Response = 73371080 Manual Peak Response = 58377768 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #24: 2,4-DB #2



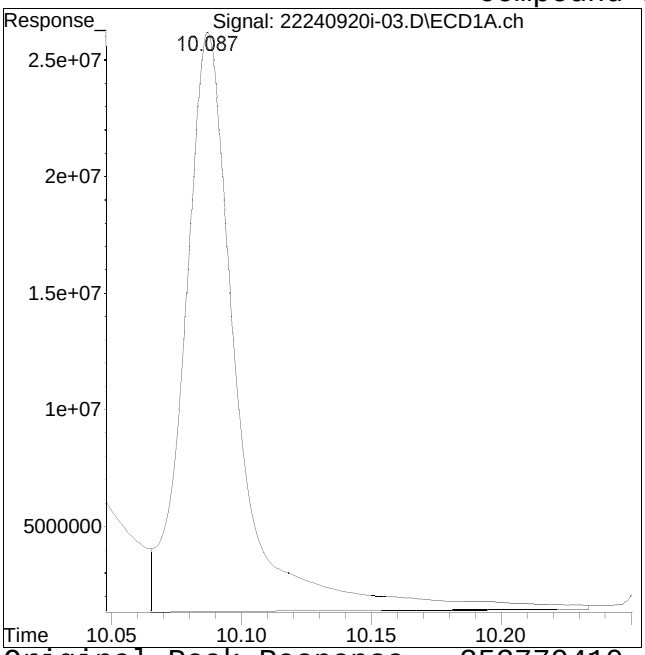


Original Peak Response = 85654950 Manual Peak Response = 85050468 M4
M4 = Poor automated baseline construction.

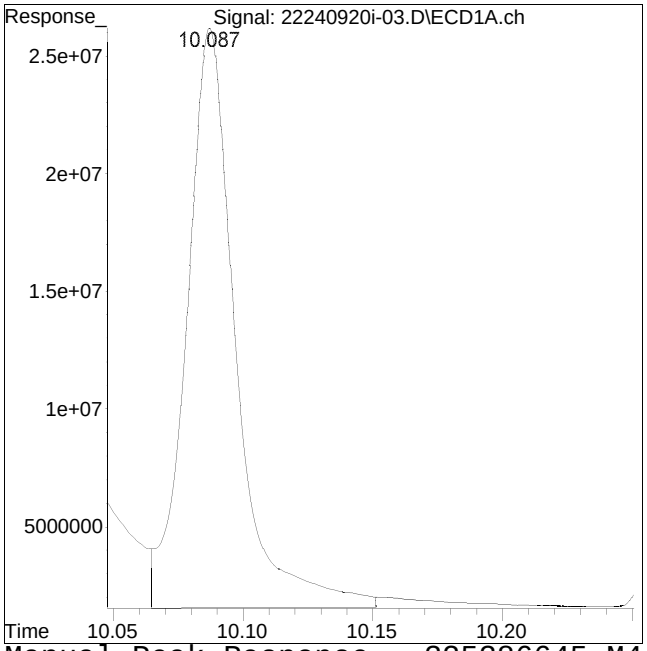
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #12: Dinoseb



Original Peak Response = 353779410



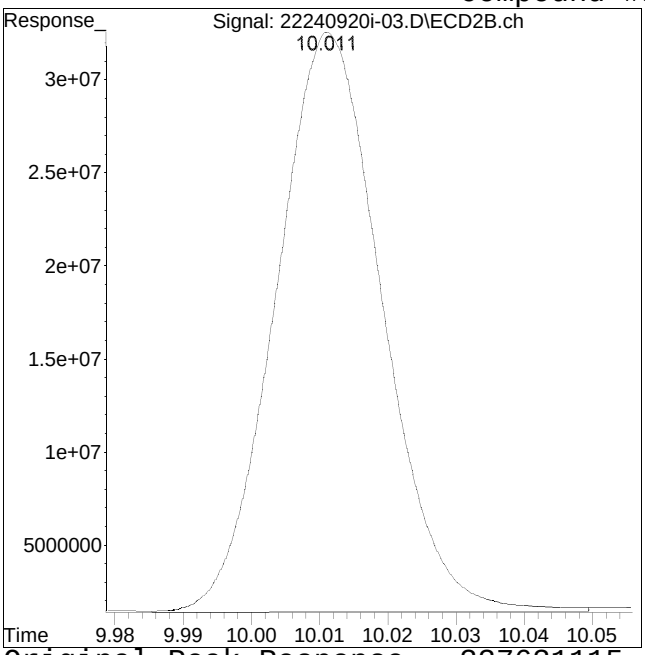
Manual Peak Response = 325386645 M4

M4 = Poor automated baseline construction.

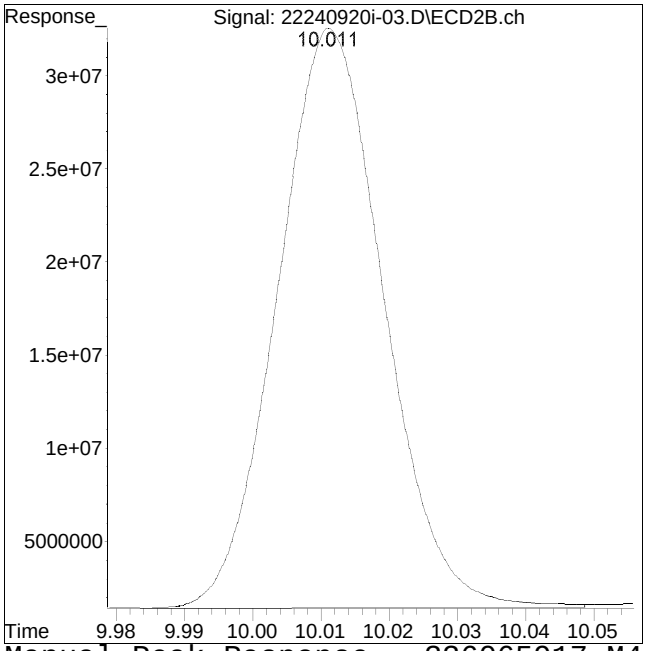
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #25: Dinoseb #2



Original Peak Response = 337631115



Manual Peak Response = 336065917 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1257.9E6	1593.0E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.900	7.364	189.0E6	236.7E6	0.188M4	0.188M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	37.60%	37.60%
		Target Compounds						
2)	t	Dalapon	2.326	2.321	232.1E6	262.8E6	0.182M3	0.182M4
4)	t	Dicamba	7.076	7.542	569.2E6	667.7E6	0.188M4	0.188M4
5)	t	MCPP	7.276	7.655	48106360	64105928	18.800M4	18.800M4
6)	t	MCPA	7.422	7.881	89263411	117.2E6	18.600M3	18.600M4
7)	t	Dichloroprop	7.782	8.201	179.3E6	218.4E6	0.188M4	0.188M4
8)	t	2,4-D	8.004	8.478	211.2E6	277.3E6	0.188M3	0.188M4
9)	t	2,4,5-TP (Si	8.713	9.137	795.3E6	993.0E6	0.190M4	0.190M4
10)	t	2,4,5-T	8.941	9.428	800.2E6	967.1E6	0.190M3	0.190
11)	t	2,4-DB	9.351	9.790	119.1E6	160.5E6	0.192M4	0.192
12)	t	Dinoseb	10.087	10.012	607.8E6	626.1E6	0.204M4	0.190M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

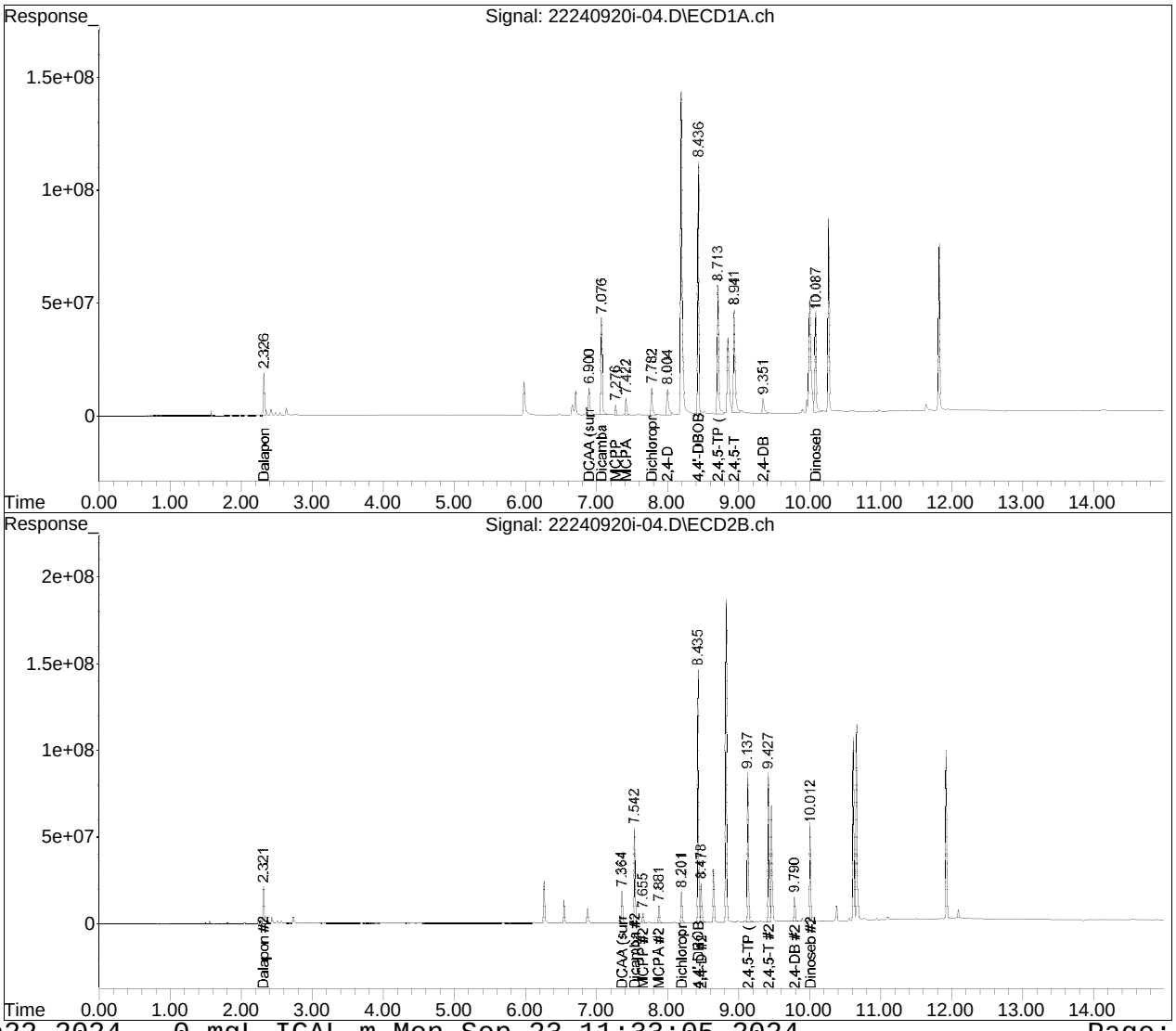
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

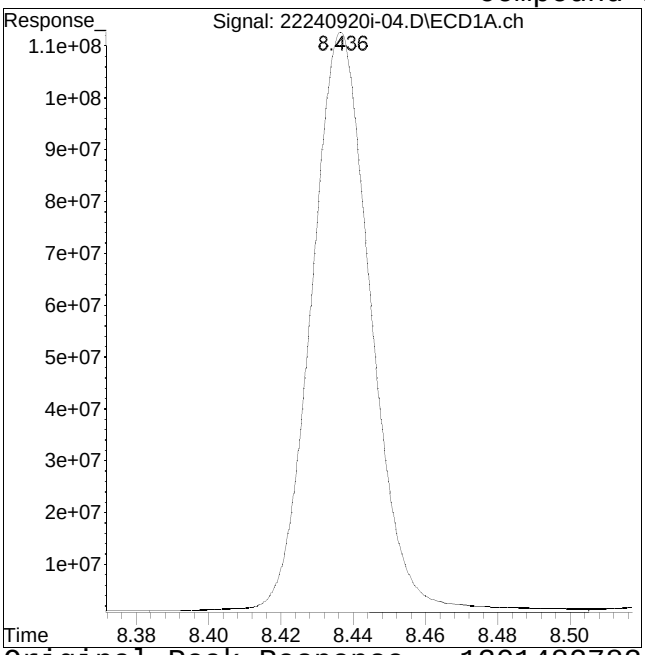
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

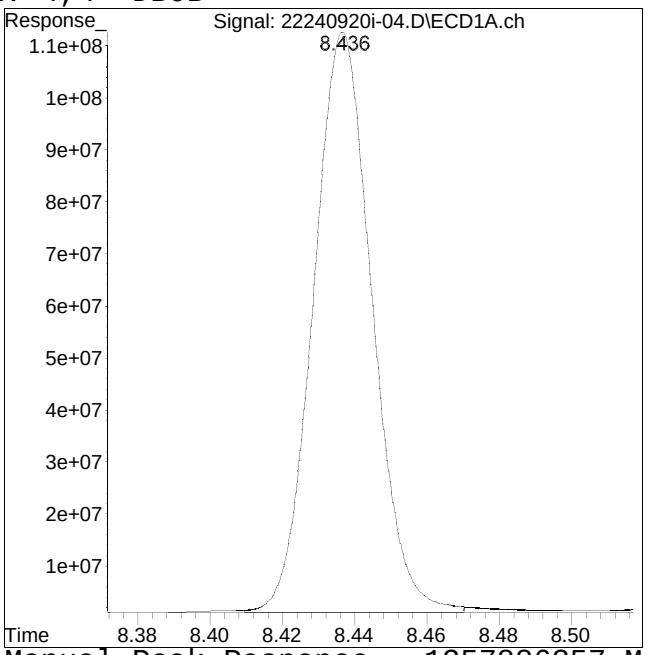


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #1: 4,4'-DBOB



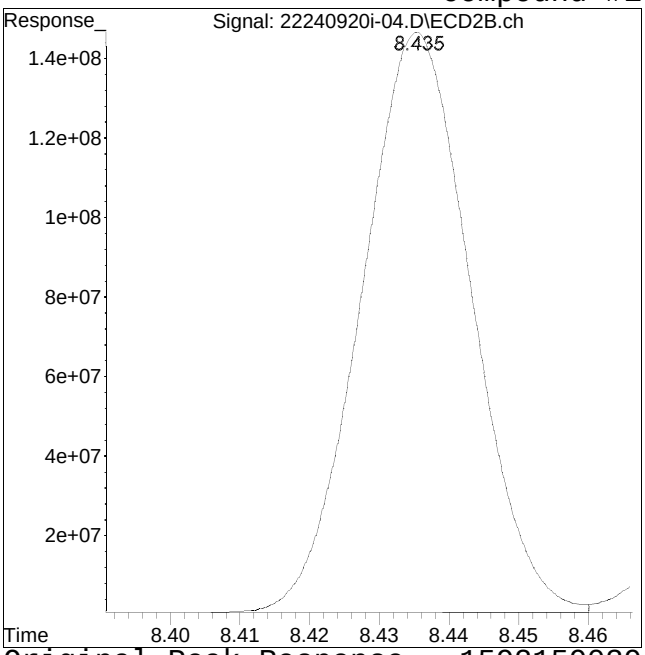


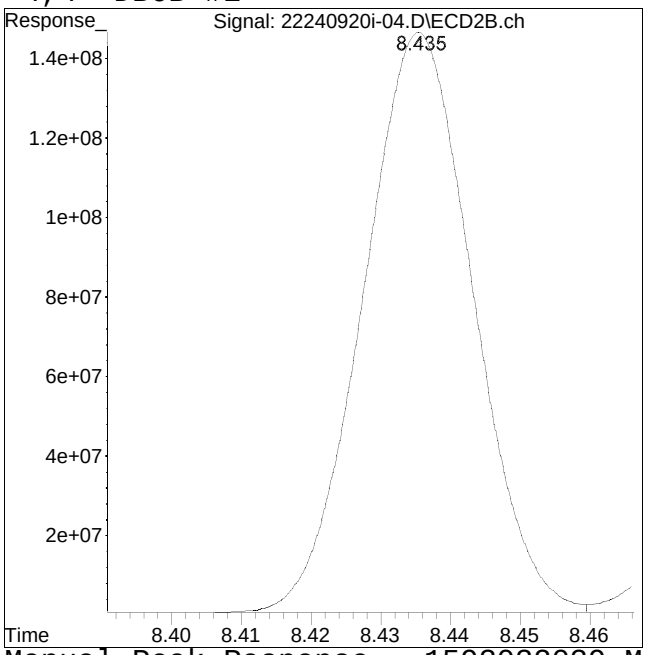
Original Peak Response = 1301482783 Manual Peak Response = 1257886357 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #14: 4,4'-DBOB #2



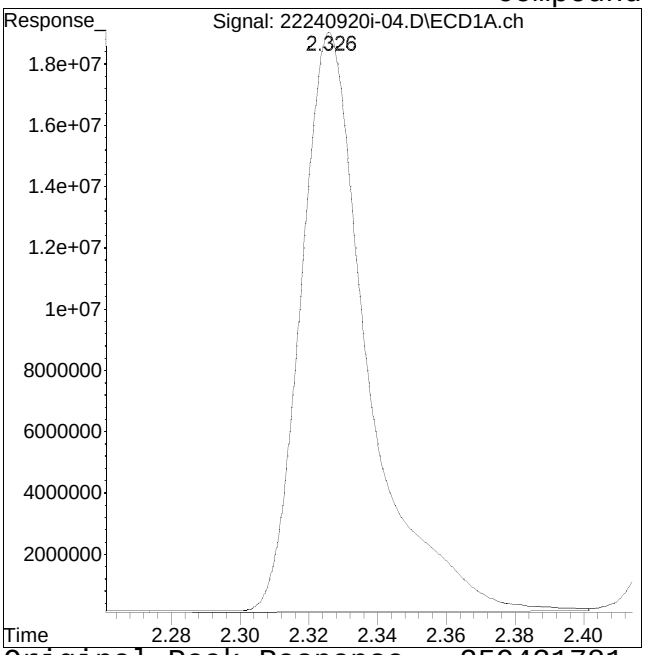


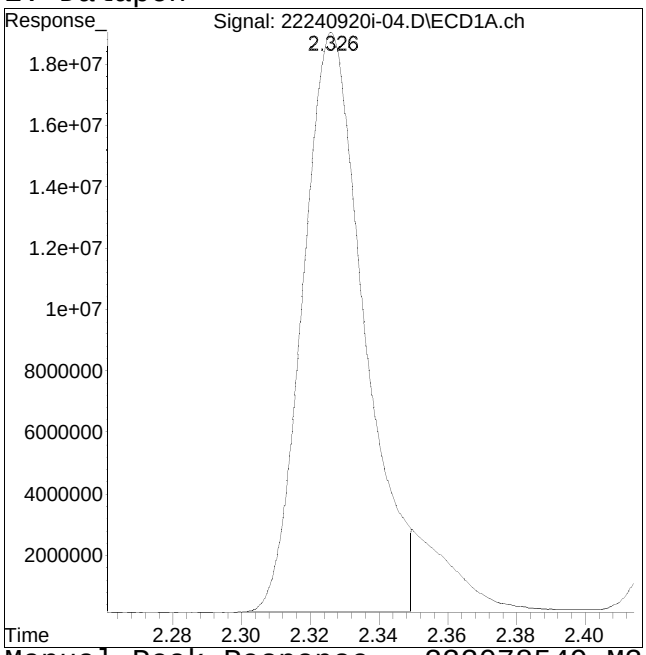
Original Peak Response = 1592159039 Manual Peak Response = 1593032039 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #2: Dalapon



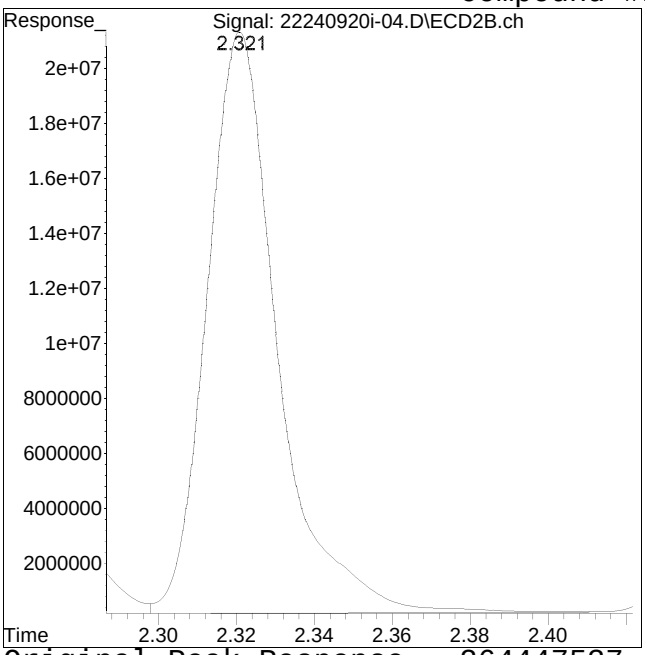


Original Peak Response = 259431781 Manual Peak Response = 232078549 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

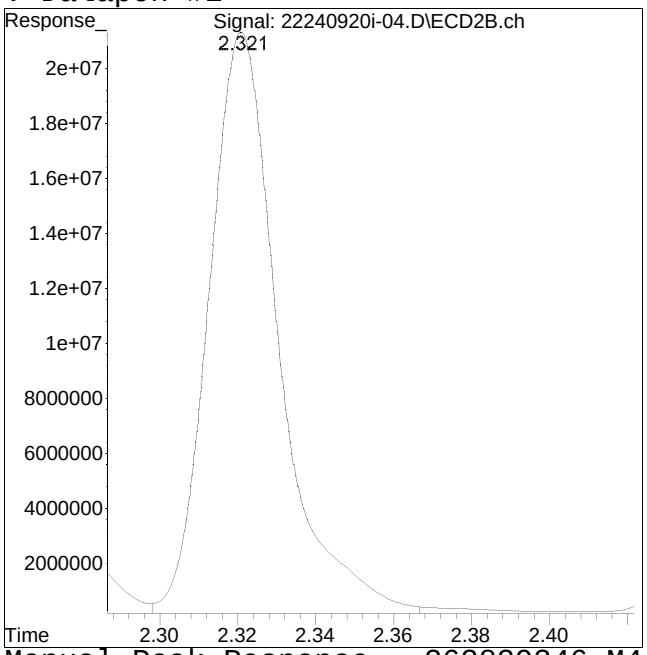
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #15: Dalapon #2



Original Peak Response = 264447537



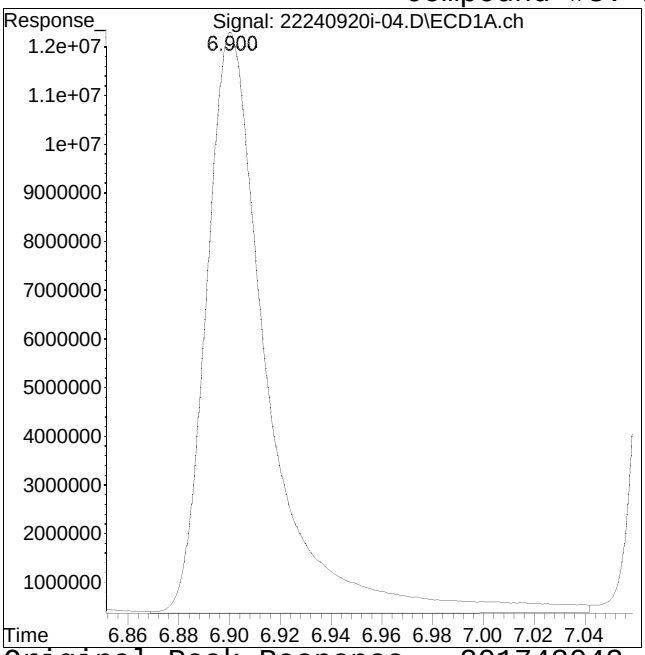
Manual Peak Response = 262829346 M4

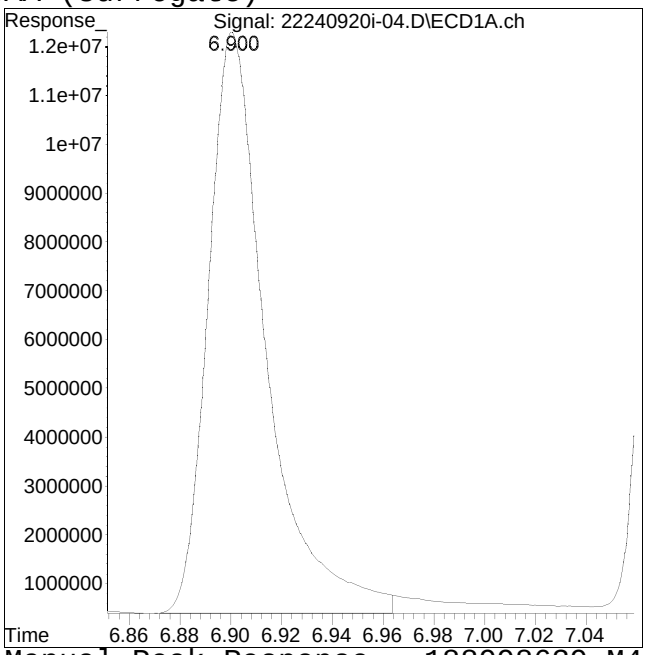
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #3: DCAA (surrogate)



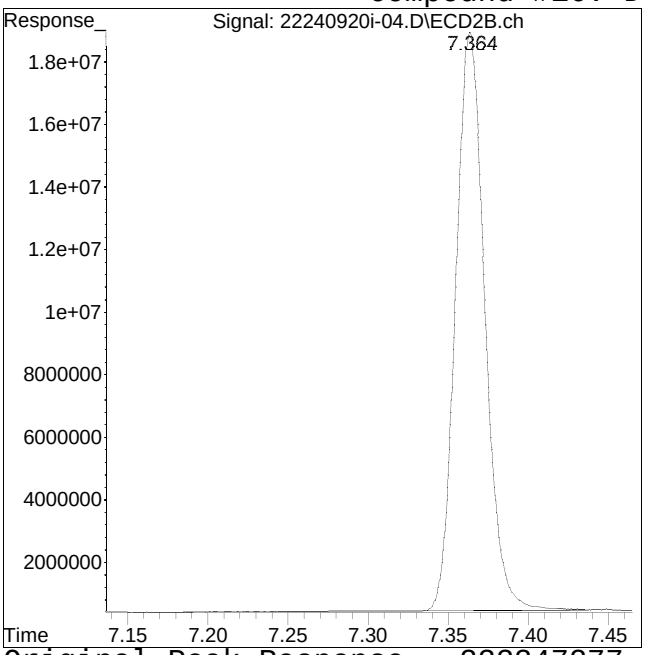


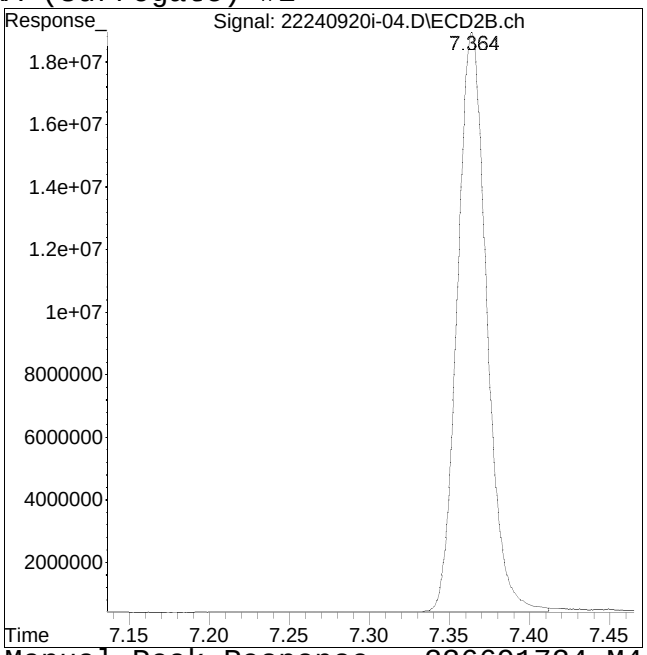
Original Peak Response = 201743043 Manual Peak Response = 188998639 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #16: DCAA (surrogate) #2



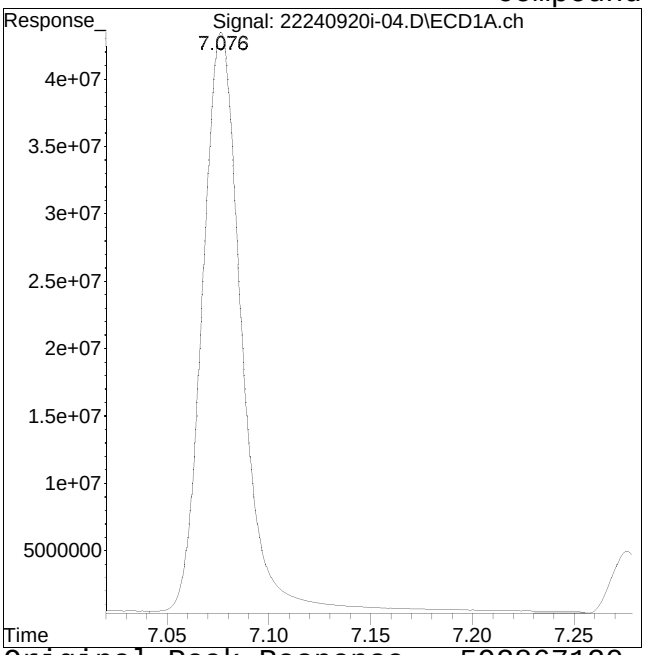


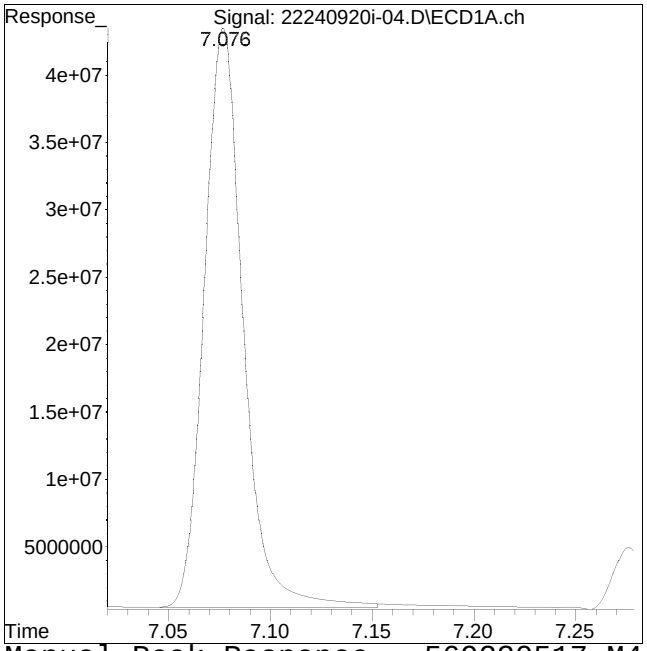
Original Peak Response = 233347277 Manual Peak Response = 236691724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #4: Dicamba



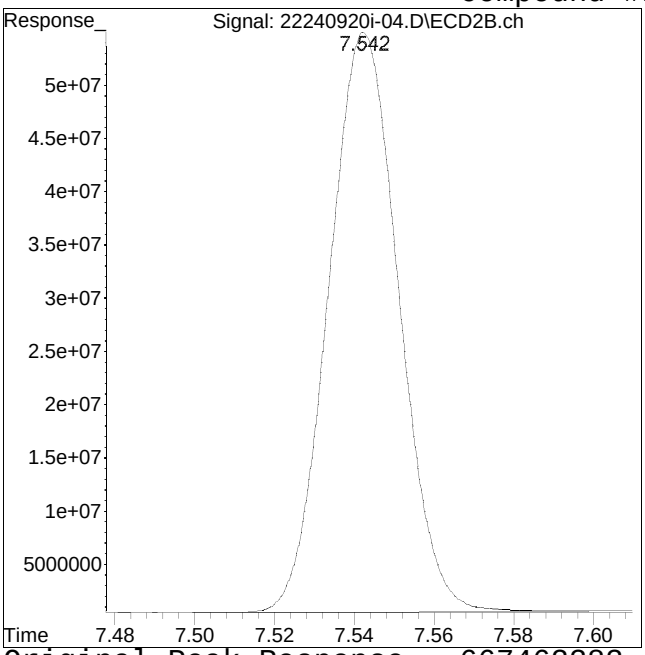


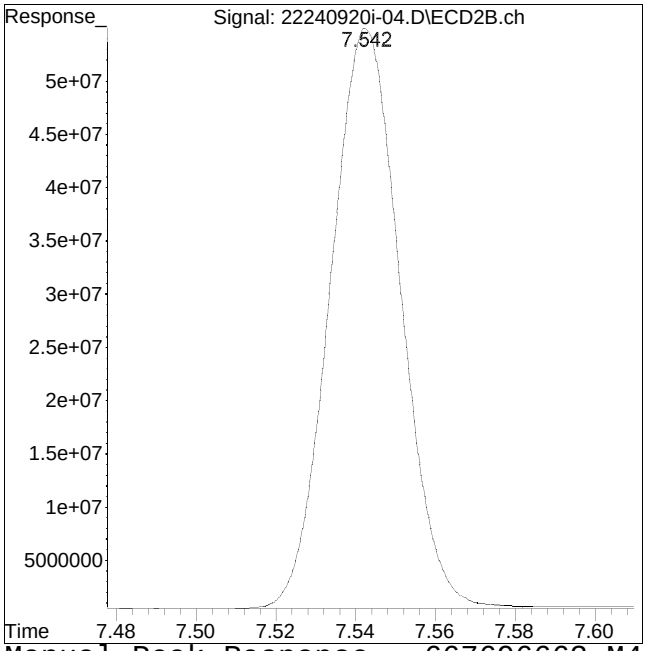
Original Peak Response = 592867120 Manual Peak Response = 569230517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #17: Dicamba #2



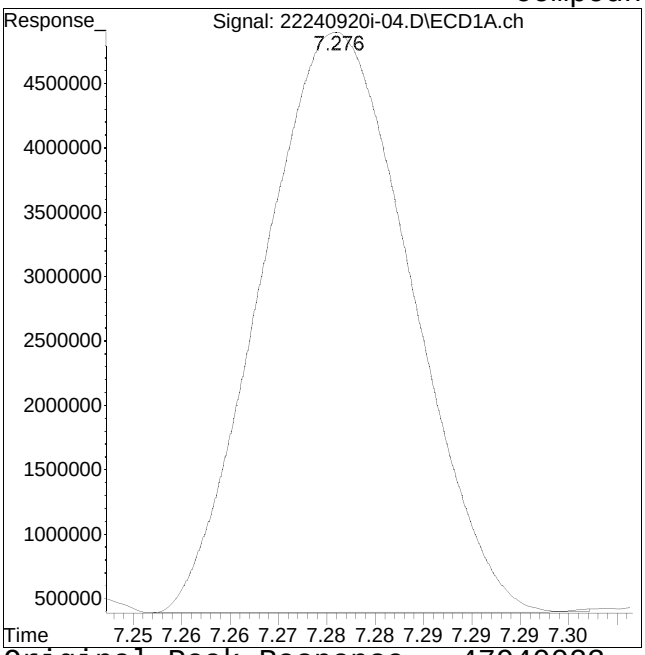


Original Peak Response = 667462383 Manual Peak Response = 667696663 M4
M4 = Poor automated baseline construction.

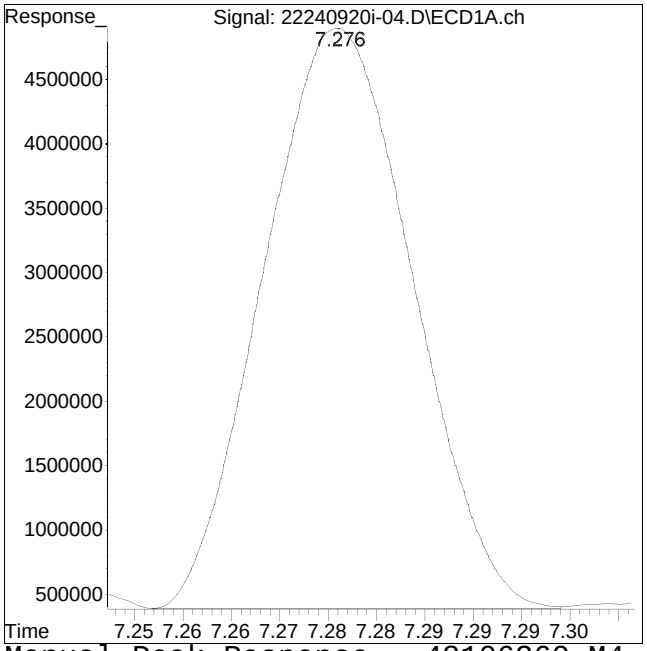
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #5: MCPP



Original Peak Response = 47940023



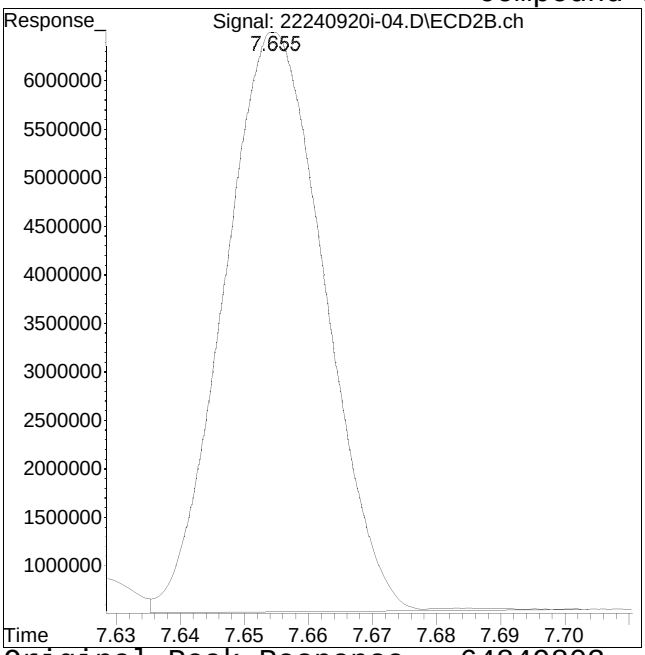
Manual Peak Response = 48106360 M4

M4 = Poor automated baseline construction.

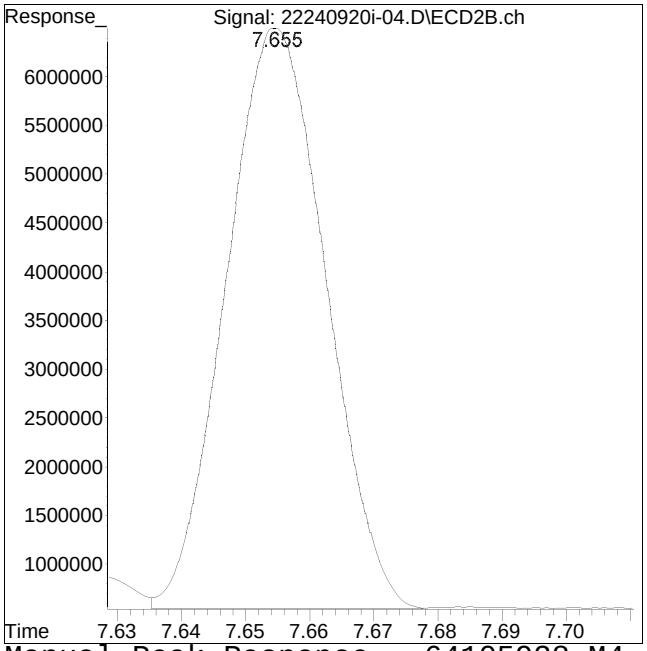
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #18: MCPP #2



Original Peak Response = 64849803



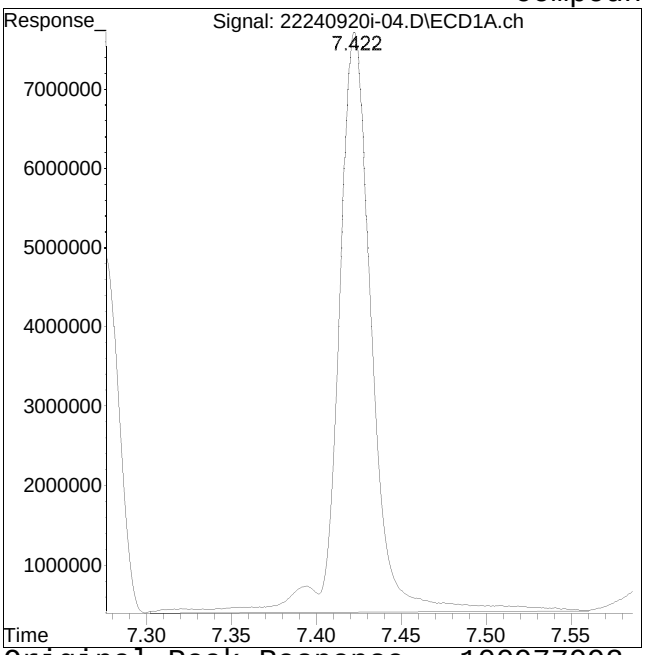
Manual Peak Response = 64105928 M4

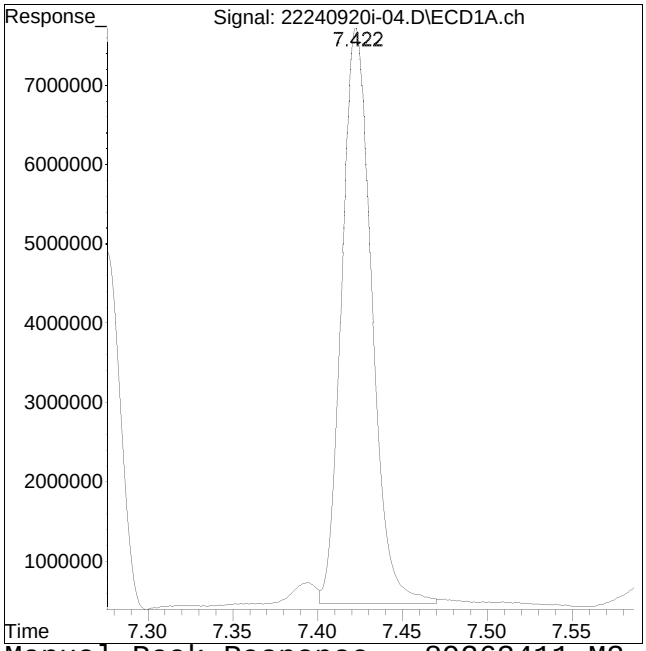
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #6: MCPA



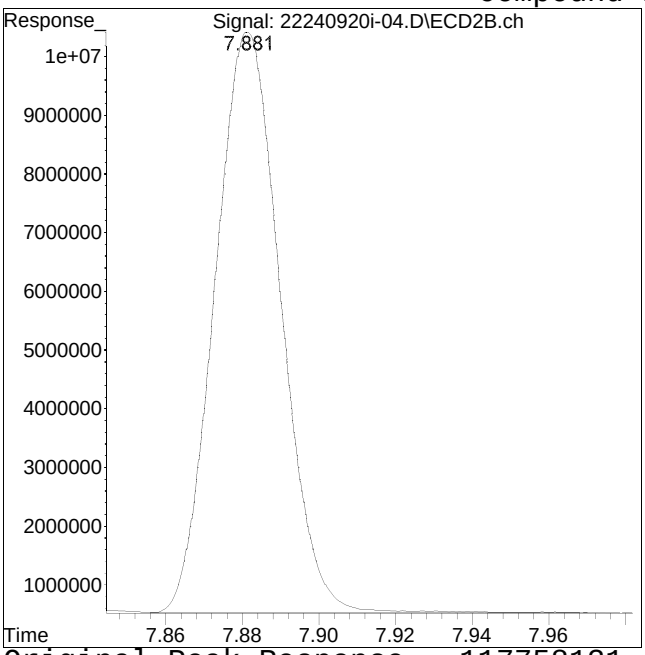


Original Peak Response = 100977992 Manual Peak Response = 89263411 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

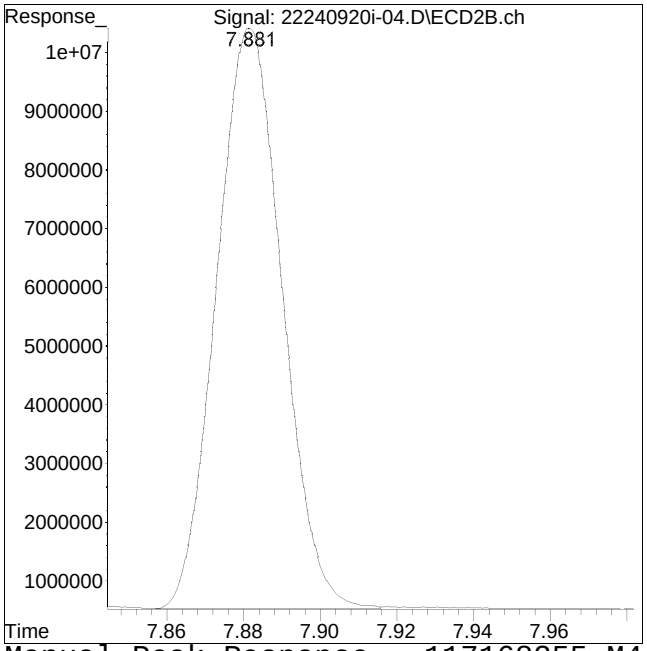
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #19: MCPA #2



Original Peak Response = 117758131

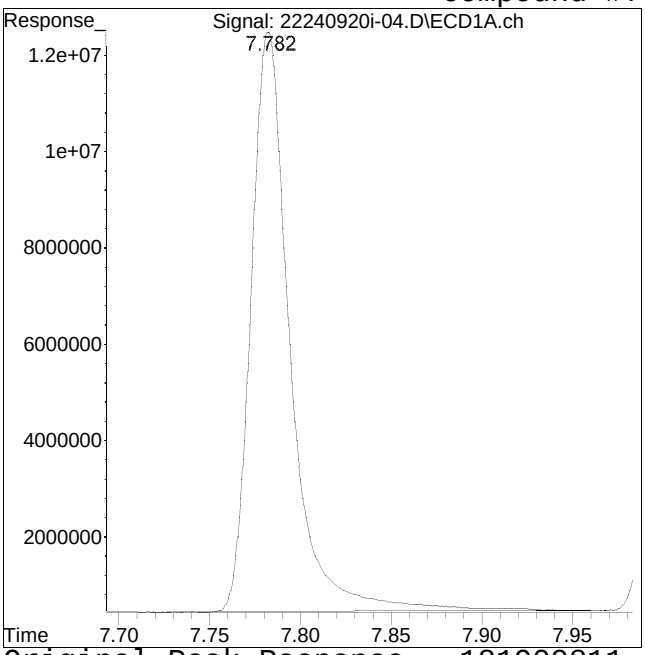


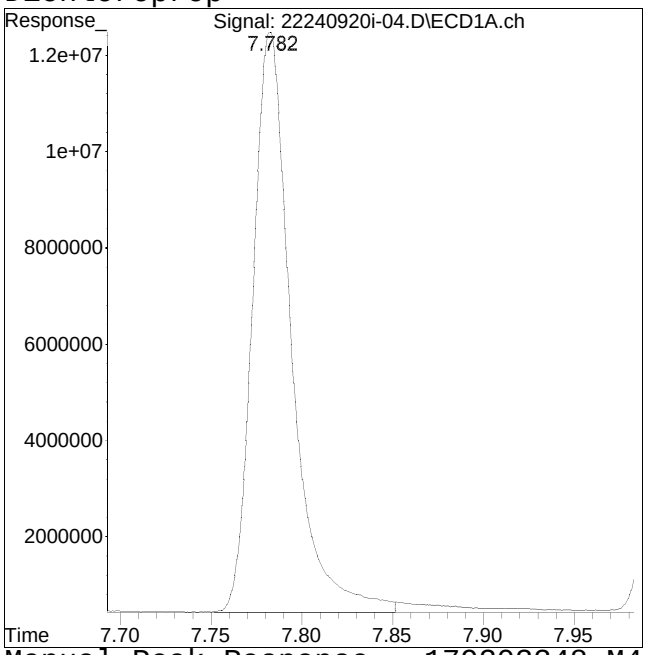
Manual Peak Response = 117168255 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #7: Dichloroprop



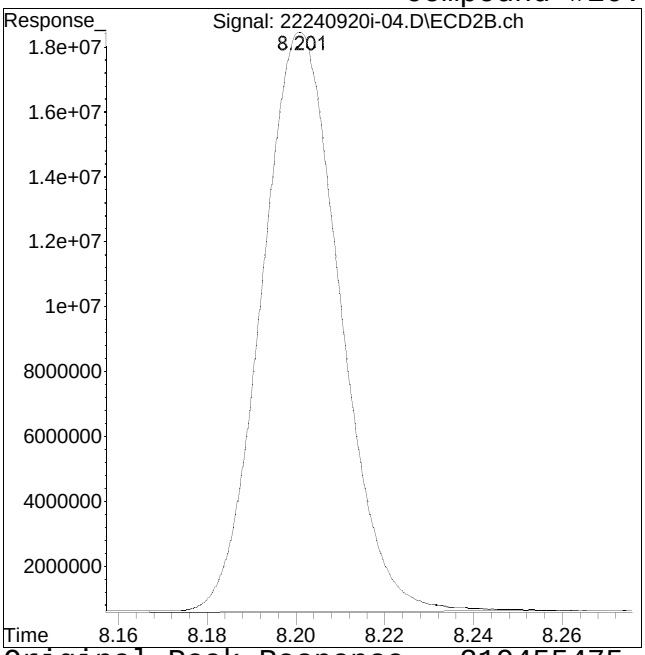


Original Peak Response = 181909811 Manual Peak Response = 179303348 M4
M4 = Poor automated baseline construction.

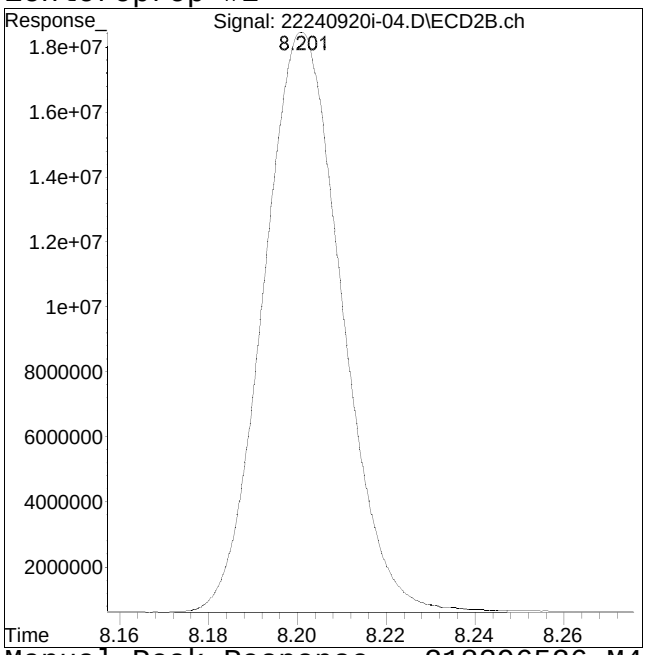
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #20: Dichloroprop #2



Original Peak Response = 219455475

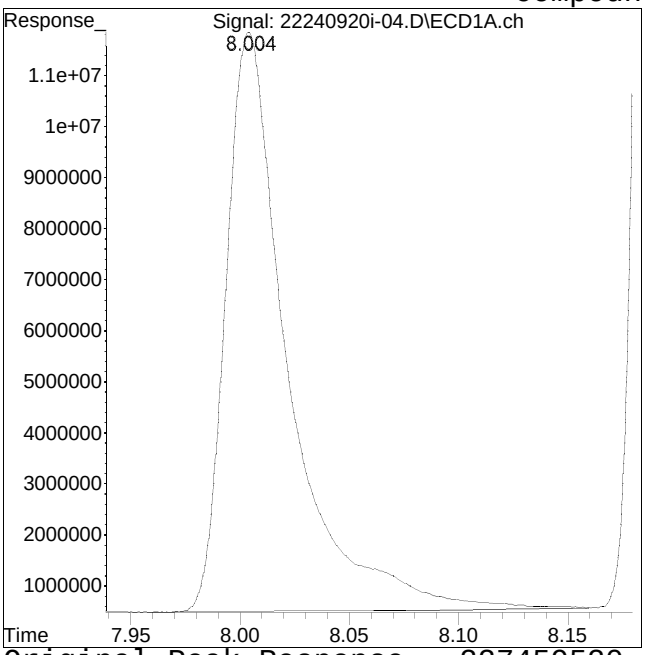


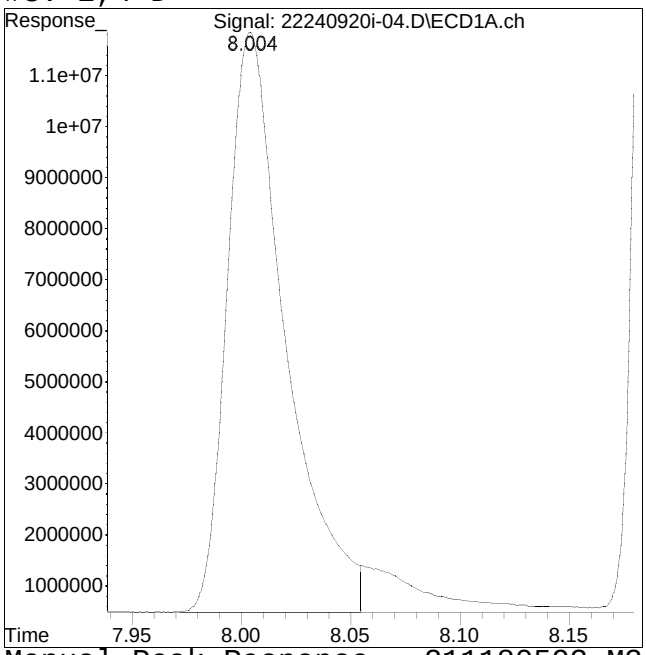
Manual Peak Response = 218396526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #8: 2,4-D



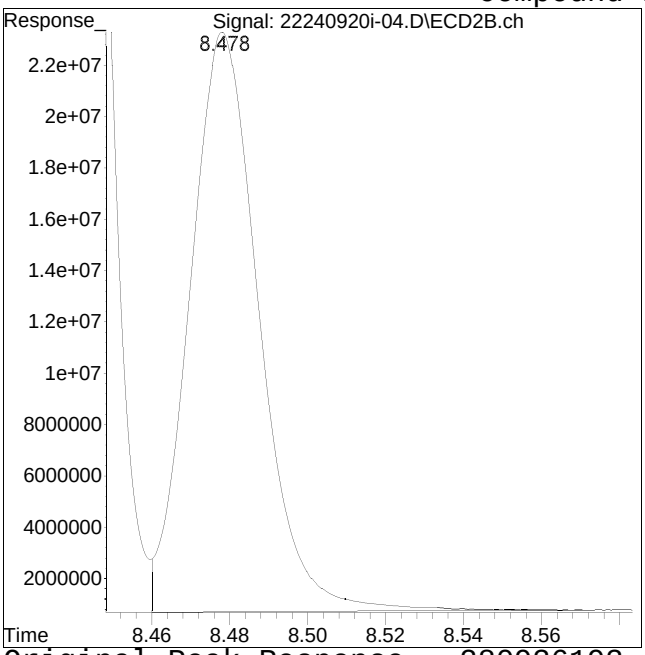


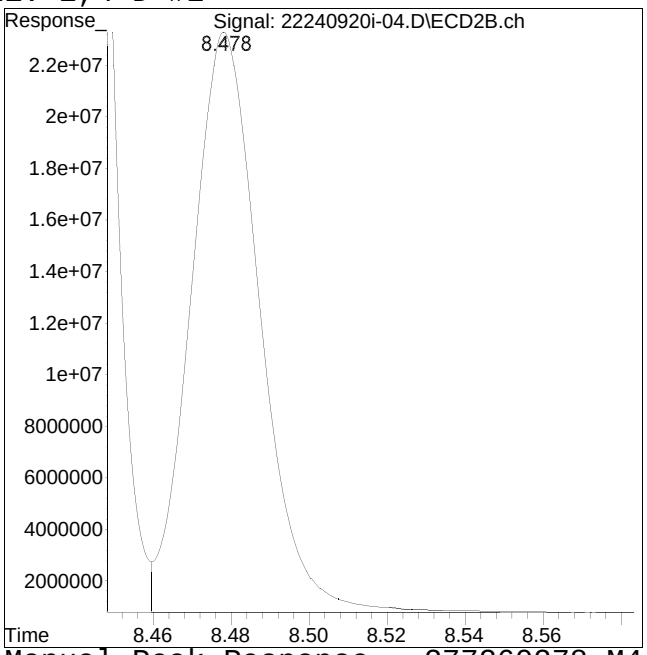
Original Peak Response = 227459520 Manual Peak Response = 211180593 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #21: 2,4-D #2



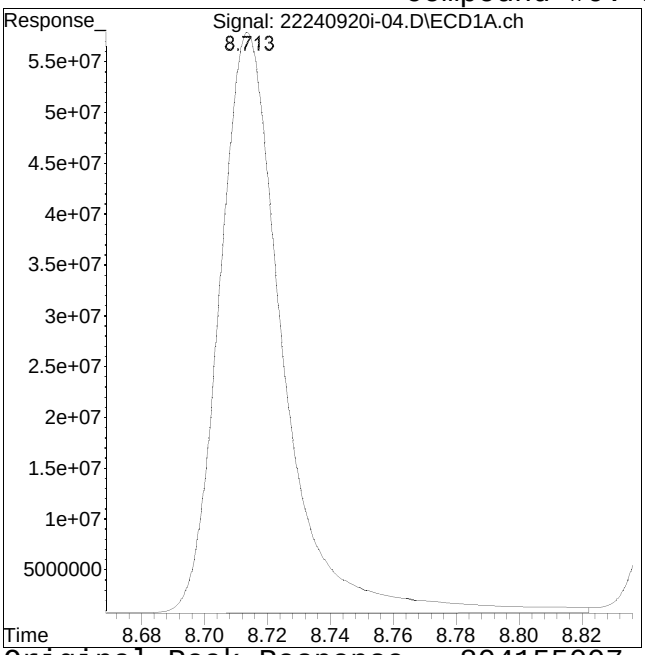


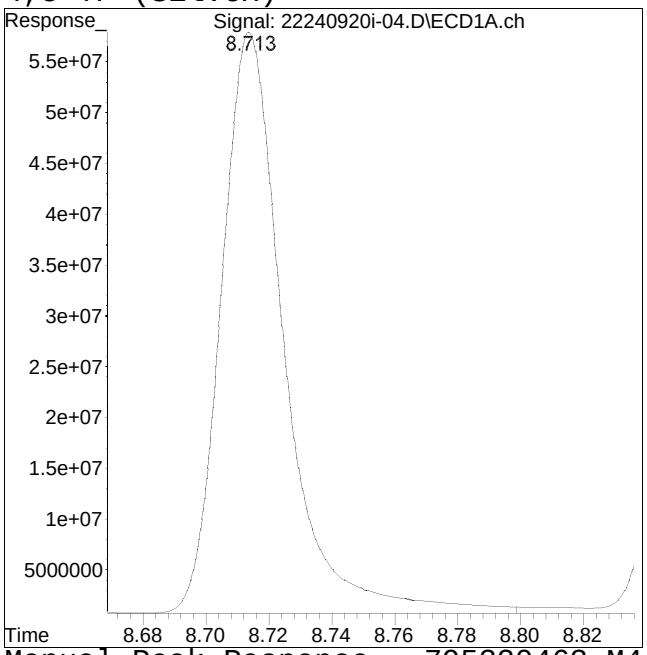
Original Peak Response = 280936193 Manual Peak Response = 277260278 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #9: 2,4,5-TP (Silvex)



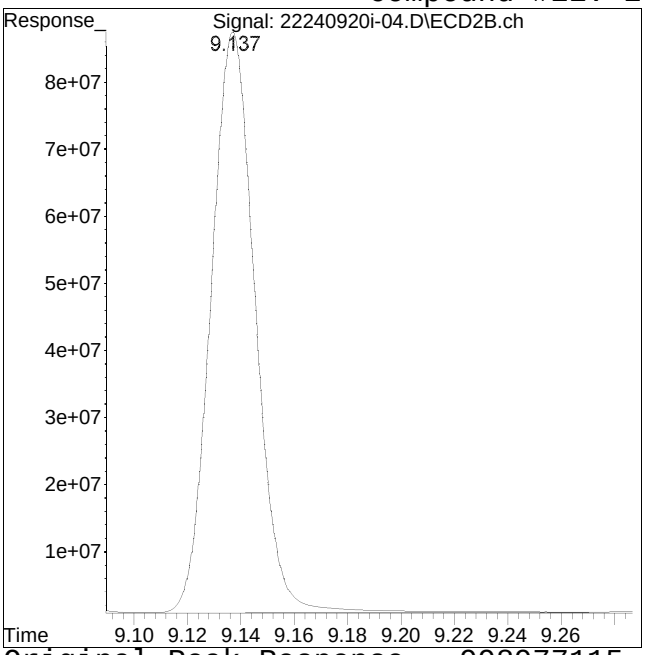


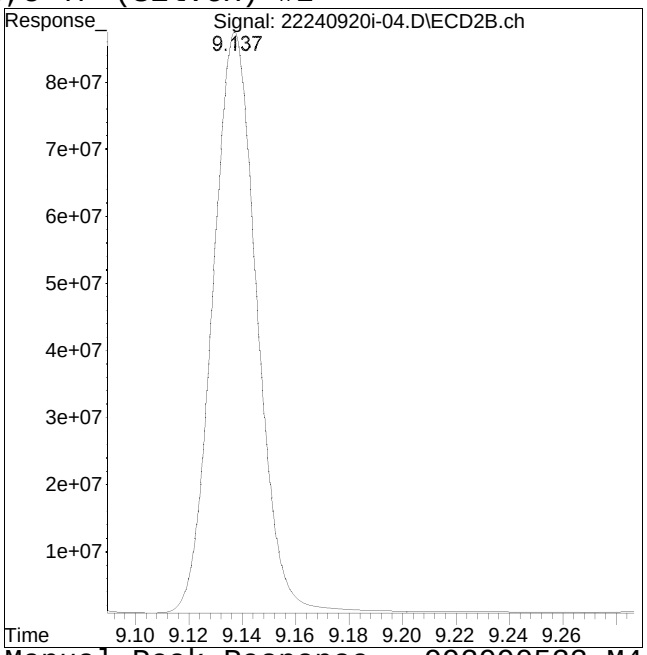
Original Peak Response = 804155007 Manual Peak Response = 795320463 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #22: 2,4,5-TP (Silvex) #2



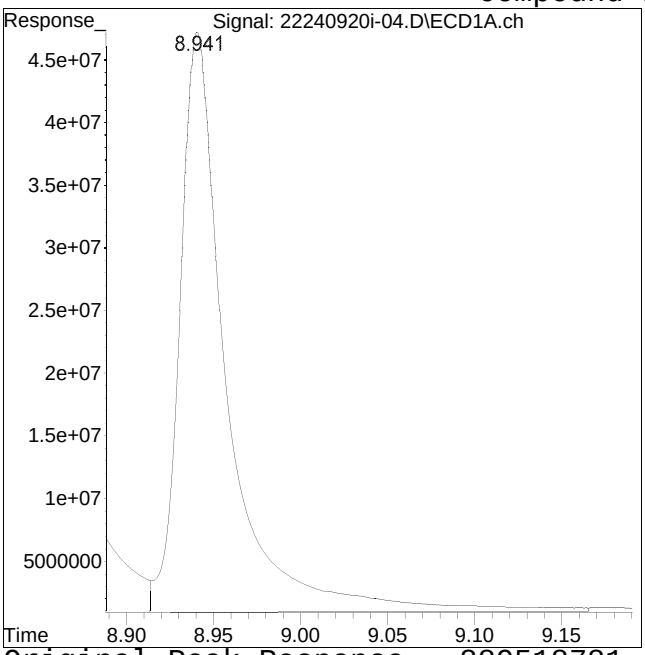


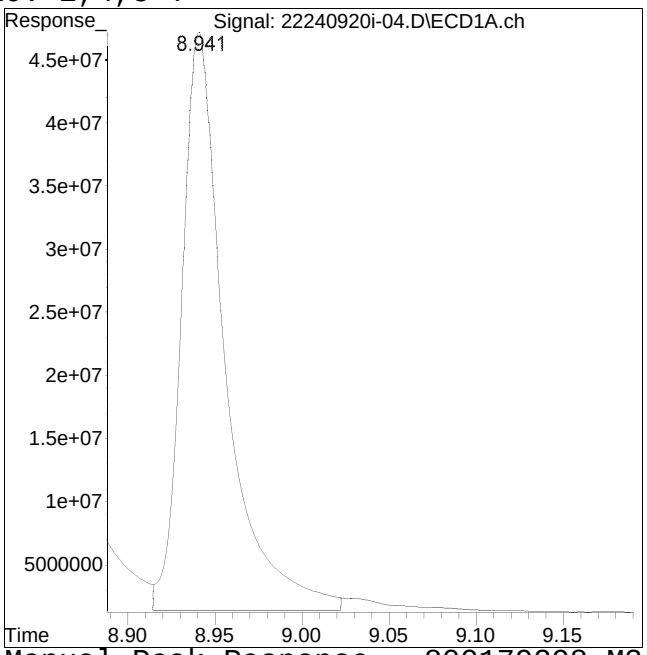
Original Peak Response = 998977115 Manual Peak Response = 992990533 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #10: 2,4,5-T



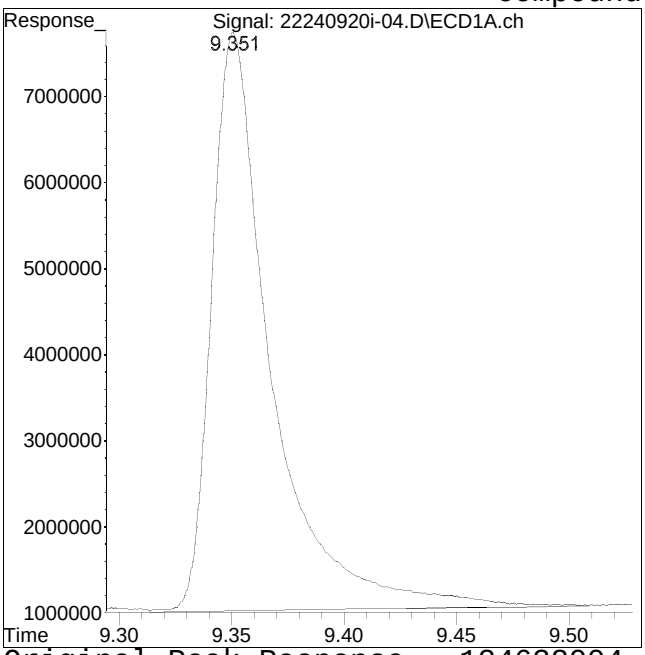


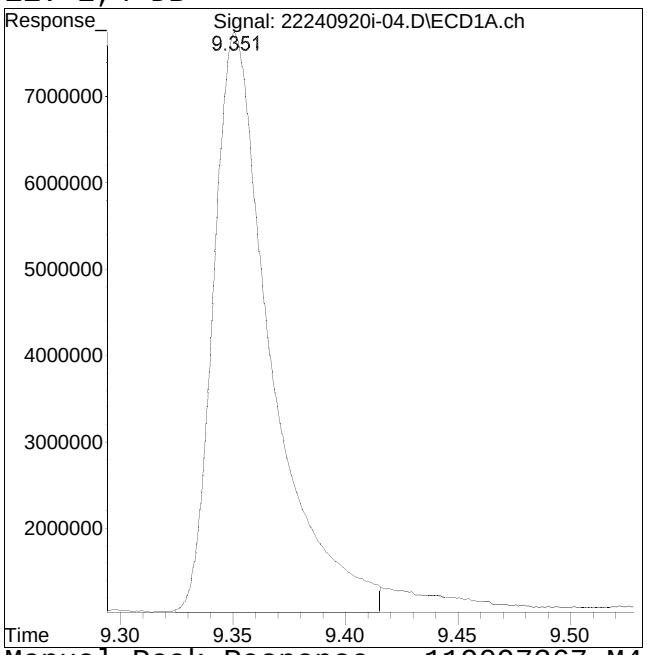
Original Peak Response = 889518781 Manual Peak Response = 800179298 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #11: 2,4-DB



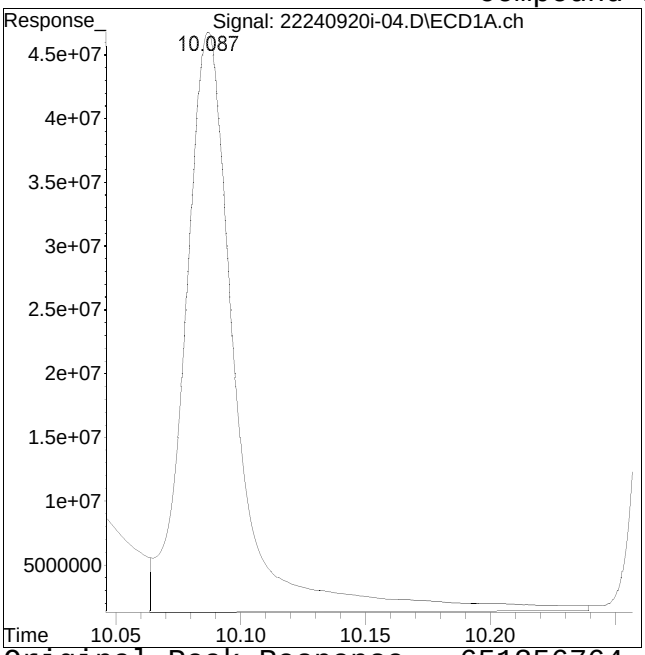


Original Peak Response = 124632904 Manual Peak Response = 119097367 M4
M4 = Poor automated baseline construction.

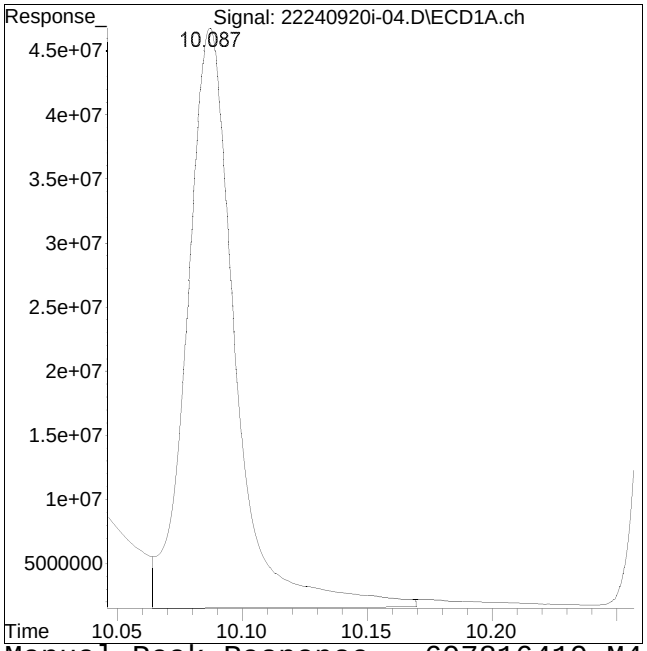
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #12: Dinoseb



Original Peak Response = 651356764



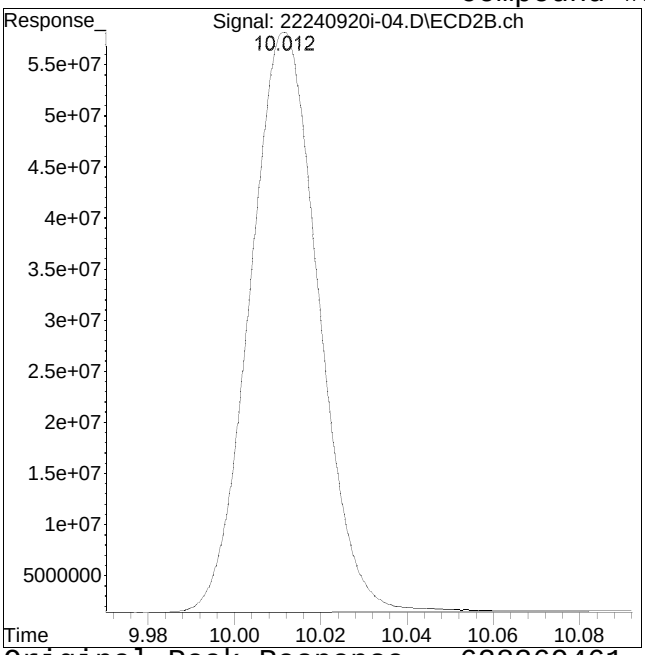
Manual Peak Response = 607816410 M4

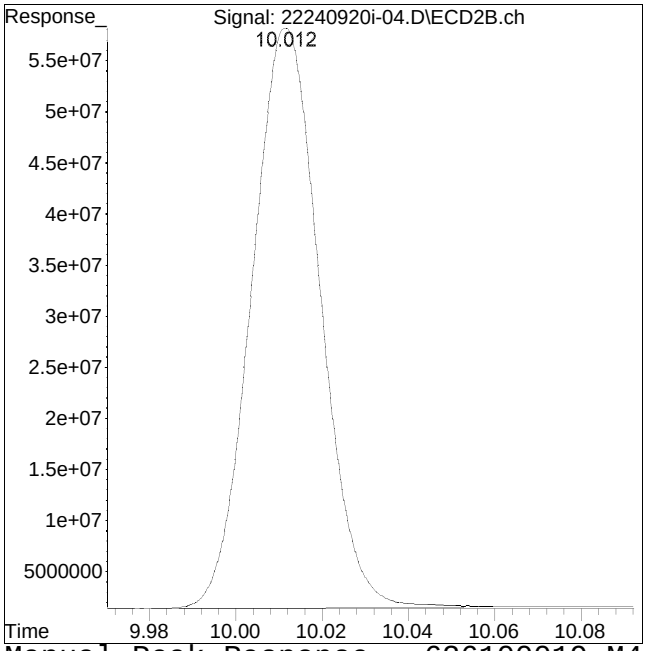
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #25: Dinoseb #2





Original Peak Response = 628369461 Manual Peak Response = 626100019 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.437	8.436	1196.7E6	1494.9E6	0.250M3	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.897	7.363	405.3E6	490.2E6	0.446M4	0.441M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	89.20%	88.20%
		Target Compounds						
2)	t	Dalapon	2.324	2.319	531.7E6	551.2E6	0.446M4	0.430M3
4)	t	Dicamba	7.076	7.543	1218.9E6	1398.0E6	0.445M4	0.443M4
5)	t	MCPP	7.276	7.655	114.8E6	150.8E6	47.079M4	47.069M4
6)	t	MCPA	7.423	7.882	189.8E6	247.2E6	43.902M4	44.035M4
7)	t	Dichloroprop	7.780	8.201	365.4E6	449.3E6	0.434M4	0.439M4
8)	t	2,4-D	7.997	8.477	453.2E6	573.5E6	0.446M4	0.440M4
9)	t	2,4,5-TP (Si	8.712	9.137	1679.8E6	2054.5E6	0.447M4	0.445M4
10)	t	2,4,5-T	8.936	9.427	1699.2E6	2025.0E6	0.448M3	0.448
11)	t	2,4-DB	9.345	9.789	253.8E6	336.5E6	0.454M3	0.453M4
12)	t	Dinoseb	10.086	10.011	1212.2E6	1293.7E6	0.461M4	0.445M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

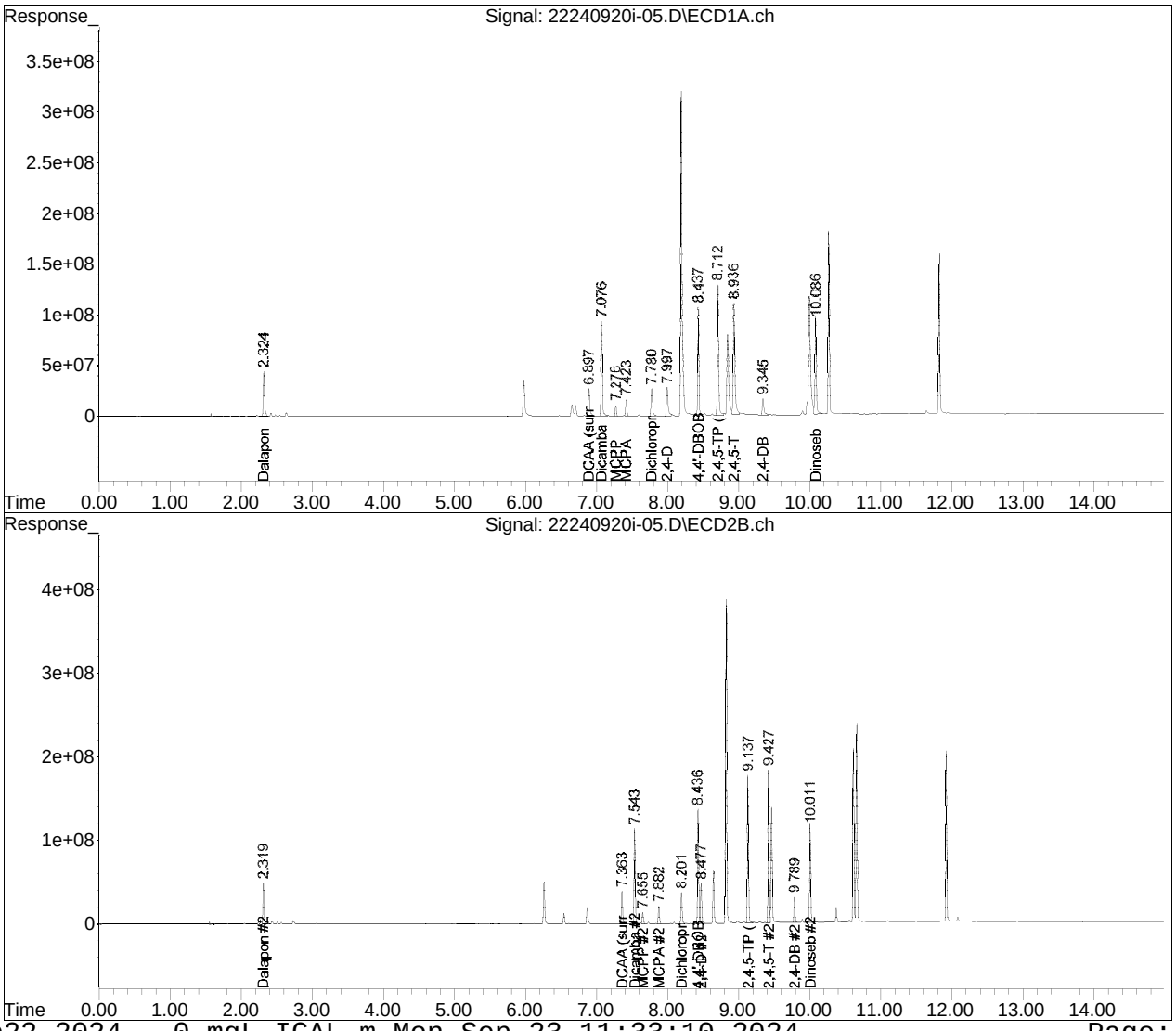
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

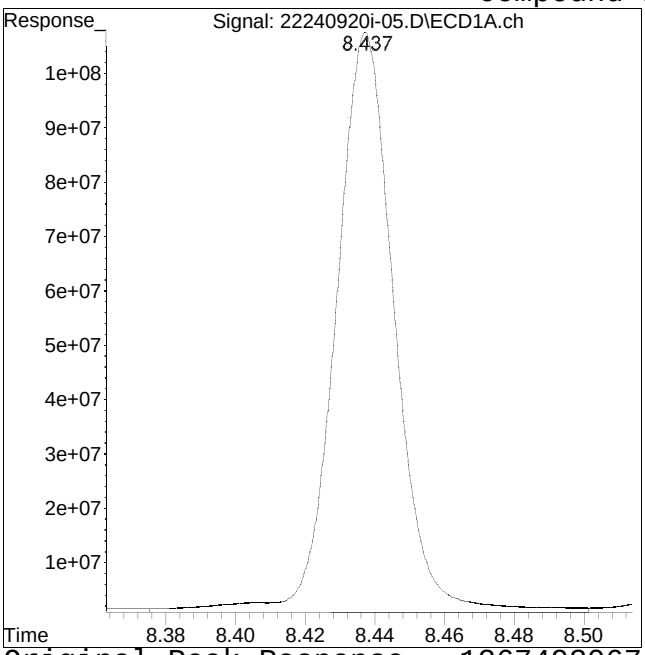
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

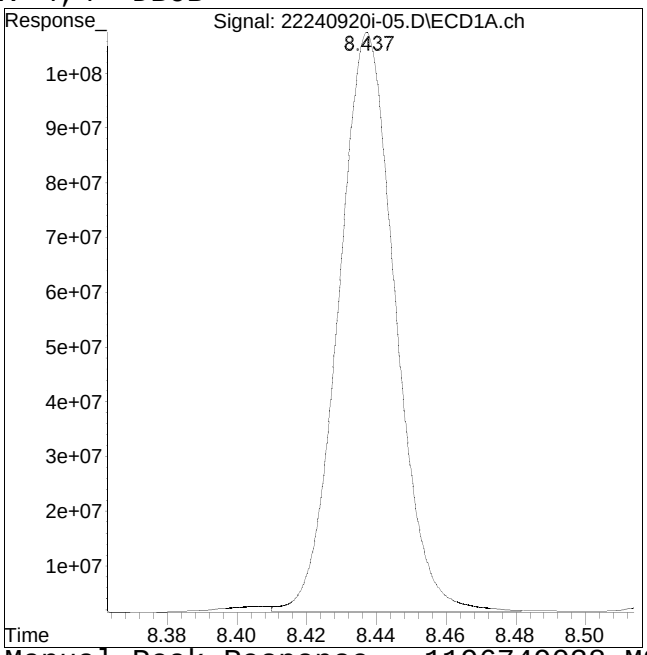


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #1: 4,4'-DBOB



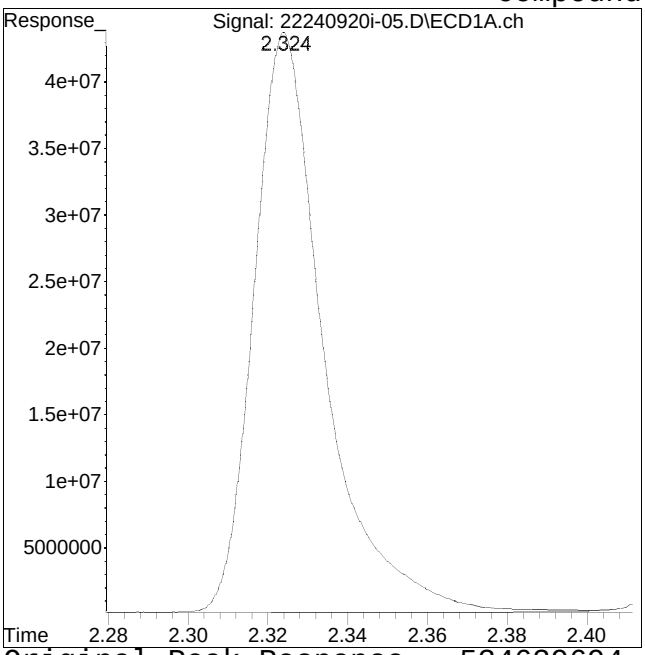


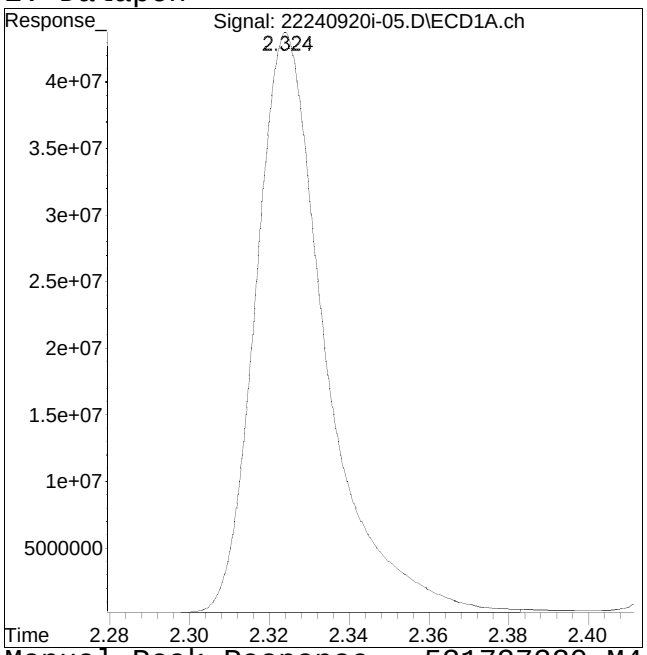
Original Peak Response = 1267493067 Manual Peak Response = 1196749038 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #2: Dalapon



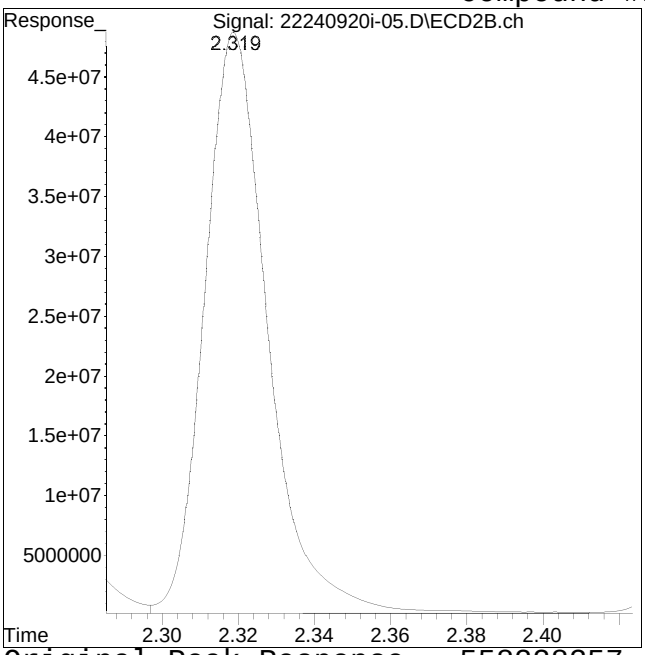


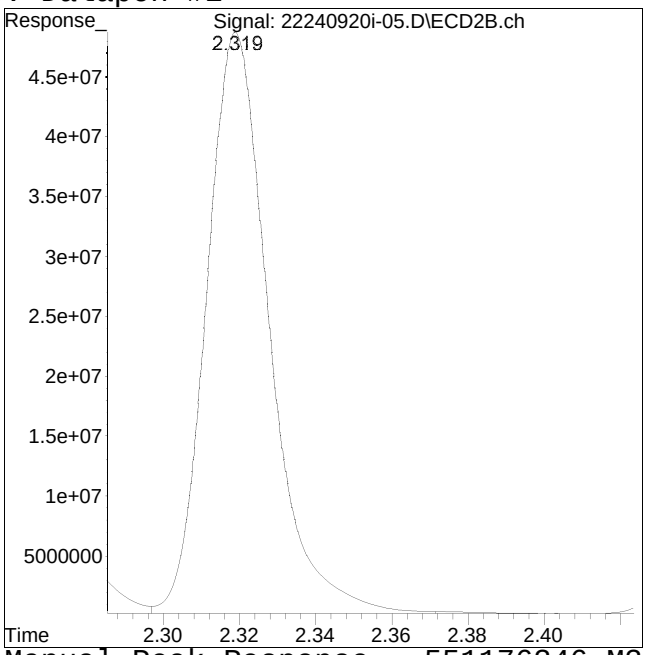
Original Peak Response = 534639694 Manual Peak Response = 531727320 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #15: Dalapon #2



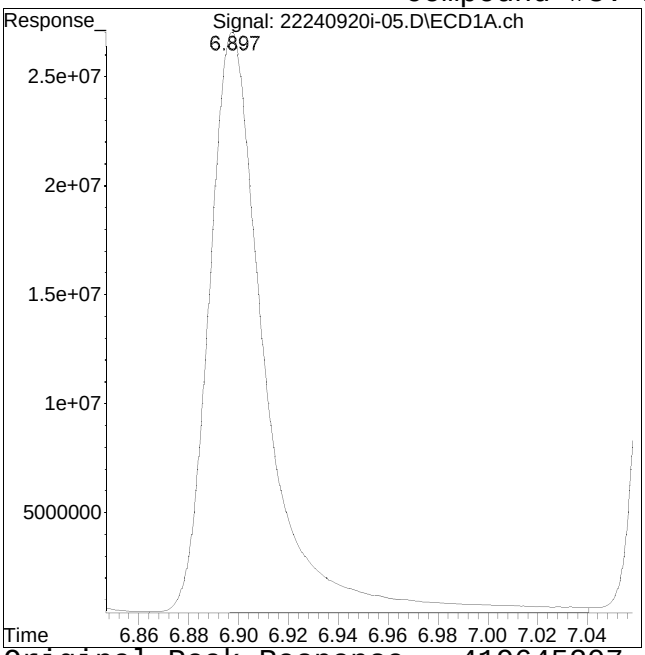


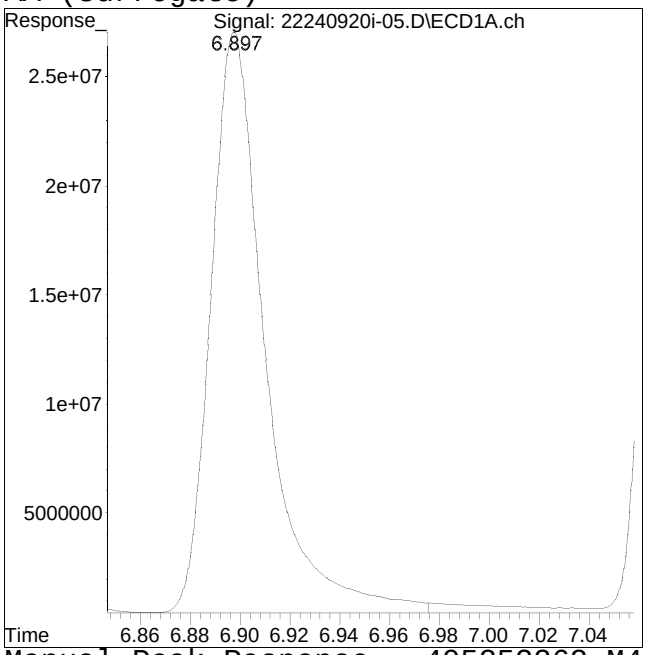
Original Peak Response = 558228357 Manual Peak Response = 551176346 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #3: DCAA (surrogate)



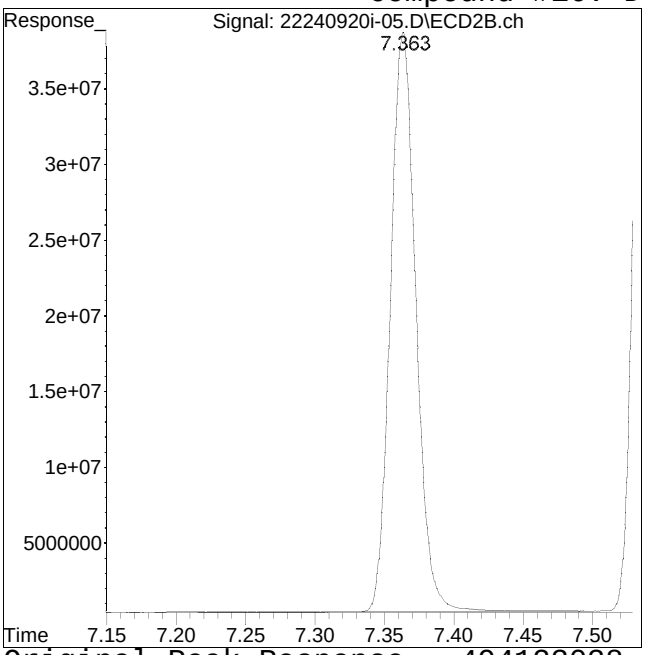


Original Peak Response = 419645207 Manual Peak Response = 405252262 M4
M4 = Poor automated baseline construction.

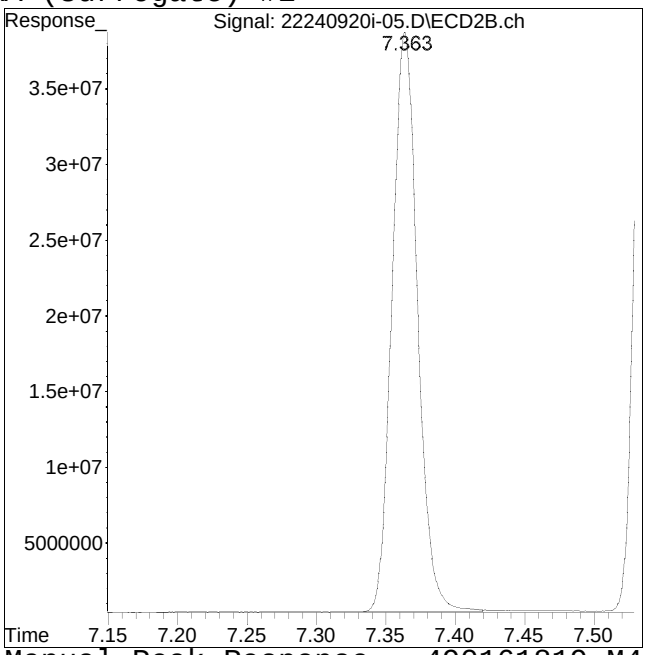
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 494123038



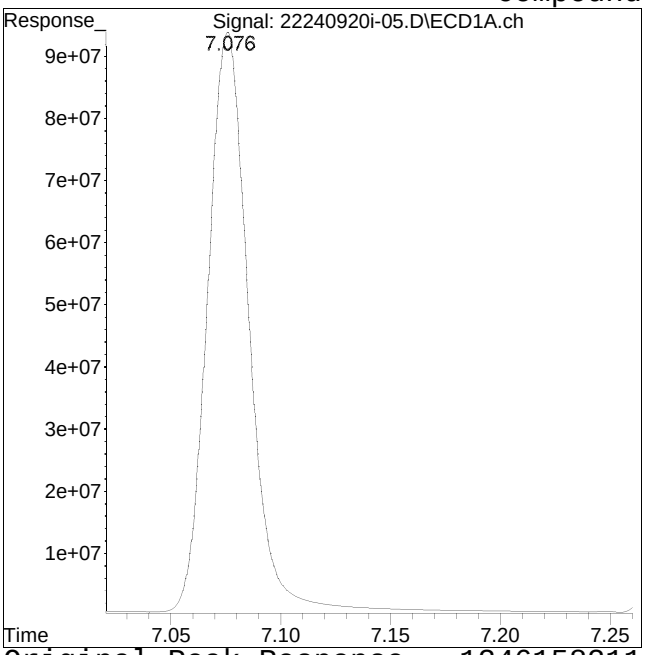
Manual Peak Response = 490161819 M4

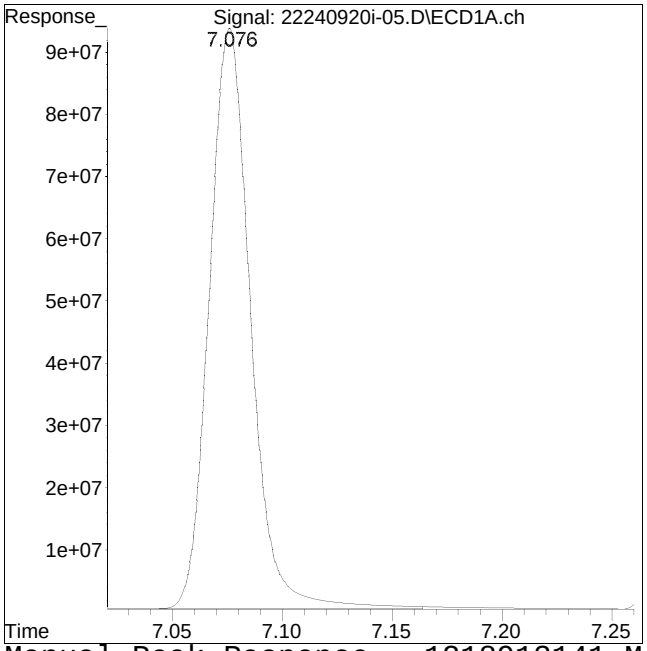
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #4: Dicamba



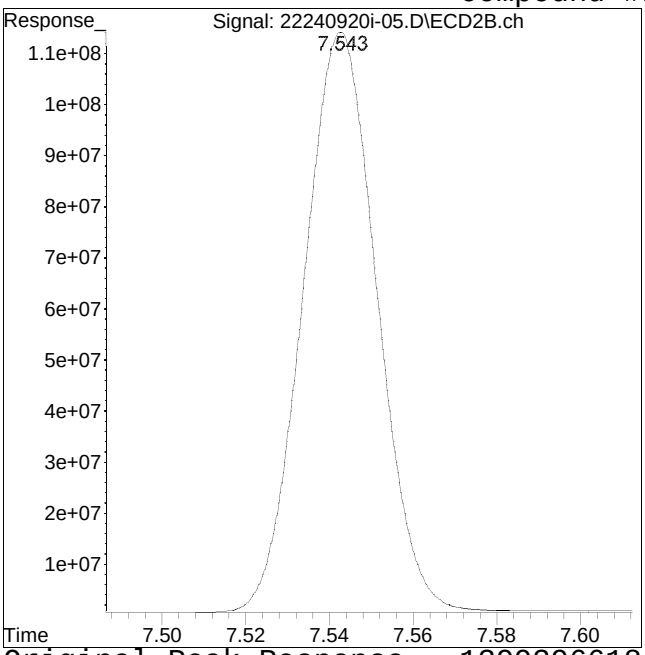


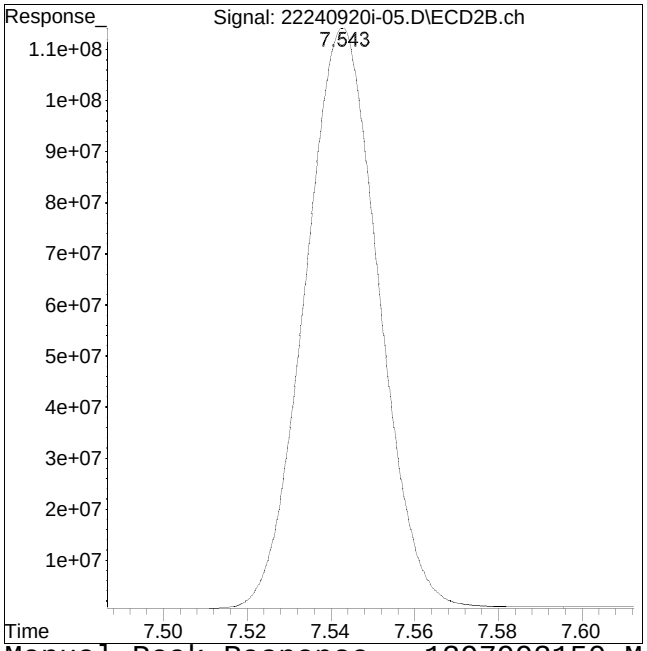
Original Peak Response = 1246158211 Manual Peak Response = 1218913141 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #17: Dicamba #2



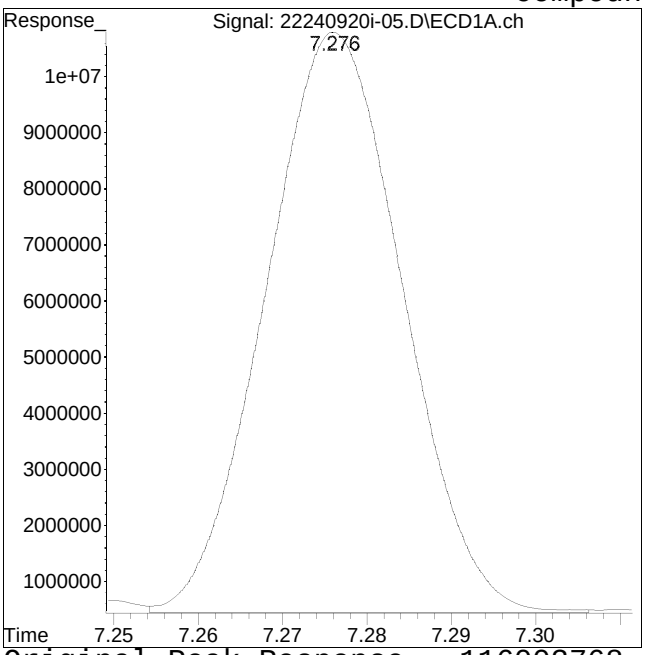


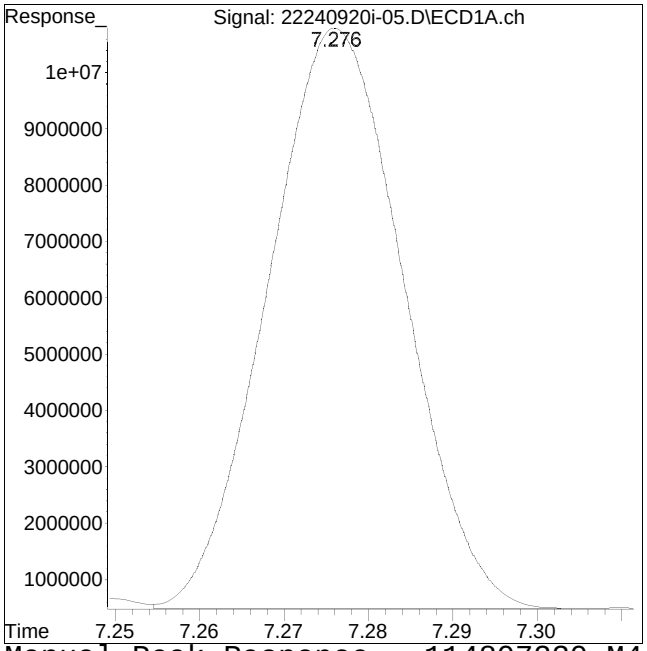
Original Peak Response = 1399396618 Manual Peak Response = 1397993150 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #5: MCPP



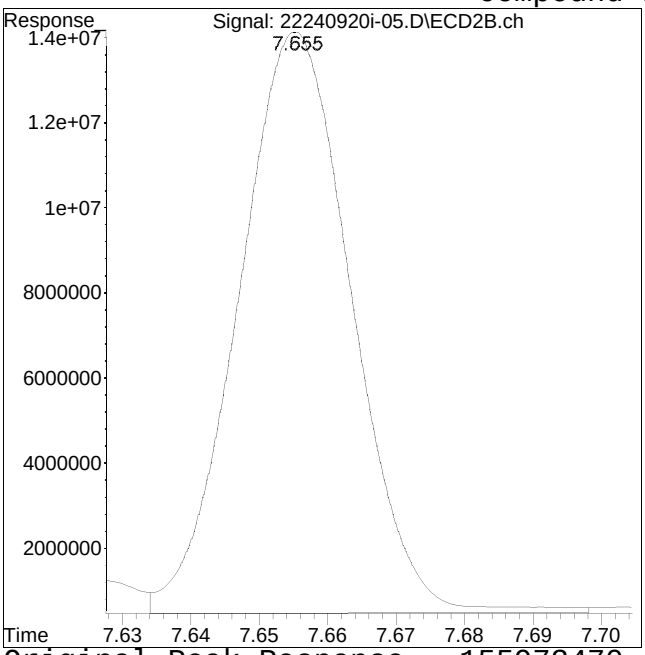


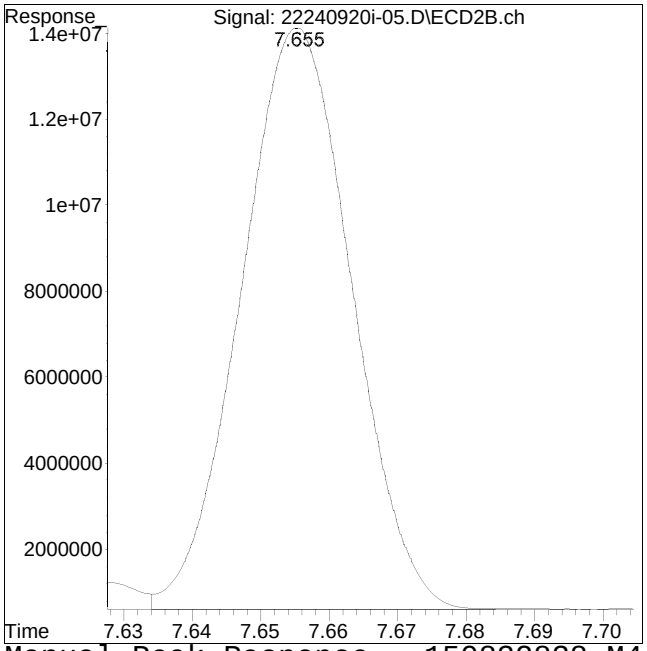
Original Peak Response = 116003768 Manual Peak Response = 114807230 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #18: MCPP #2



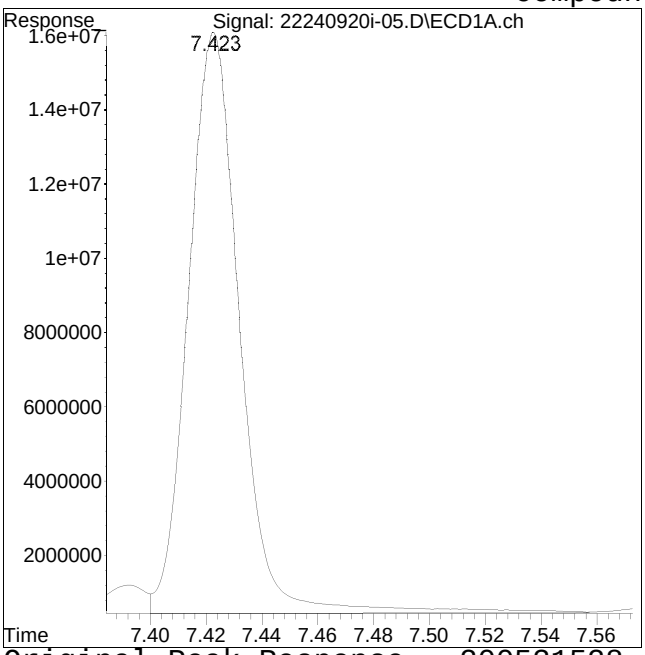


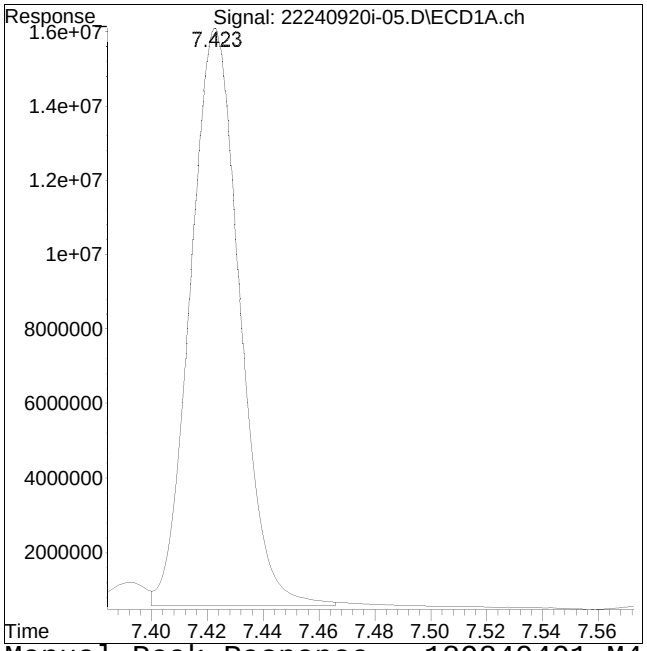
Original Peak Response = 155973470 Manual Peak Response = 150832838 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #6: MCPA



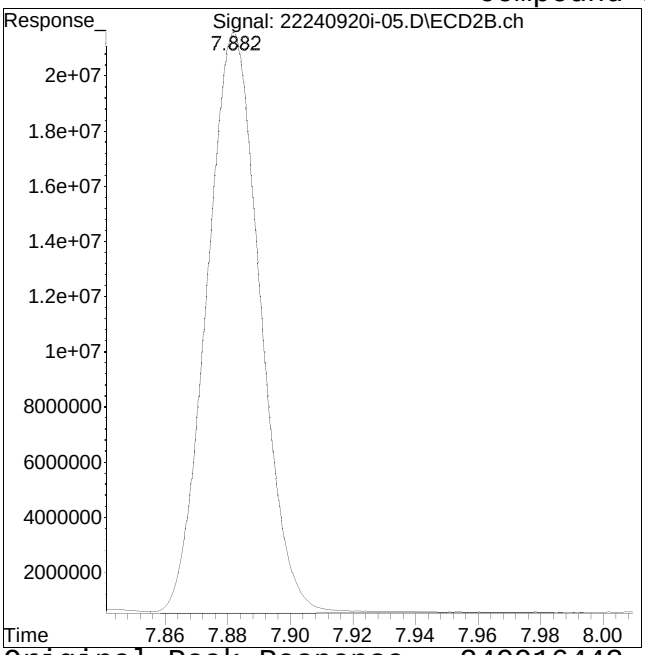


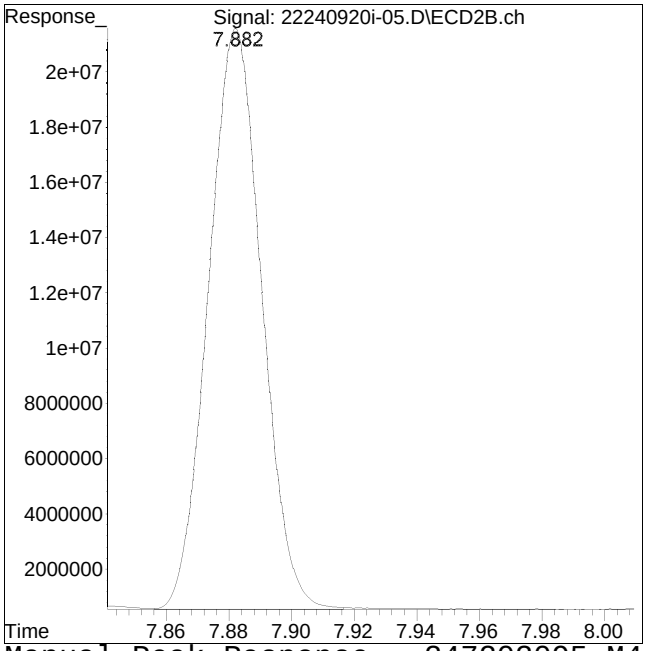
Original Peak Response = 200531528 Manual Peak Response = 189840401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #19: MCPA #2



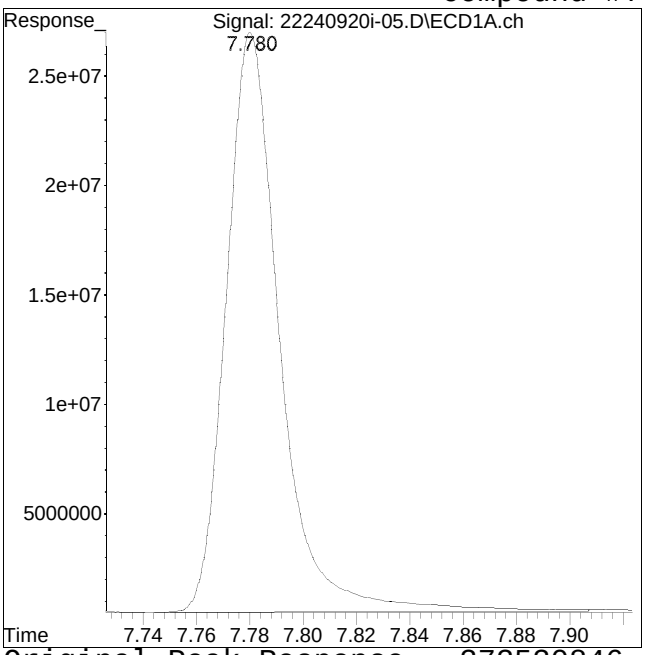


Original Peak Response = 249916443 Manual Peak Response = 247203095 M4
M4 = Poor automated baseline construction.

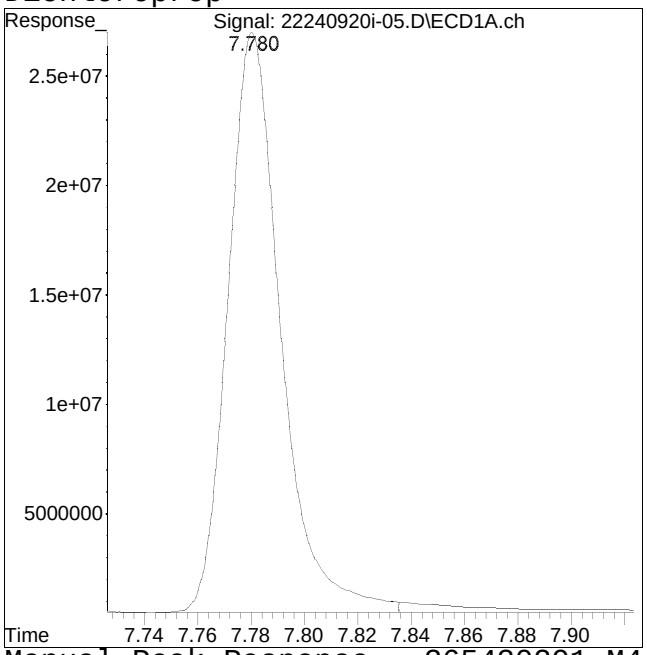
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #7: Dichloroprop



Original Peak Response = 373530846



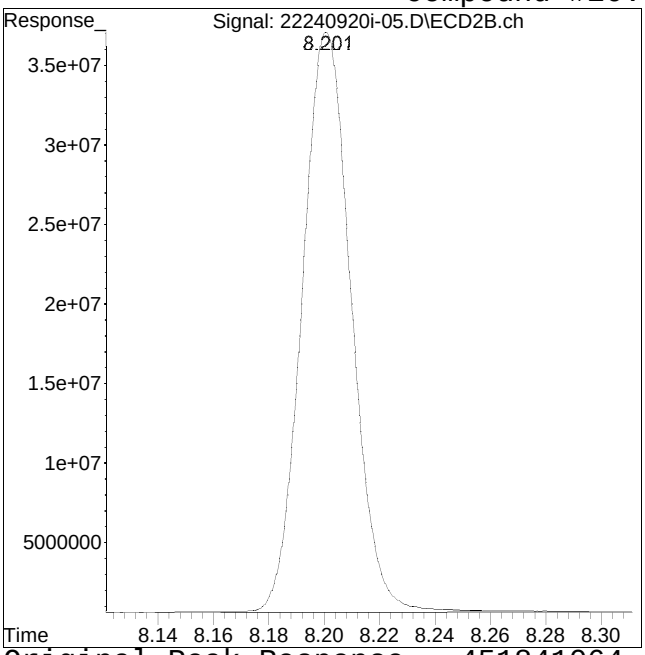
Manual Peak Response = 365430291 M4

M4 = Poor automated baseline construction.

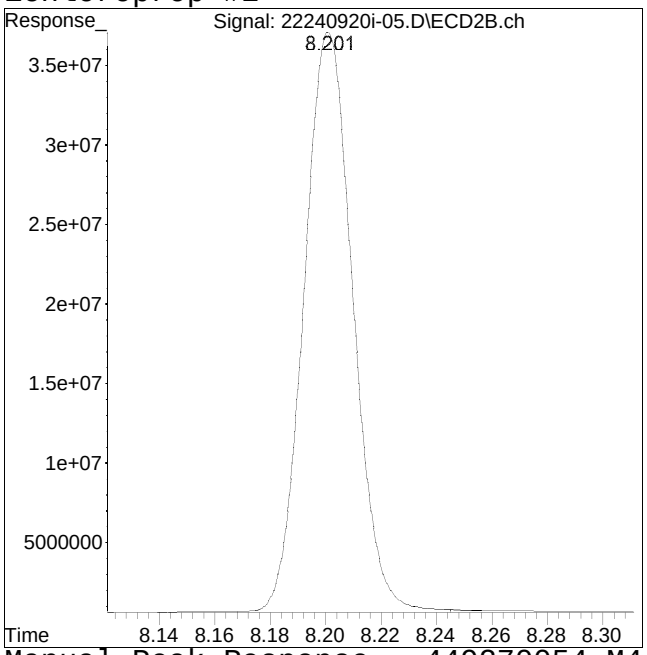
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #20: Dichloroprop #2



Original Peak Response = 451841064



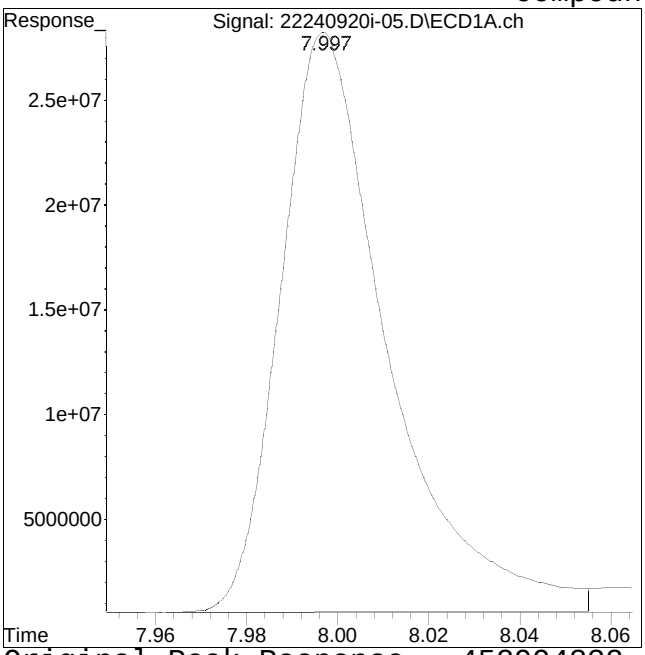
Manual Peak Response = 449270054 M4

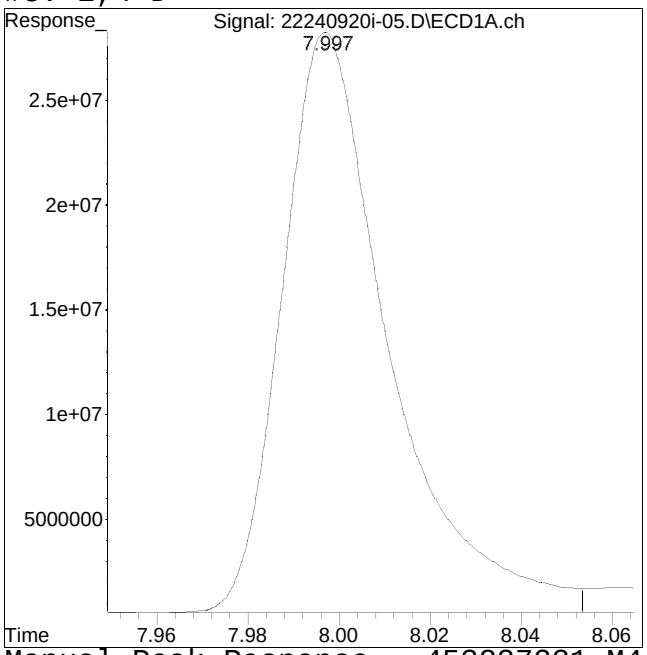
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #8: 2,4-D



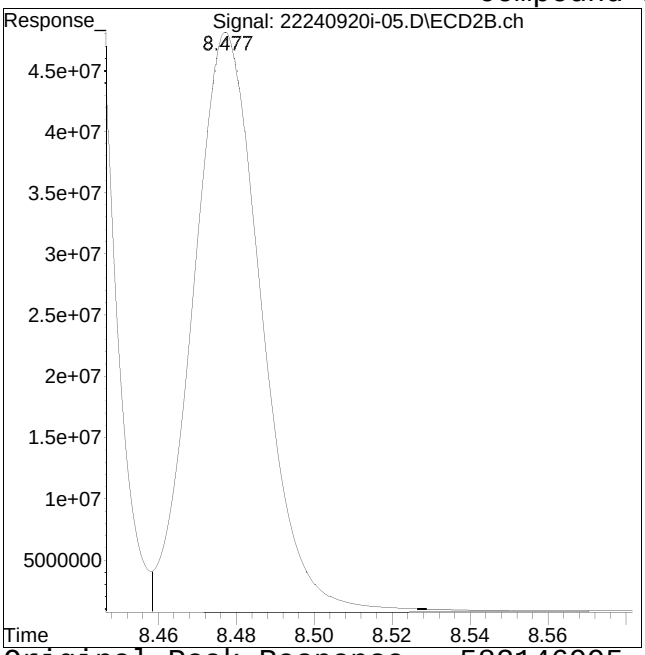


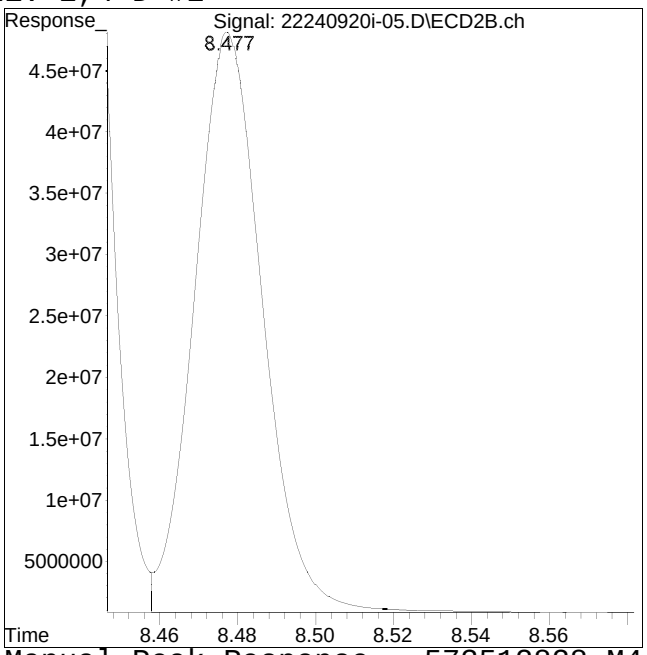
Original Peak Response = 452994332 Manual Peak Response = 453227221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #21: 2,4-D #2



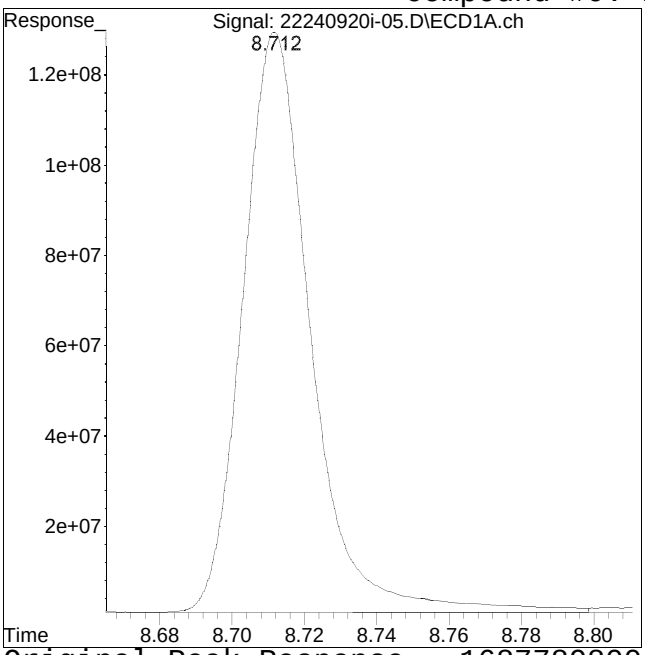


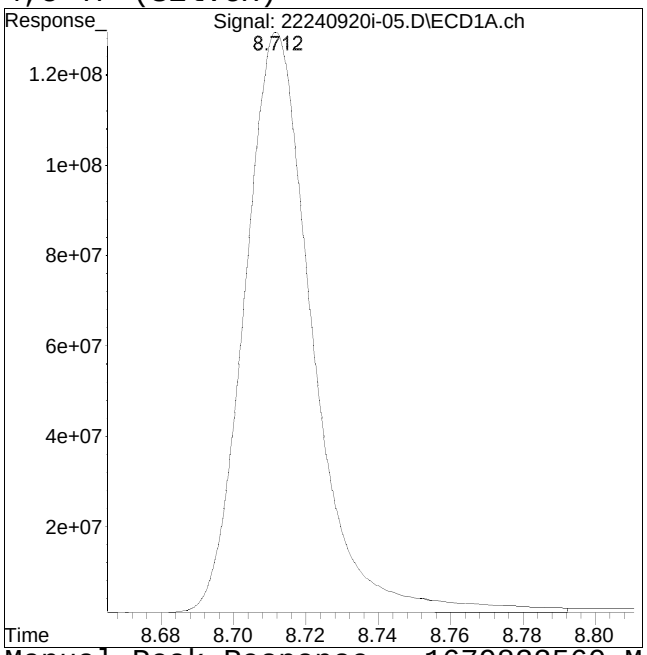
Original Peak Response = 582146995 Manual Peak Response = 573512828 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #9: 2,4,5-TP (Silvex)



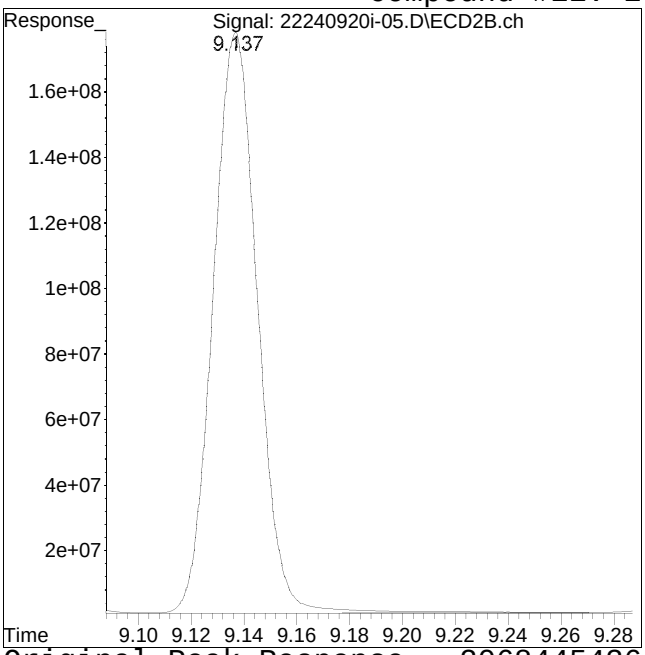


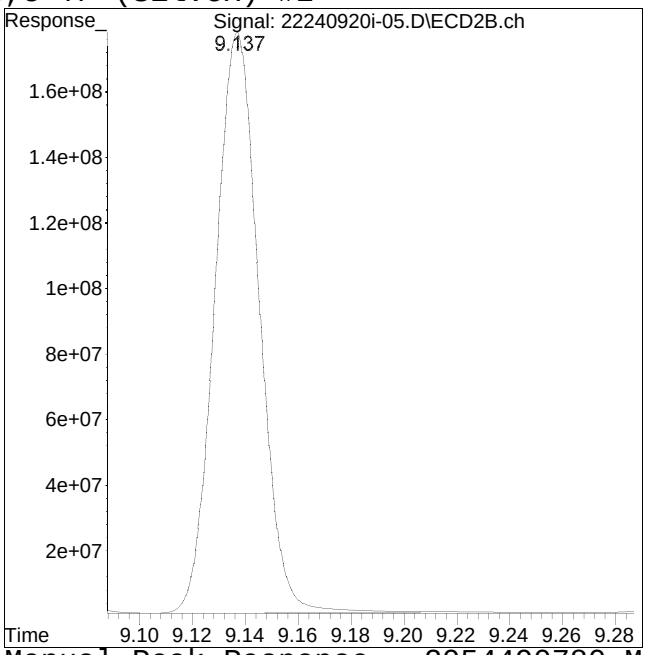
Original Peak Response = 1687789800 Manual Peak Response = 1679833560 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #22: 2,4,5-TP (Silvex) #2



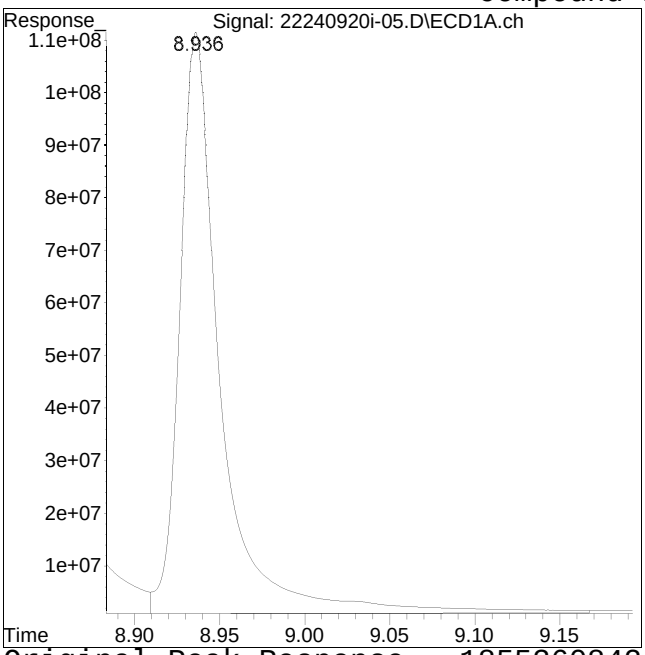


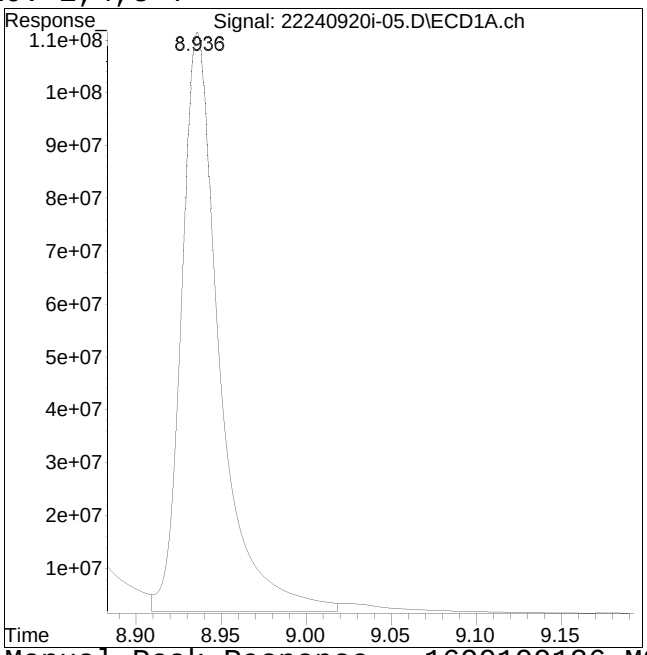
Original Peak Response = 2068445436 Manual Peak Response = 2054490780 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #10: 2,4,5-T



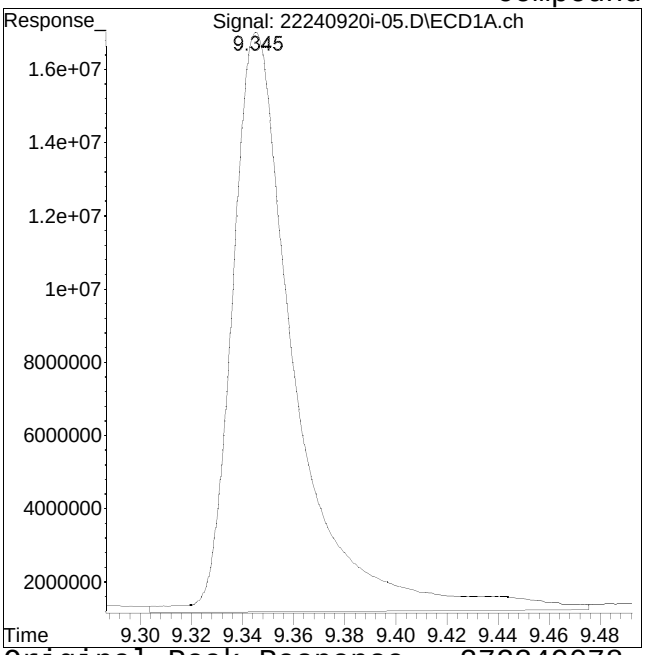


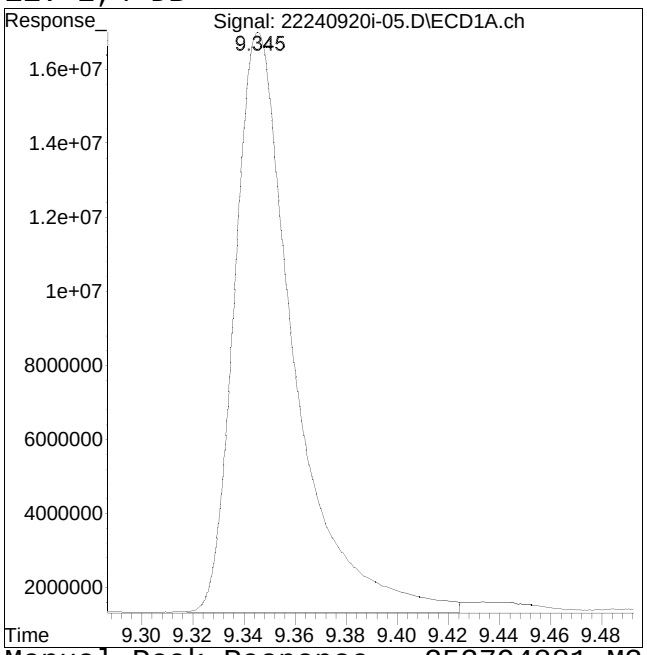
Original Peak Response = 1855360842 Manual Peak Response = 1699199126 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #11: 2,4-DB



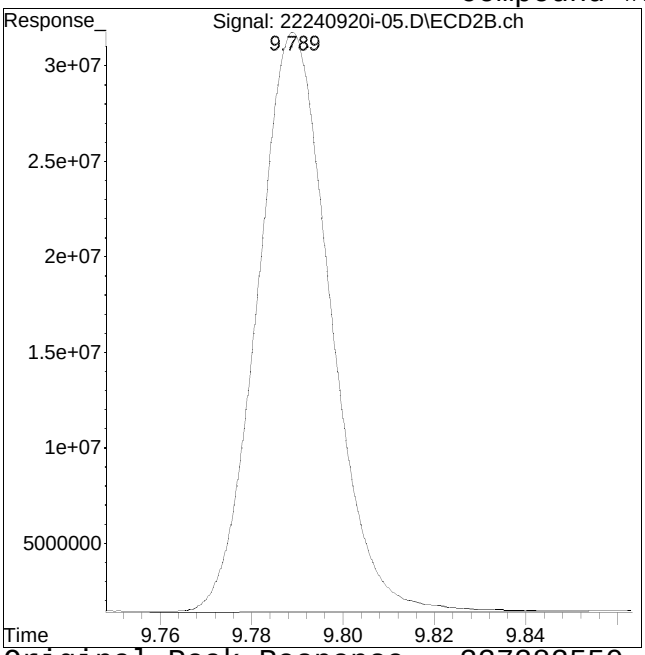


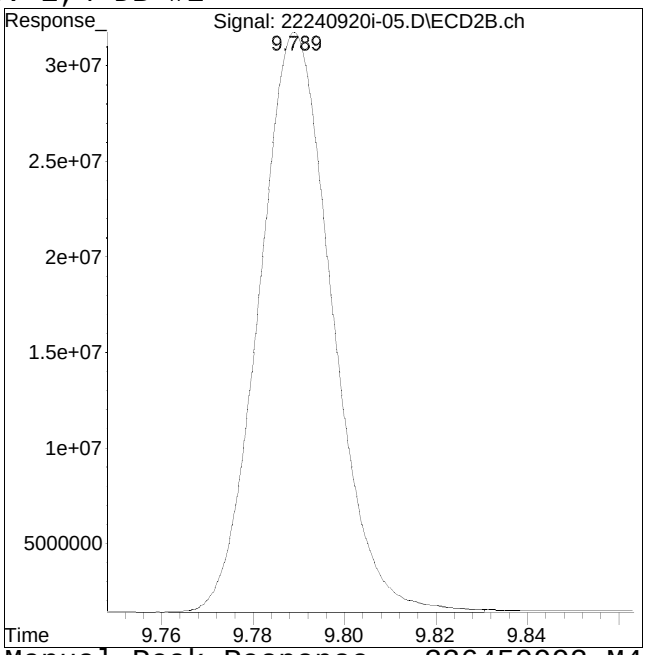
Original Peak Response = 272349078 Manual Peak Response = 253794881 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #24: 2,4-DB #2



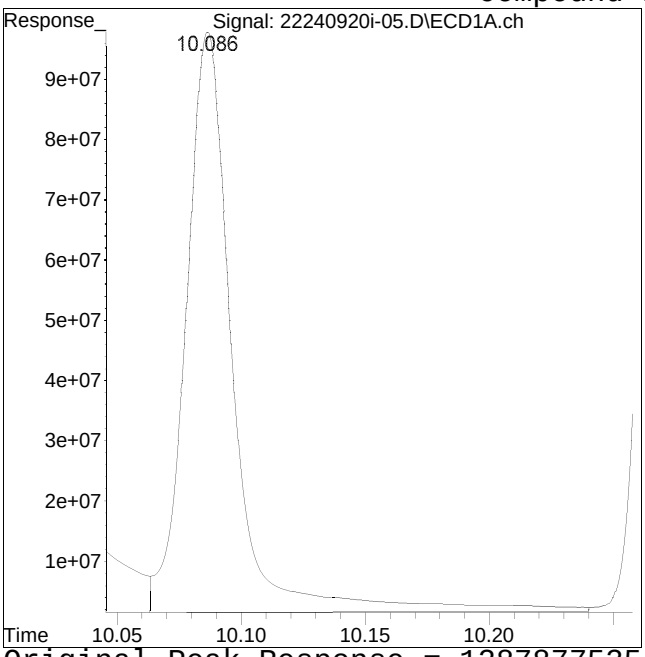


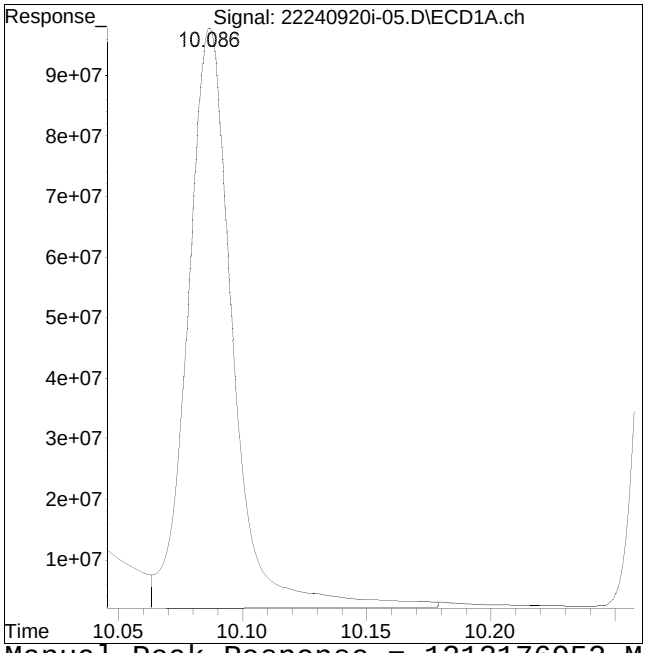
Original Peak Response = 337382550 Manual Peak Response = 336459992 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #12: Dinoseb



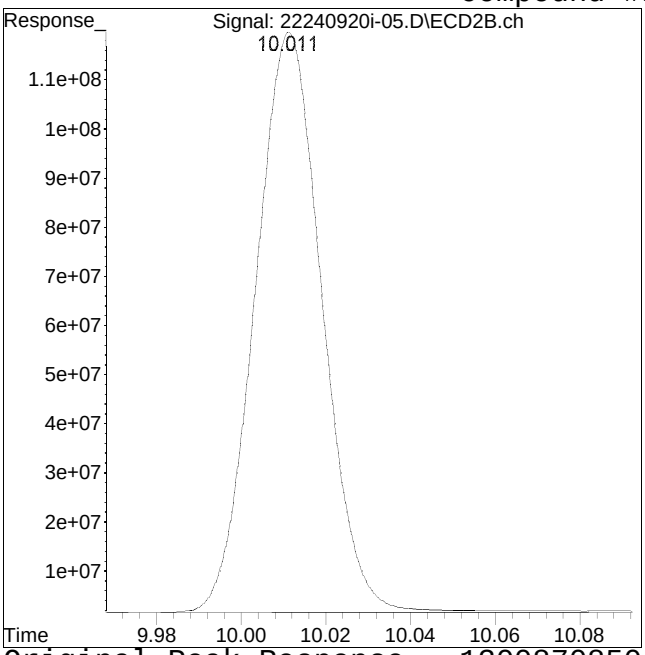


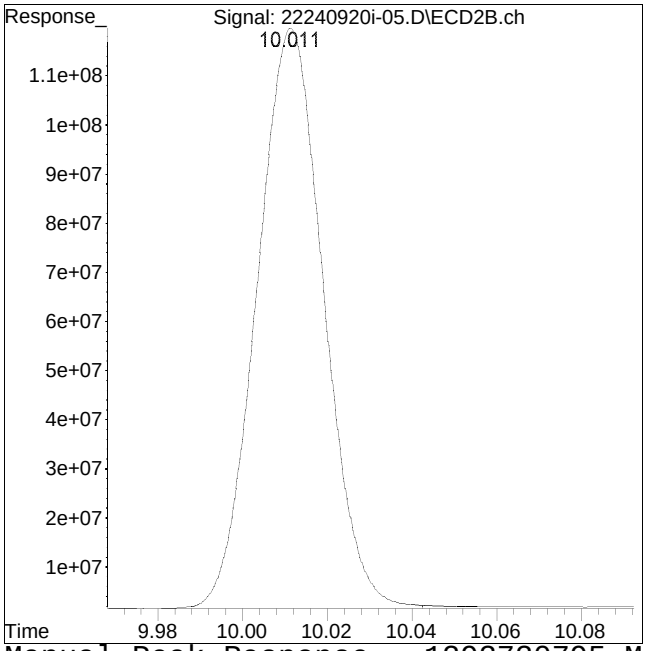
Original Peak Response = 1287877535 Manual Peak Response = 1212176952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #25: Dinoseb #2





Original Peak Response = 1300870850 Manual Peak Response = 1293730795 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1532.6E6	1855.1E6	0.250M3	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.894	7.362	915.2E6	1083.4E6	0.831M4	0.831M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	166.20%#	166.20%#
		Target Compounds						
2)	t	Dalapon	2.325	2.319	1152.2E6	1208.8E6	0.801	0.804M4
4)	t	Dicamba	7.074	7.542	2807.6E6	3186.2E6	0.842M4	0.852M4
5)	t	MCPP	7.276	7.656	293.7E6	386.6E6	94.030M4	96.121M4
6)	t	MCPA	7.423	7.883	443.2E6	579.1E6	83.934M3	86.173M4
7)	t	Dichloroprop	7.777	8.200	831.5E6	993.6E6	0.820M4	0.829M4
8)	t	2,4-D	7.991	8.476	1048.0E6	1315.7E6	0.845	0.852M4
9)	t	2,4,5-TP (Si	8.708	9.136	3958.1E6	4741.4E6	0.861M4	0.865M4
10)	t	2,4,5-T	8.930	9.426	4045.2E6	4839.8E6	0.869M4	0.890M4
11)	t	2,4-DB	9.339	9.788	606.3E6	806.0E6	0.881M4	0.901M4
12)	t	Dinoseb	10.085	10.011	2799.3E6	3024.5E6	0.877M4	0.872M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

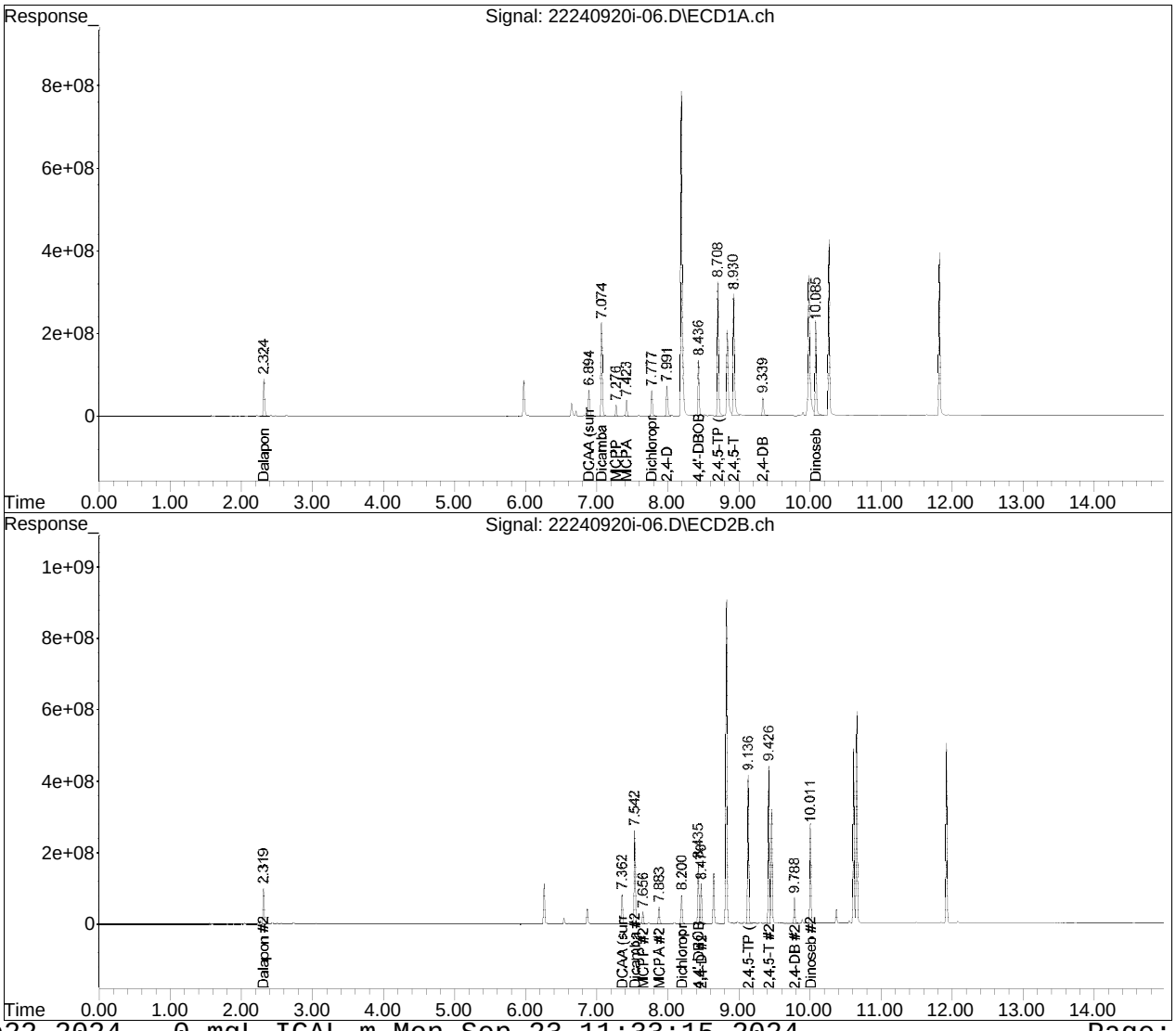
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

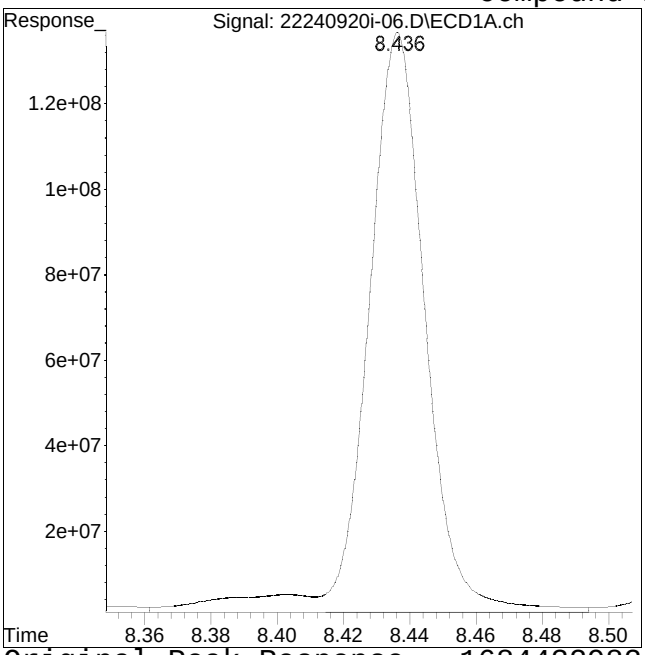
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

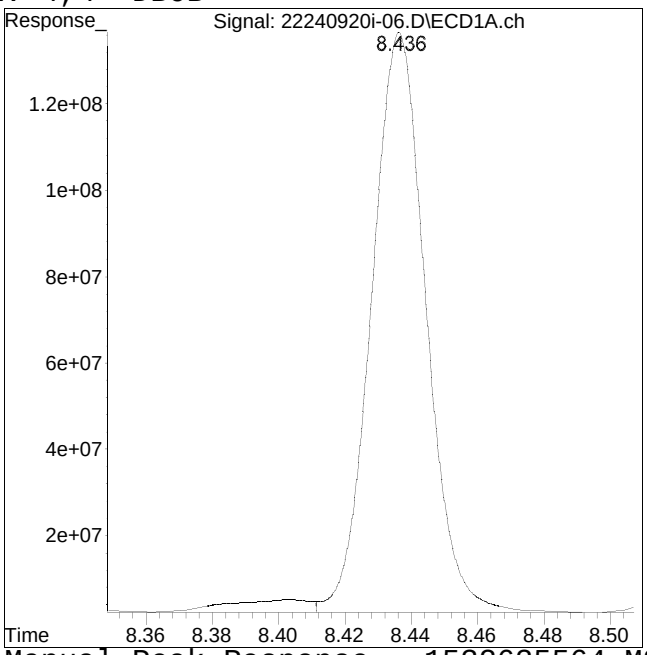


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #1: 4,4'-DBOB



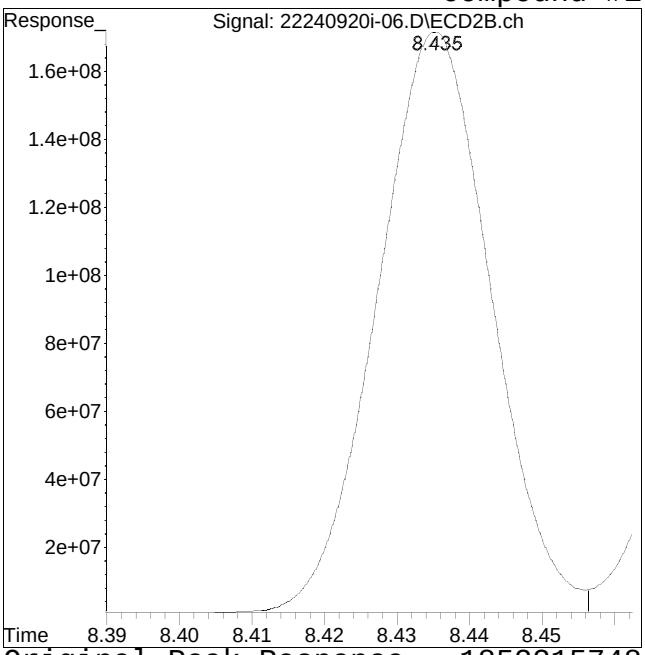


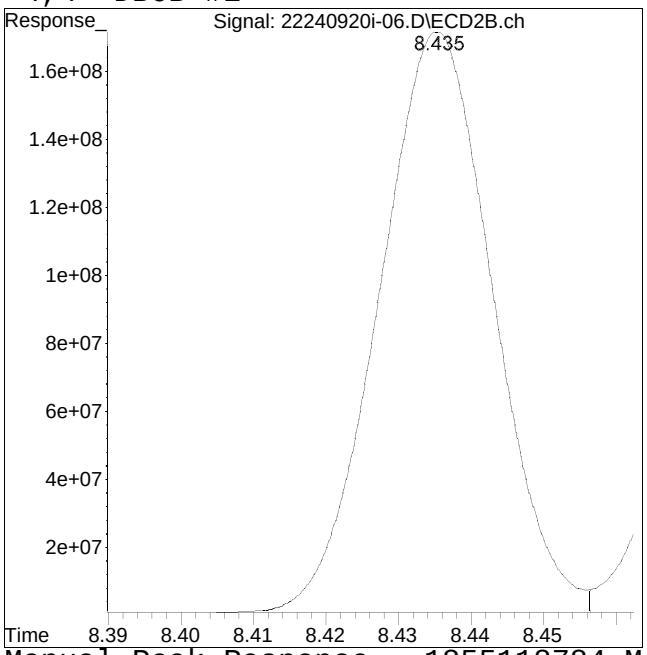
Original Peak Response = 1684432982 Manual Peak Response = 1532635564 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #14: 4,4'-DBOB #2



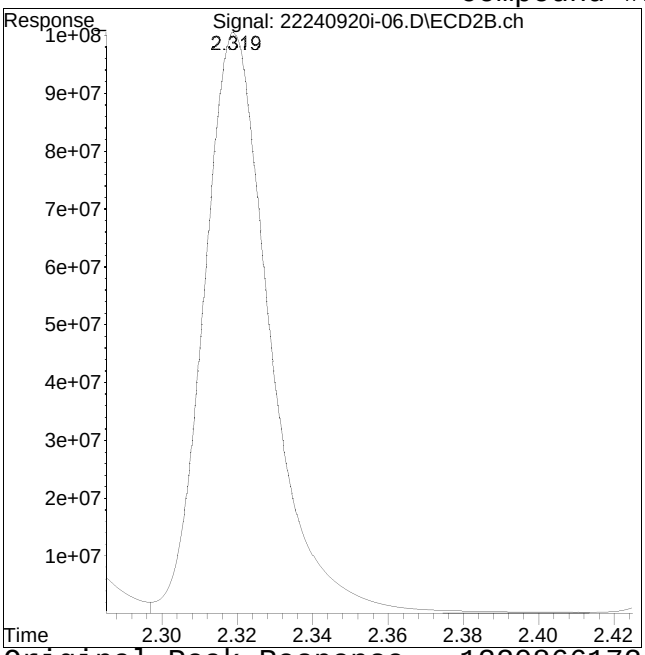


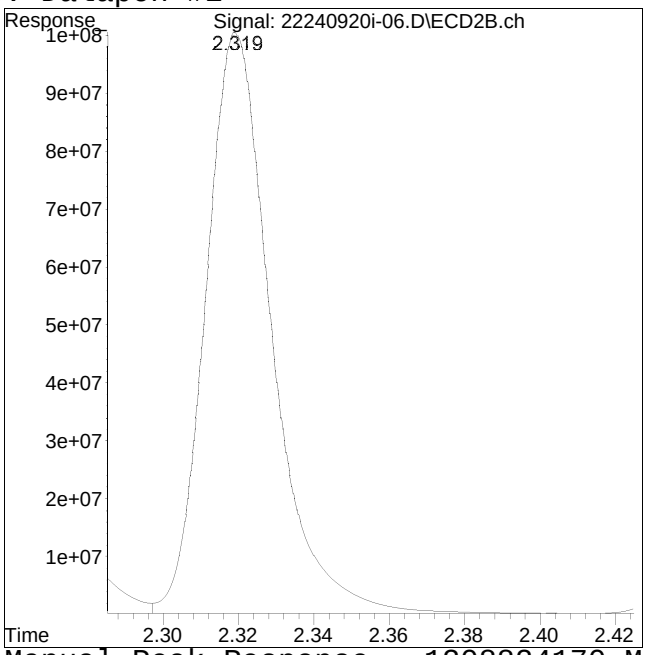
Original Peak Response = 1852215748 Manual Peak Response = 1855118784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #15: Dalapon #2



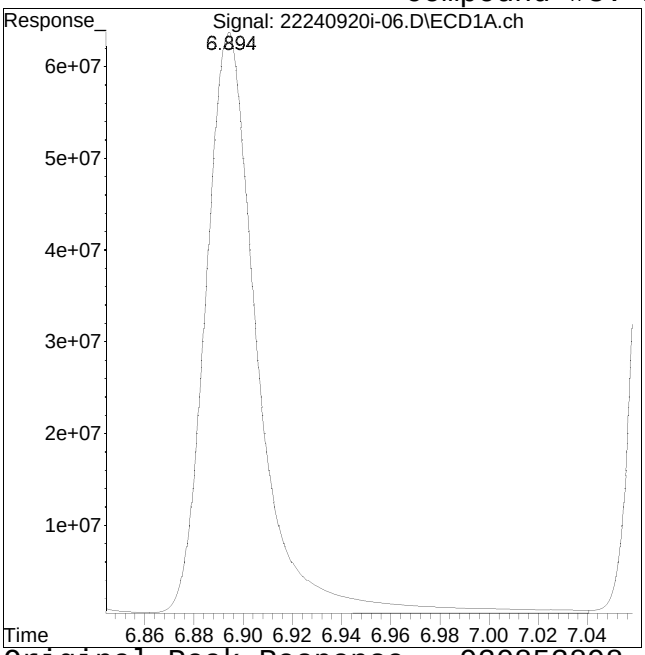


Original Peak Response = 1220866172 Manual Peak Response = 1208824170 M4
M4 = Poor automated baseline construction.

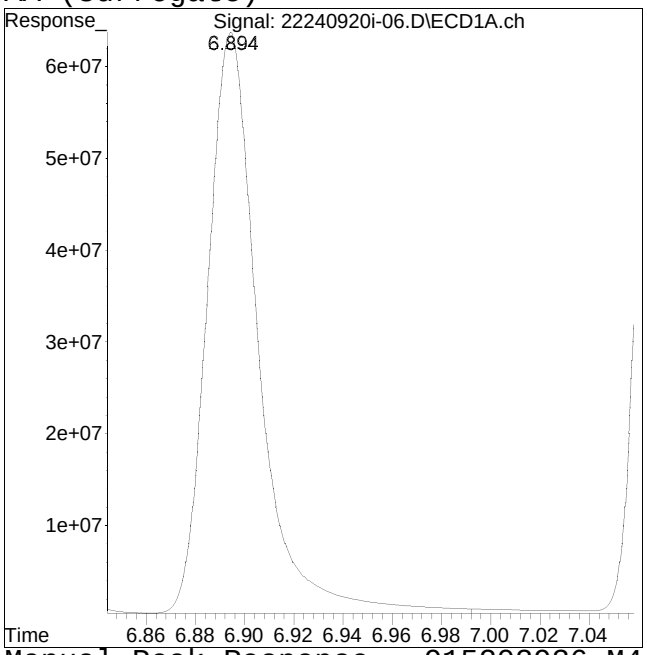
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #3: DCAA (surrogate)



Original Peak Response = 930853898



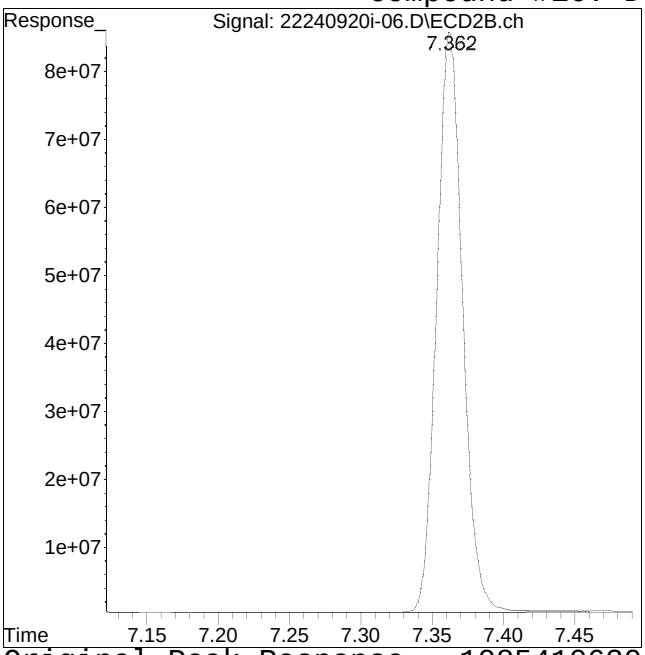
Manual Peak Response = 915202936 M4

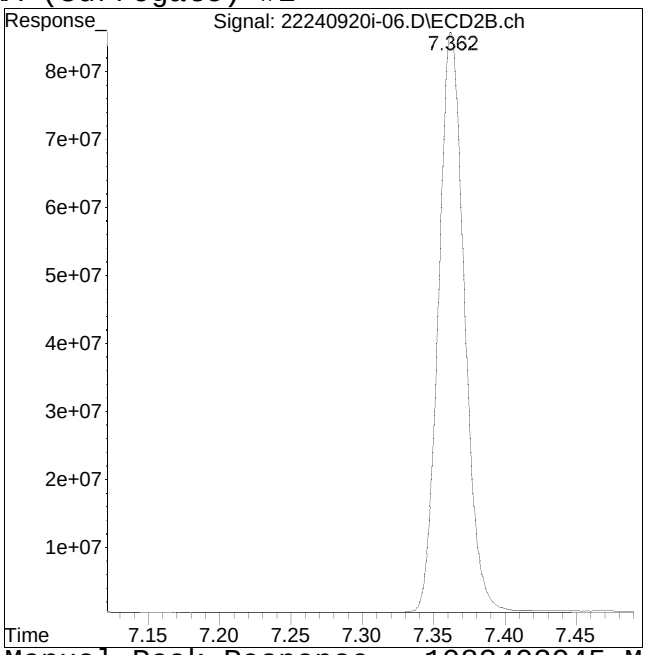
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #16: DCAA (surrogate) #2



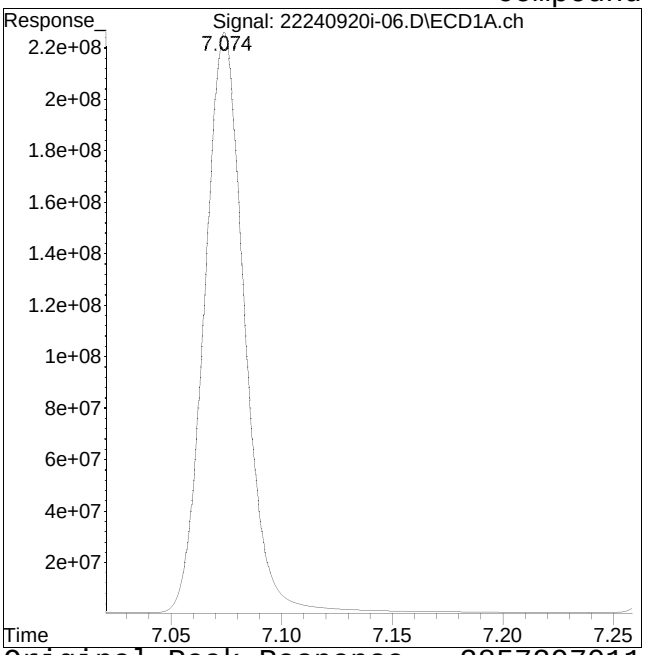


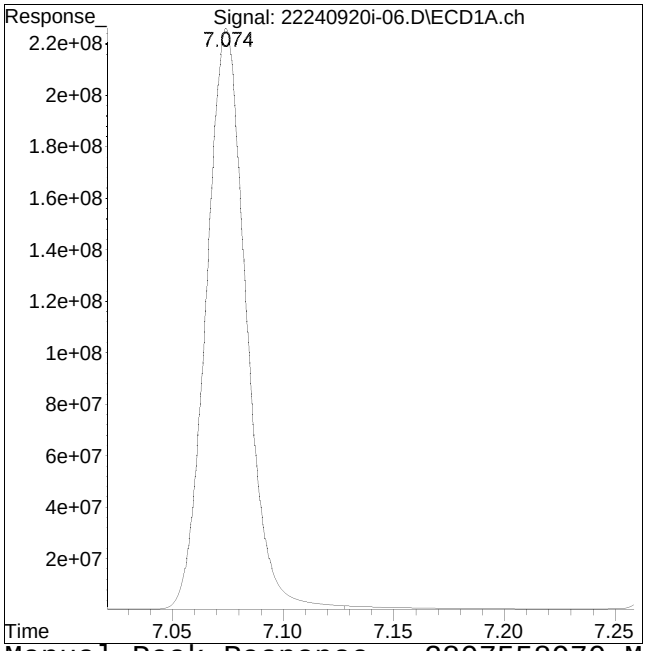
Original Peak Response = 1085410630 Manual Peak Response = 1083403945 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #4: Dicamba



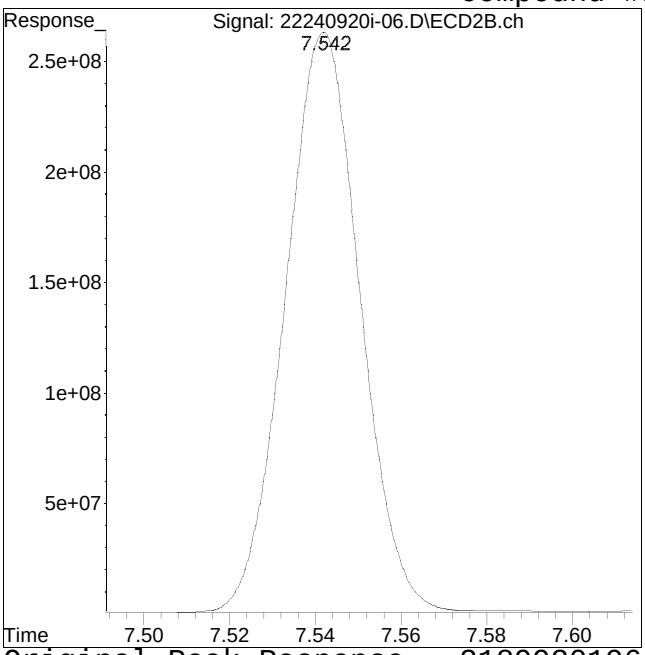


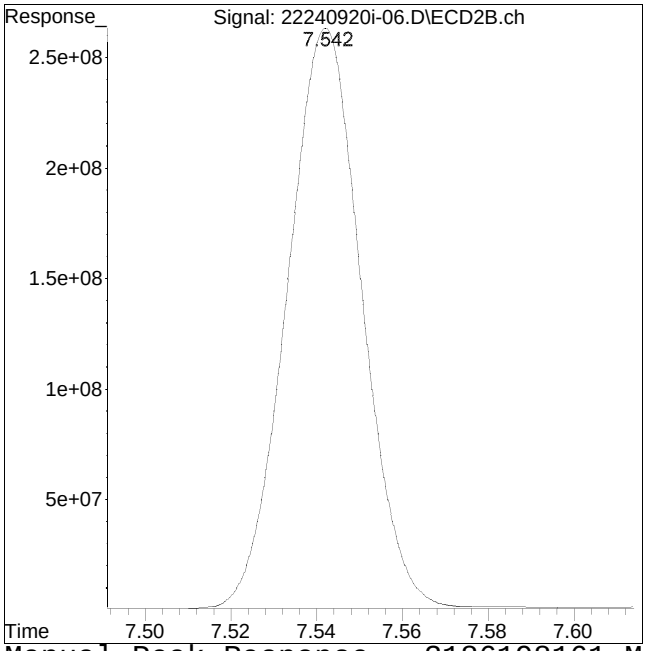
Original Peak Response = 2857297011 Manual Peak Response = 2807558970 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #17: Dicamba #2



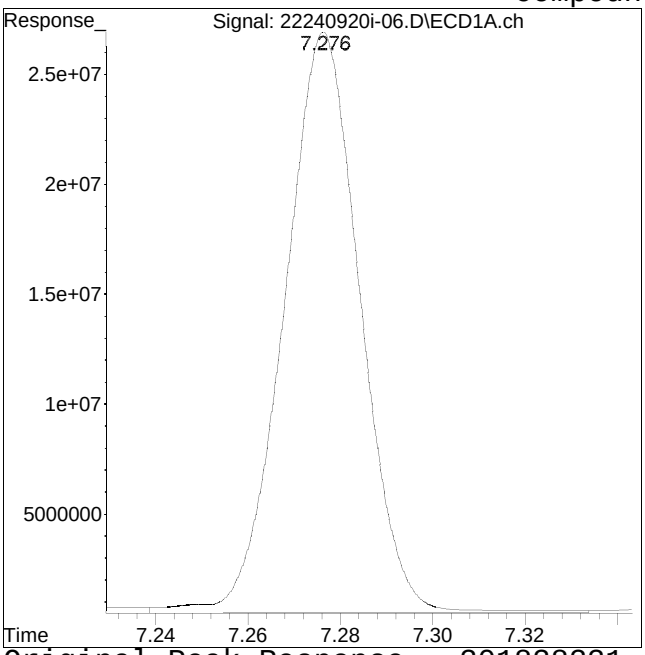


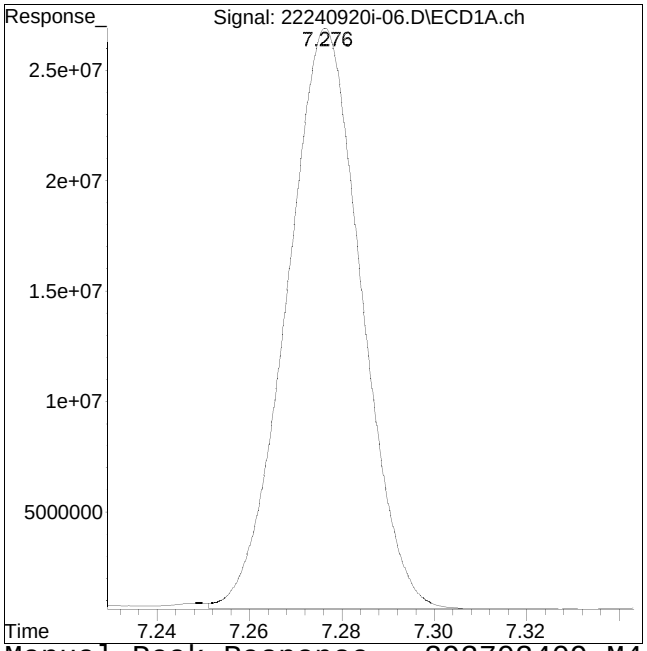
Original Peak Response = 3189920196 Manual Peak Response = 3186198161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #5: MCPP



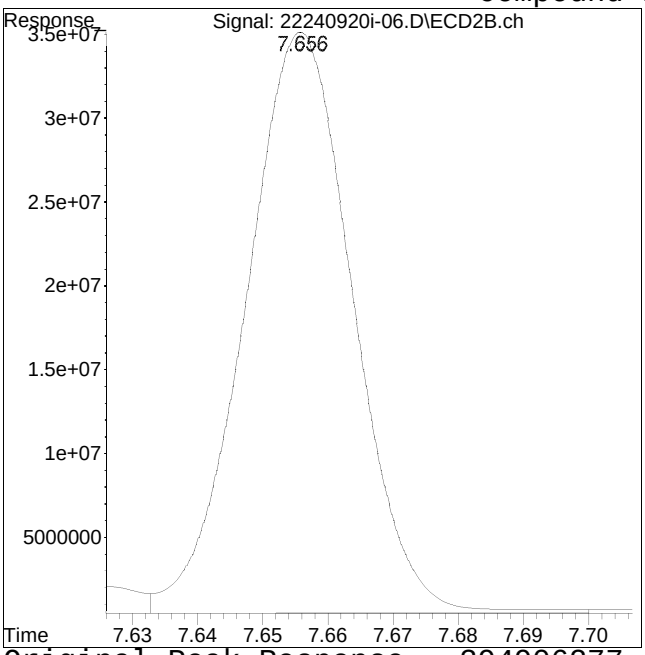


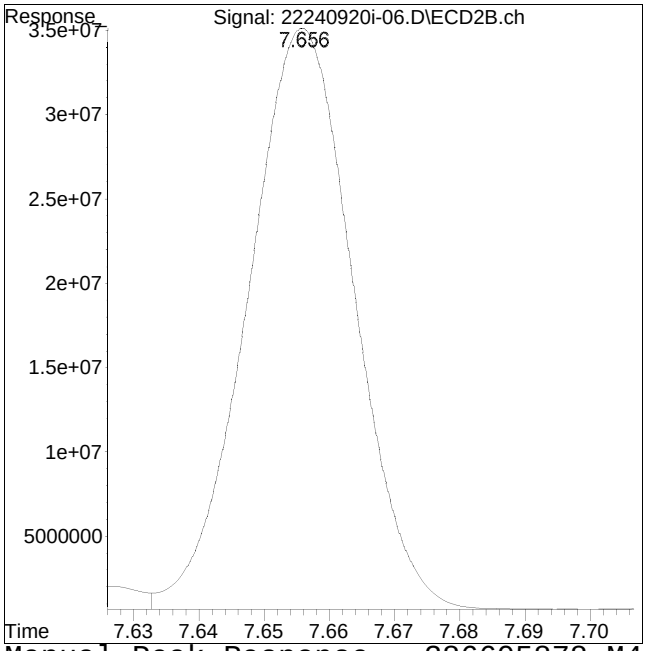
Original Peak Response = 301838331 Manual Peak Response = 293703409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #18: MCPP #2



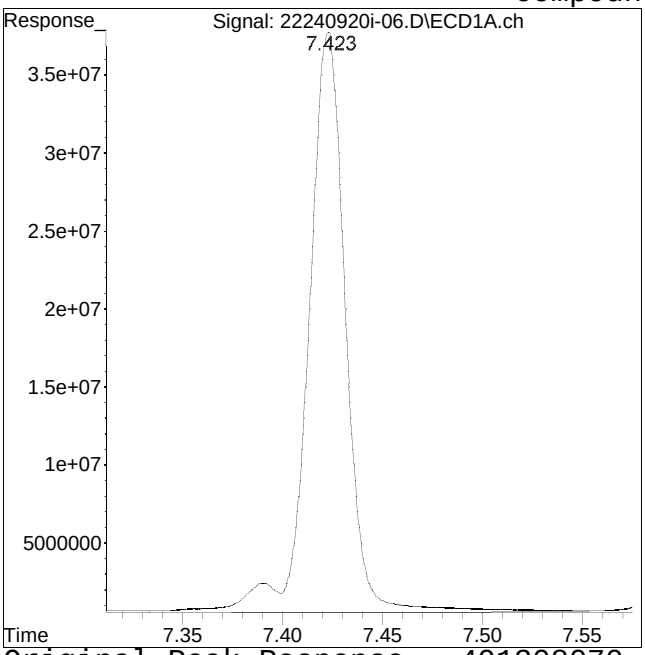


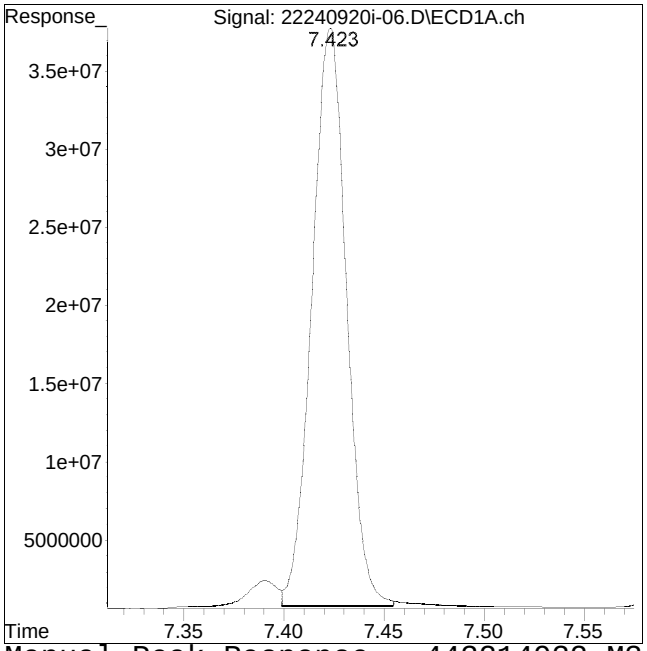
Original Peak Response = 394906277 Manual Peak Response = 386605878 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #6: MCPA



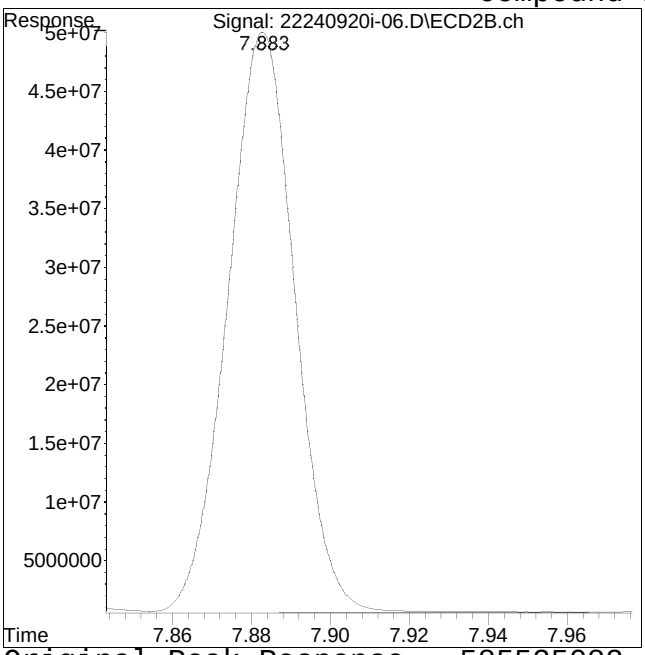


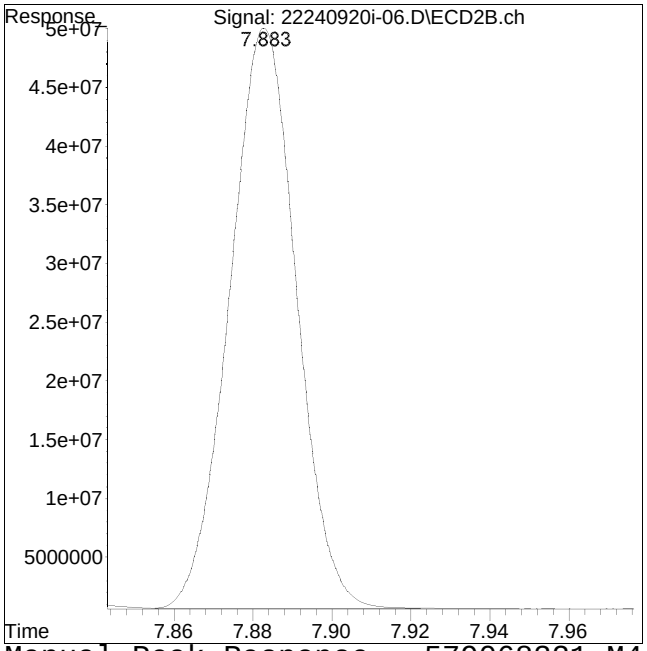
Original Peak Response = 491308070 Manual Peak Response = 443214932 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #19: MCPA #2



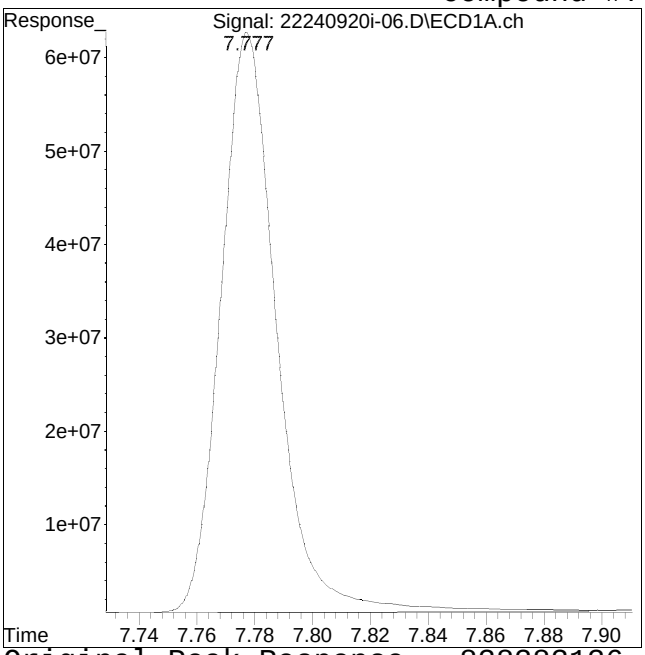


Original Peak Response = 585525082 Manual Peak Response = 579068321 M4
M4 = Poor automated baseline construction.

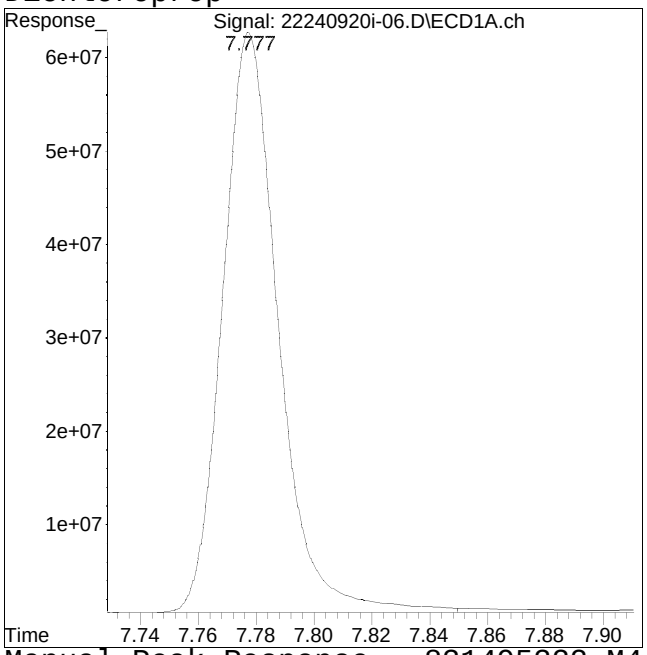
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #7: Dichloroprop



Original Peak Response = 838383136

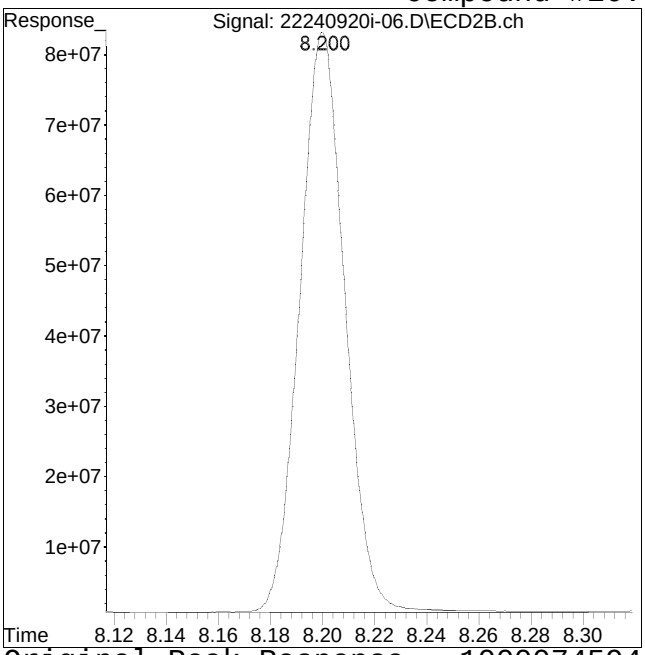


Manual Peak Response = 831495322 M4
M4 = Poor automated baseline construction.

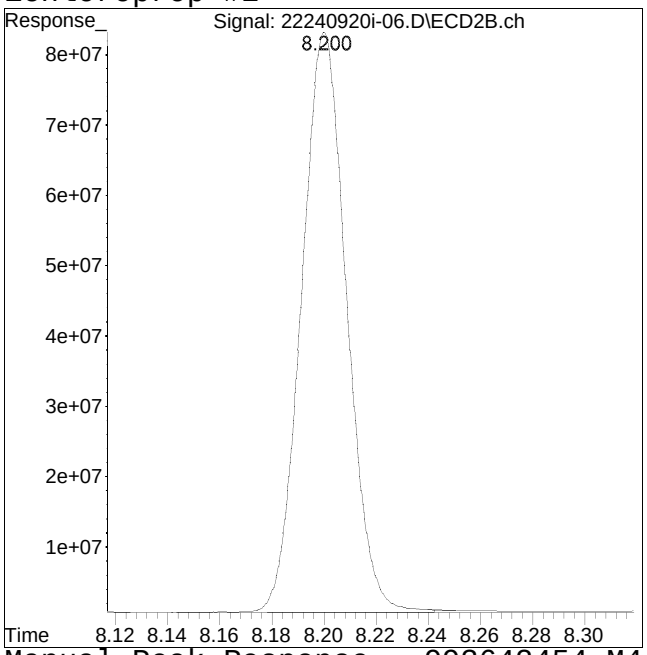
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #20: Dichloroprop #2



Original Peak Response = 1000074594



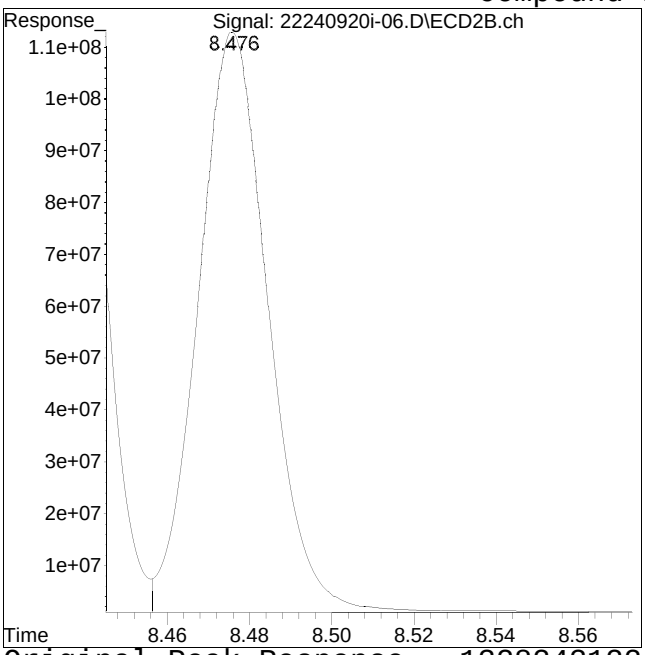
Manual Peak Response = 993642454 M4

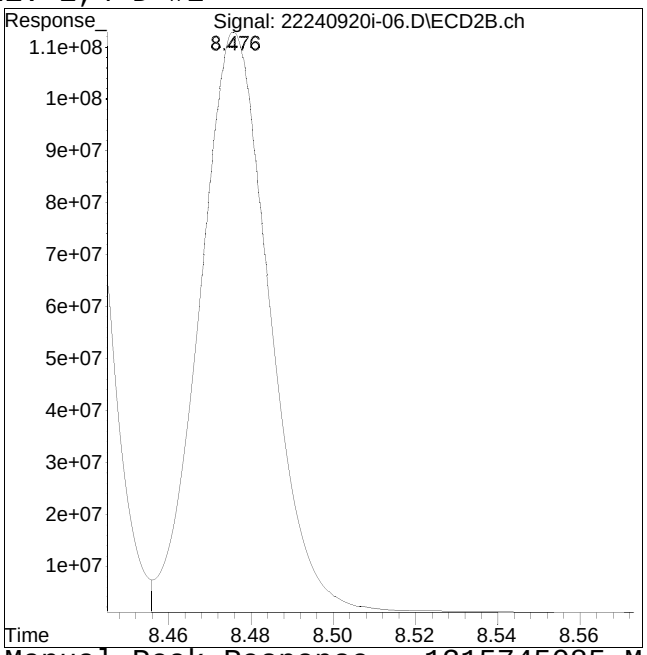
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #21: 2,4-D #2



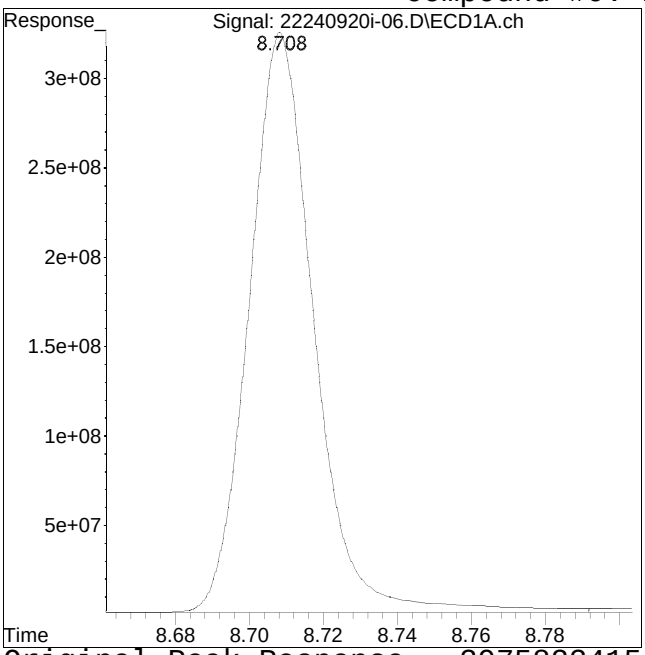


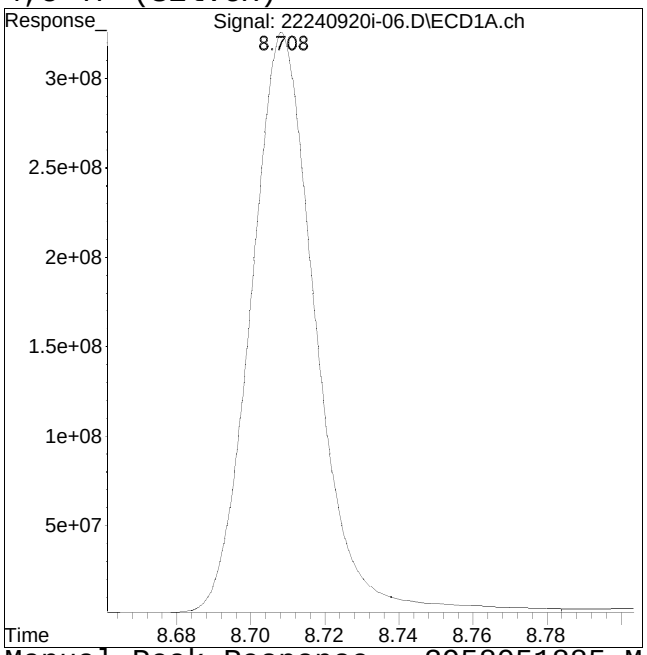
Original Peak Response = 1328243122 Manual Peak Response = 1315745085 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #9: 2,4,5-TP (Silvex)



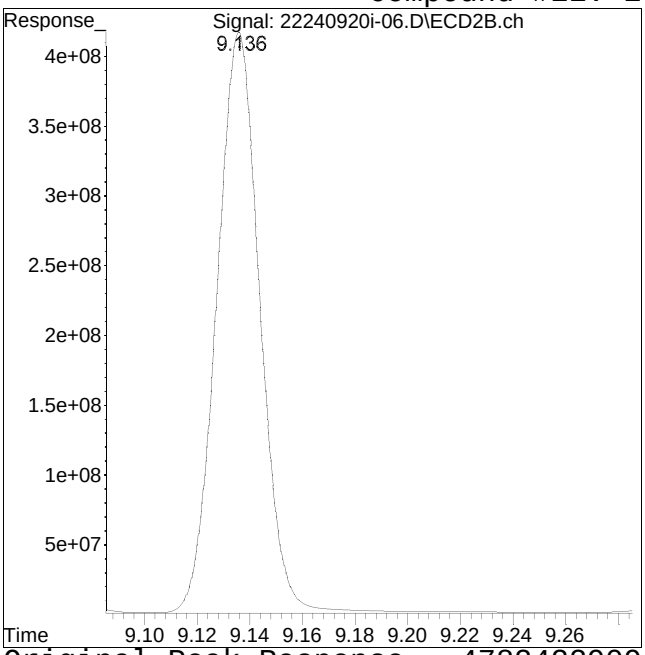


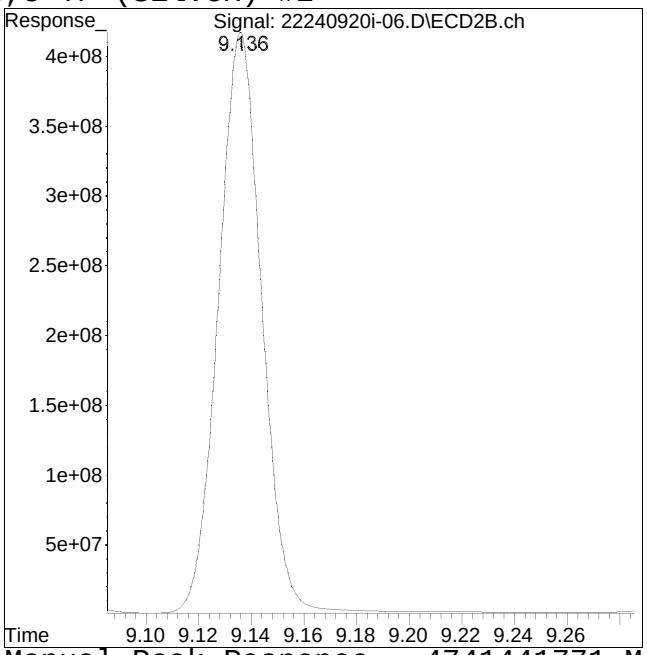
Original Peak Response = 3975823415 Manual Peak Response = 3958051885 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #22: 2,4,5-TP (Silvex) #2



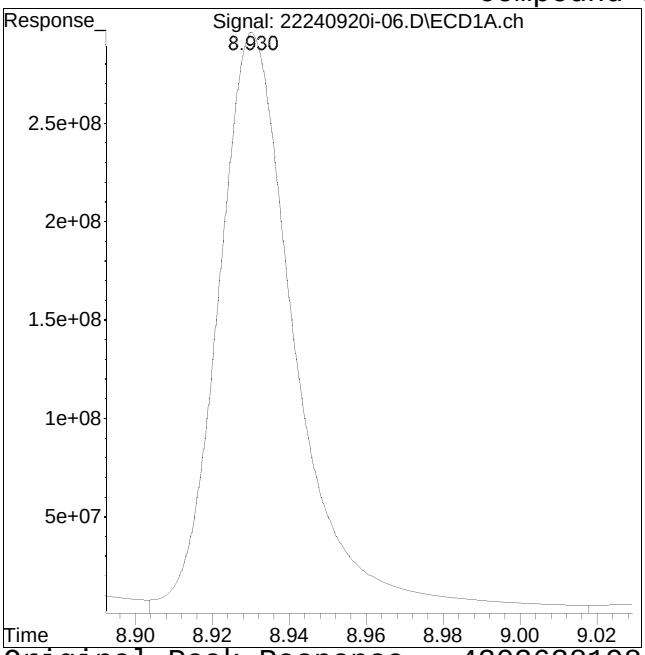


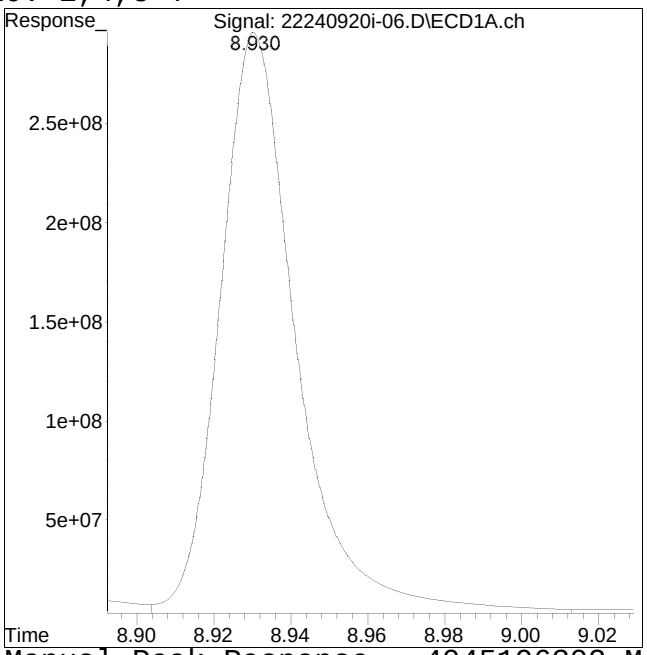
Original Peak Response = 4782422909 Manual Peak Response = 4741441771 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #10: 2,4,5-T



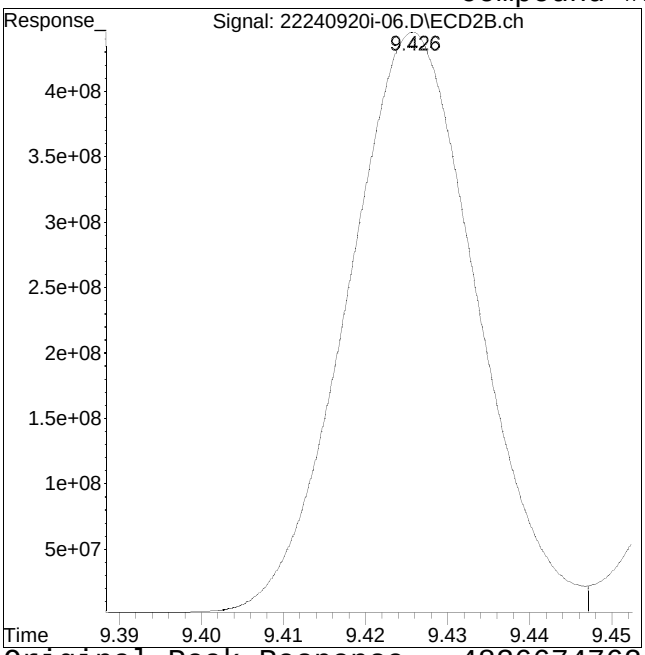


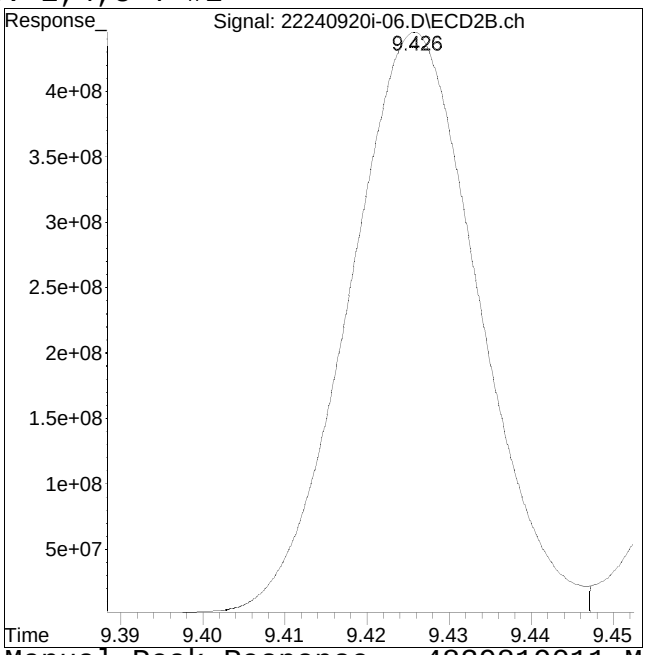
Original Peak Response = 4203638198 Manual Peak Response = 4045196302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #23: 2,4,5-T #2



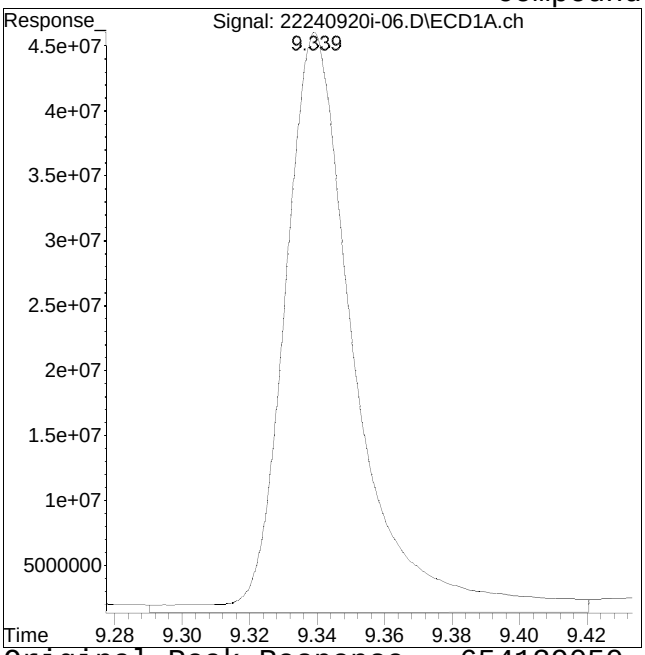


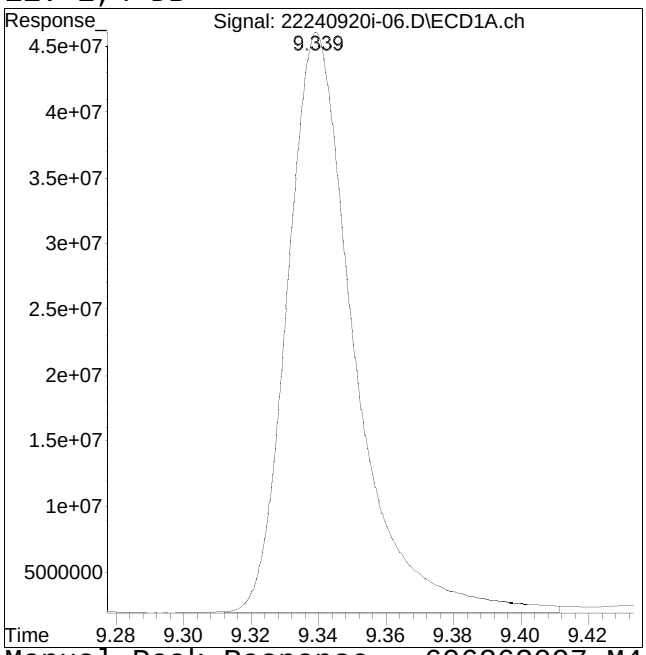
Original Peak Response = 4836674762 Manual Peak Response = 4839819011 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #11: 2,4-DB



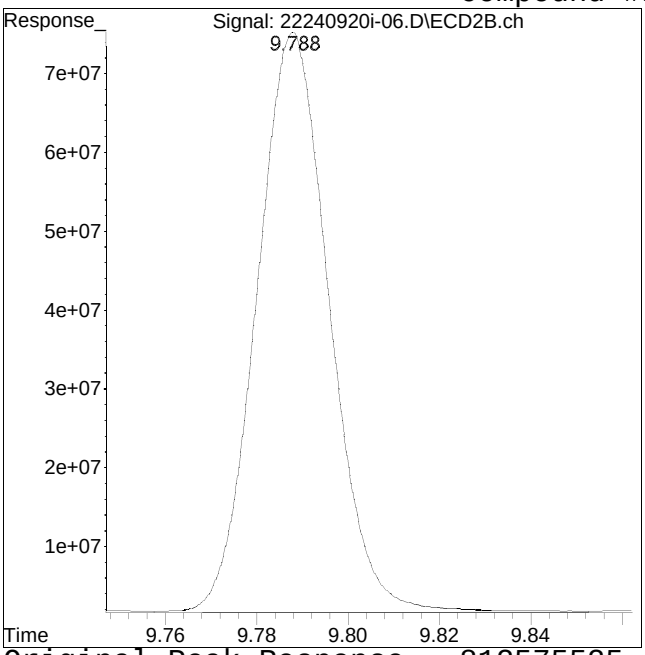


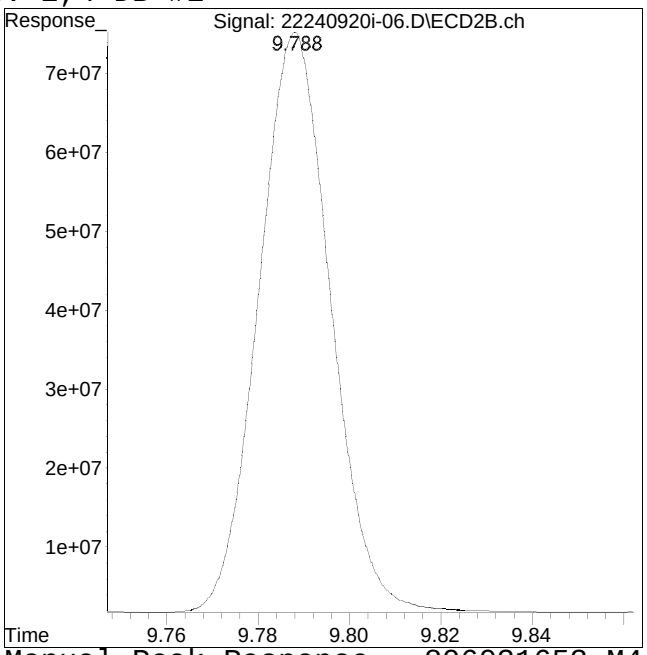
Original Peak Response = 654139050 Manual Peak Response = 606263097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #24: 2,4-DB #2



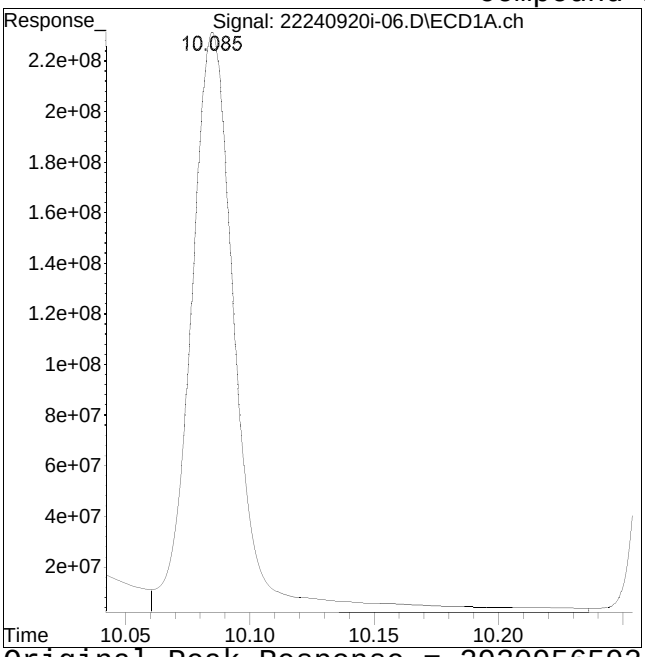


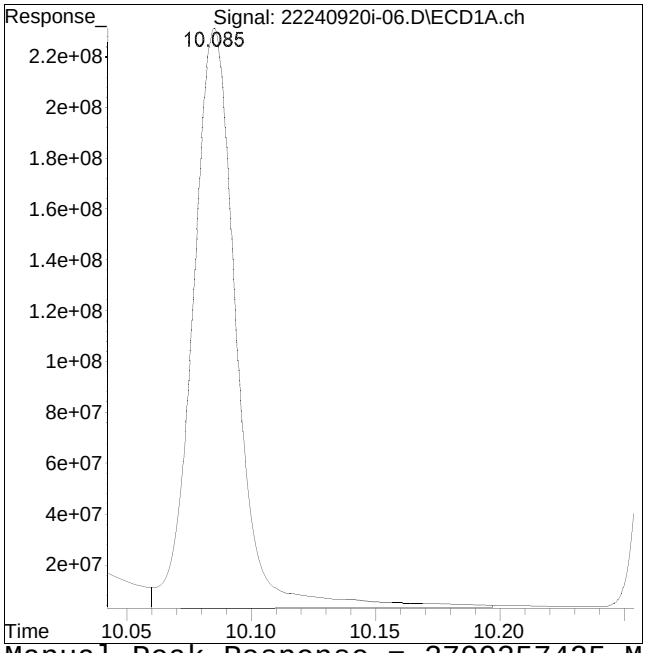
Original Peak Response = 812575525 Manual Peak Response = 806031653 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #12: Dinoseb



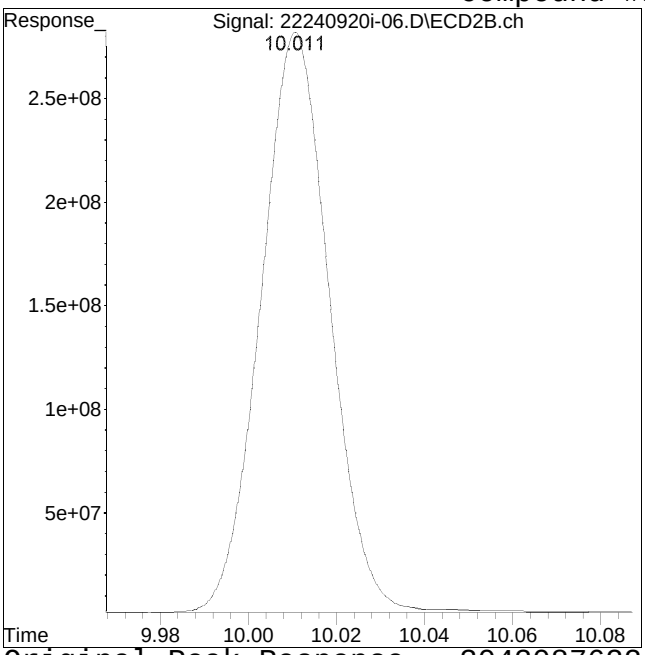


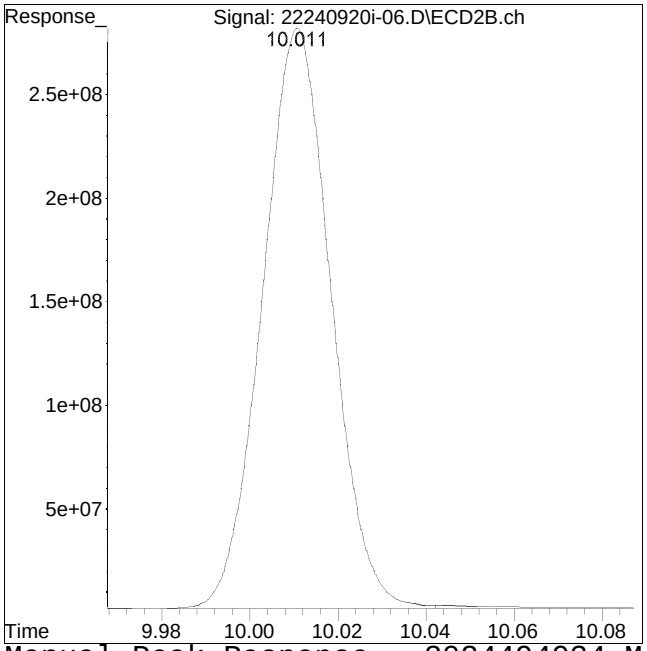
Original Peak Response = 2930956592 Manual Peak Response = 2799257425 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #25: Dinoseb #2





Original Peak Response = 3043087622 Manual Peak Response = 3024494934 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1438.5E6	1699.0E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.893	7.361	1579.8E6	1885.6E6	1.604M4	1.644M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	320.80%#	328.80%#
		Target Compounds						
2)	t	Dalapon	2.326	2.321	2051.2E6	2176.5E6	1.584M4	1.634M4
4)	t	Dicamba	7.074	7.541	5099.0E6	5716.3E6	1.686M4	1.717M4
5)	t	MCPP	7.279	7.658	555.6E6	731.0E6	189.132M4	195.725M4
6)	t	MCPA	7.425	7.885	805.6E6	1049.9E6	167.836M4	174.202M4
7)	t	Dichloroprop	7.776	8.199	1445.0E6	1739.5E6	1.595M4	1.649M4
8)	t	2,4-D	7.988	8.475	1880.9E6	2368.0E6	1.675	1.722M4
9)	t	2,4,5-TP (Si	8.707	9.135	7054.9E6	8507.5E6	1.694M4	1.742M4
10)	t	2,4,5-T	8.929	9.425	7389.1E6	8840.9E6	1.738M4	1.805M4
11)	t	2,4-DB	9.337	9.787	1082.2E6	1447.5E6	1.731M4	1.803M4
12)	t	Dinoseb	10.085	10.010	5021.9E6	5486.8E6	1.739M4	1.768M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

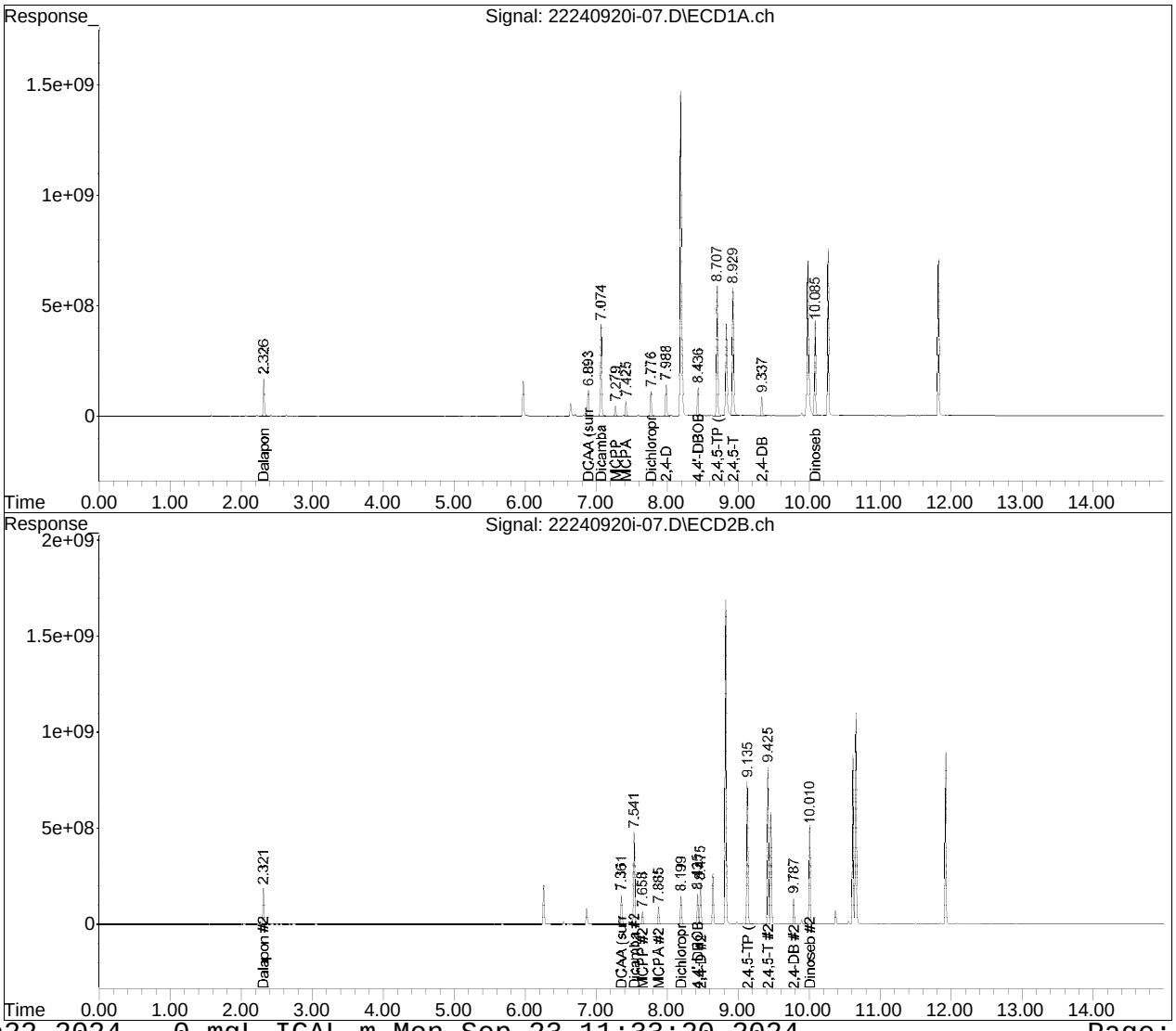
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

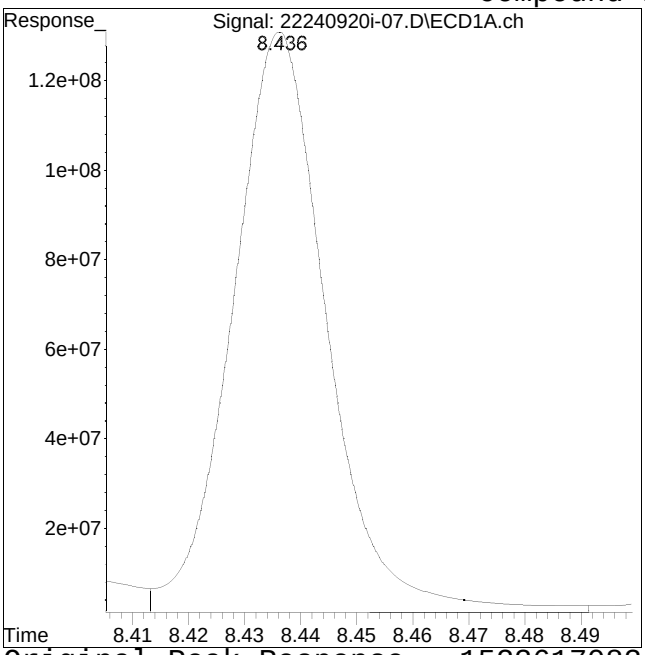
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



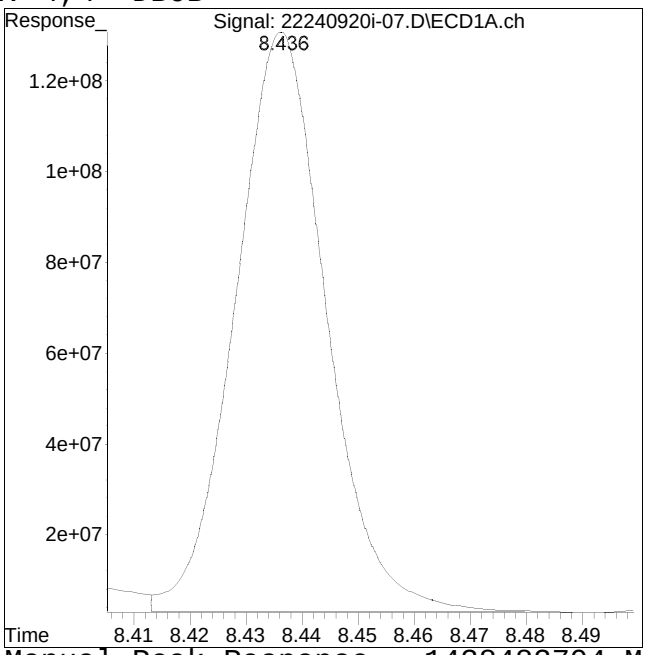
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #1: 4,4'-DBOB



Original Peak Response = 1523617083

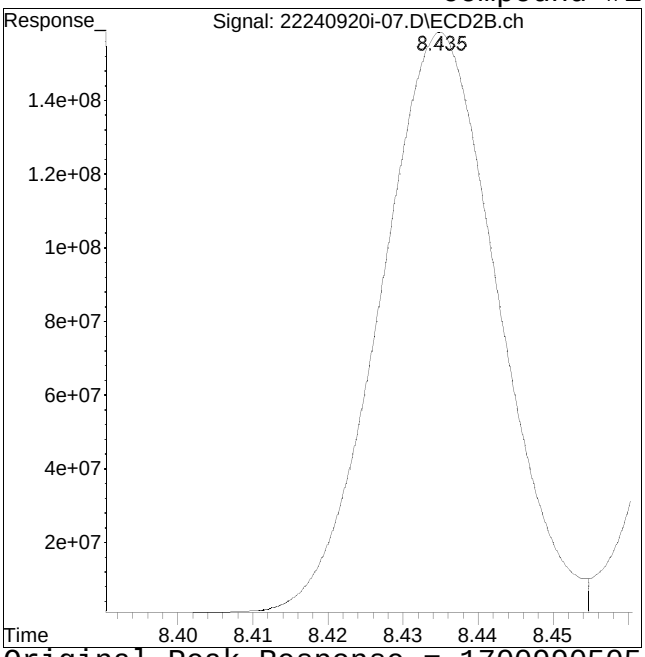


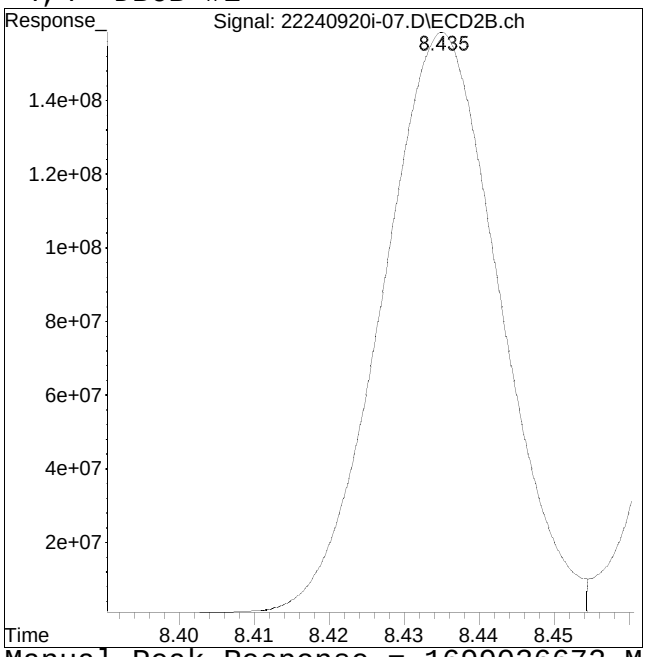
Manual Peak Response = 1438483704 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #14: 4,4'-DBOB #2



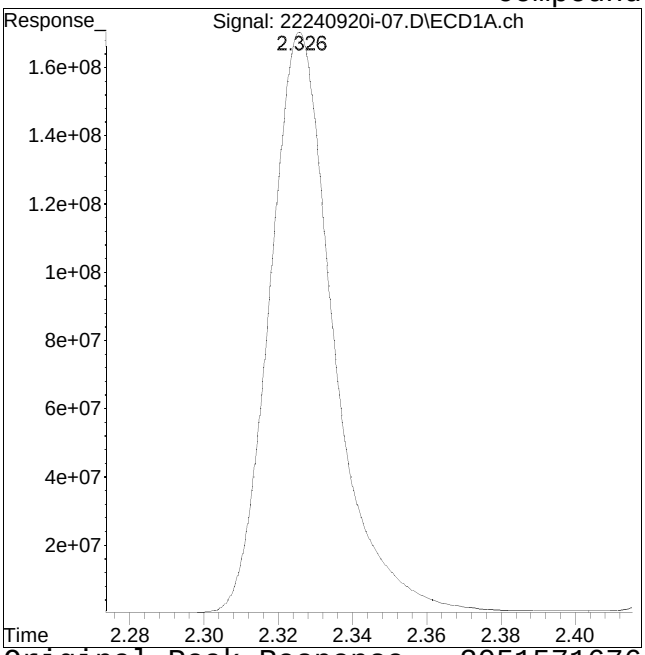


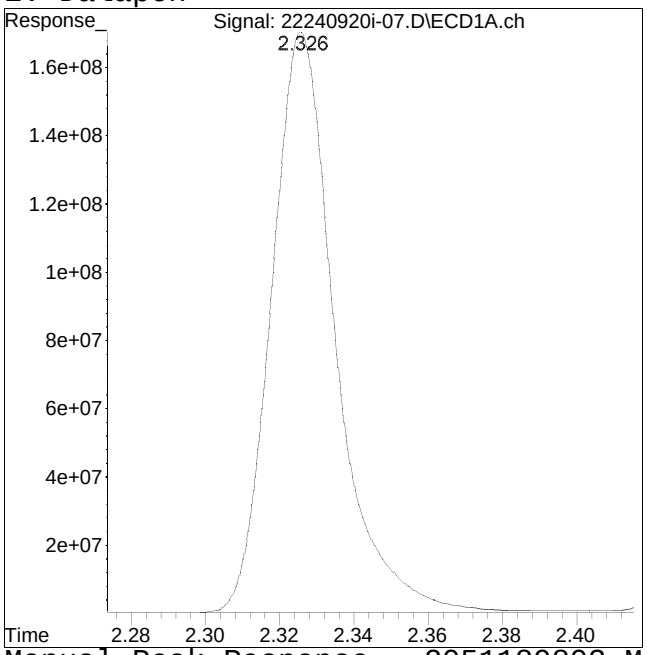
Original Peak Response = 1700990505 Manual Peak Response = 1699036672 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #2: Dalapon



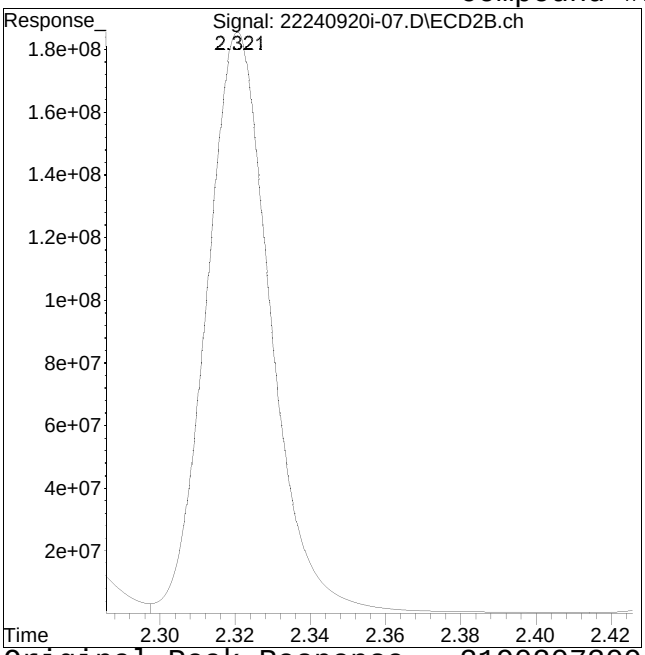


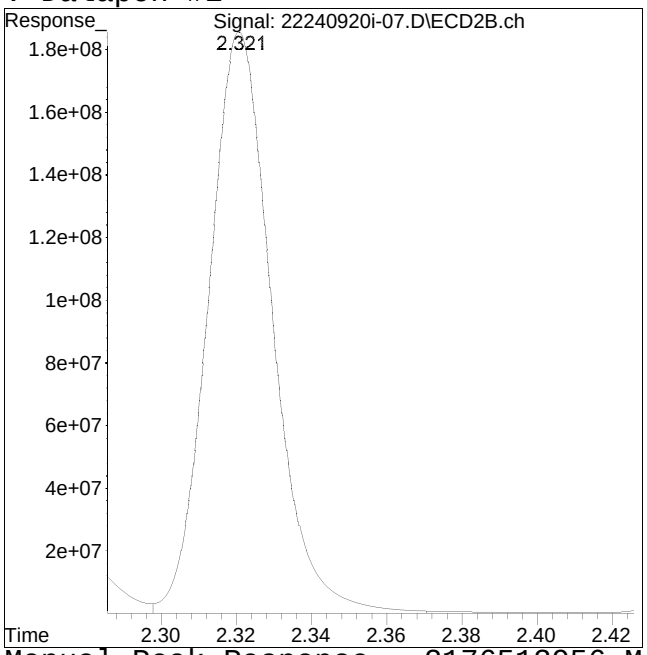
Original Peak Response = 2051571676 Manual Peak Response = 2051189803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #15: Dalapon #2



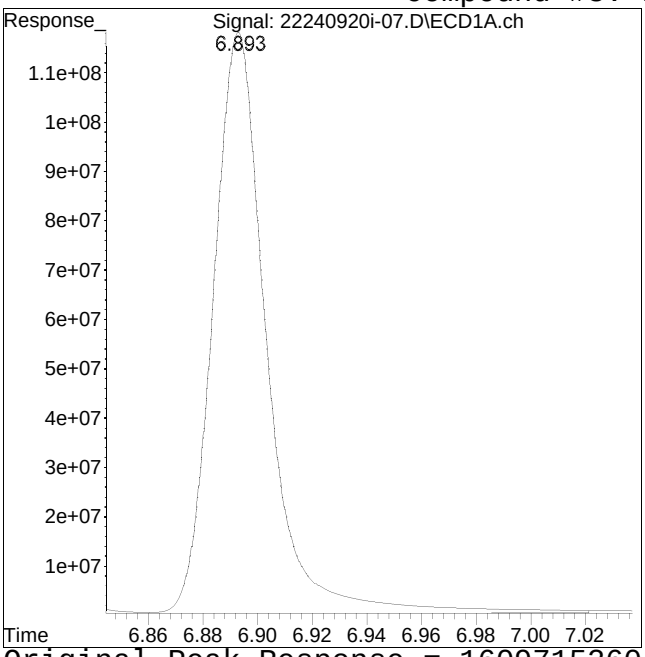


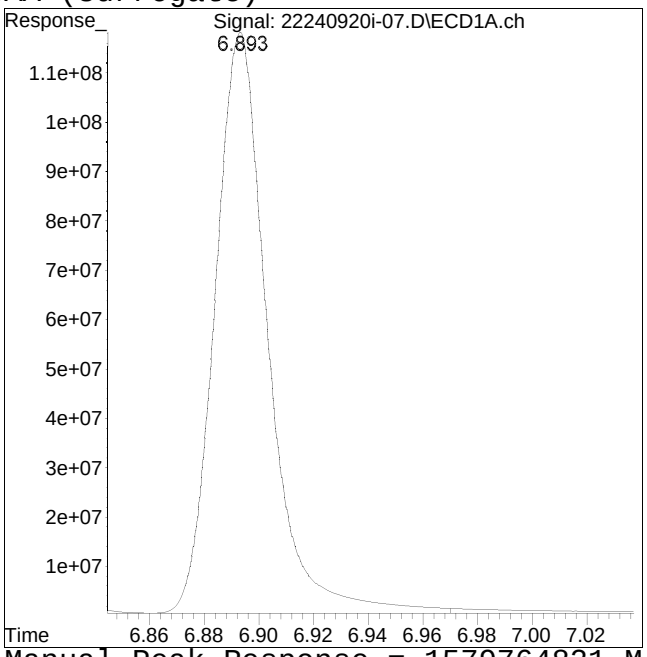
Original Peak Response = 2190207309 Manual Peak Response = 2176513956 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #3: DCAA (surrogate)



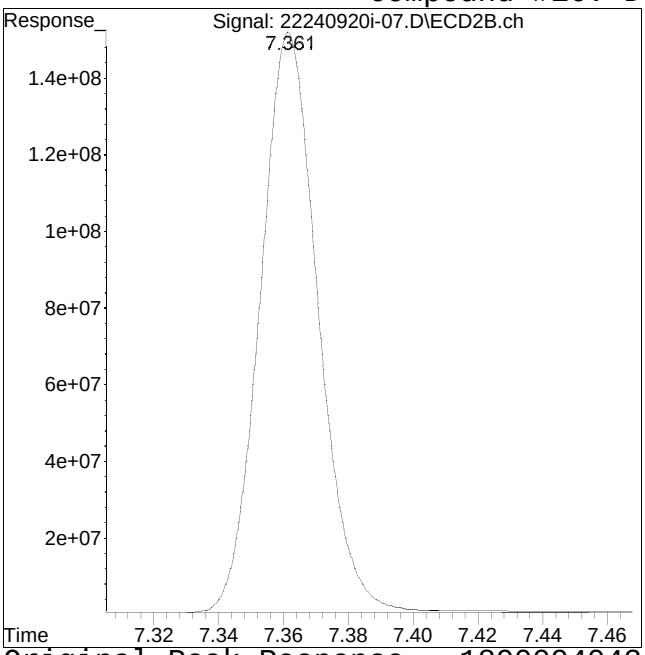


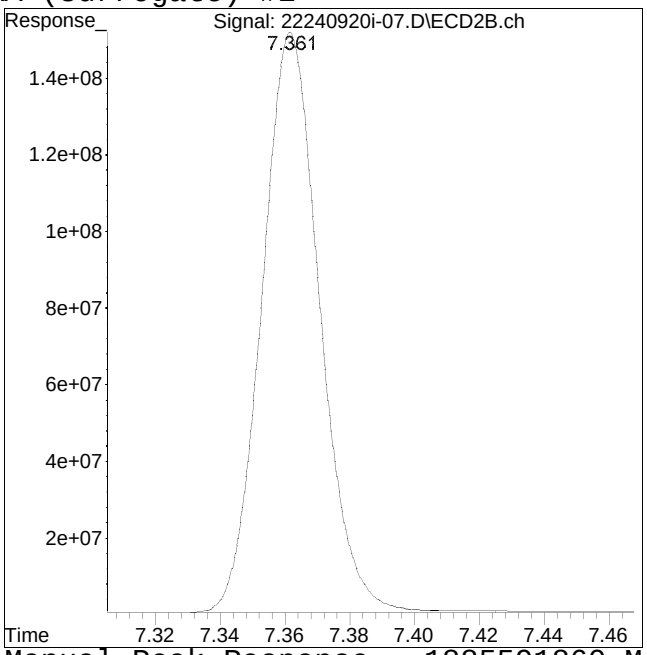
Original Peak Response = 1609715260 Manual Peak Response = 1579764821 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #16: DCAA (surrogate) #2



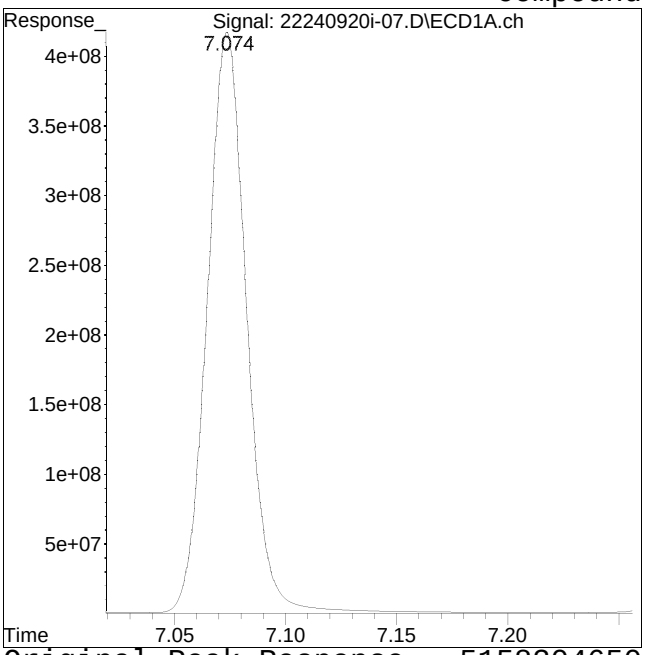


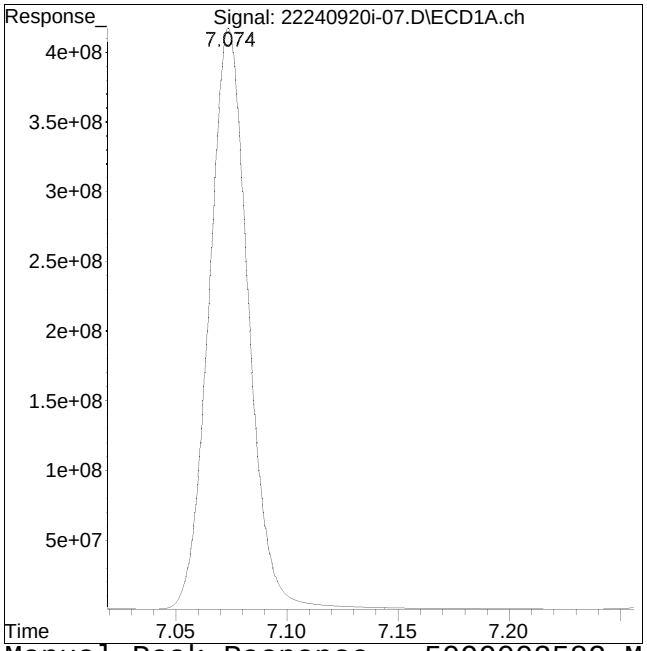
Original Peak Response = 1890094043 Manual Peak Response = 1885591860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #4: Dicamba



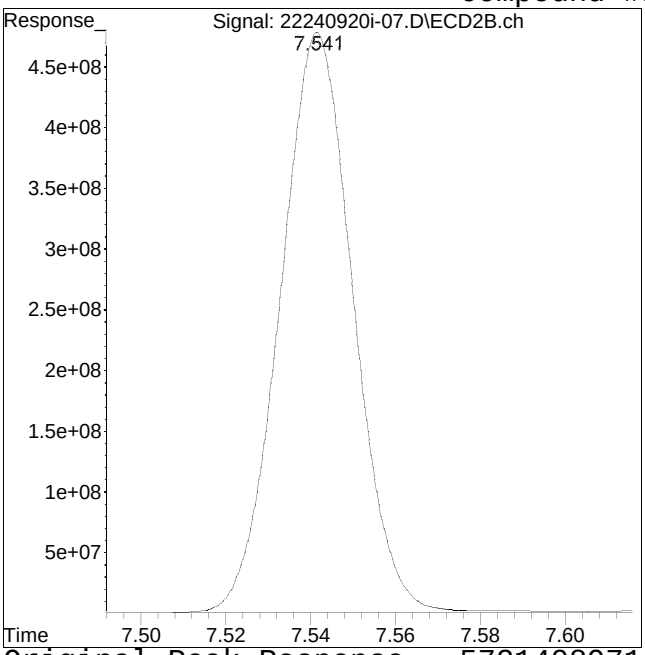


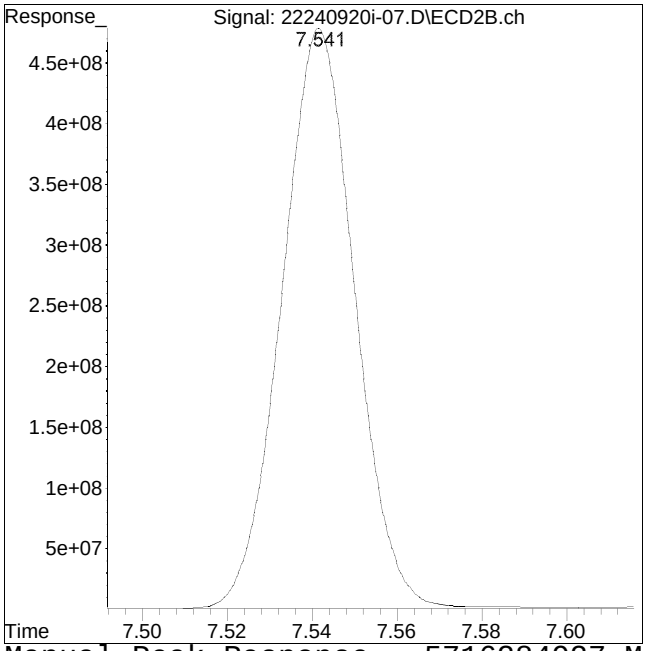
Original Peak Response = 5158304650 Manual Peak Response = 5099002582 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #17: Dicamba #2



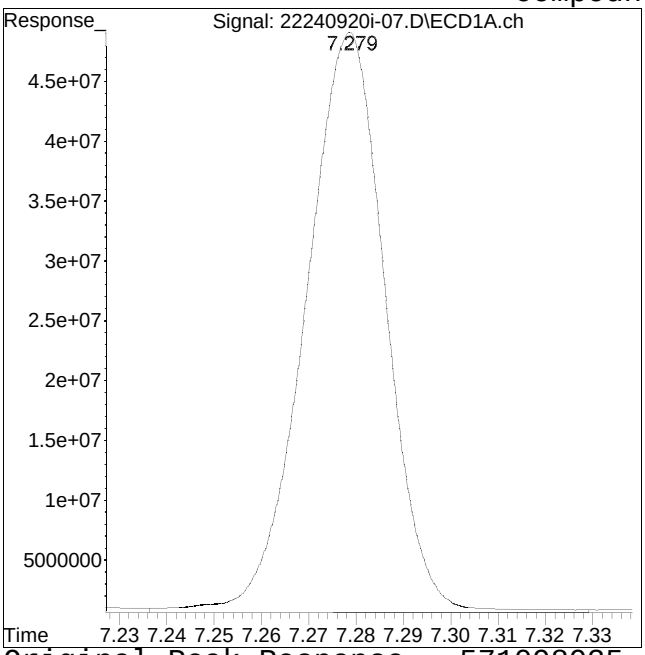


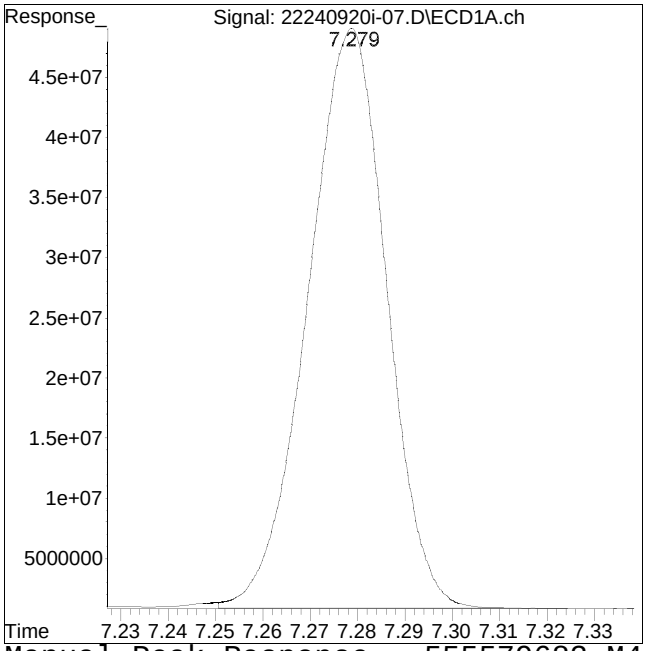
Original Peak Response = 5721408971 Manual Peak Response = 5716284927 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #5: MCPP



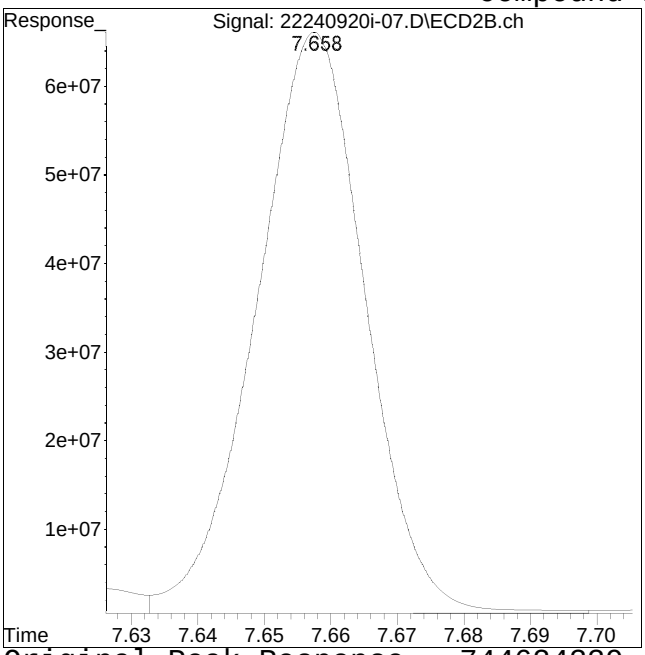


Original Peak Response = 571098935 Manual Peak Response = 555579683 M4
M4 = Poor automated baseline construction.

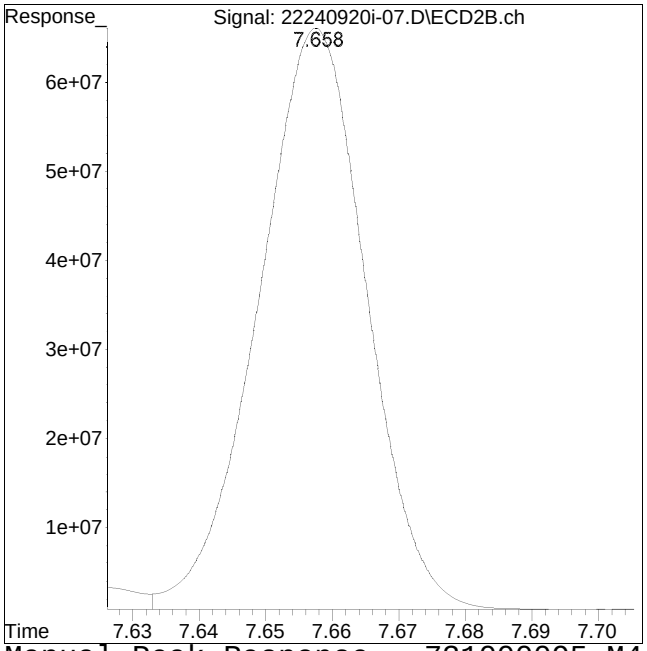
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #18: MCPP #2



Original Peak Response = 744624339



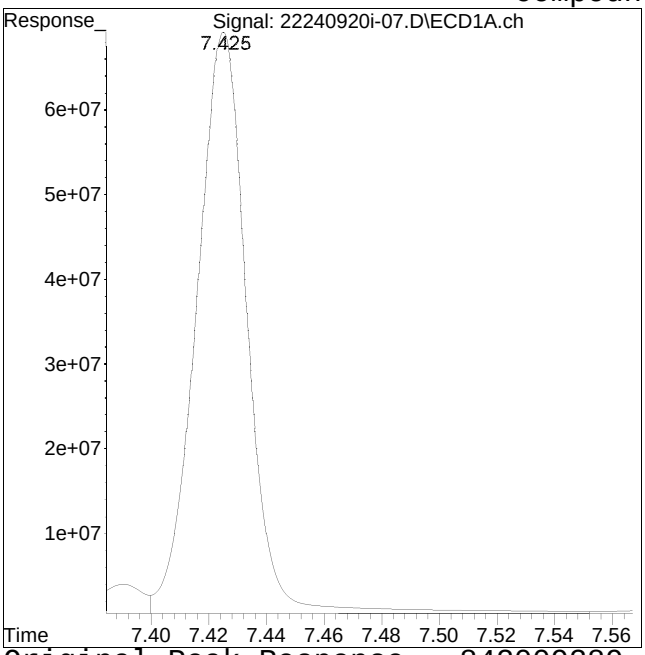
Manual Peak Response = 731000095 M4

M4 = Poor automated baseline construction.

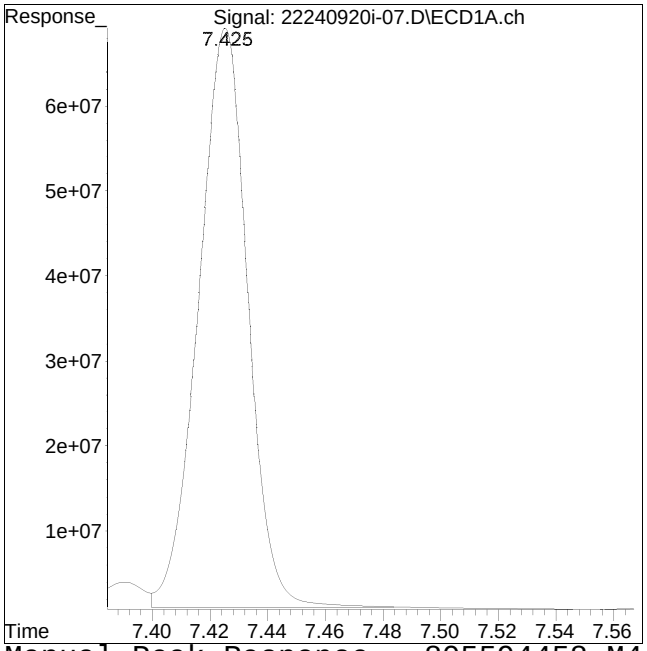
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #6: MCPA



Original Peak Response = 842009389



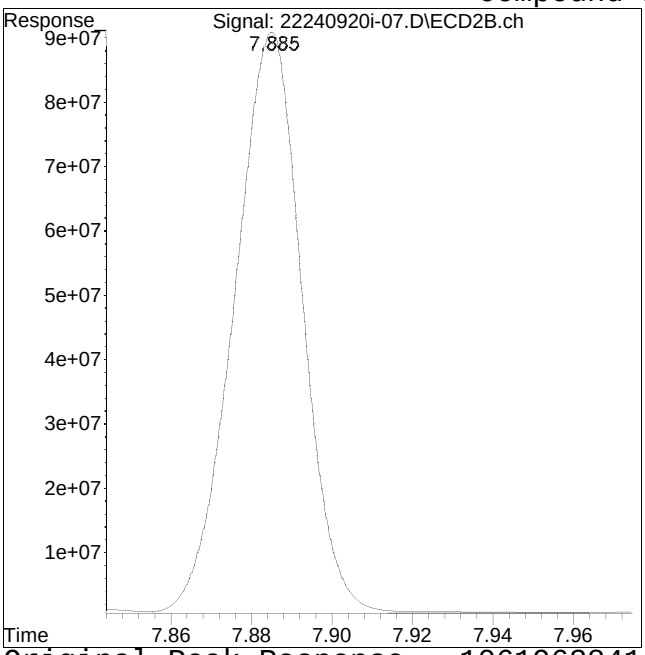
Manual Peak Response = 805594458 M4

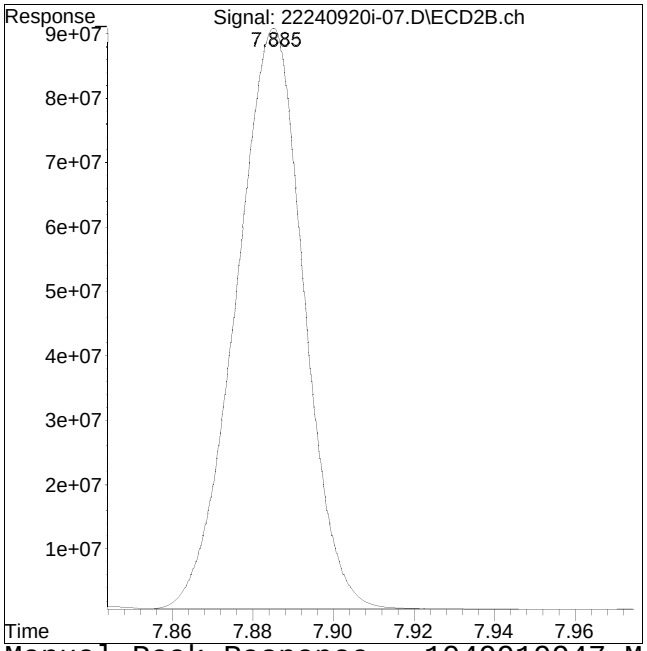
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #19: MCPA #2



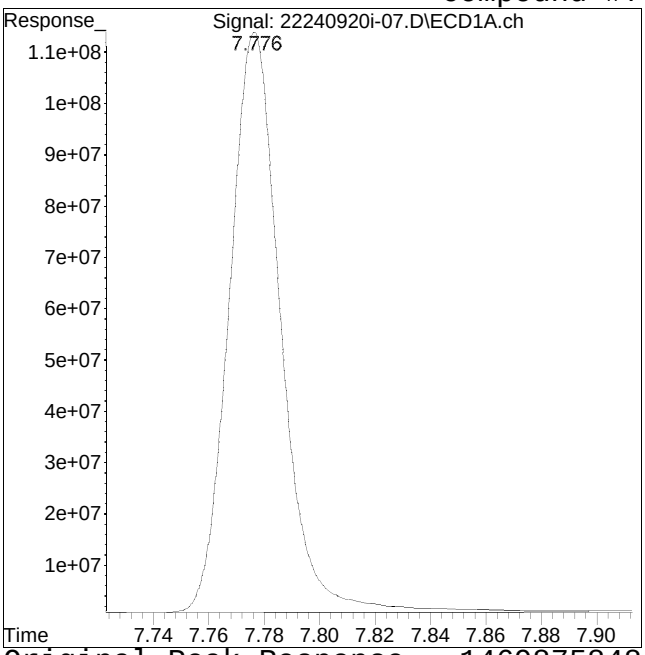


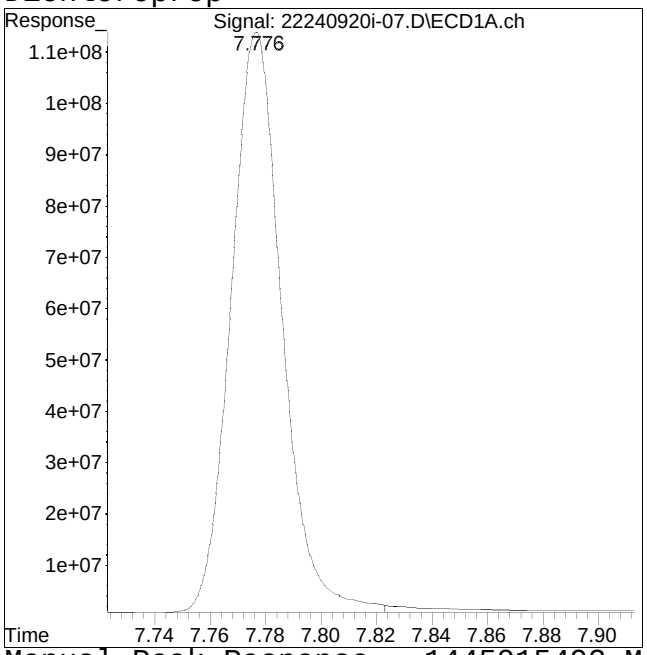
Original Peak Response = 1061963841 Manual Peak Response = 1049919947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #7: Dichloroprop



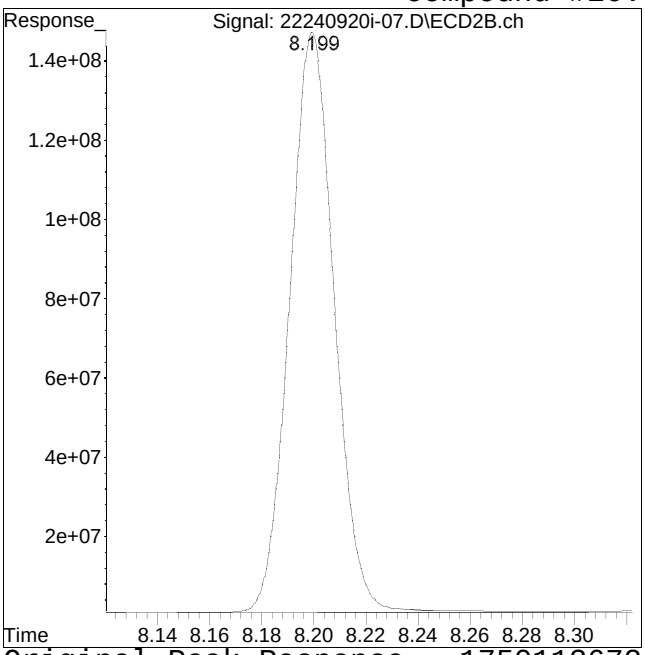


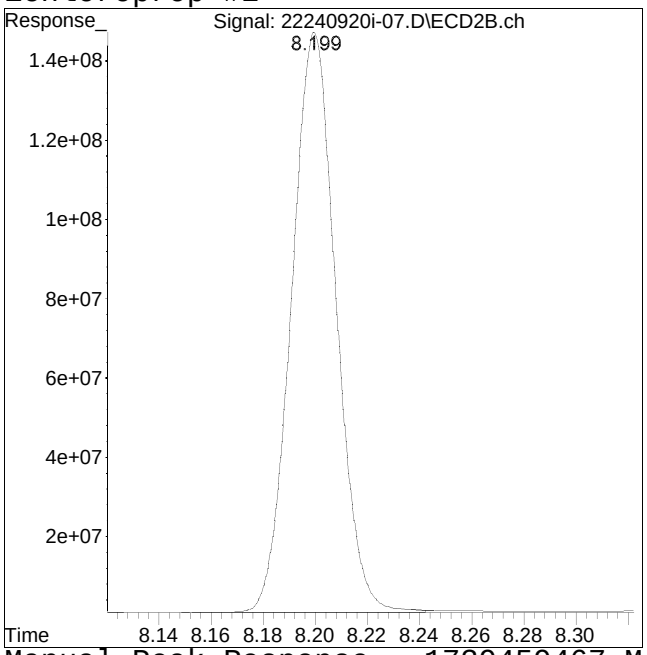
Original Peak Response = 1469875848 Manual Peak Response = 1445015492 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #20: Dichloroprop #2



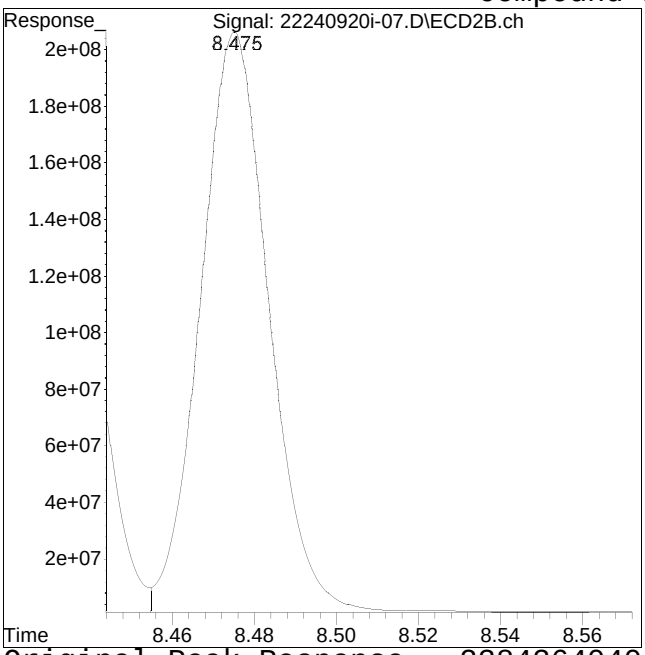


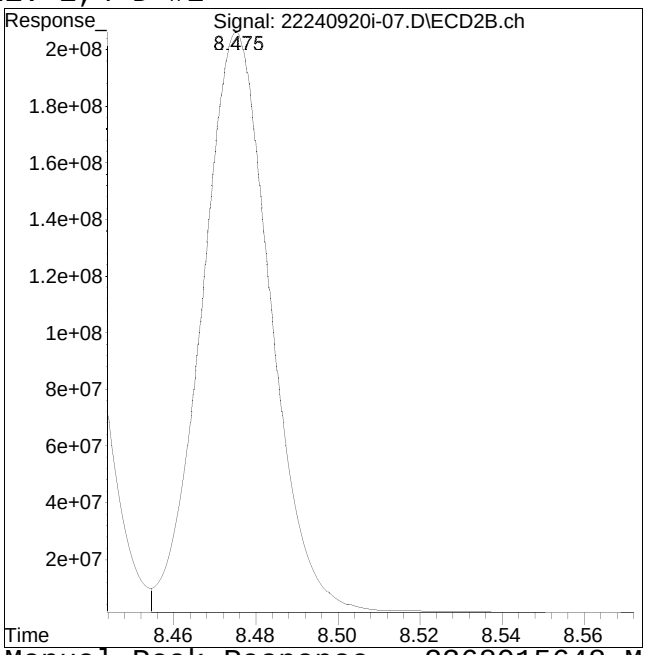
Original Peak Response = 1750113672 Manual Peak Response = 1739459467 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #21: 2,4-D #2



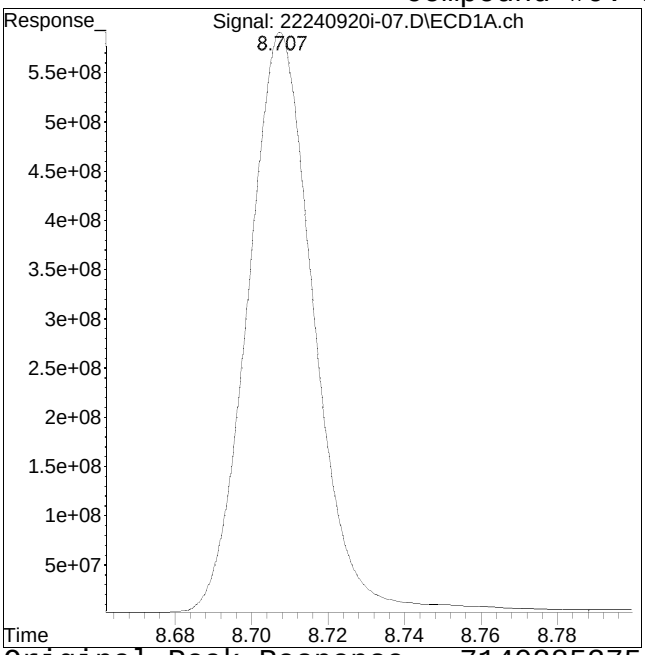


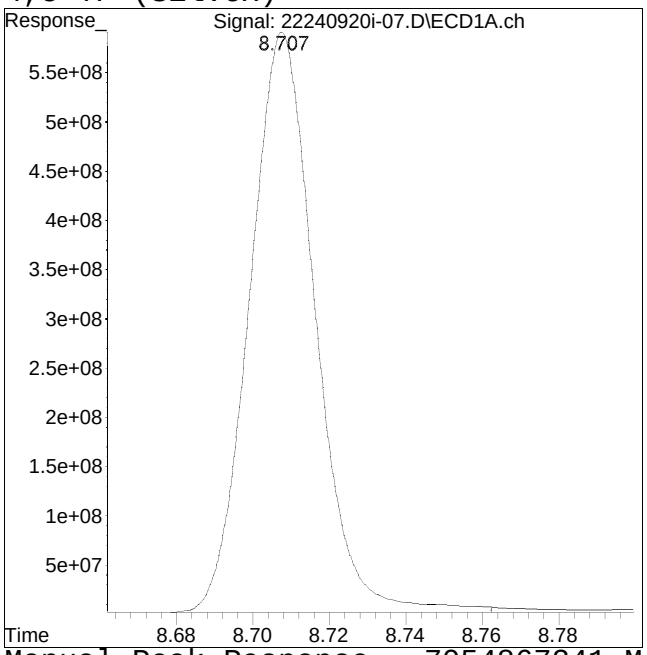
Original Peak Response = 2384364040 Manual Peak Response = 2368015648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #9: 2,4,5-TP (Silvex)



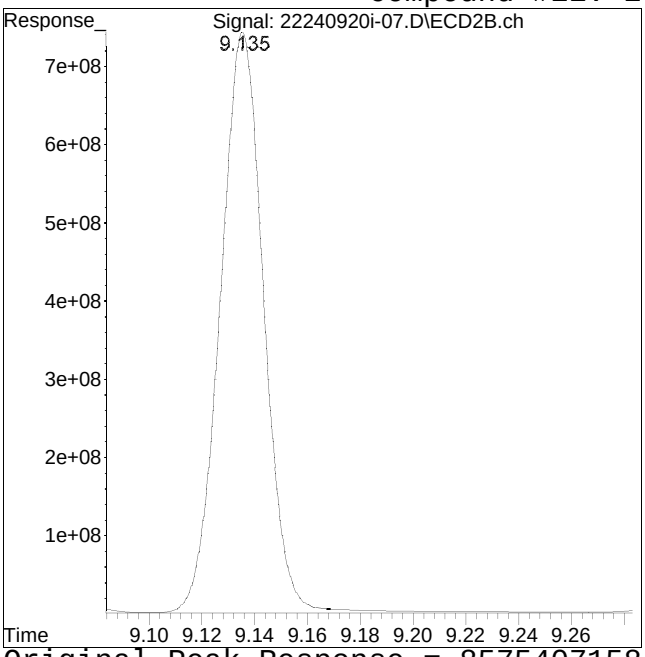


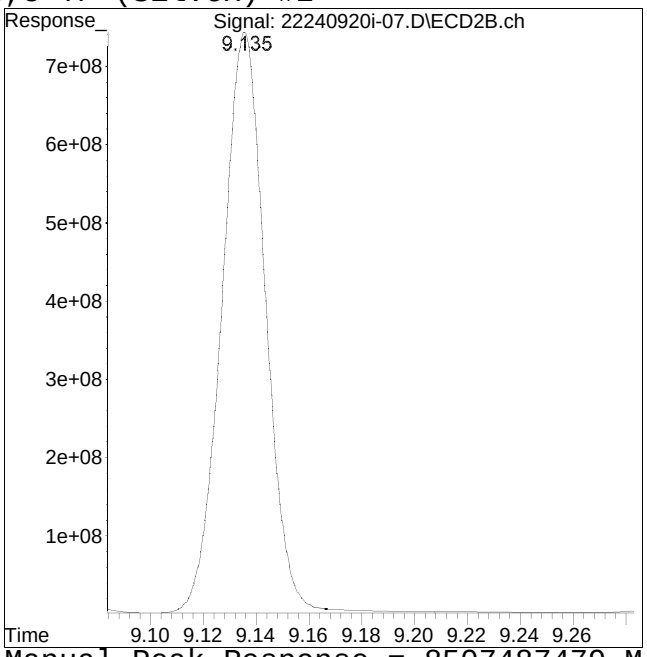
Original Peak Response = 7140285375 Manual Peak Response = 7054867241 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #22: 2,4,5-TP (Silvex) #2



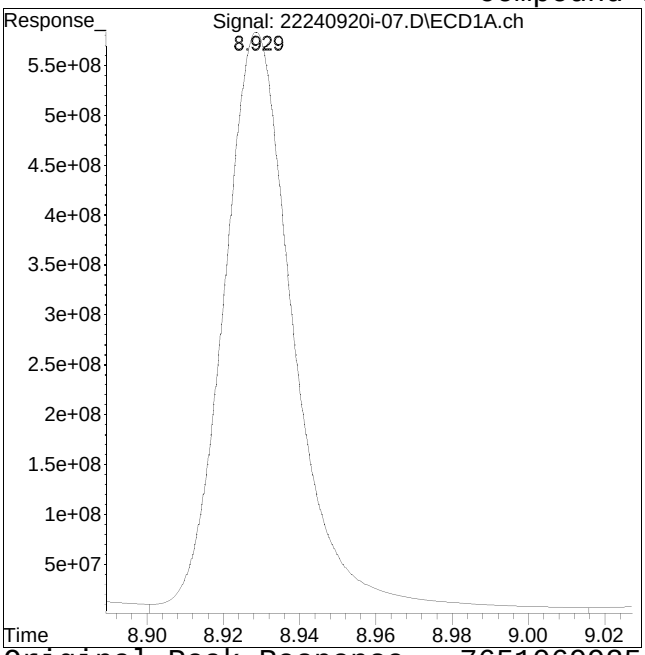


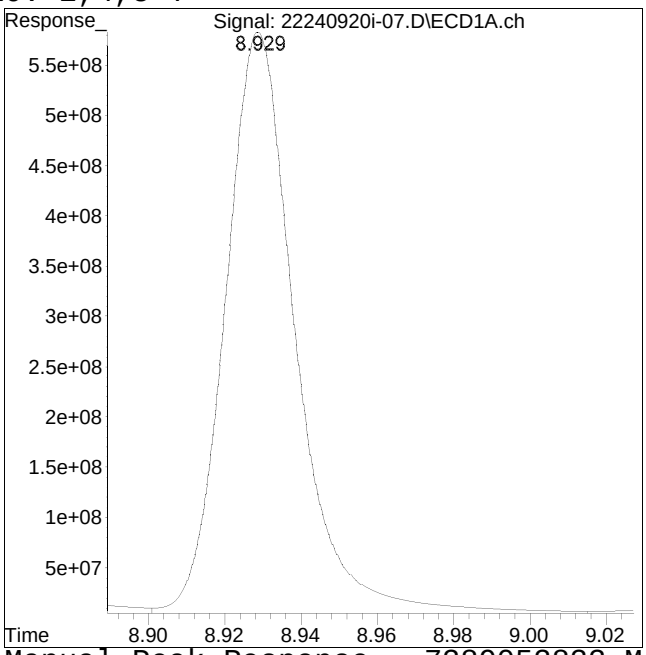
Original Peak Response = 8575407158 Manual Peak Response = 8507487479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #10: 2,4,5-T



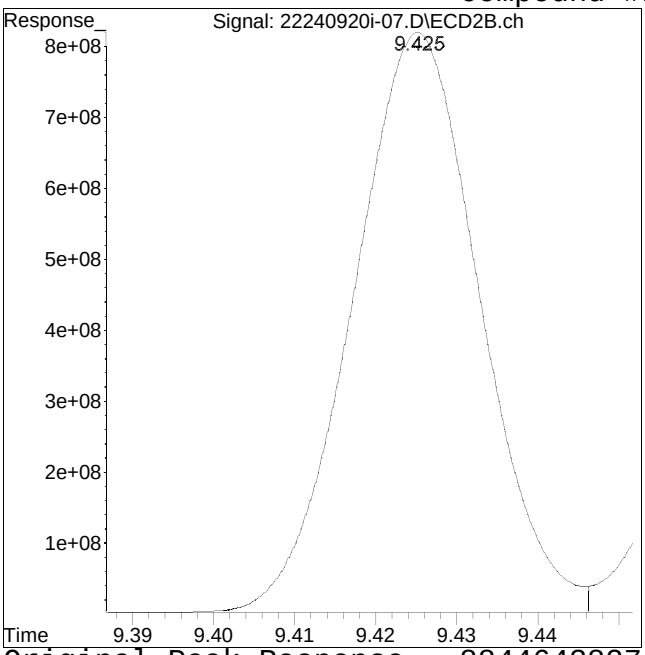


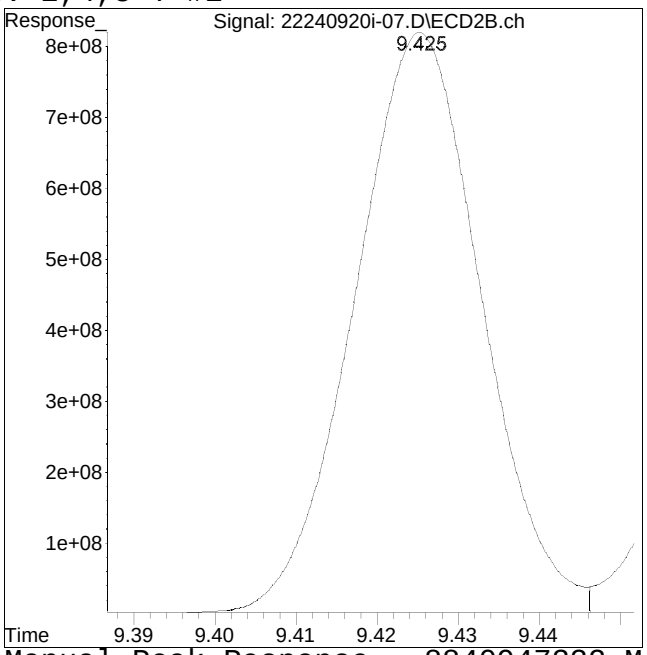
Original Peak Response = 7651069925 Manual Peak Response = 7389053833 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #23: 2,4,5-T #2



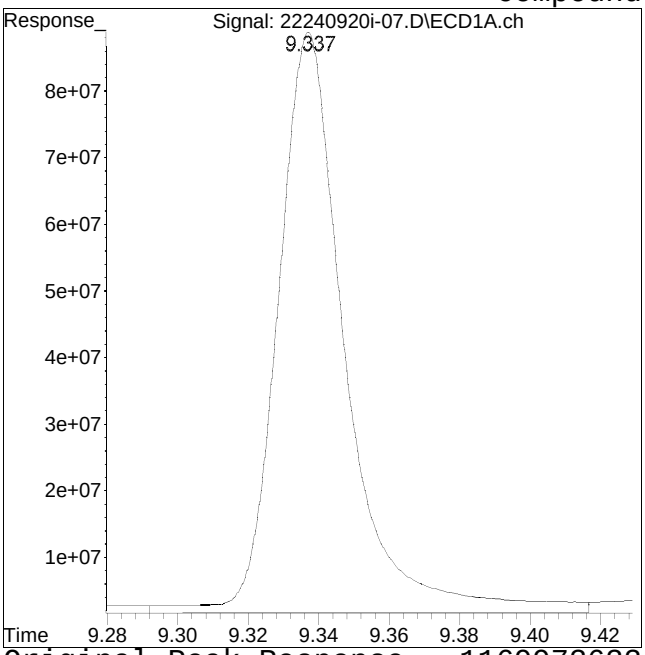


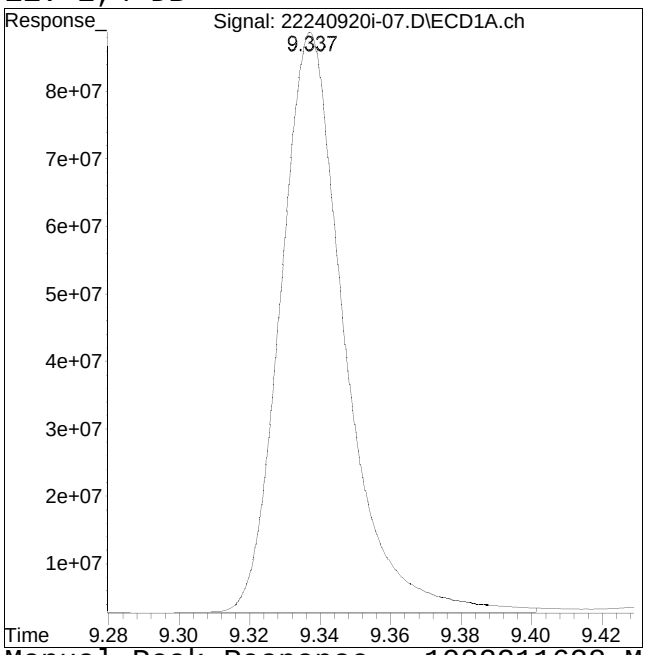
Original Peak Response = 8844643827 Manual Peak Response = 8840947332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #11: 2,4-DB



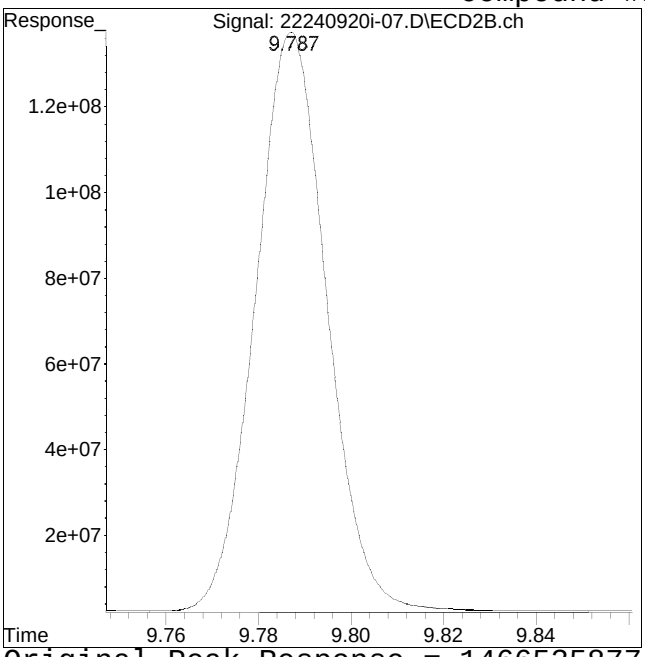


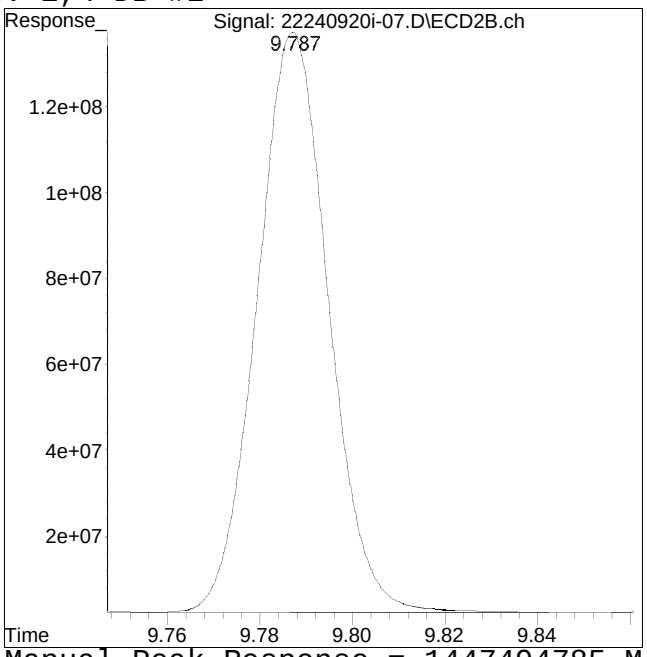
Original Peak Response = 1169973633 Manual Peak Response = 1082211628 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #24: 2,4-DB #2



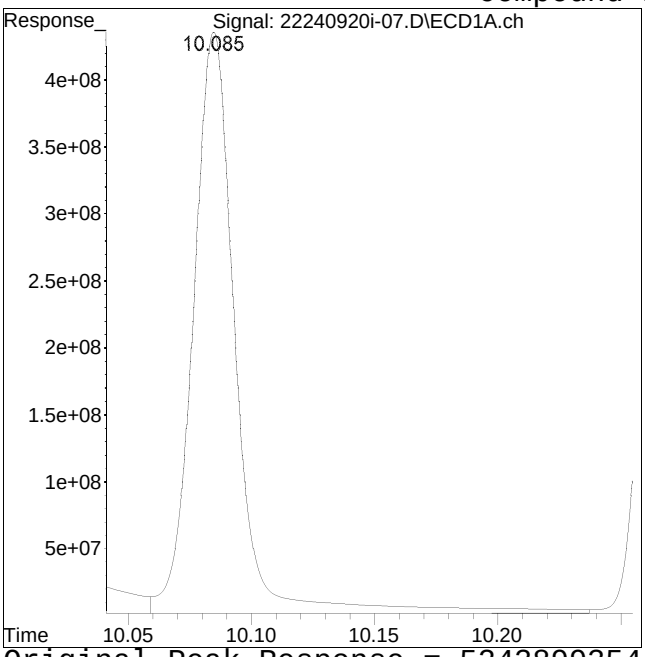


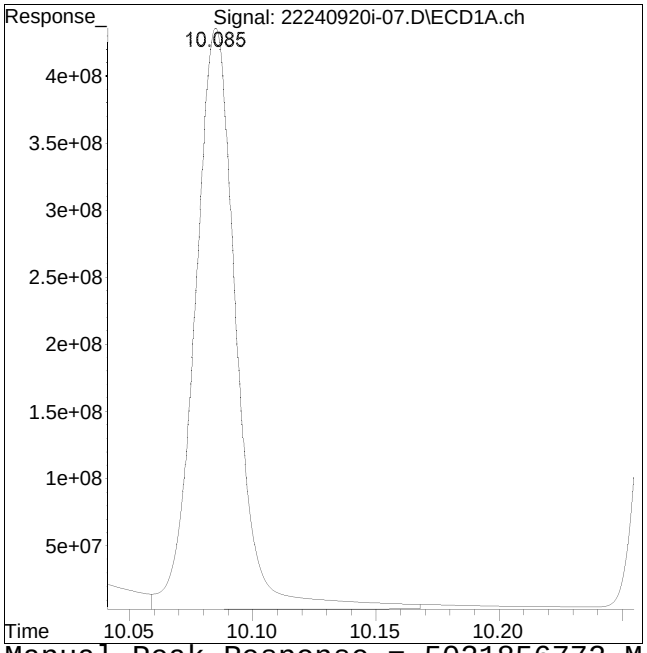
Original Peak Response = 1466535877 Manual Peak Response = 1447494785 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #12: Dinoseb



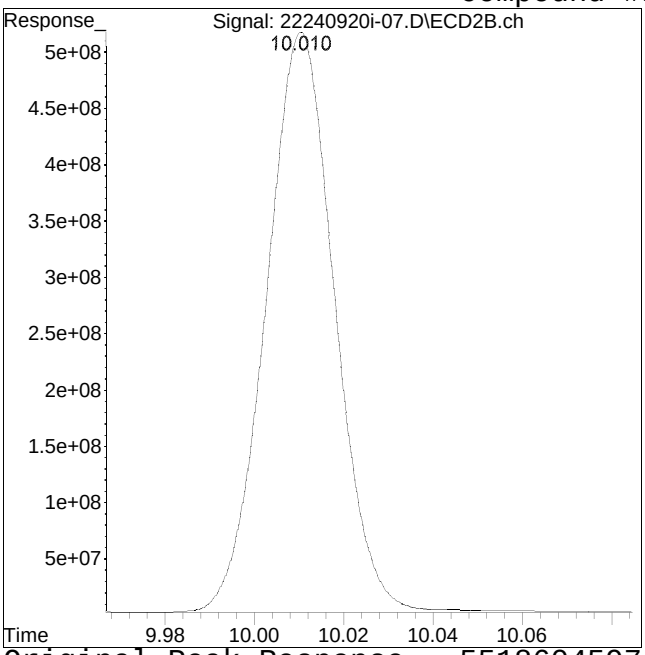


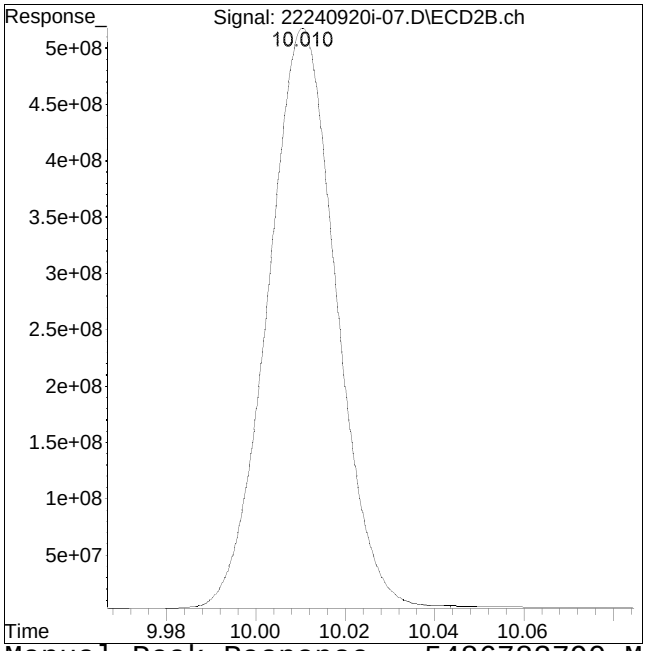
Original Peak Response = 5243899354 Manual Peak Response = 5021856772 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #25: Dinoseb #2





Original Peak Response = 5518604597 Manual Peak Response = 5486783790 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1975124,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	105	0.00
2	t	Dalapon		0.234	0.193	17.5#	84	0.00
3	s	DCAA (surrogate)		0.184	0.182	1.1	100	0.00
4	t	Dicamba		0.568	0.533	6.2	98	0.00
5	t	MCPP		0.00048	0.00050	-4.2	109	0.00
6	t	MCPA		0.00087	0.00088	-1.1	102	0.00
7	t	Dichloroprop		0.175	0.183	-4.6	107	0.00
8	t	2,4-D		0.213	0.205	3.8	101	0.00
9	t	2,4,5-TP (Silvex)		0.772	0.759	1.7	101	0.00
10	t	2,4,5-T		0.792	0.804	-1.5	106	0.00
11	t	2,4-DB		0.116	0.115	0.9	103	0.00
12	t	Dinoseb		0.590	0.602	-2.0	104	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	105	0.00
2	t	Dalapon		0.202	0.190	5.9	90	0.00
3	s	DCAA (surrogate)		0.189	0.186	1.6	101	0.00
4	t	Dicamba		0.534	0.512	4.1	99	0.00
5	t	MCPP		0.00053	0.00053	0.0	106	0.00
6	t	MCPA		0.00095	0.00093	2.1	101	0.00
7	t	Dichloroprop		0.173	0.184	-6.4	108	0.00
8	t	2,4-D		0.222	0.217	2.3	101	0.00
9	t	2,4,5-TP (Silvex)		0.776	0.762	1.8	100	0.00
10	t	2,4,5-T		0.768	0.760	1.0	102	0.00
11	t	2,4-DB		0.126	0.122	3.2	100	0.00
12	t	Dinoseb		0.490	0.500	-2.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1975124,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.435	8.434	1387.4E6	1712.5E6	0.250M3	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.898	7.363	189.4E6	239.0E6	0.185M4	0.184M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	37.00%	36.80%
		Target Compounds						
2)	t	Dalapon	2.323	2.319	195.2E6	237.3E6	0.151M3	0.172M4
4)	t	Dicamba	7.074	7.541	556.4E6	659.8E6	0.177M4	0.181M3
5)	t	MCPP	7.274	7.654	52572878	68048496	19.591M4	18.916M4
6)	t	MCPA	7.421	7.880	90927411	118.5E6	18.833M4	18.150M4
7)	t	Dichloroprop	7.780	8.200	191.4E6	236.7E6	0.197M4	0.200M3
8)	t	2,4-D	8.001	8.477	213.4E6	279.6E6	0.181M3	0.184M4
9)	t	2,4,5-TP (Si	8.711	9.135	800.6E6	991.2E6	0.187M4	0.187M4
10)	t	2,4,5-T	8.939	9.426	848.2E6	989.7E6	0.193M4	0.188M4
11)	t	2,4-DB	9.349	9.788	122.7E6	160.1E6	0.191M4	0.186M4
12)	t	Dinoseb	10.085	10.010	634.3E6	650.9E6	0.194M4	0.194M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

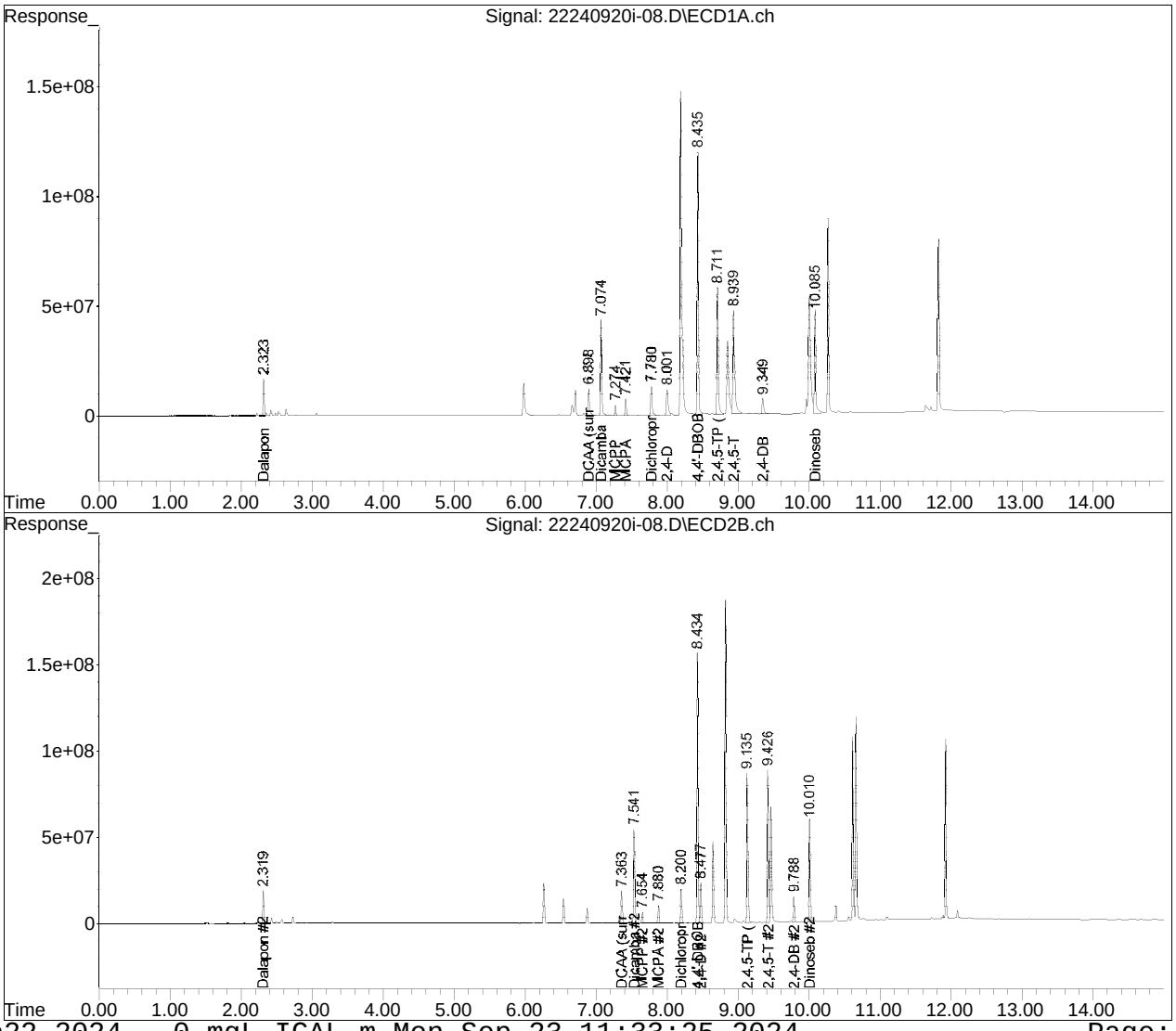
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

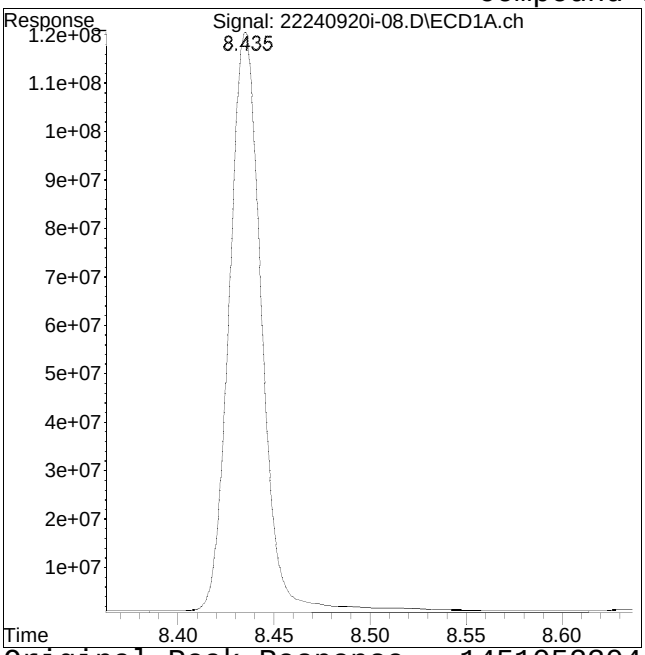
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

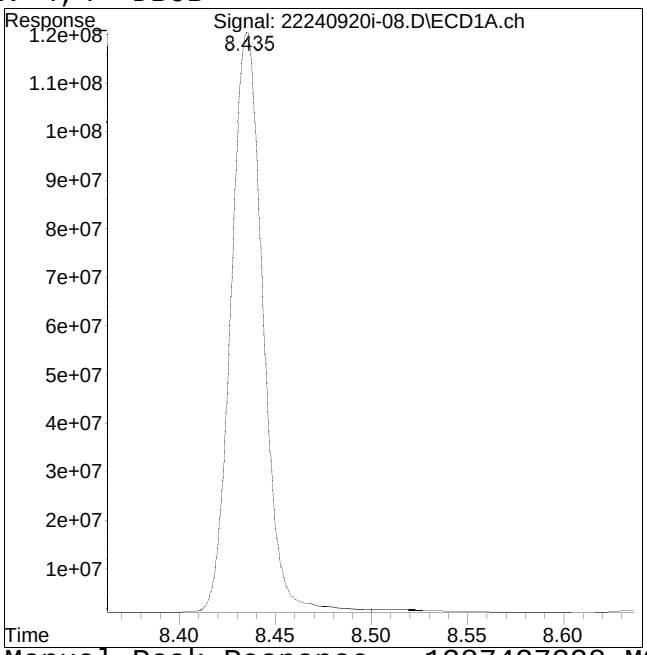


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #1: 4,4'-DBOB



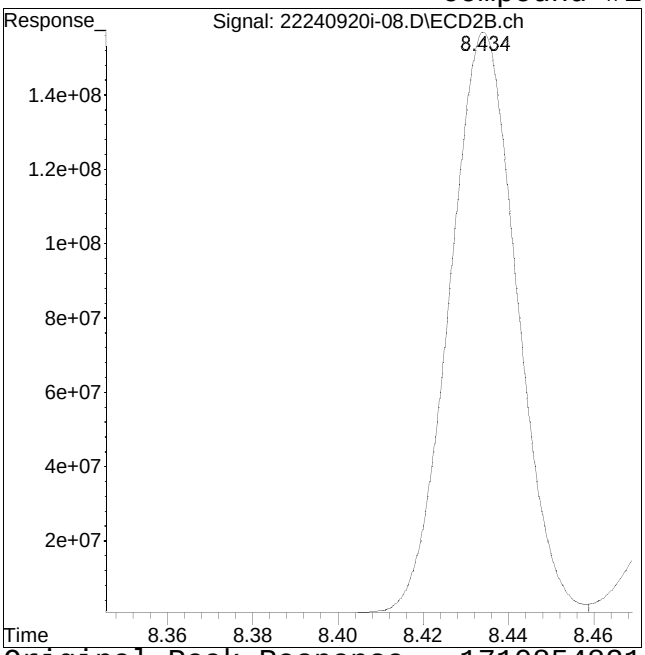


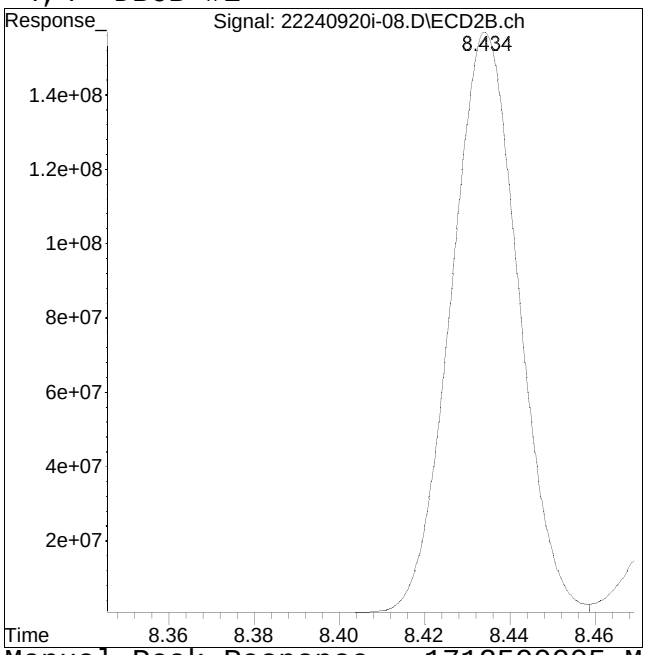
Original Peak Response = 1451052304 Manual Peak Response = 1387427328 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #14: 4,4'-DBOB #2



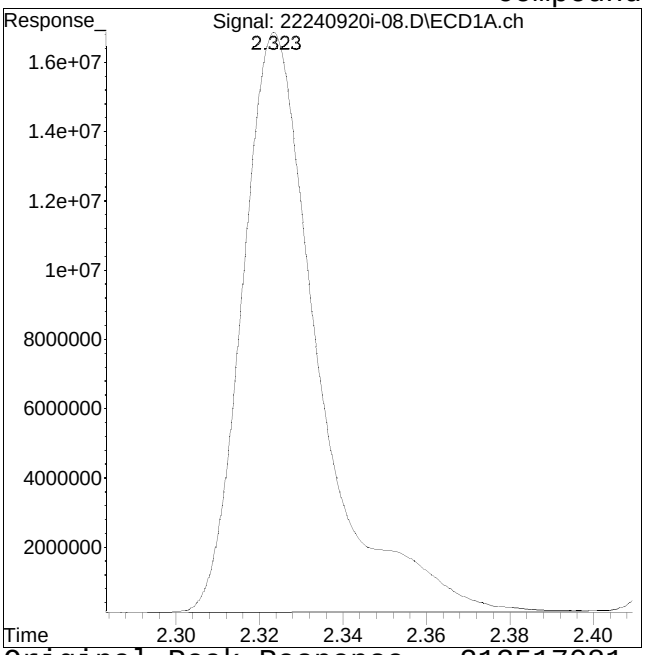


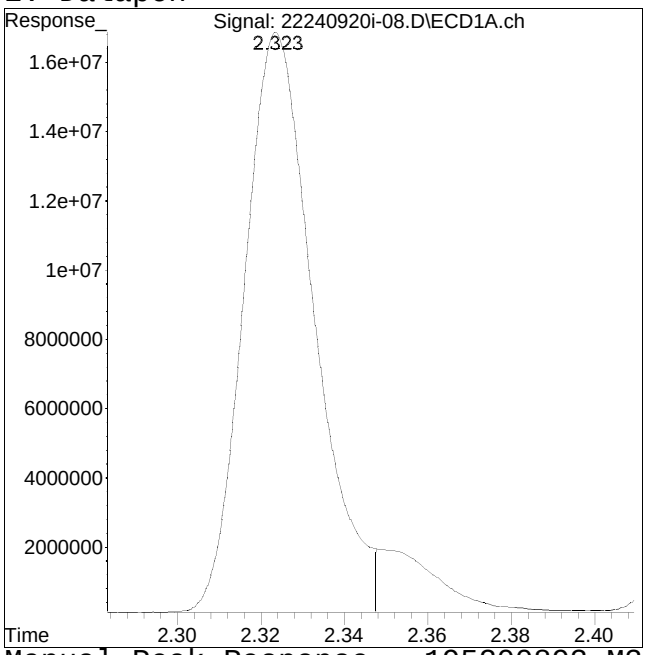
Original Peak Response = 1710854821 Manual Peak Response = 1712500005 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #2: Dalapon



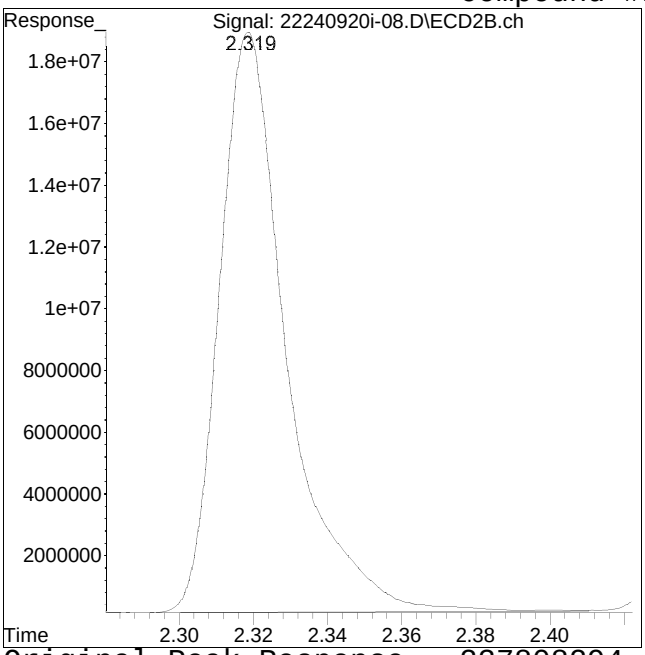


Original Peak Response = 213517081 Manual Peak Response = 195200893 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

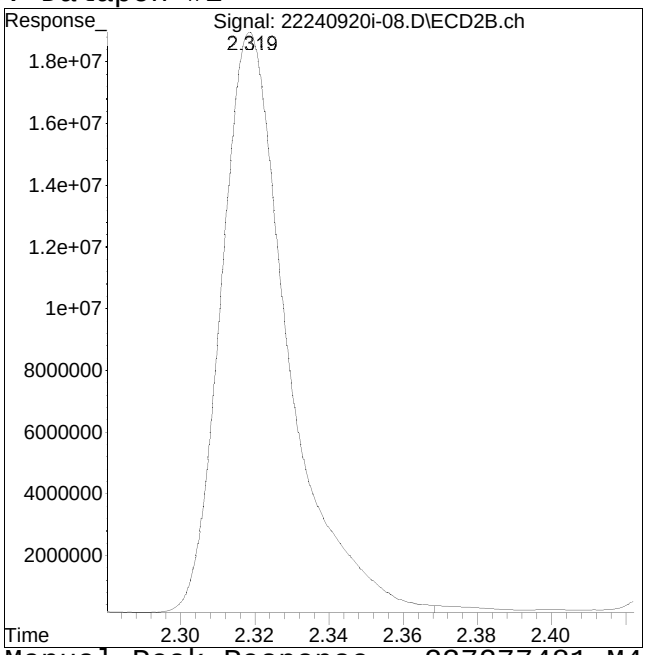
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #15: Dalapon #2



Original Peak Response = 237808294



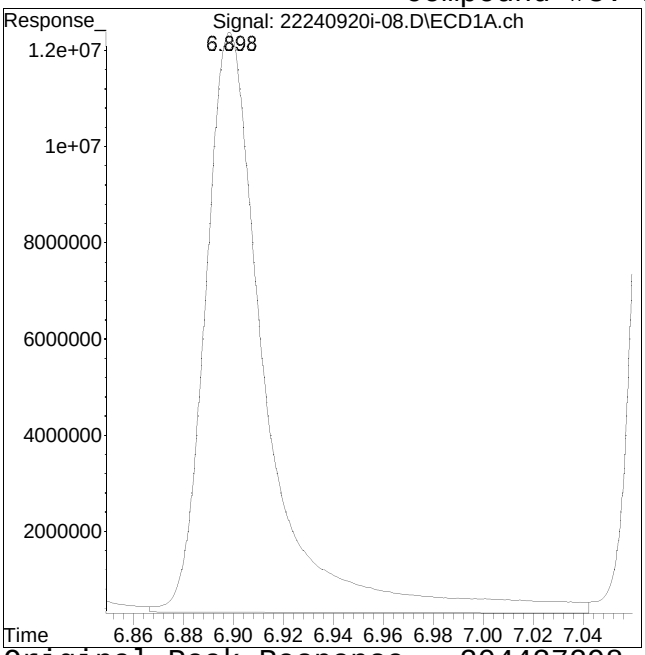
Manual Peak Response = 237277481 M4

M4 = Poor automated baseline construction.

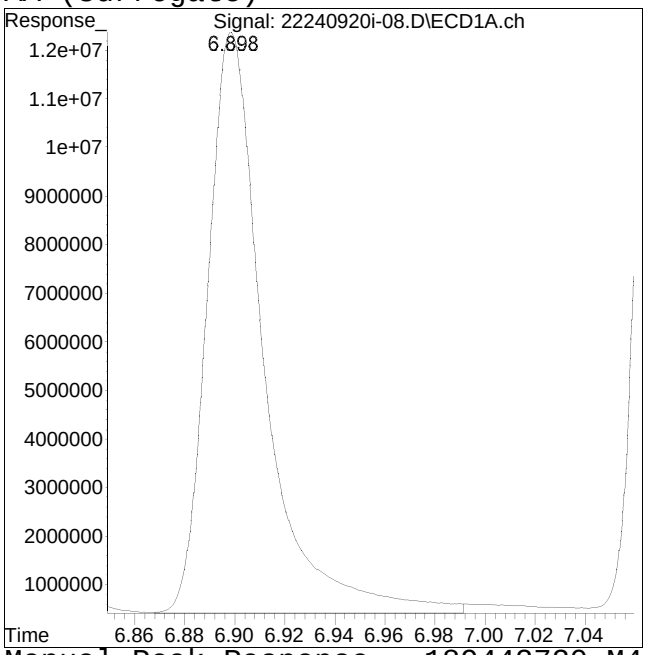
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #3: DCAA (surrogate)



Original Peak Response = 204437298

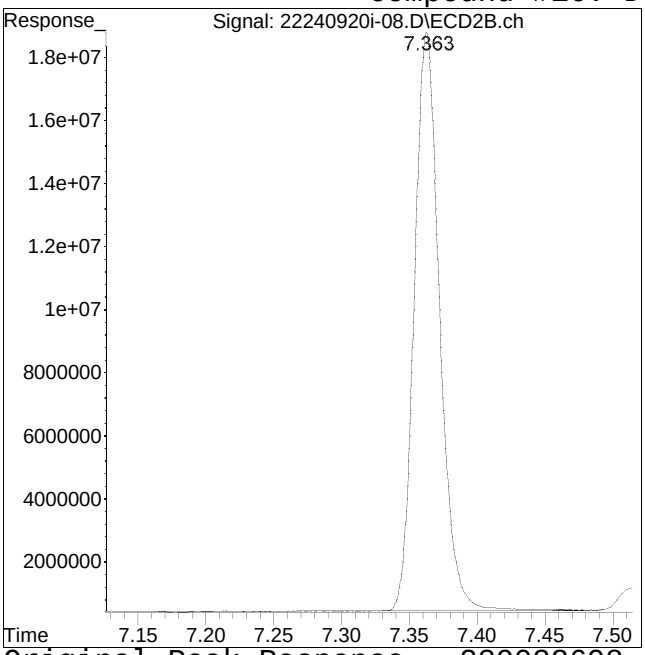


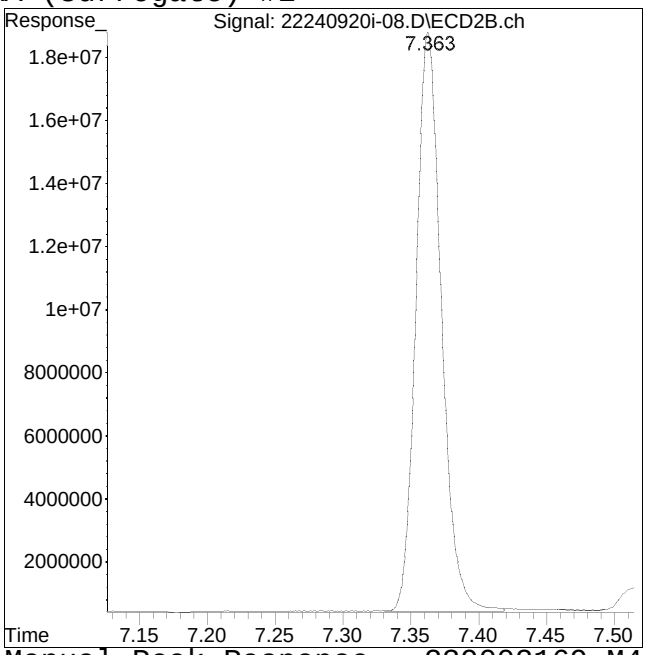
Manual Peak Response = 189442720 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #16: DCAA (surrogate) #2



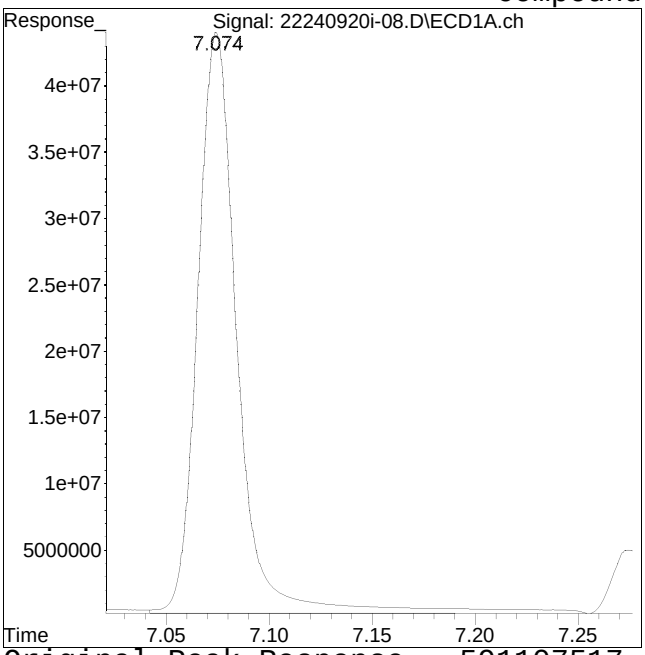


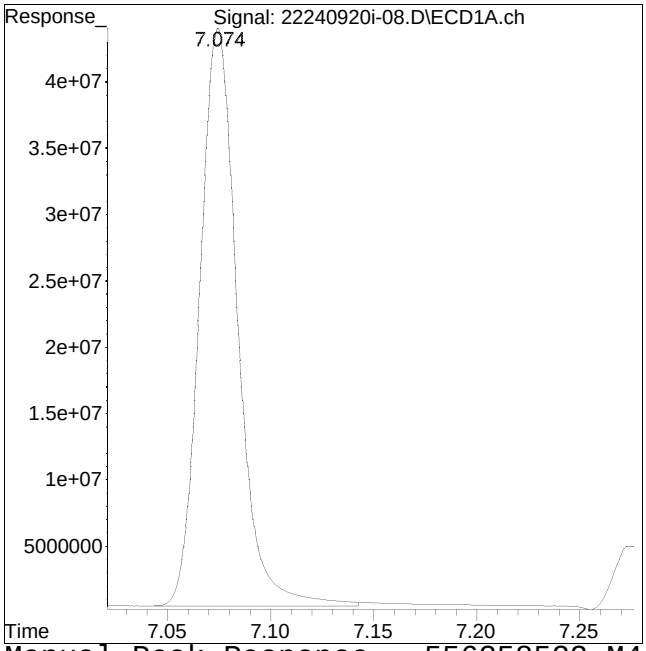
Original Peak Response = 239022698 Manual Peak Response = 239002169 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #4: Dicamba



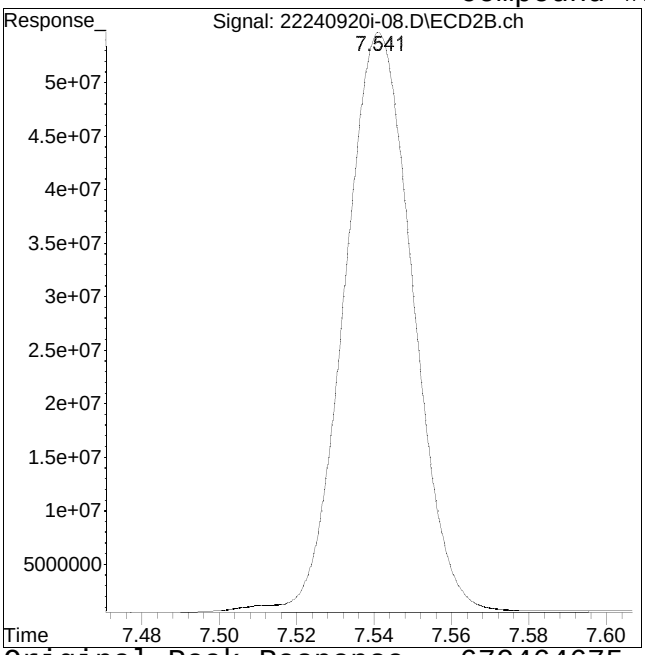


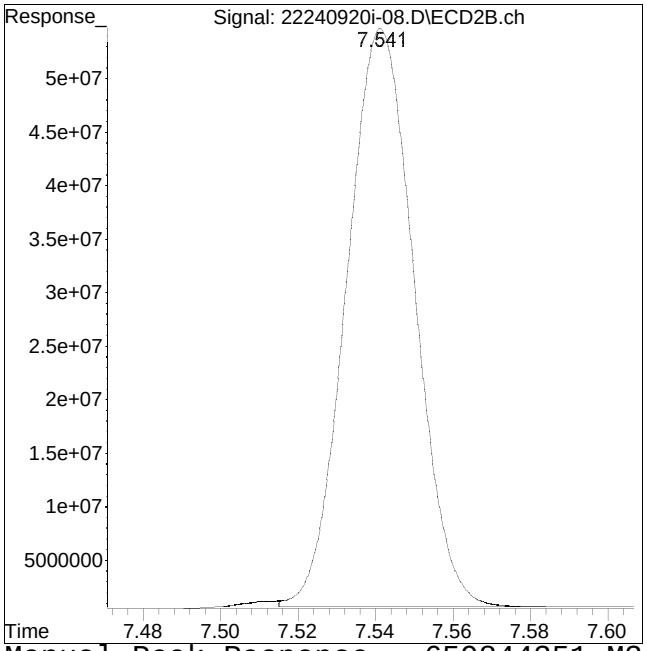
Original Peak Response = 591107517 Manual Peak Response = 556358522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #17: Dicamba #2



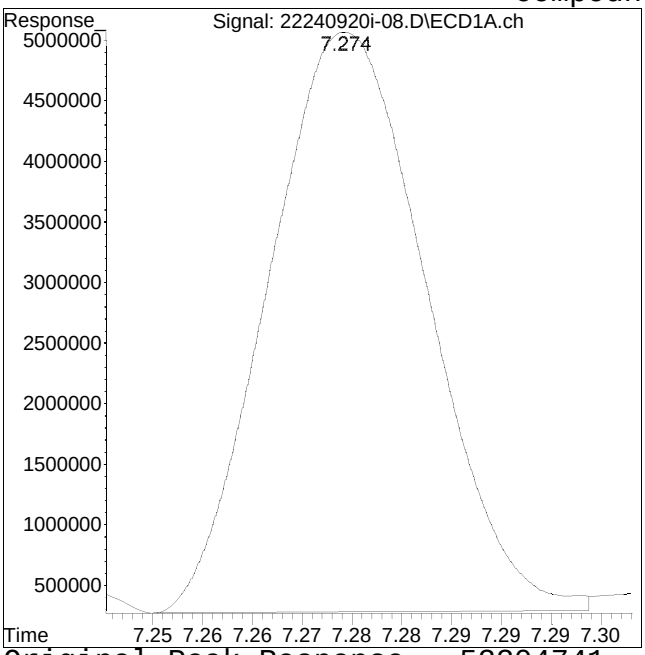


Original Peak Response = 670464675 Manual Peak Response = 659844351 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

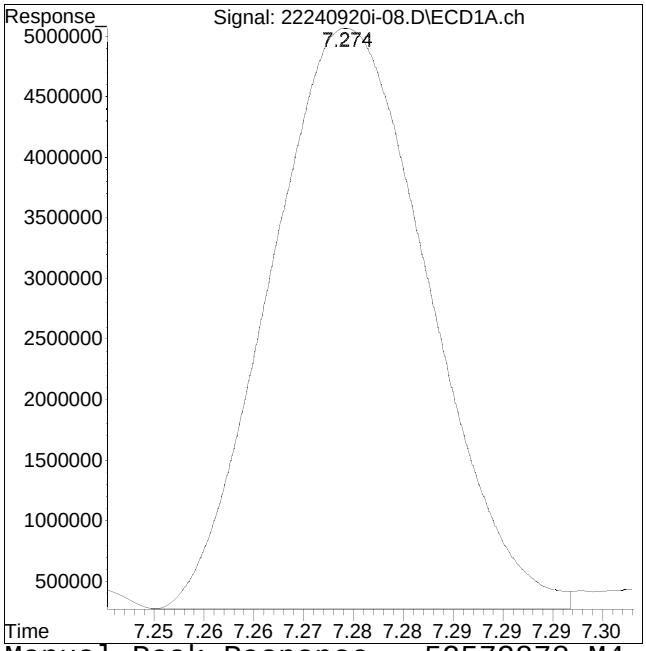
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #5: MCPP



Original Peak Response = 52304741



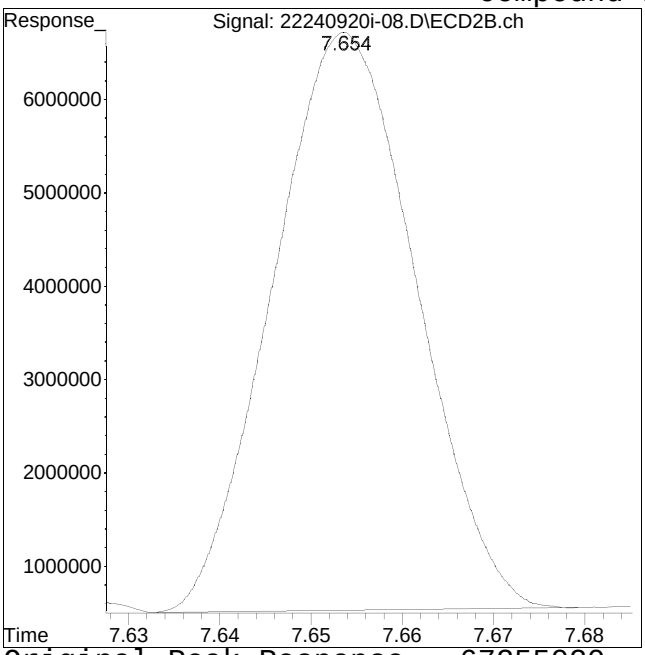
Manual Peak Response = 52572878 M4

M4 = Poor automated baseline construction.

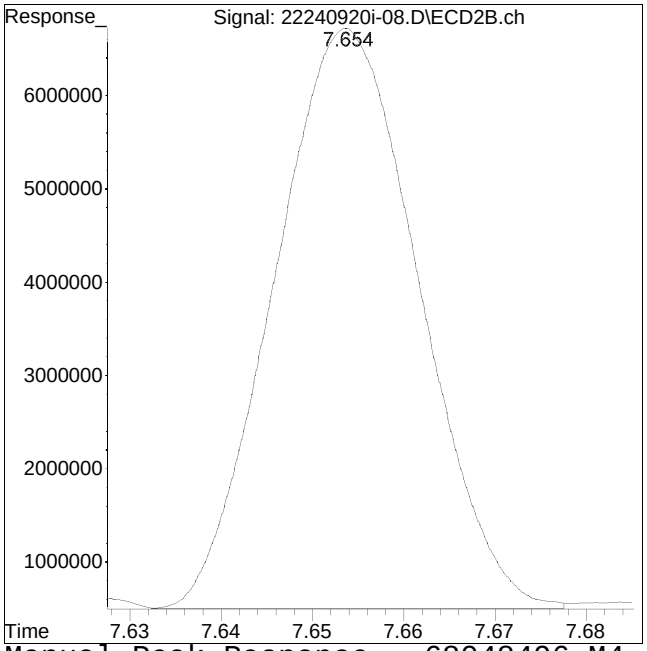
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #18: MCPP #2



Original Peak Response = 67255020



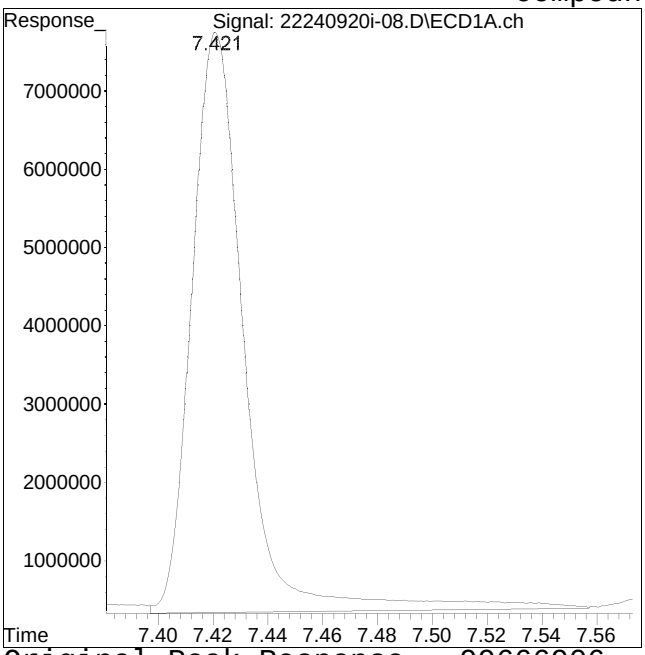
Manual Peak Response = 68048496 M4

M4 = Poor automated baseline construction.

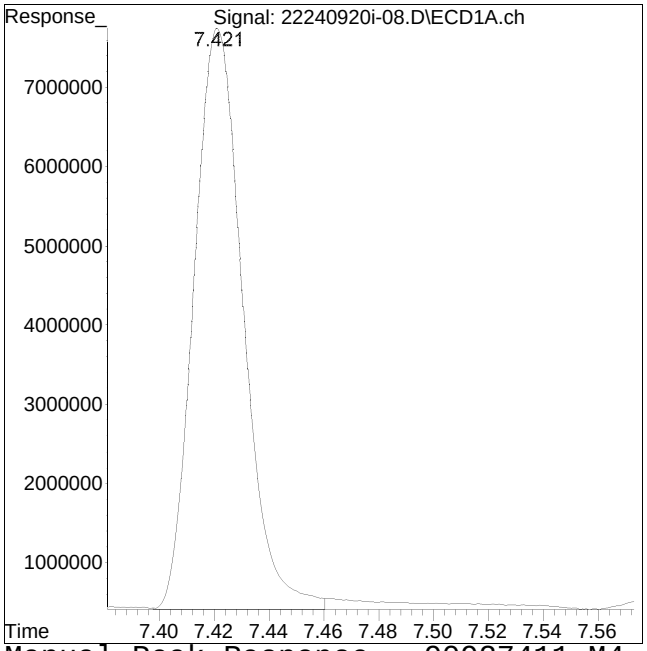
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #6: MCPA



Original Peak Response = 99666906



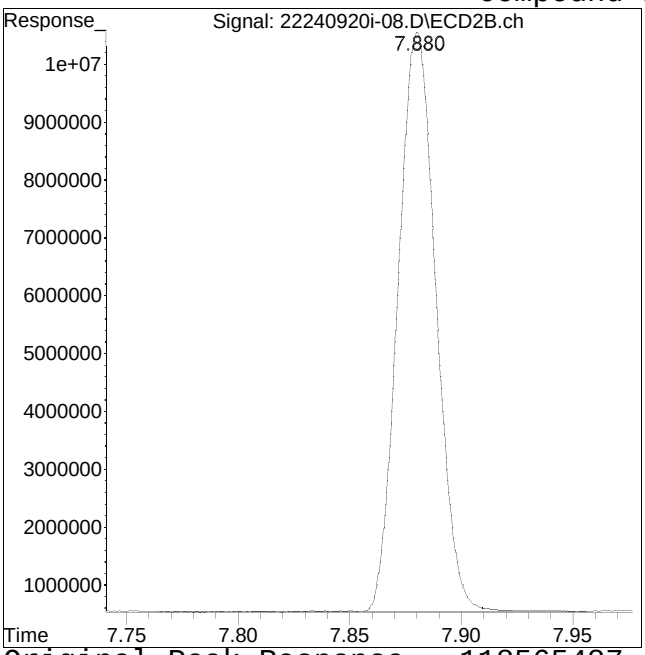
Manual Peak Response = 90927411 M4

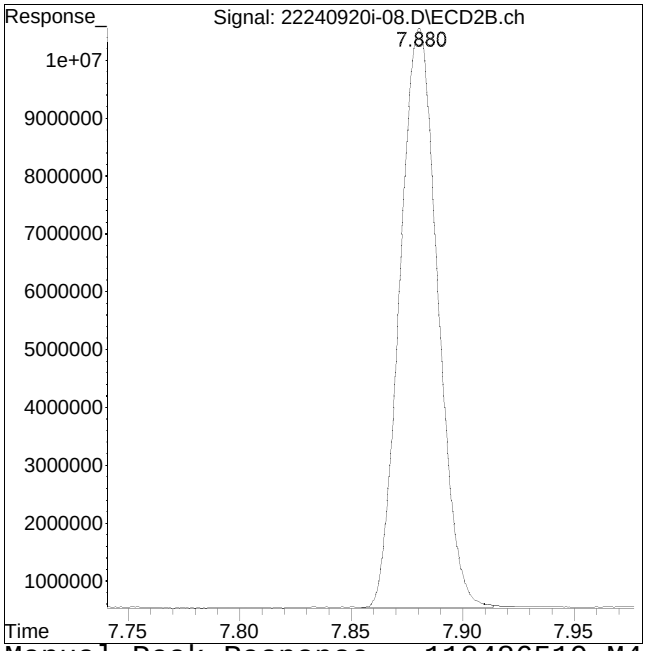
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #19: MCPA #2



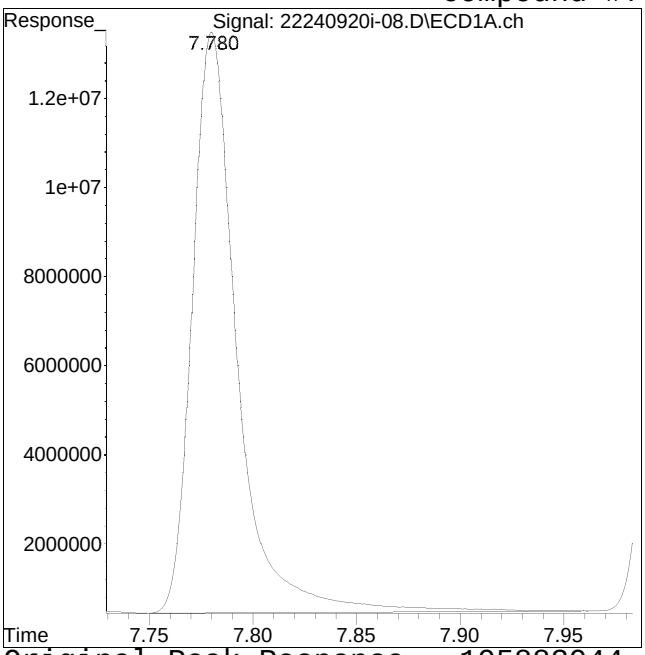


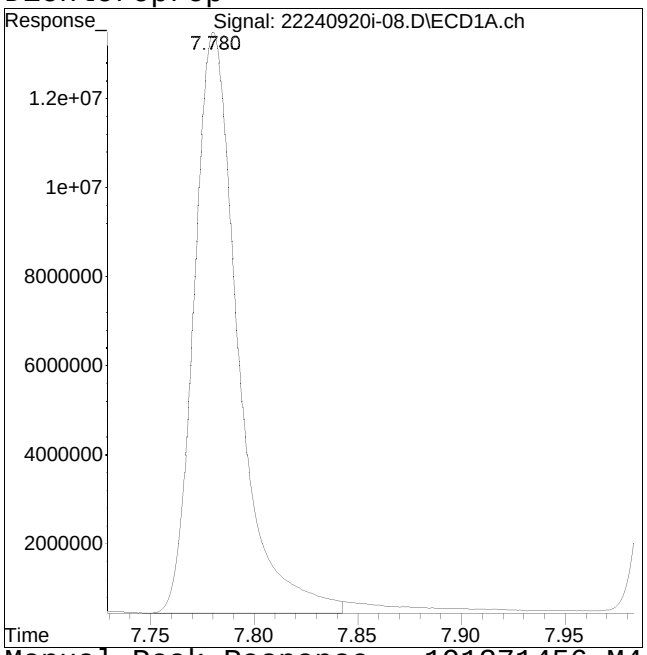
Original Peak Response = 118565487 Manual Peak Response = 118486510 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #7: Dichloroprop



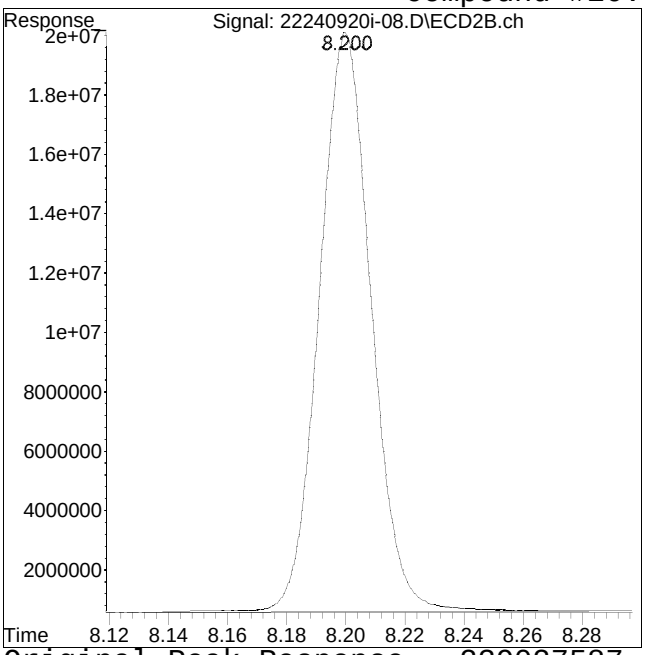


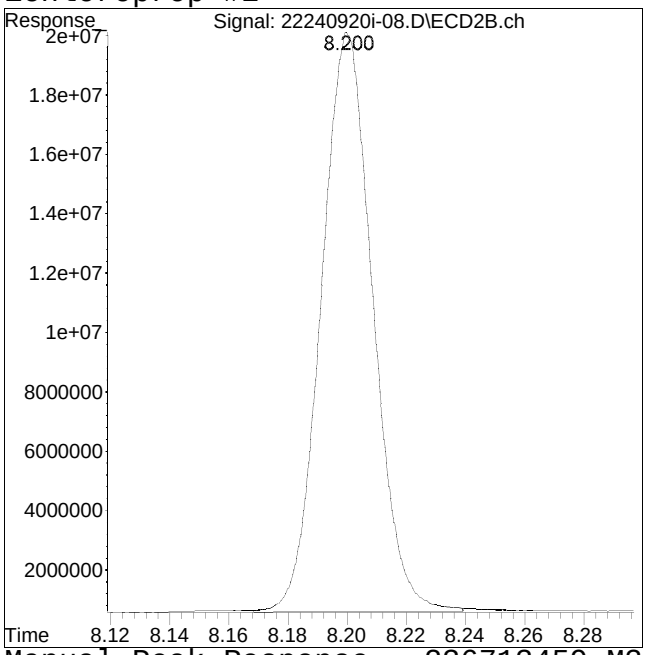
Original Peak Response = 195883944 Manual Peak Response = 191371456 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920Q
Data File : 22240920i-08.D
Date Inj'd : 9/20/2024 1:34 pm
Sample : cicv,42e,,pp 11634 L0.2/20
Method : Herb22_2024_09_20_mgL_IC
Operator : pest22:akm
Instrument : Pest22
Quant Date : 9/23/2024 11:28 am

Compound #20: Dichloroprop #2



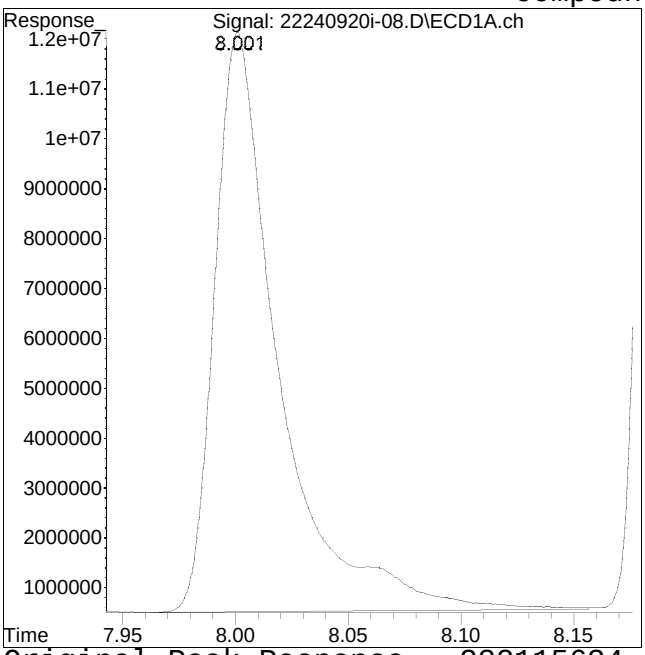


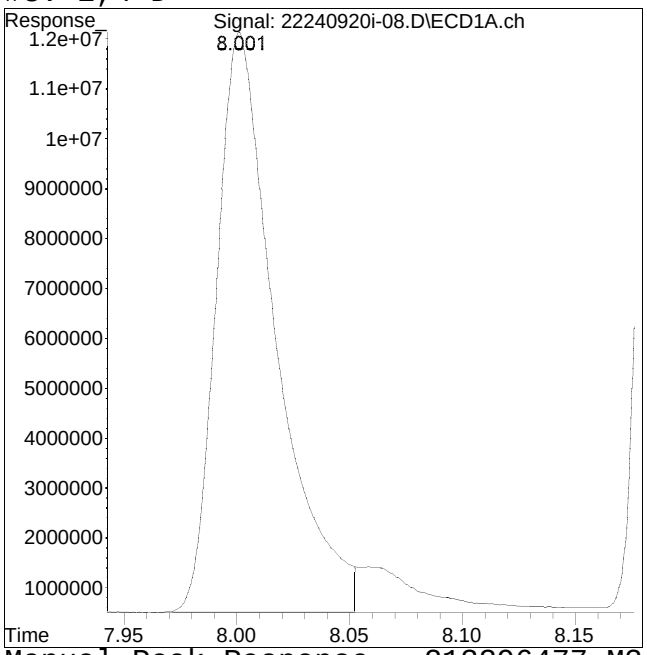
Original Peak Response = 239027587 Manual Peak Response = 236713459 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #8: 2,4-D



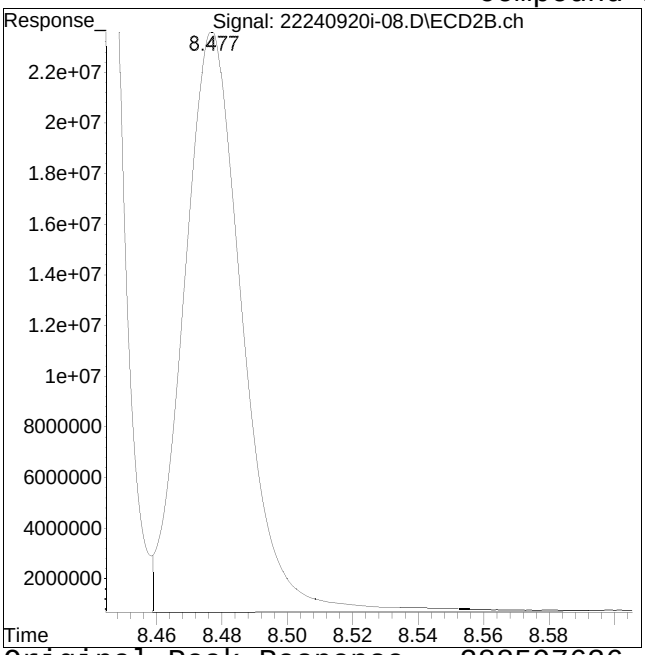


Original Peak Response = 232115634 Manual Peak Response = 213396477 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

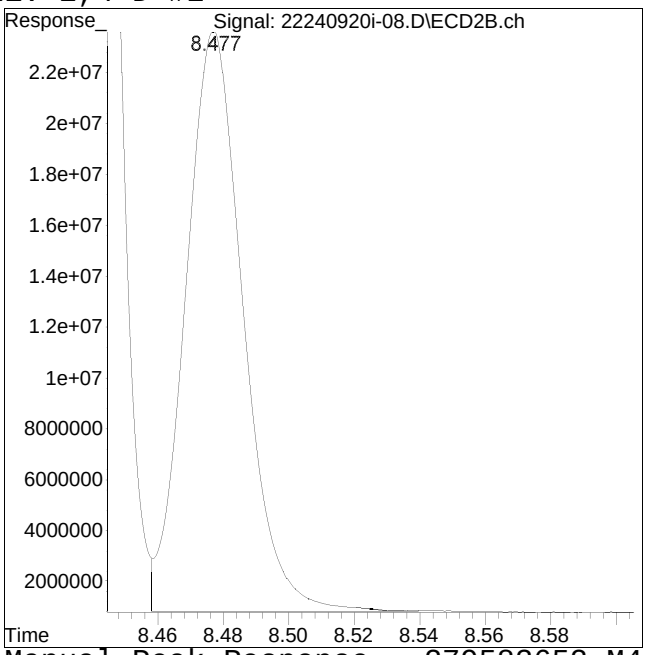
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #21: 2,4-D #2



Original Peak Response = 288597636



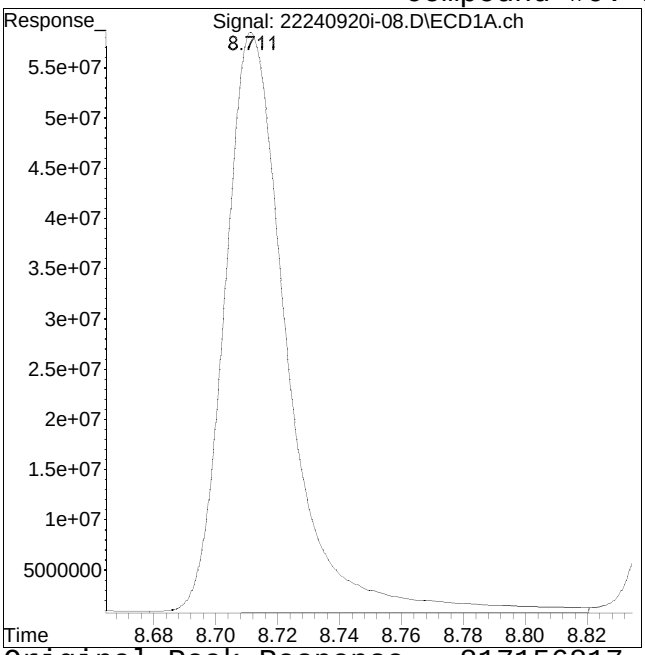
Manual Peak Response = 279583652 M4

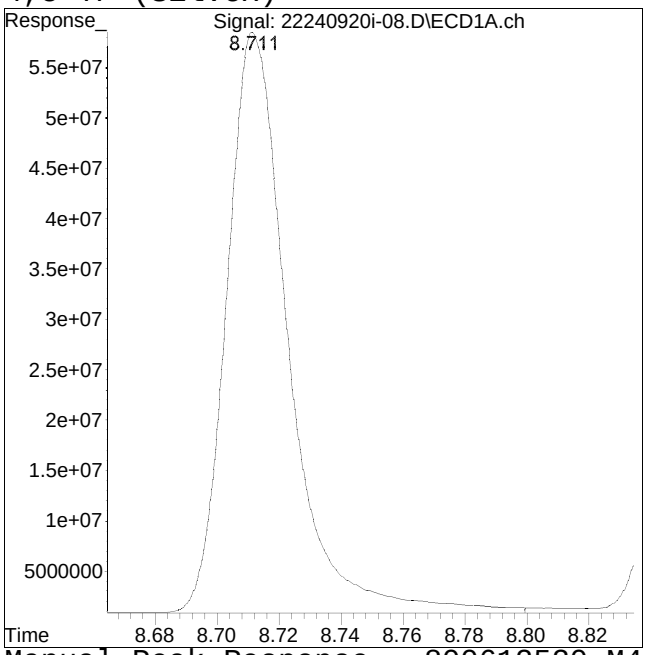
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #9: 2,4,5-TP (Silvex)



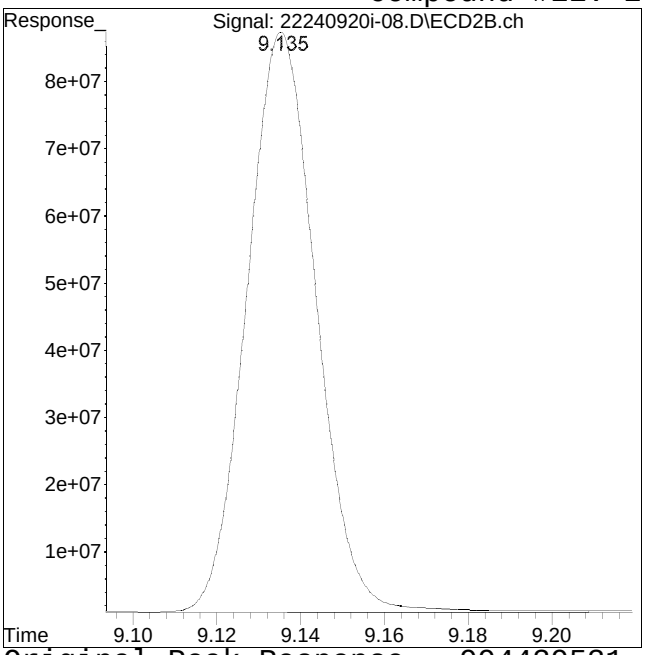


Original Peak Response = 817156817 Manual Peak Response = 800612520 M4
M4 = Poor automated baseline construction.

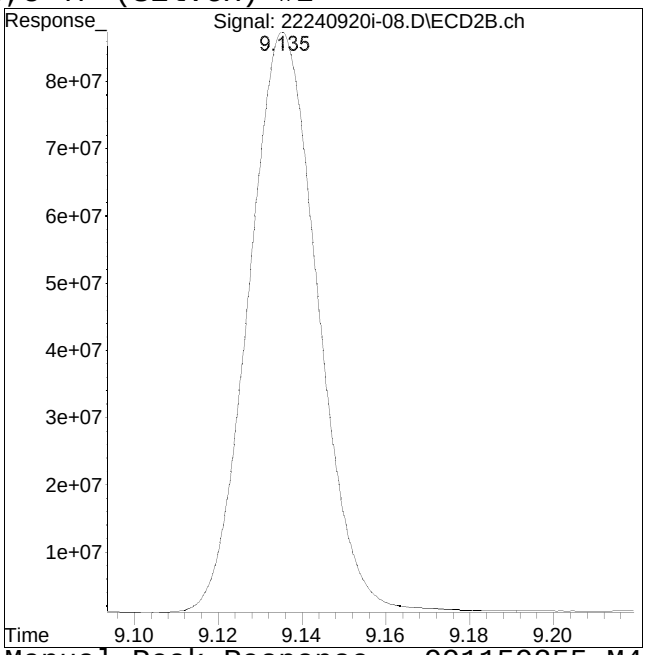
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 994439531



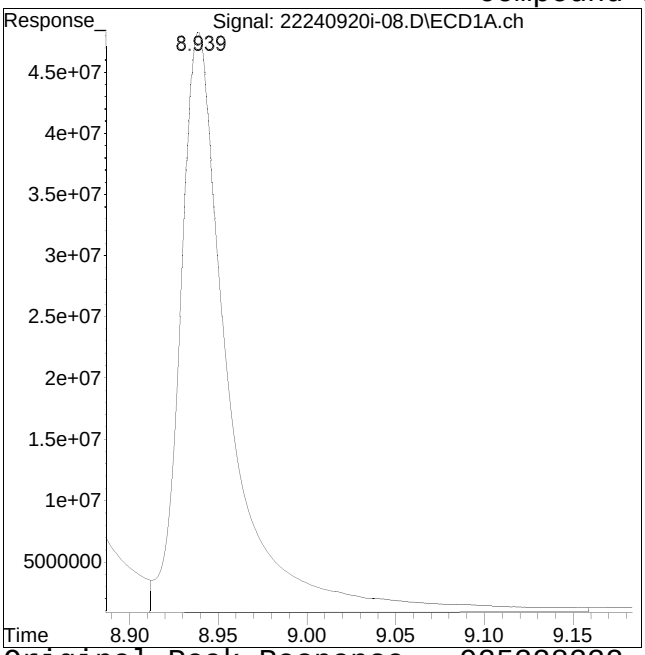
Manual Peak Response = 991159255 M4

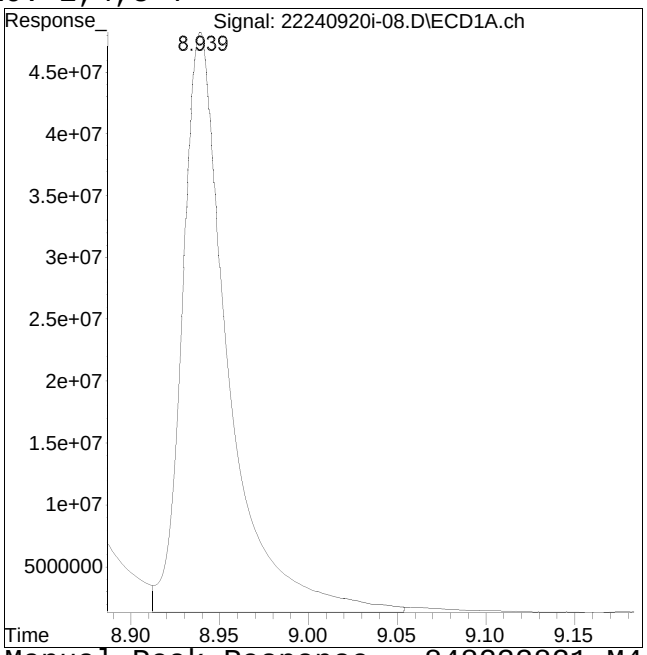
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #10: 2,4,5-T



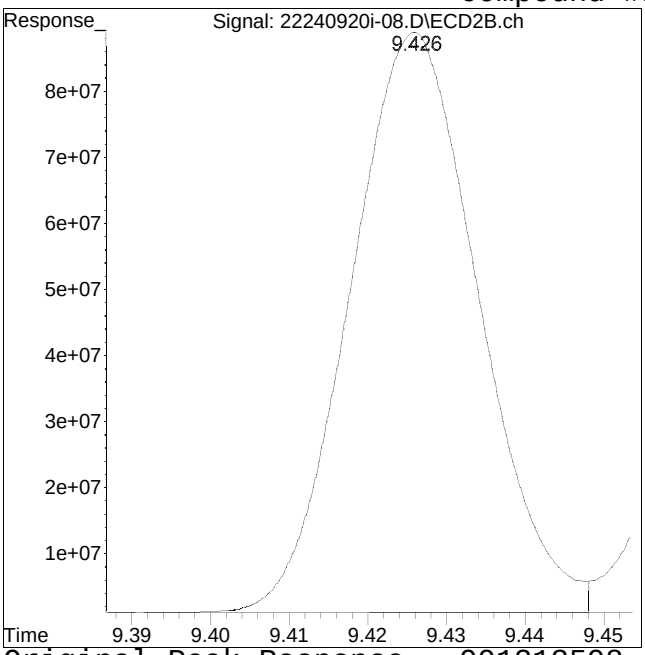


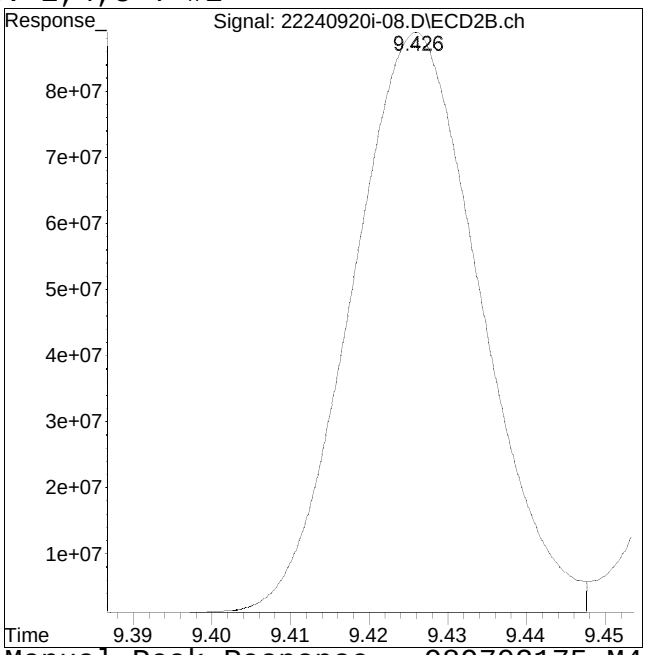
Original Peak Response = 925328332 Manual Peak Response = 848233821 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #23: 2,4,5-T #2



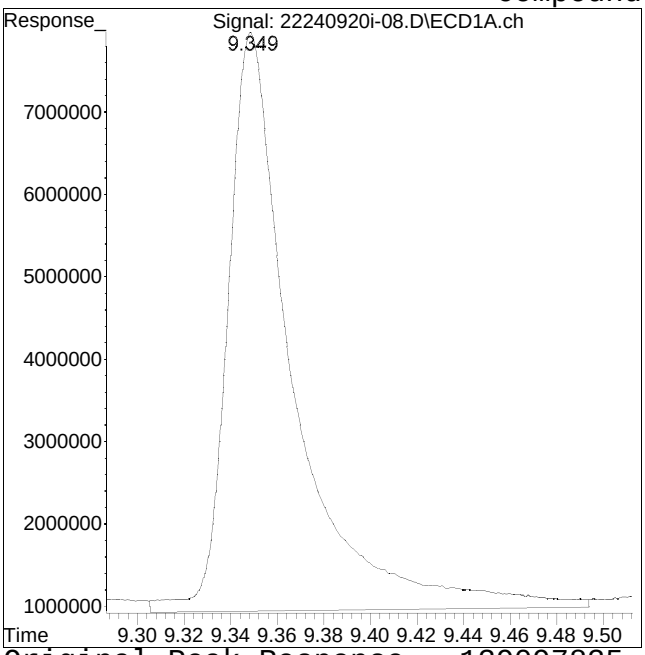


Original Peak Response = 991313598 Manual Peak Response = 989702175 M4
M4 = Poor automated baseline construction.

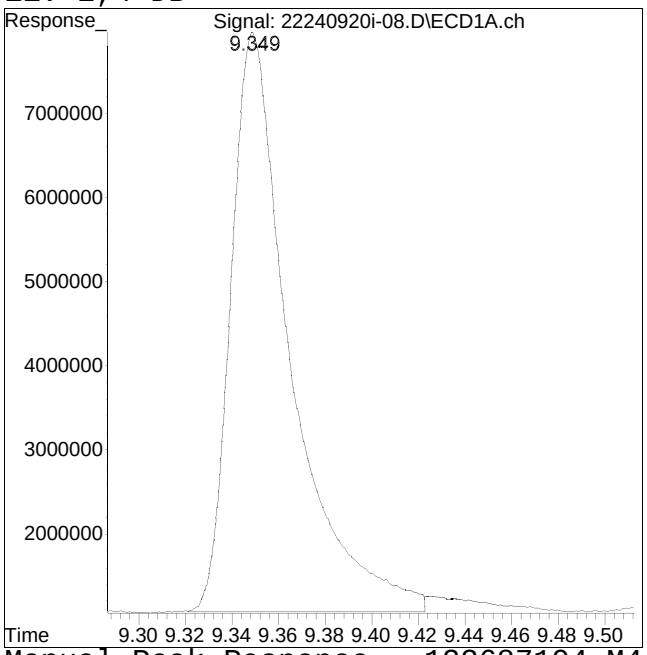
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #11: 2,4-DB



Original Peak Response = 139097835

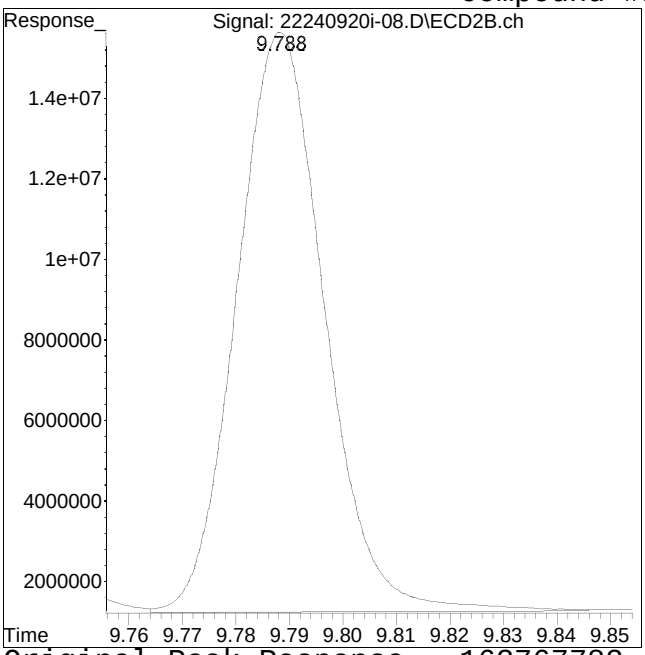


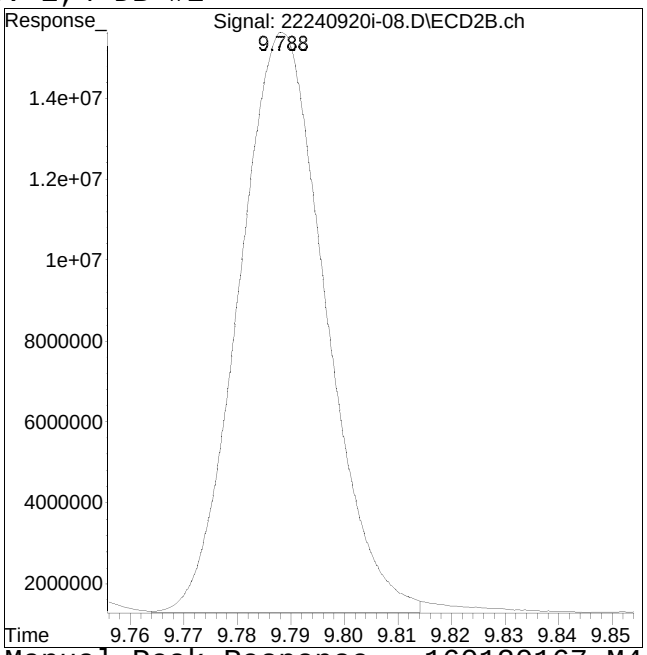
Manual Peak Response = 122687194 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #24: 2,4-DB #2



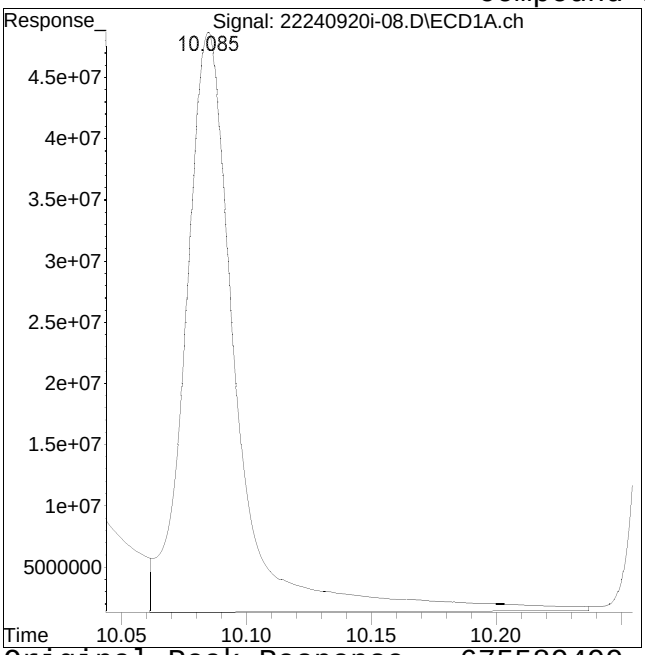


Original Peak Response = 163767782 Manual Peak Response = 160120167 M4
M4 = Poor automated baseline construction.

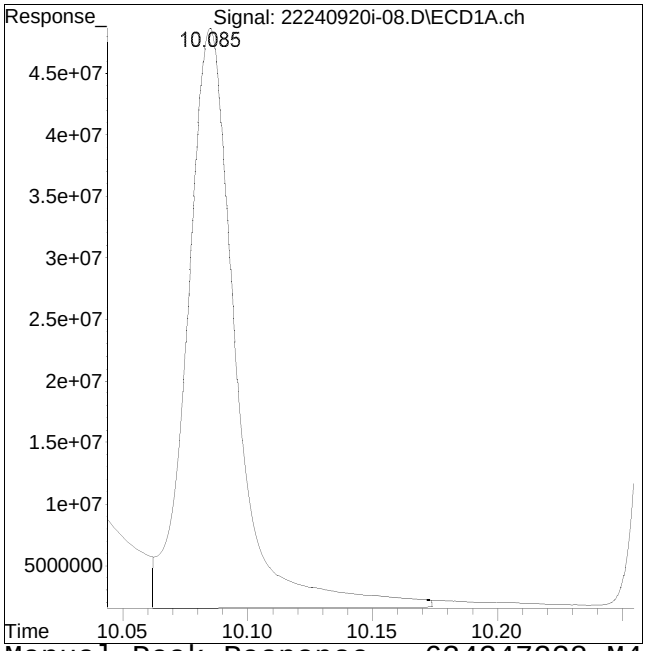
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #12: Dinoseb



Original Peak Response = 675589499

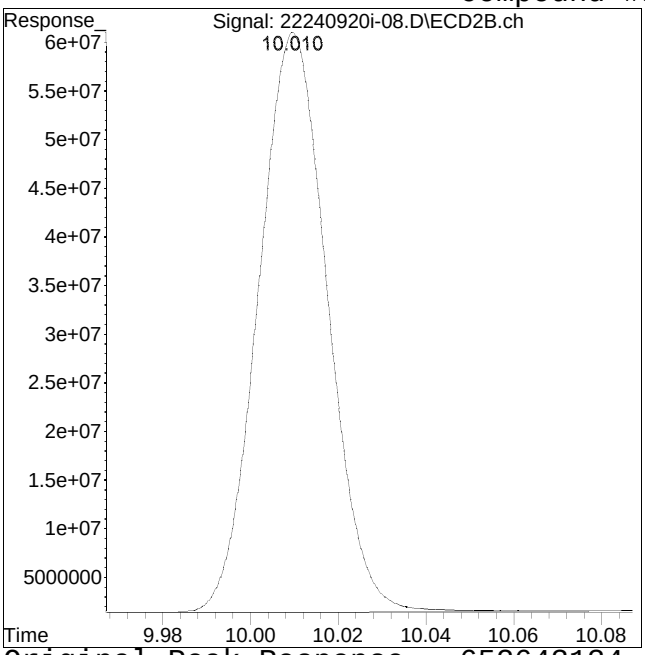


Manual Peak Response = 634347238 M4
M4 = Poor automated baseline construction.

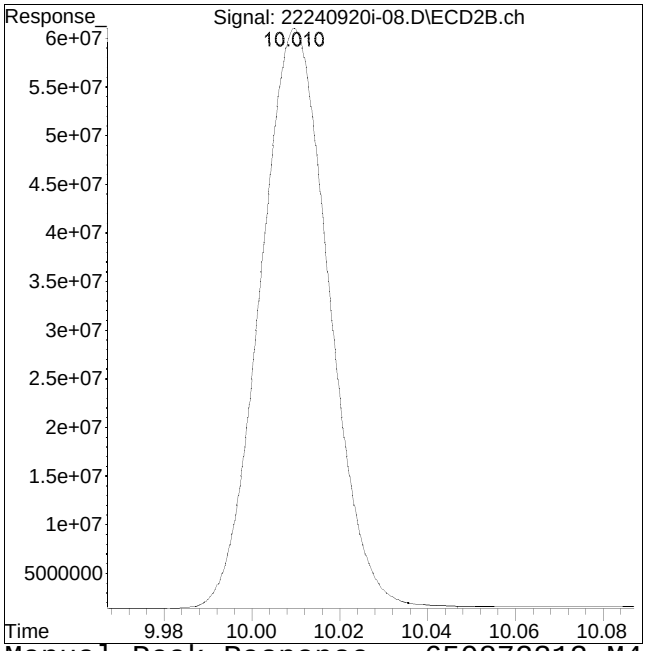
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #25: Dinoseb #2



Original Peak Response = 652643134



Manual Peak Response = 650872313 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 09/27/24 00:01		
Lab File ID	: 22240926a-53	**Init. Calib. Date(s)**	: 09/20/24	09/20/24	
Sample No	: WG1976540-5	**Init. Calib. Times**	: 11:42	13:15	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	108	0
Dalapon	0.234	0.219	-	6.4	15	97	0
DCAA (surrogate)	0.184	0.201	-	-9.2	15	113	0
Dicamba	0.568	0.6	-	-5.6	15	113	0
MCPP	0.00048	0.00051	-	-6.3	15	112	0
MCPA	0.00087	0.00096	-	-10.3	15	113	0
Dichloroprop	0.175	0.187	-	-6.9	15	111	0
2,4-D	0.213	0.229	-	-7.5	15	116	0
2,4,5-TP (Silvex)	0.772	0.839	-	-8.7	15	114	0
2,4,5-T	0.792	0.867	-	-9.5	15	117	0
2,4-DB	0.116	0.125	-	-7.8	15	114	0
Dinoseb	0.59	0.58	-	1.7	15	103	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Calibration Date**	: 09/27/24 00:01
Lab File ID	: 22240926a-53	**Init. Calib. Date(s)**	: 09/20/24 09/20/24
Sample No	: WG1976540-5	**Init. Calib. Times**	: 11:42 13:15
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	112	0
Dalapon	0.202	0.19	-	5.9	15	96	0
DCAA (surrogate)	0.189	0.192	-	-1.6	15	111	0
Dicamba	0.534	0.55	-	-3	15	113	0
MCPP	0.00053	0.00054	-	-1.9	15	115	0
MCPA	0.00095	0.00099	-	-4.2	15	115	0
Dichloroprop	0.173	0.182	-	-5.2	15	114	0
2,4-D	0.222	0.234	-	-5.4	15	116	0
2,4,5-TP (Silvex)	0.776	0.821	-	-5.8	15	115	0
2,4,5-T	0.768	0.808	-	-5.2	15	116	0
2,4-DB	0.126	0.13	-	-3.2	15	114	0
Dinoseb	0.49	0.528	-	-7.8	15	117	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-53.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2024 00:01
Operator : pest22:akm
Sample   : wg1976540-5,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1976540,,ical21511
ALS Vial : 53   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:29:08 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	108	0.00
2	t	Dalapon		0.234	0.219	6.4	97	0.00
3	s	DCAA (surrogate)		0.184	0.201	-9.2	113	0.00
4	t	Dicamba		0.568	0.600	-5.6	113	0.00
5	t	MCPP		0.00048	0.00051	-6.3	112	0.00
6	t	MCPA		0.00087	0.00096	-10.3	113	0.00
7	t	Dichloroprop		0.175	0.187	-6.9	111	0.00
8	t	2,4-D		0.213	0.229	-7.5	116	0.00
9	t	2,4,5-TP (Silvex)		0.772	0.839	-8.7	114	0.00
10	t	2,4,5-T		0.792	0.867	-9.5	117	0.00
11	t	2,4-DB		0.116	0.125	-7.8	114	0.00
12	t	Dinoseb		0.590	0.580	1.7	103	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	112	0.00
2	t	Dalapon		0.202	0.190	5.9	96	0.00
3	s	DCAA (surrogate)		0.189	0.192	-1.6	111	0.00
4	t	Dicamba		0.534	0.550	-3.0	113	0.00
5	t	MCPP		0.00053	0.00054	-1.9	115	0.00
6	t	MCPA		0.00095	0.00099	-4.2	115	0.00
7	t	Dichloroprop		0.173	0.182	-5.2	114	0.00
8	t	2,4-D		0.222	0.234	-5.4	116	0.00
9	t	2,4,5-TP (Silvex)		0.776	0.821	-5.8	115	0.00
10	t	2,4,5-T		0.768	0.808	-5.2	116	0.00
11	t	2,4-DB		0.126	0.130	-3.2	114	0.00
12	t	Dinoseb		0.490	0.528	-7.8	117	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-53.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2024 00:01
Operator : pest22:akm
Sample   : wg1976540-5,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1976540,,ical21511
ALS Vial : 53   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:29:08 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-53.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 00:01
Operator : pest22:akm
Sample : wg1976540-5,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:29:08 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1420.2E6	1823.9E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.892	7.361	214.4E6	263.9E6	0.205M4	0.191M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	41.00%	38.20%
		Target Compounds						
2)	t	Dalapon	2.322	2.317	226.0E6	252.6E6	0.170M3	0.172M4
4)	t	Dicamba	7.073	7.541	640.9E6	754.5E6	0.199M4	0.194
5)	t	MCPP	7.275	7.654	54021223	73539686	19.666	19.194
6)	t	MCPA	7.421	7.881	101.2E6	134.7E6	20.484	19.374
7)	t	Dichloroprop	7.776	8.199	199.2E6	248.9E6	0.201	0.198
8)	t	2,4-D	7.989	8.476	244.2E6	321.5E6	0.202	0.199
9)	t	2,4,5-TP (Si	8.707	9.135	905.5E6	1137.8E6	0.206	0.201
10)	t	2,4,5-T	8.929	9.425	935.8E6	1120.5E6	0.208	0.200
11)	t	2,4-DB	9.335	9.787	136.3E6	182.2E6	0.207M4	0.199M4
12)	t	Dinoseb	10.085	10.010	625.6E6	731.4E6	0.186M4	0.205M4

SemiQuant Compounds - Not Calibrated on this Instrument

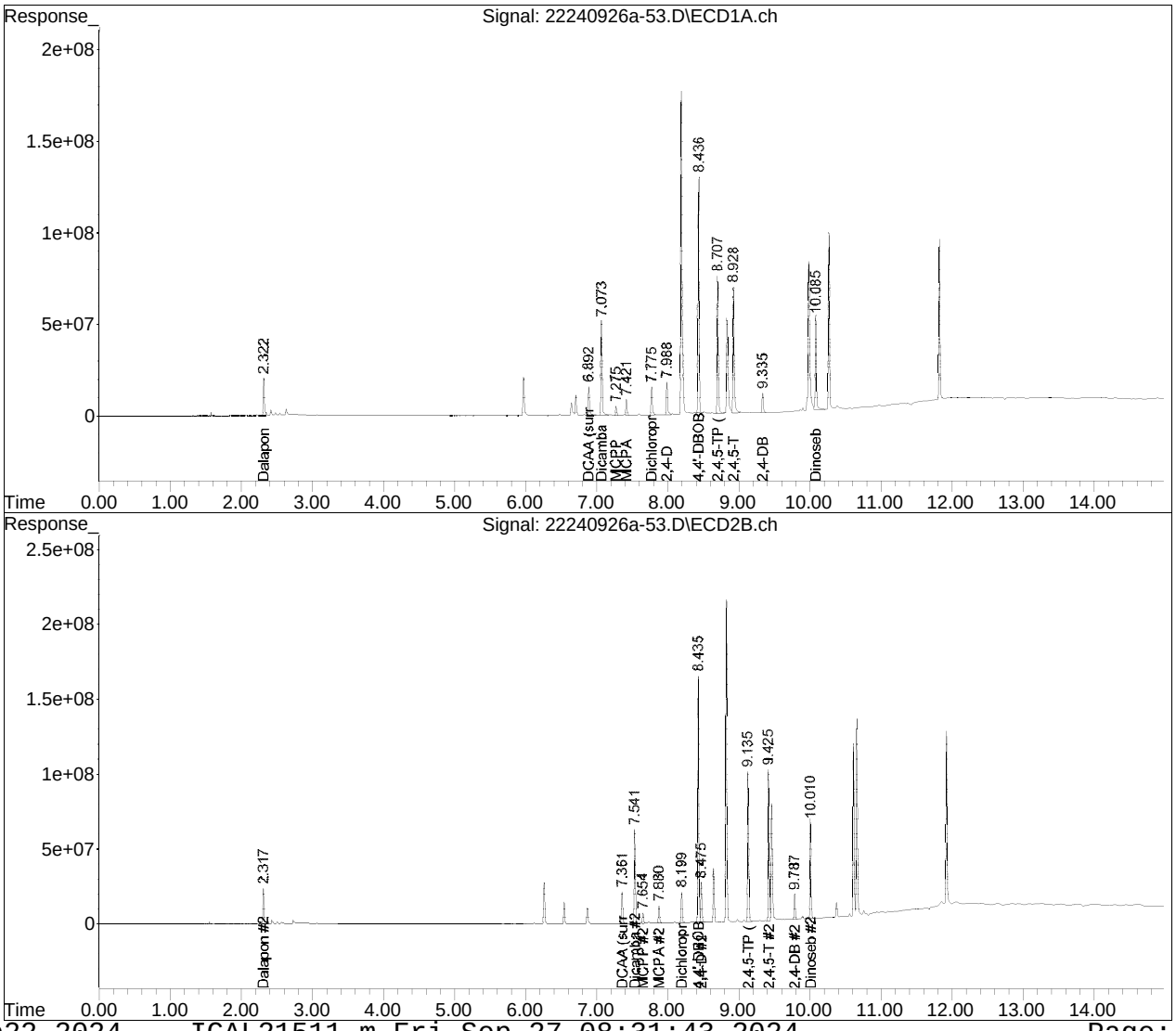
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-53.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 00:01
Operator : pest22:akm
Sample : wg1976540-5,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:29:08 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

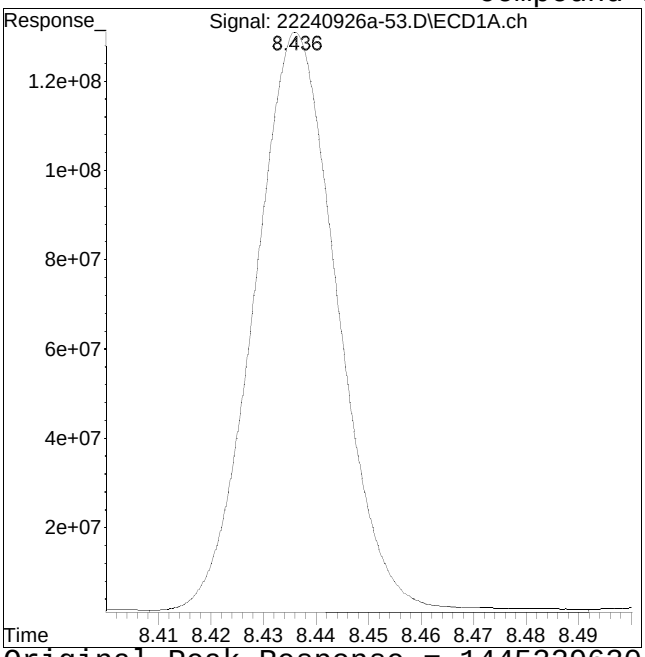
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

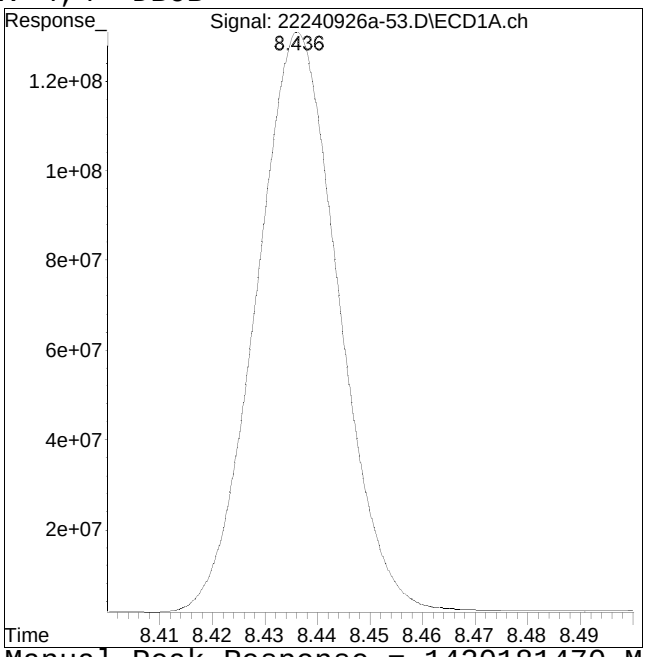


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #1: 4,4'-DBOB



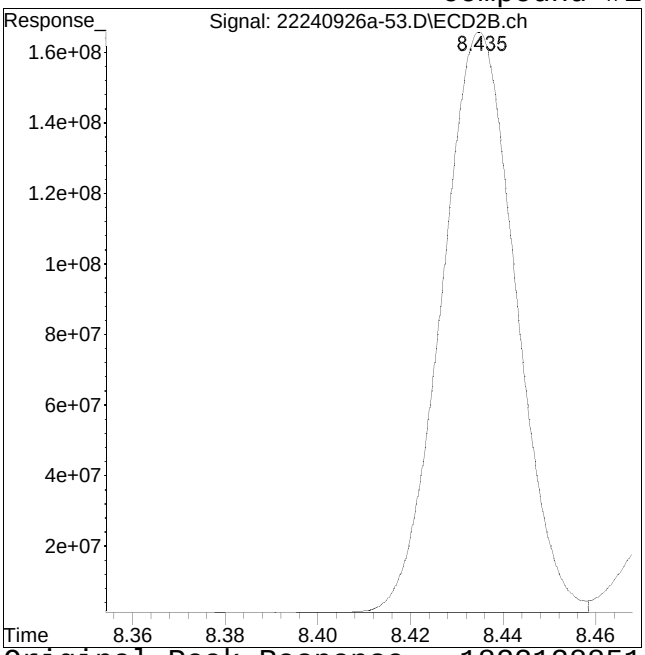


Original Peak Response = 1445329630 Manual Peak Response = 1420181470 M4
M4 = Poor automated baseline construction.

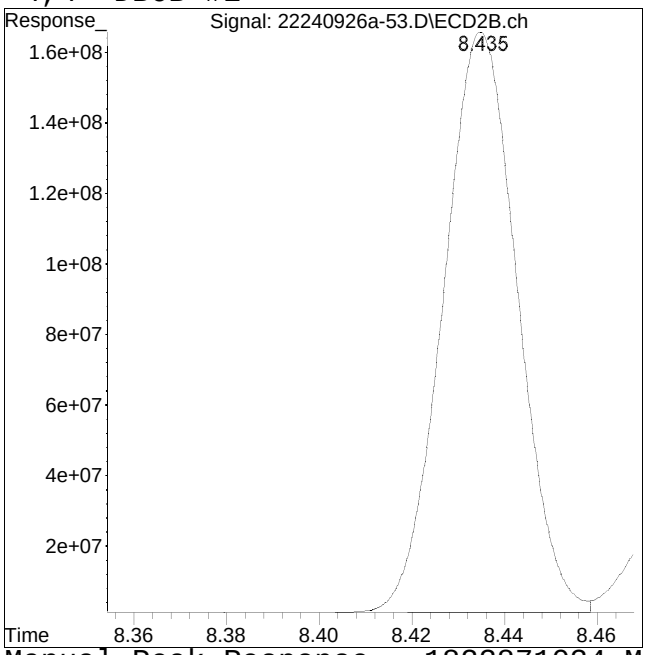
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 1822128851

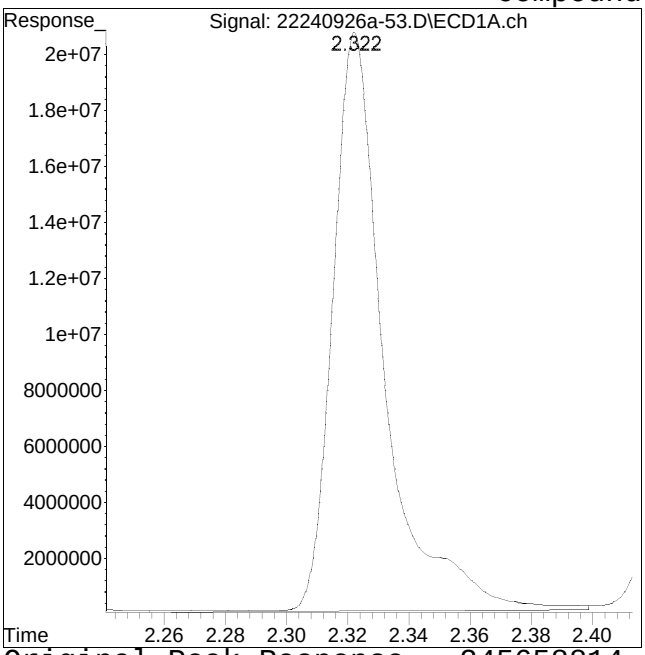


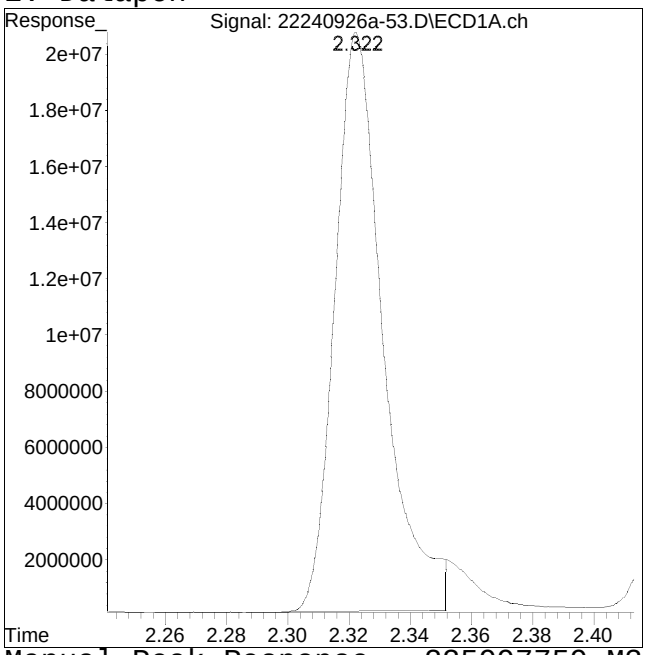
Manual Peak Response = 1823871034 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #2: Dalapon



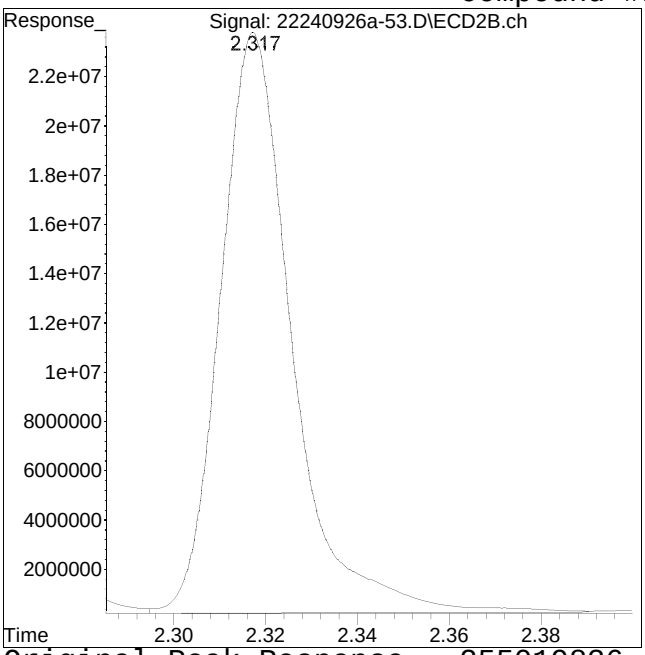


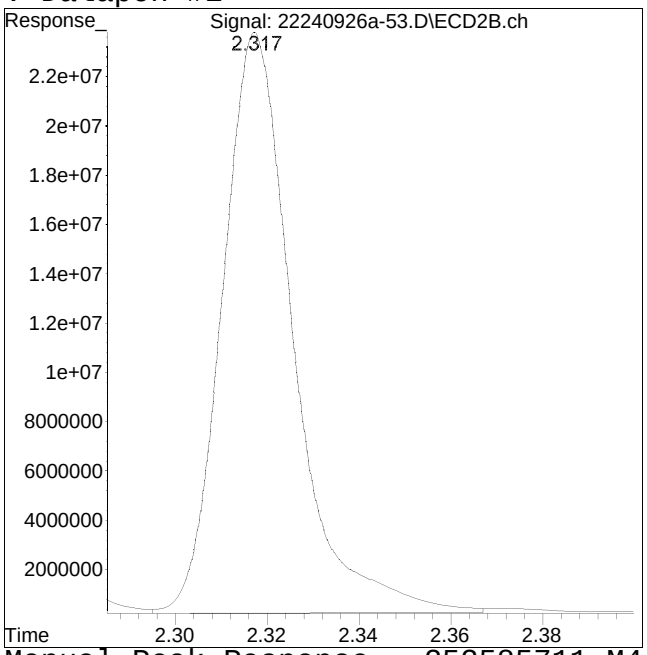
Original Peak Response = 245658814 Manual Peak Response = 225997759 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #15: Dalapon #2



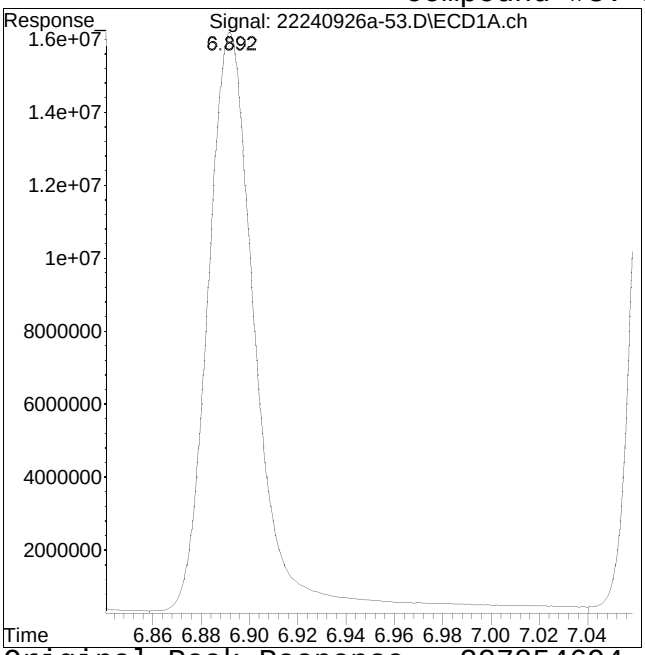


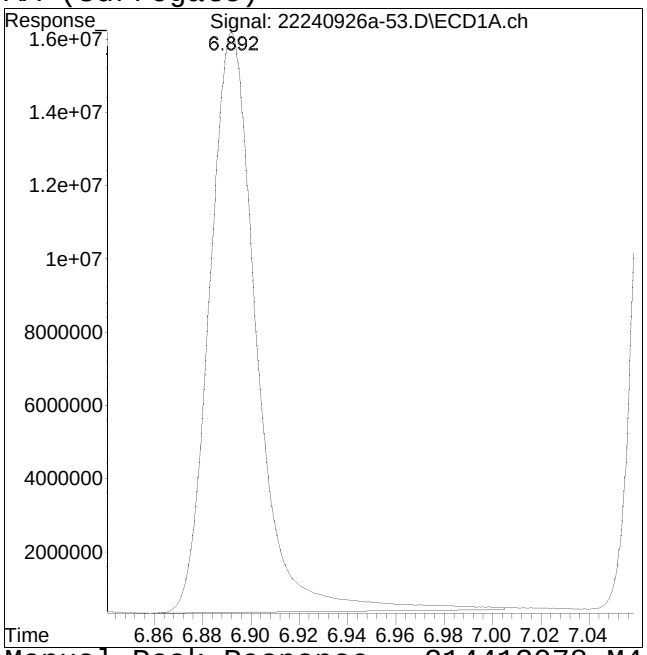
Original Peak Response = 255019836 Manual Peak Response = 252585711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #3: DCAA (surrogate)



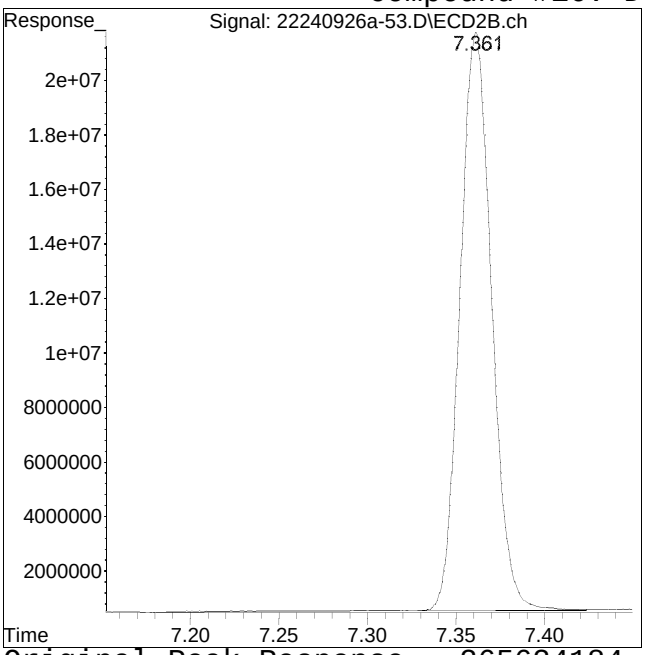


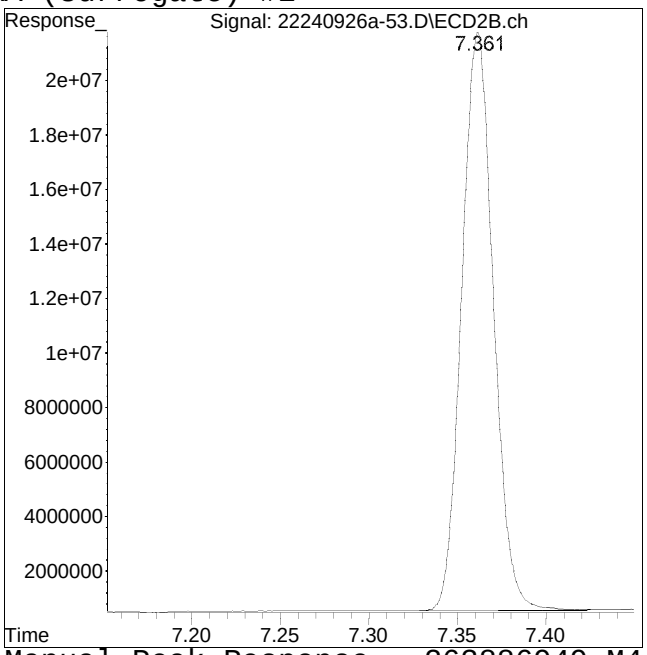
Original Peak Response = 227854694 Manual Peak Response = 214413078 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #16: DCAA (surrogate) #2



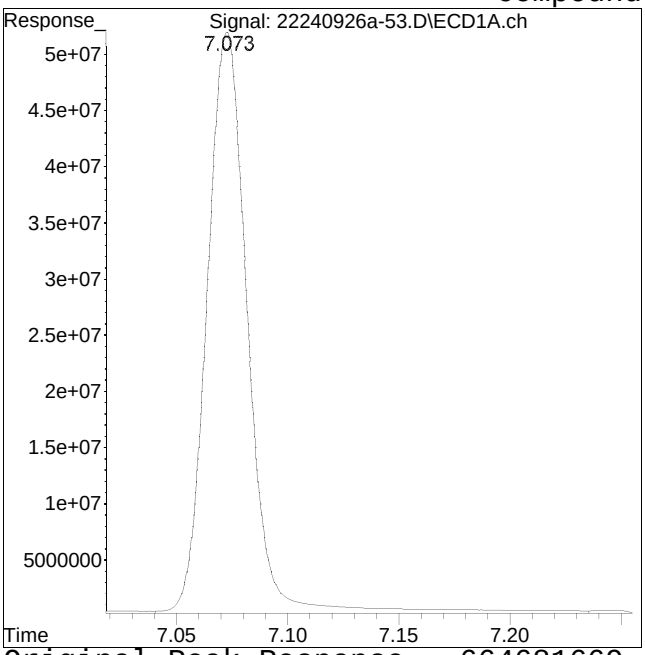


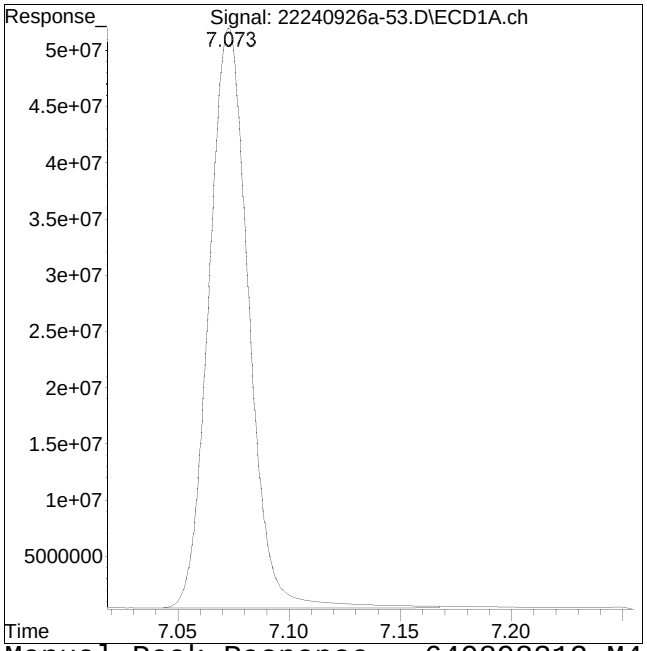
Original Peak Response = 265624184 Manual Peak Response = 263886949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #4: Dicamba



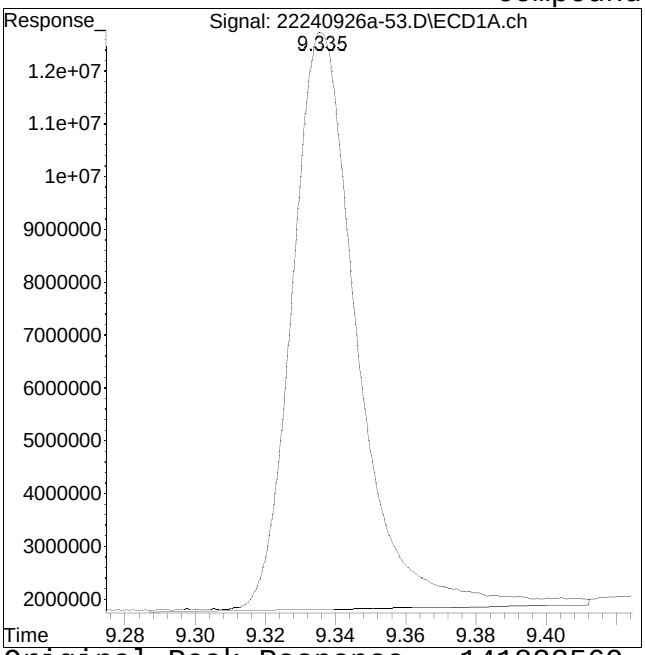


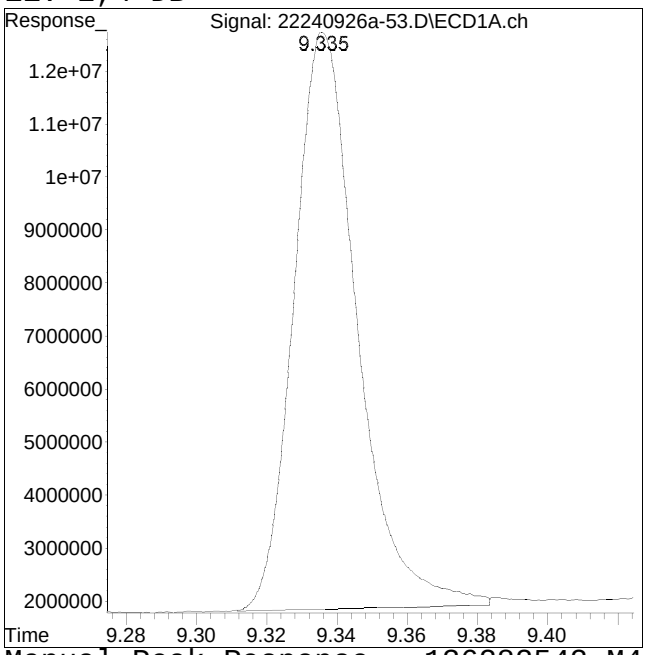
Original Peak Response = 664681669 Manual Peak Response = 640898312 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #11: 2,4-DB



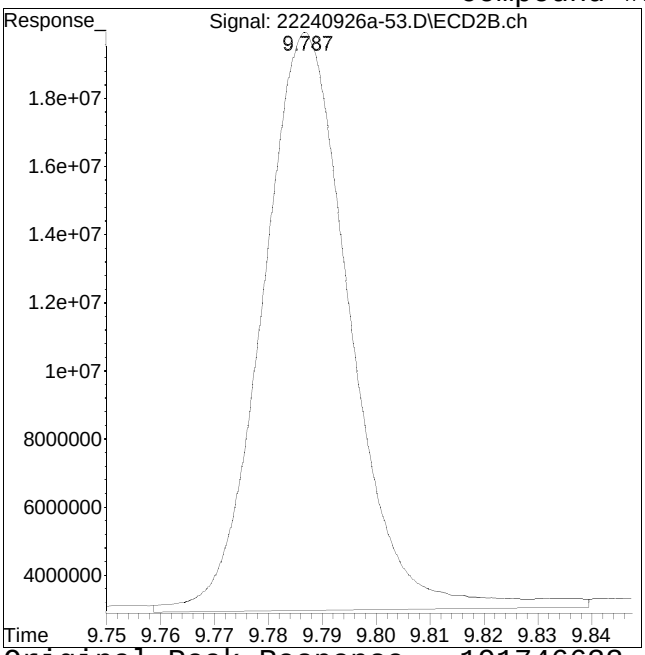


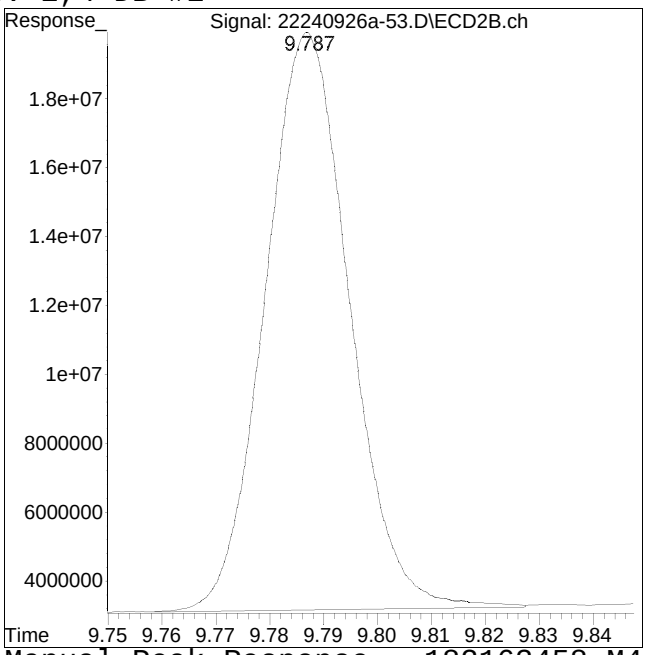
Original Peak Response = 141822569 Manual Peak Response = 136282542 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #24: 2,4-DB #2



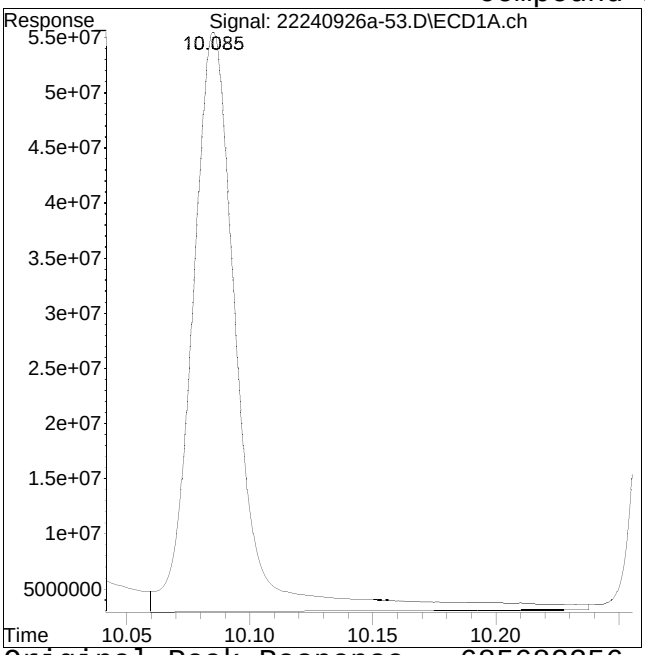


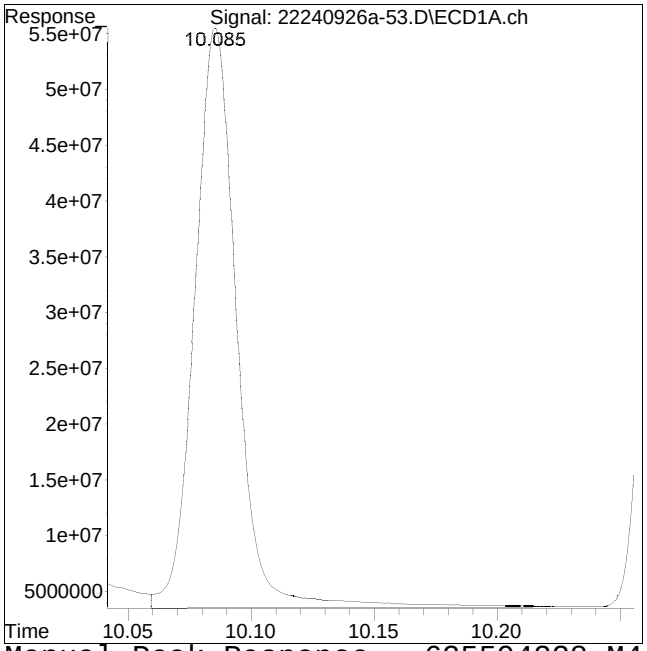
Original Peak Response = 191746633 Manual Peak Response = 182163458 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #12: Dinoseb



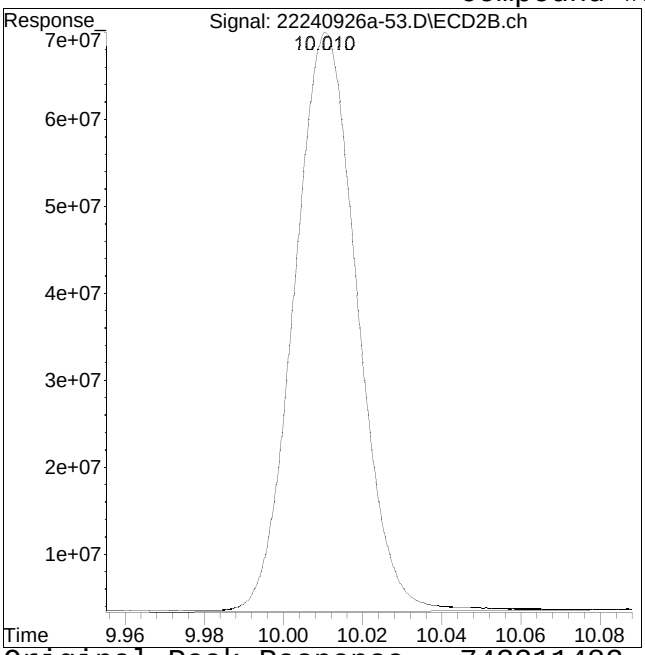


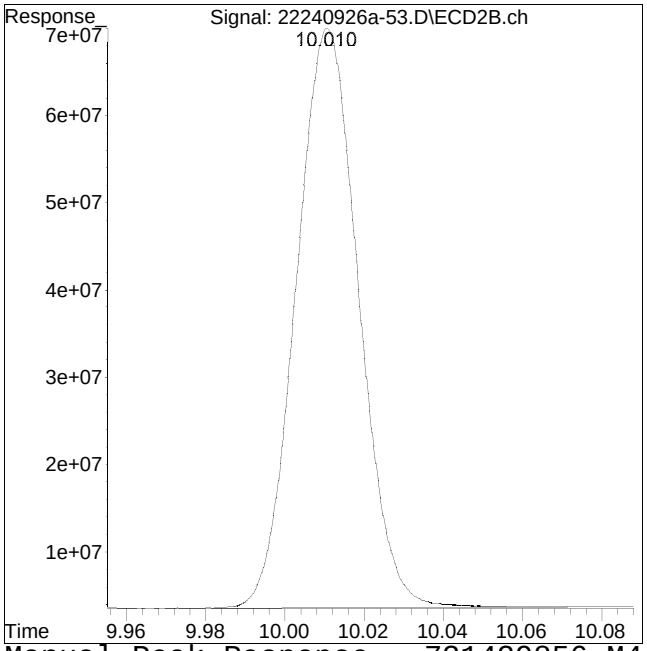
Original Peak Response = 685682356 Manual Peak Response = 625594228 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-53.D Operator : pest22:akm
Date Inj'd : 9/27/2024 0:01 Instrument : Pest22
Sample : wg1976540-5,42,,herb11705 Quant Date : 9/27/2024 8:29 am

Compound #25: Dinoseb #2





Original Peak Response = 743311482 Manual Peak Response = 731429856 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Herbicides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-67.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 04:21
Operator : pest22:akm
Sample : WG1976393-1,42,, 5958
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:05 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.434	1232.0E6	1589.6E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery =	93.96%	
	Standard Area 1 : #2 = 1679118582				Recovery =	94.67%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.361	390.4E6	501.8E6	0.430M4	0.417M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	86.00%	83.40%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

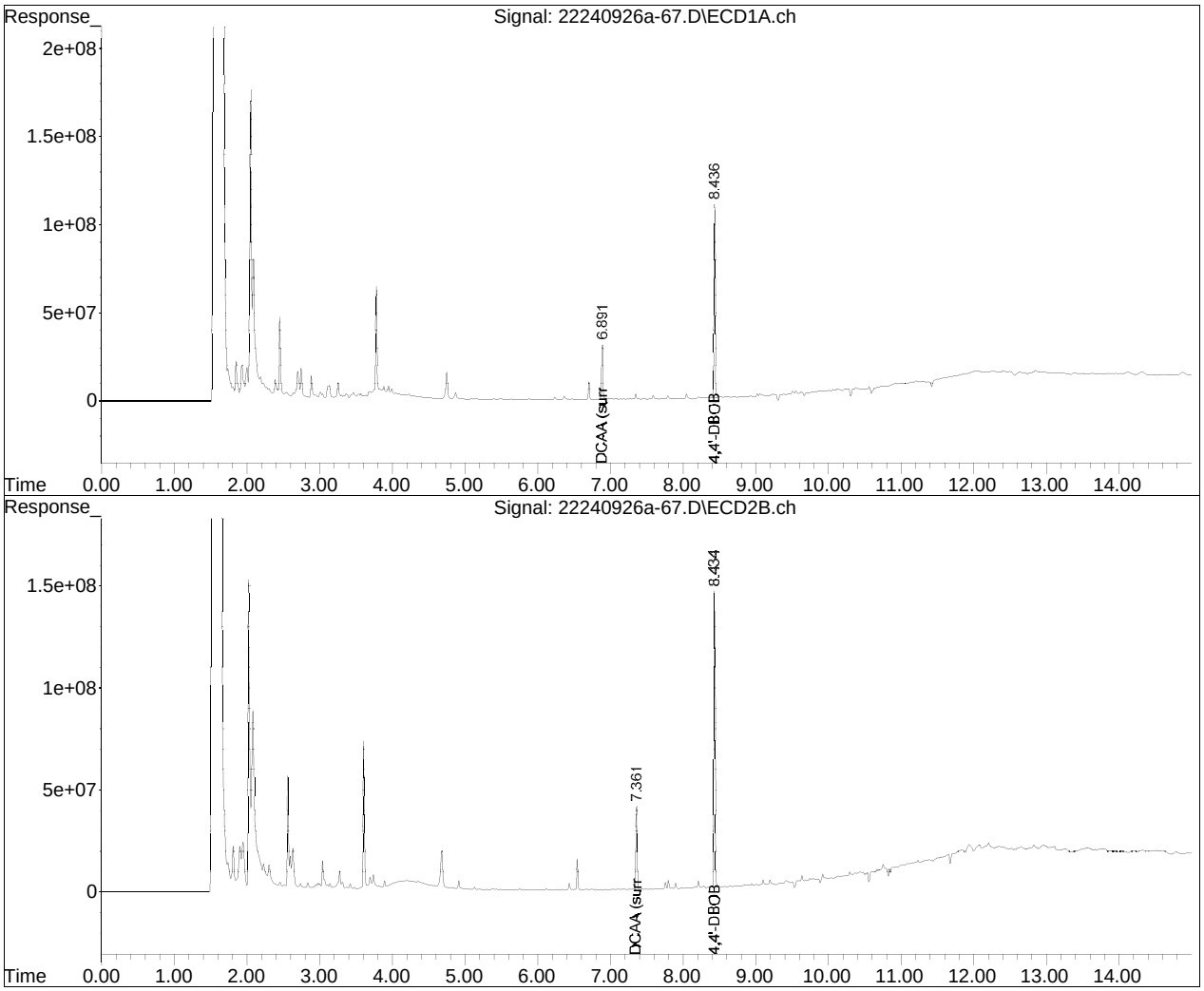
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-67.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 04:21
Operator : pest22:akm
Sample : WG1976393-1,42,, 5958
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:05 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

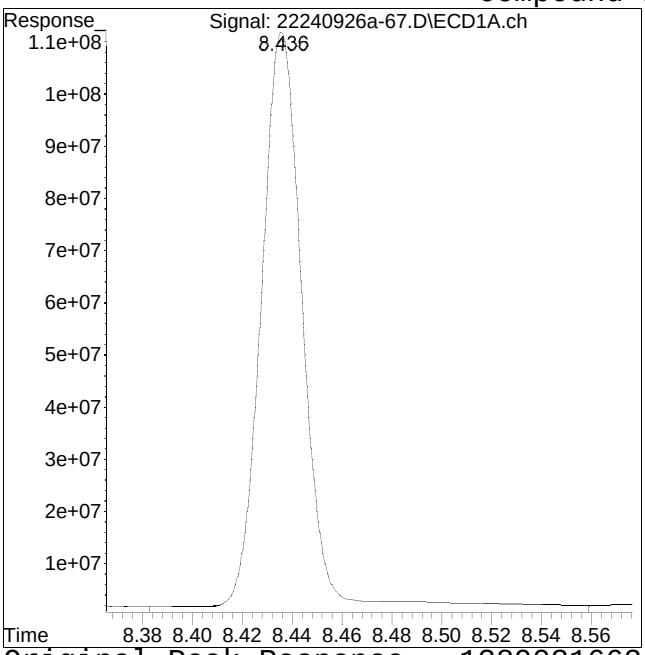
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

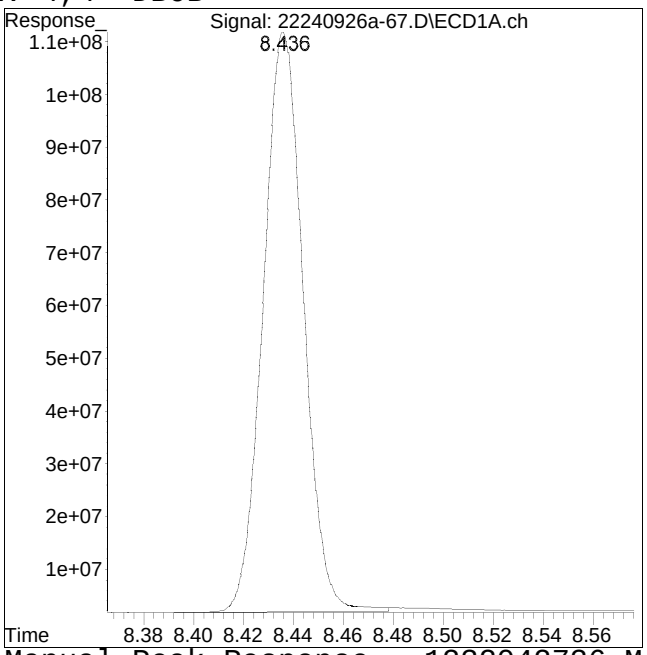


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-67.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:21 Instrument : Pest22
Sample : WG1976393-1,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



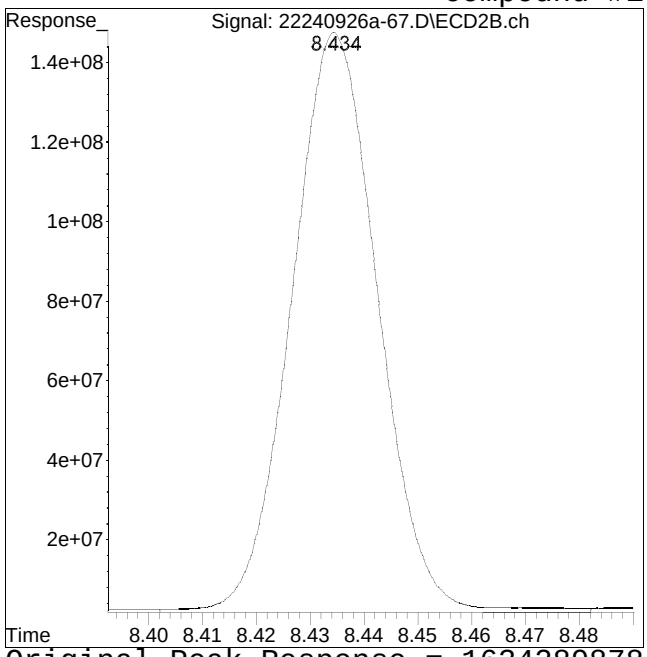


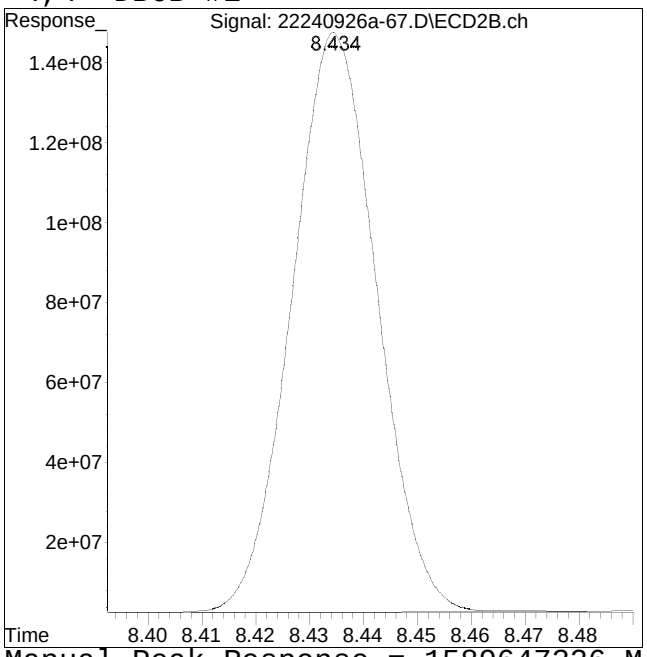
Original Peak Response = 1389031662 Manual Peak Response = 1232042736 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-67.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:21 Instrument : Pest22
Sample : WG1976393-1,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



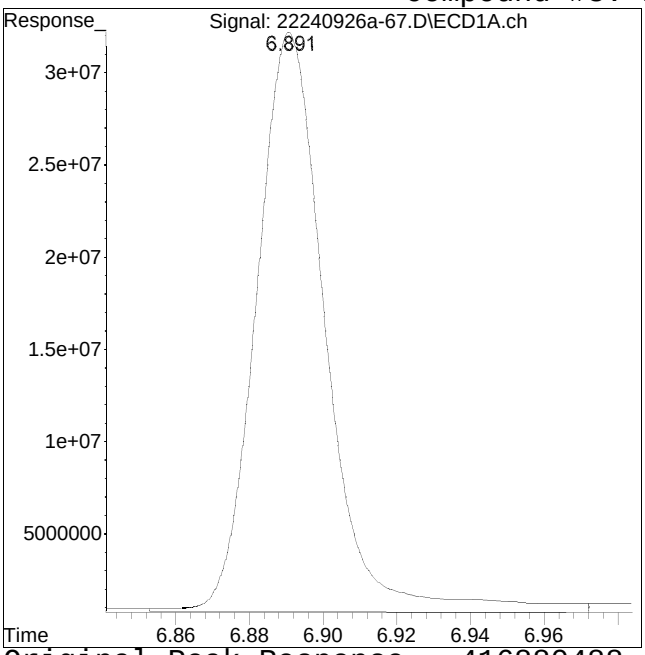


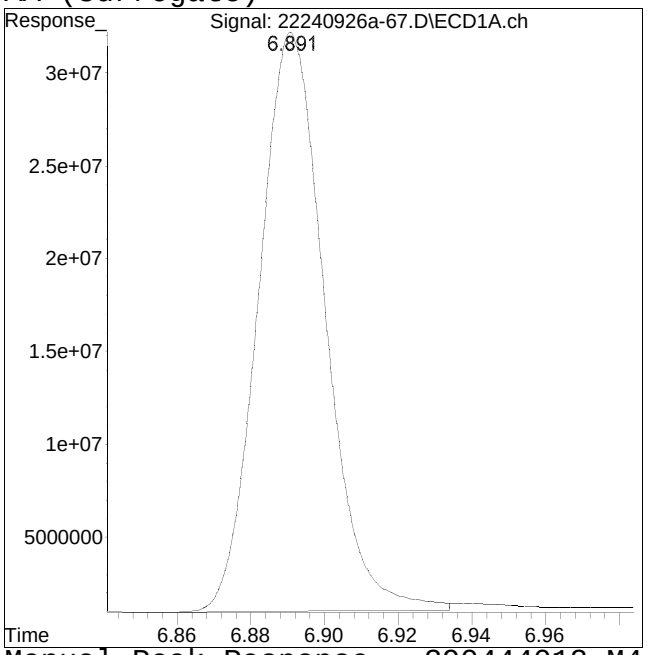
Original Peak Response = 1634289878 Manual Peak Response = 1589647326 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-67.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:21 Instrument : Pest22
Sample : WG1976393-1,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



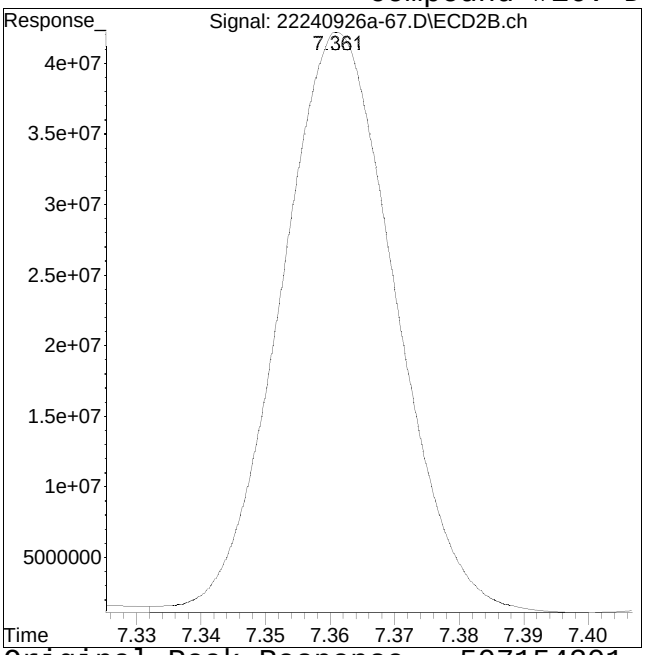


Original Peak Response = 416880488 Manual Peak Response = 390444012 M4
M4 = Poor automated baseline construction.

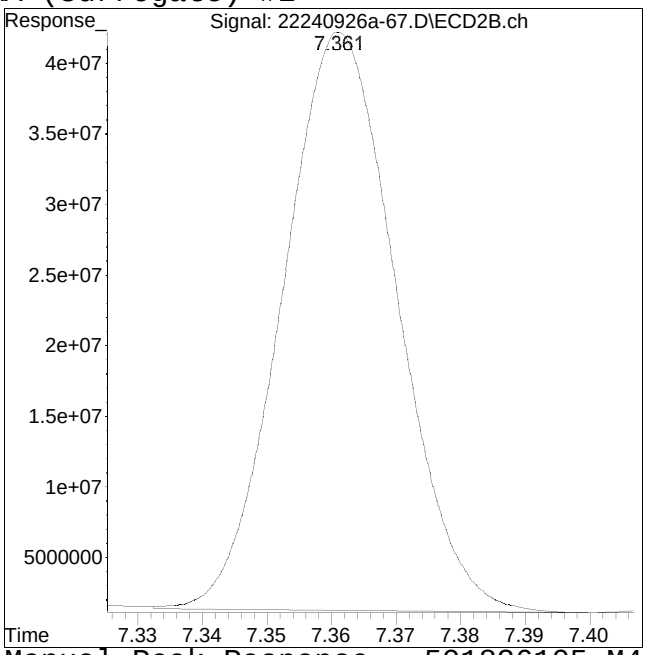
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-67.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:21 Instrument : Pest22
Sample : WG1976393-1,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 507154301



Manual Peak Response = 501836105 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-68.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 04:40
Operator : pest22:akm
Sample : WG1976393-2,42,, 5958
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 68 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:06 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.435	1201.1E6	1488.9E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery =	91.59%	
	Standard Area 1 : #2 = 1679118582				Recovery =	88.67%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.890	7.362	428.4E6	603.8E6	0.484M4	0.535
	Spiked Amount	0.500	Range 30 - 150		Recovery =	96.80%	107.00%
Target Compounds							
2) t	Dalapon	2.331	2.326	405.1E6	563.3E6	0.361M4	0.469M4
4) t	Dicamba	7.072	7.541	1420.0E6	1632.5E6	0.521M4	0.514M4
5) t	MCPP	7.275	7.654	140.5E6	180.2E6	60.499M4	57.623M4
6) t	MCPA	7.421	7.881	225.9E6	329.3E6	54.044M4	58.024M4
7) t	Dichloroprop	7.774	8.199	472.5E6	532.5E6	0.563M4	0.518M4
8) t	2,4-D	7.986	8.475	516.1E6	726.9E6	0.505M4	0.550
9) t	2,4,5-TP (Si	8.706	9.135	1843.7E6	2196.1E6	0.497M4	0.475M4
10) t	2,4,5-T	8.926	9.424	1971.1E6	2567.6E6	0.518M4	0.562M4
11) t	2,4-DB	9.334	9.786	305.4E6	469.4E6	0.548M4	0.627M4
12) t	Dinoseb	10.084	10.010	997.6E6	1302.5E6	0.352M4	0.447M4
SemiQuant Compounds - Not Calibrated on this Instrument							

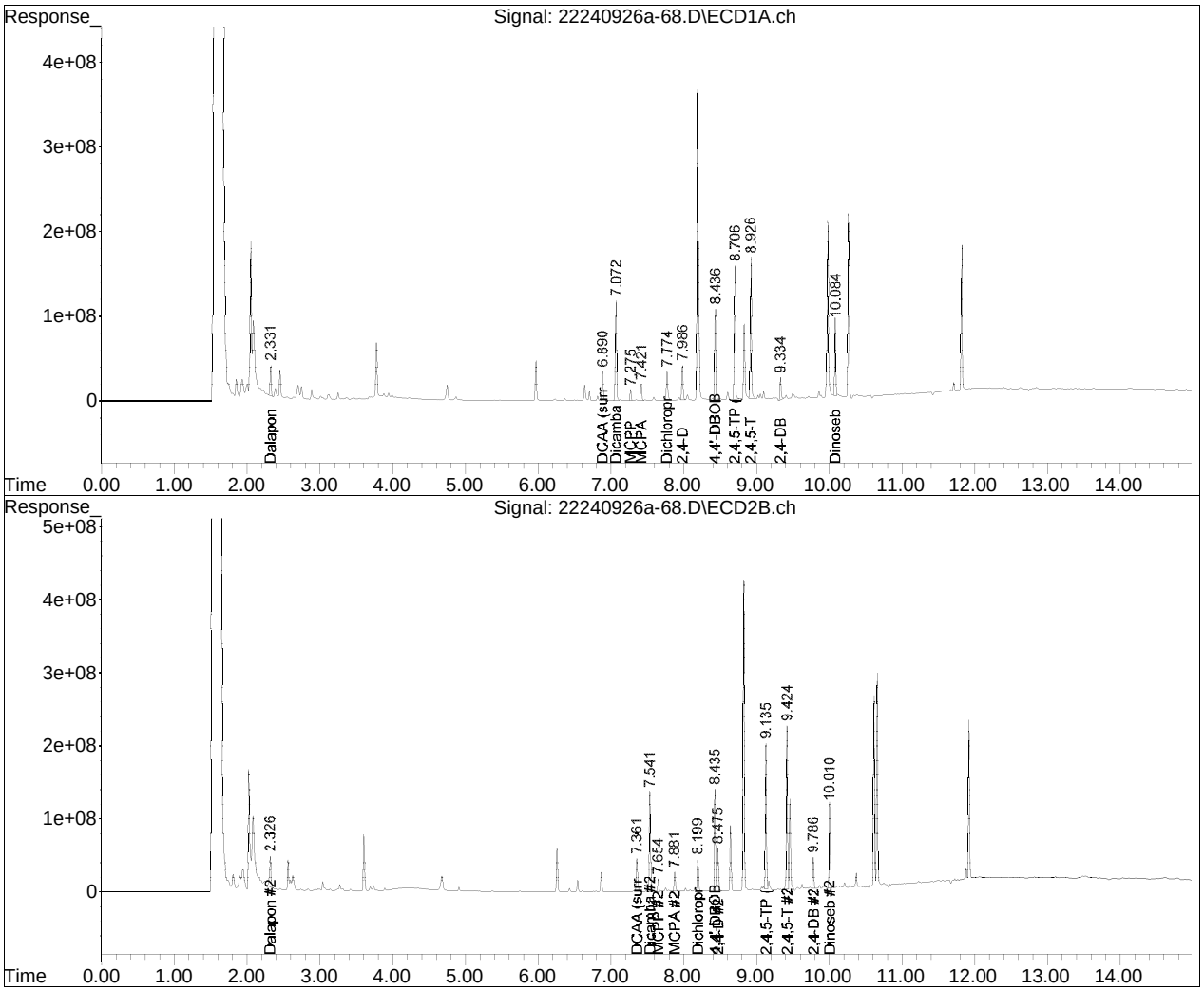
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-68.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 04:40
Operator : pest22:akm
Sample : WG1976393-2,42,, 5958
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 68 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:06 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

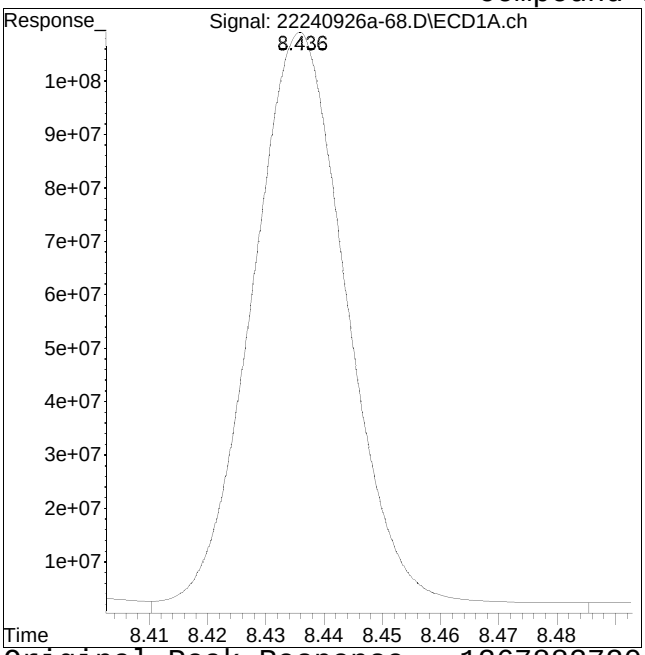
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

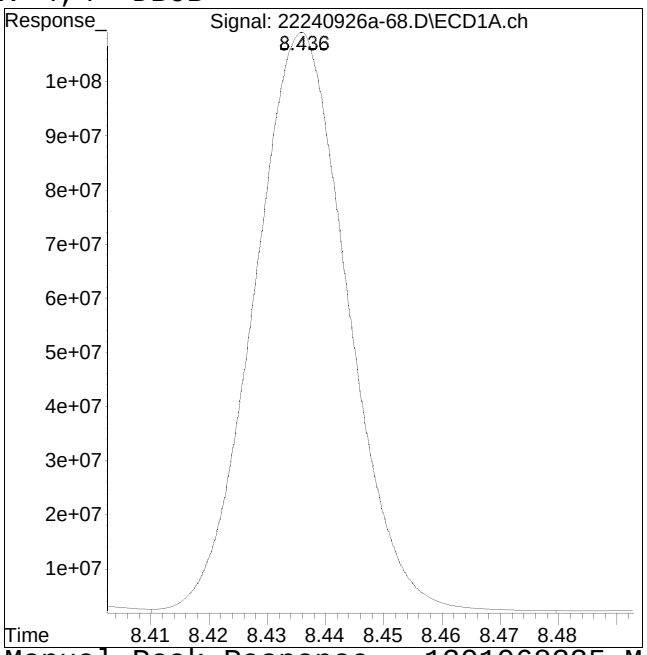


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



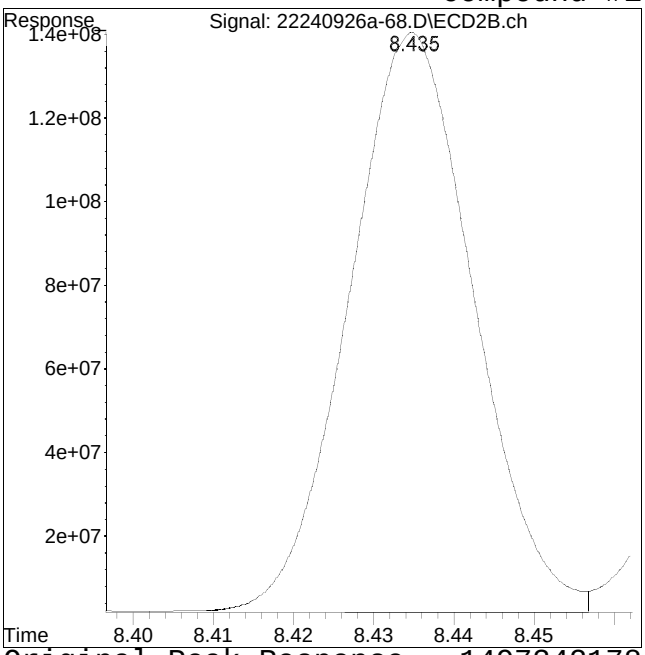


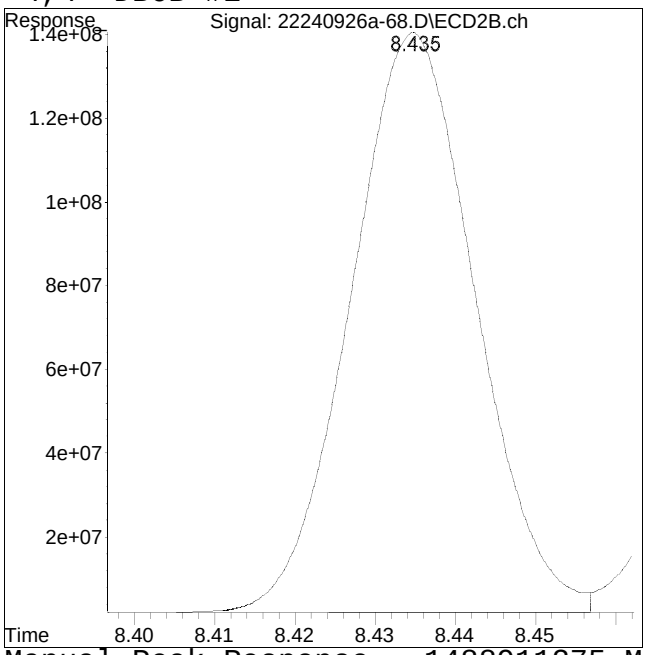
Original Peak Response = 1267883720 Manual Peak Response = 1201068335 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



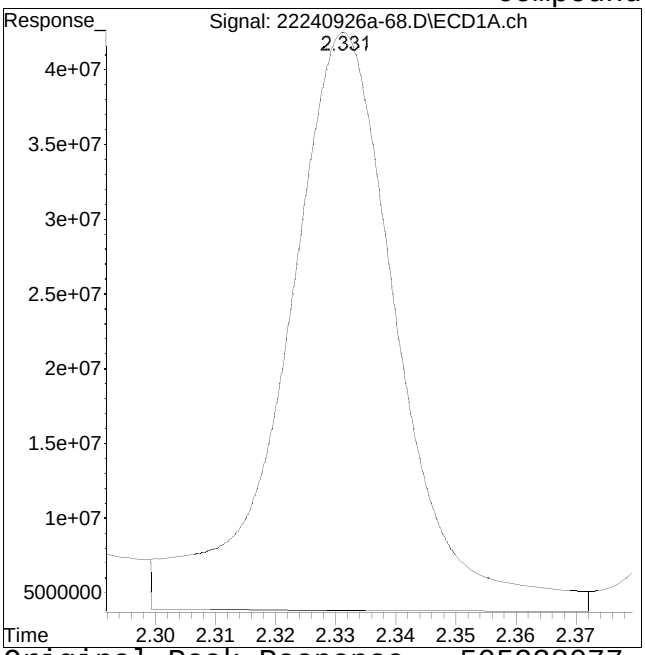


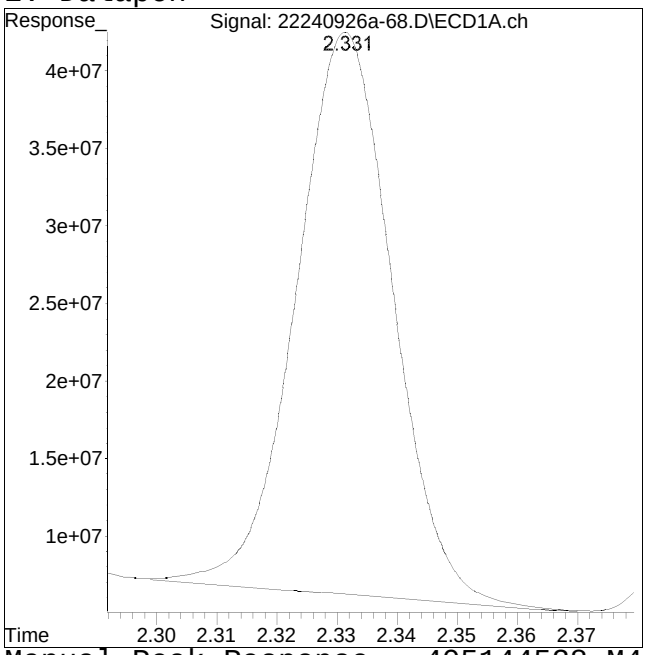
Original Peak Response = 1497342178 Manual Peak Response = 1488911275 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #2: Dalapon



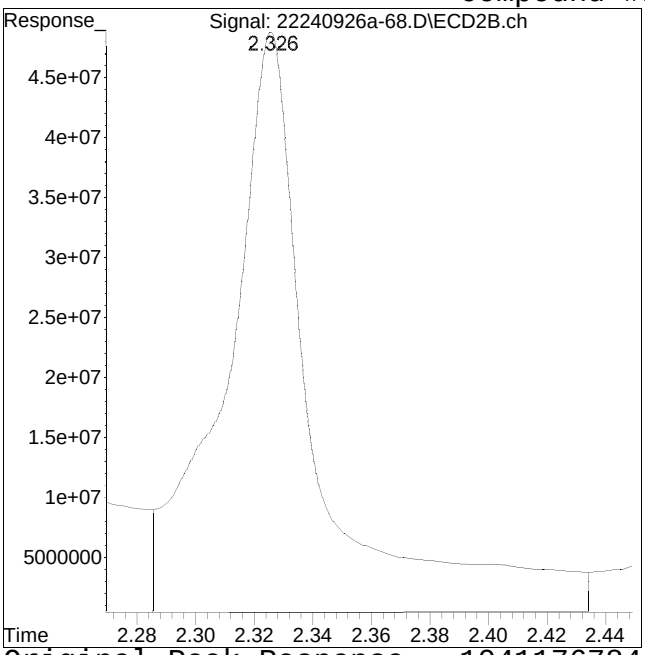


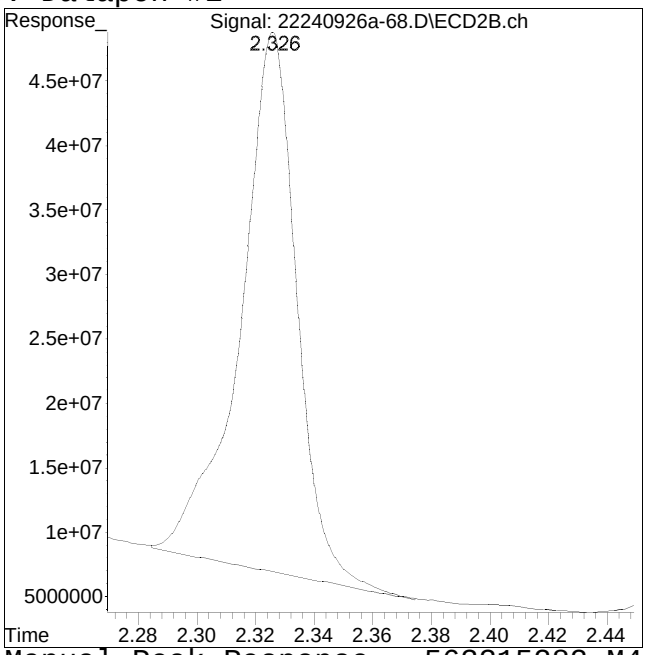
Original Peak Response = 505232077 Manual Peak Response = 405144528 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #15: Dalapon #2



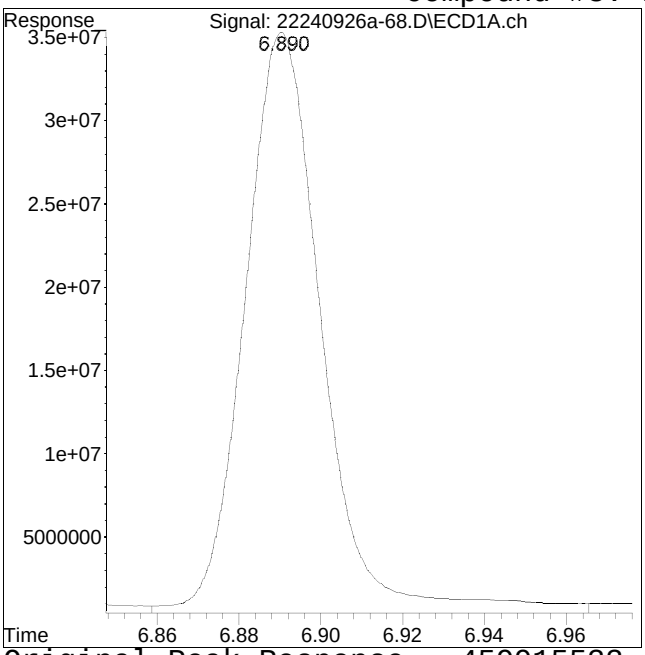


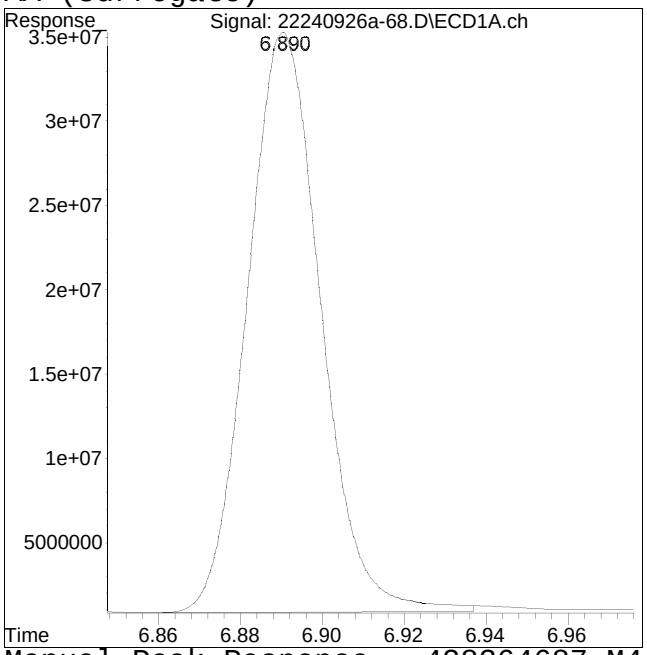
Original Peak Response = 1041176784 Manual Peak Response = 563315282 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



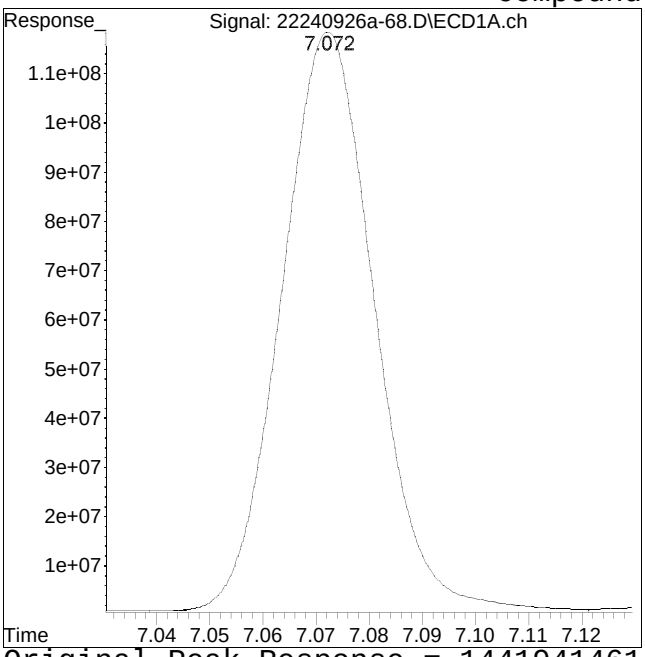


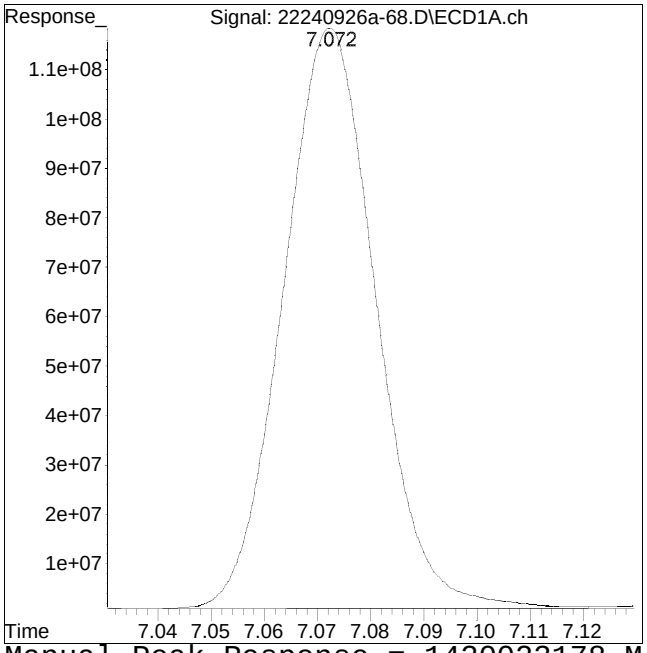
Original Peak Response = 459915533 Manual Peak Response = 428364687 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #4: Dicamba



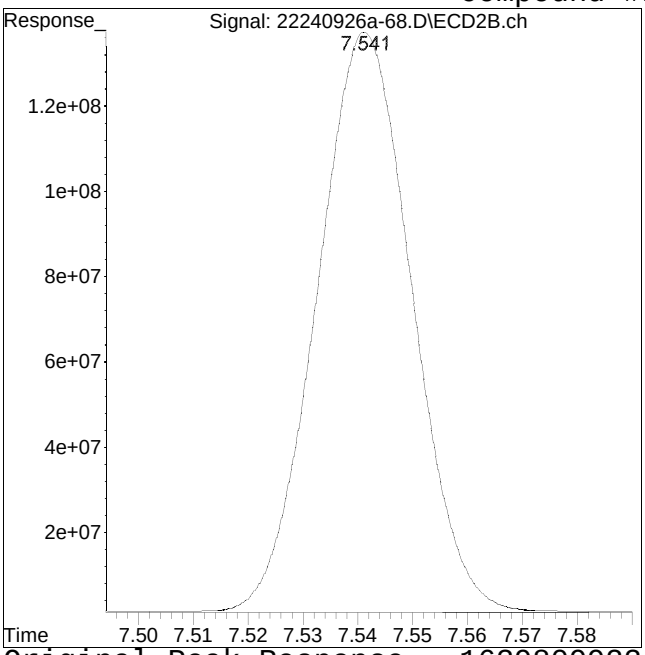


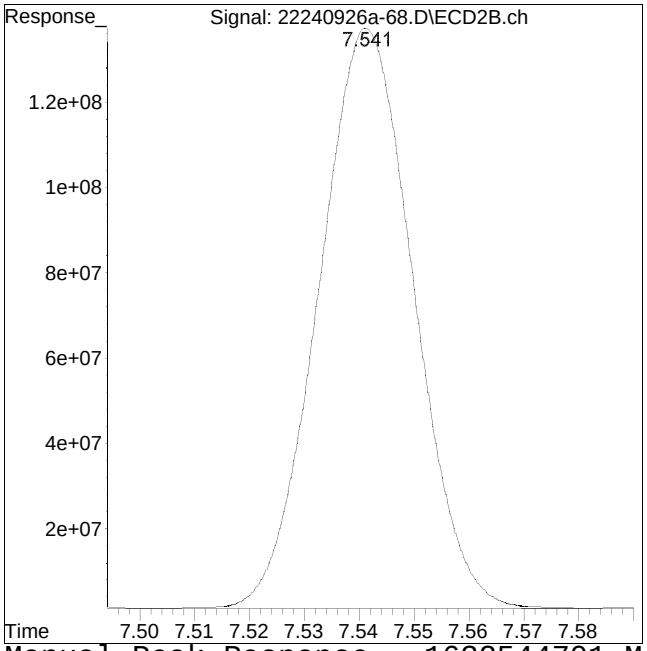
Original Peak Response = 1441941461 Manual Peak Response = 1420023178 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #17: Dicamba #2



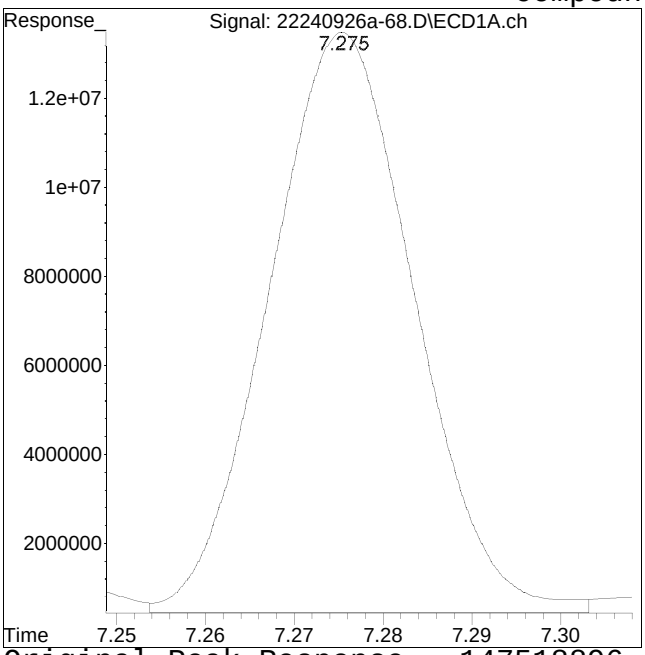


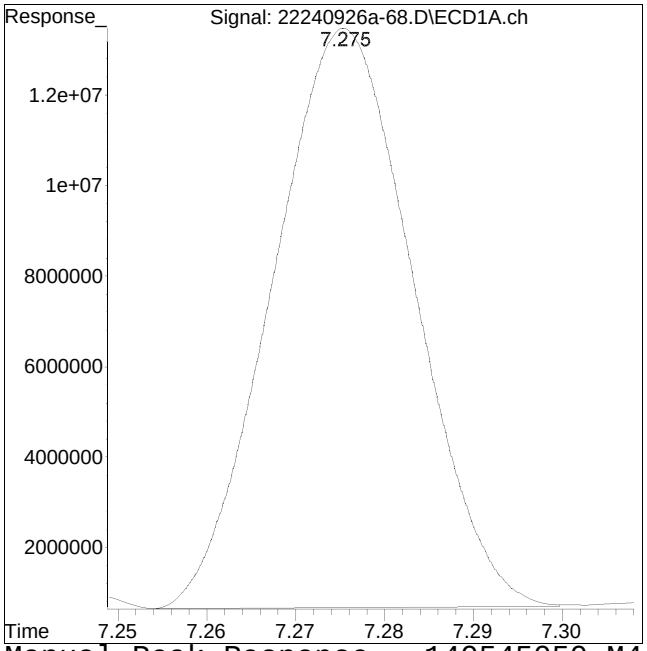
Original Peak Response = 1639809923 Manual Peak Response = 1632544701 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #5: MCPP



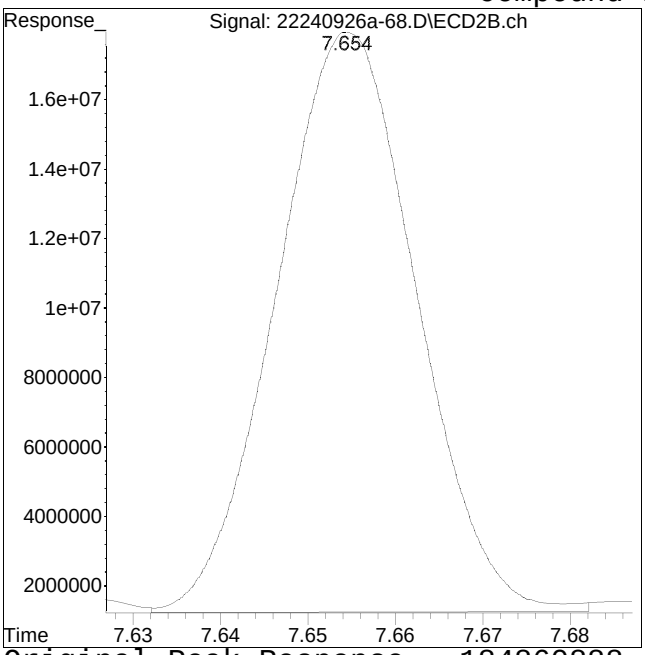


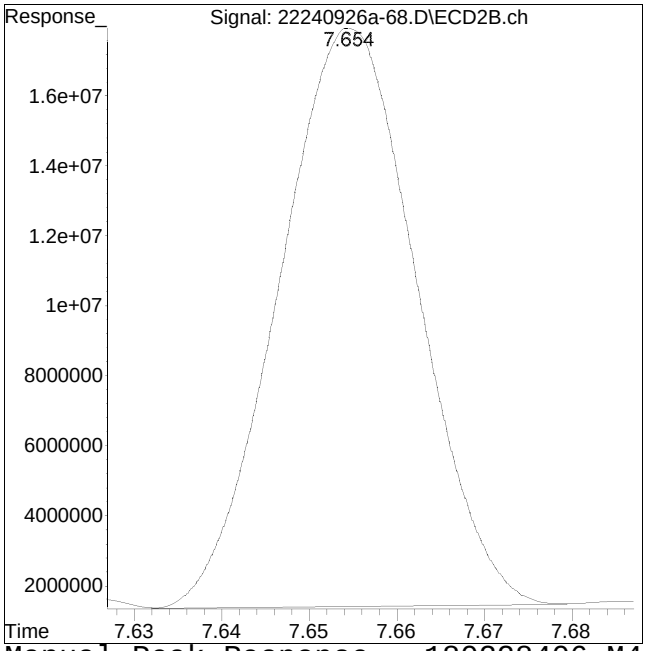
Original Peak Response = 147518896 Manual Peak Response = 140545050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #18: MCPP #2



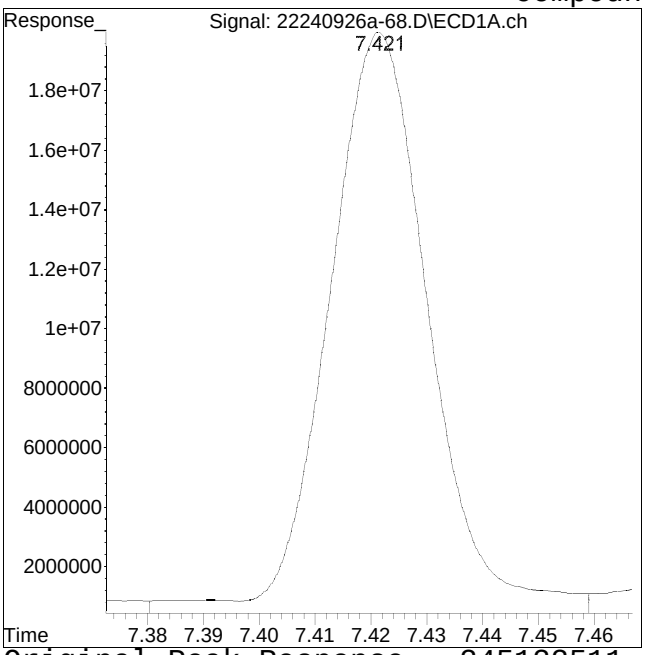


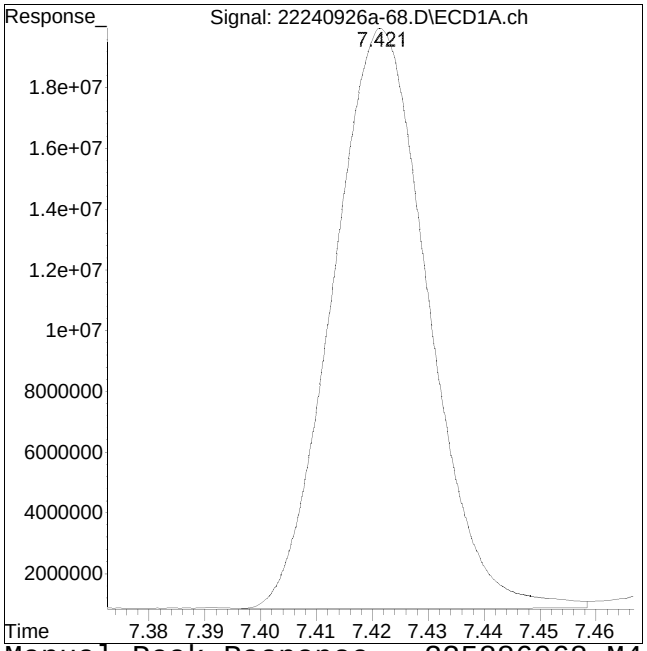
Original Peak Response = 184860888 Manual Peak Response = 180228406 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #6: MCPA



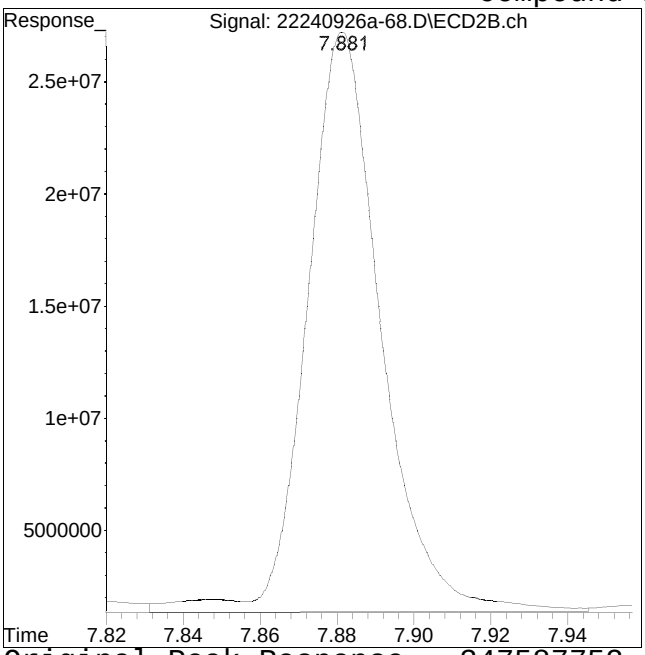


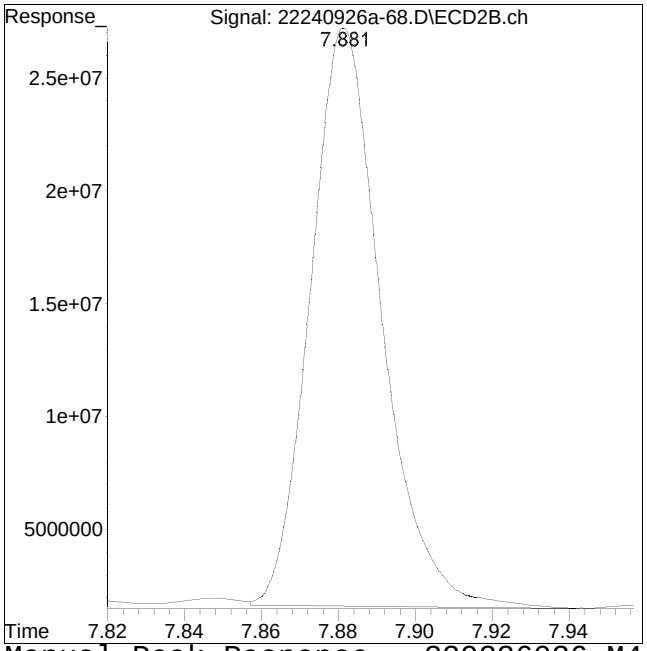
Original Peak Response = 245122511 Manual Peak Response = 225886068 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #19: MCPA #2



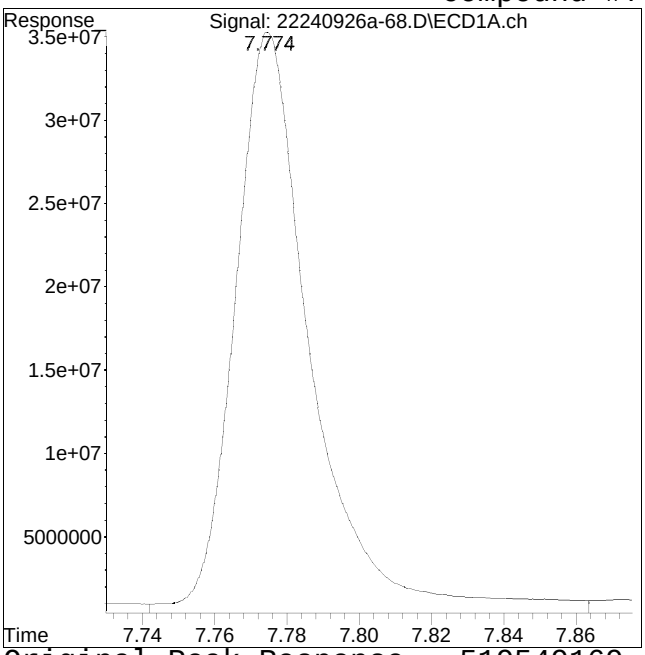


Original Peak Response = 347587752 Manual Peak Response = 329336036 M4
M4 = Poor automated baseline construction.

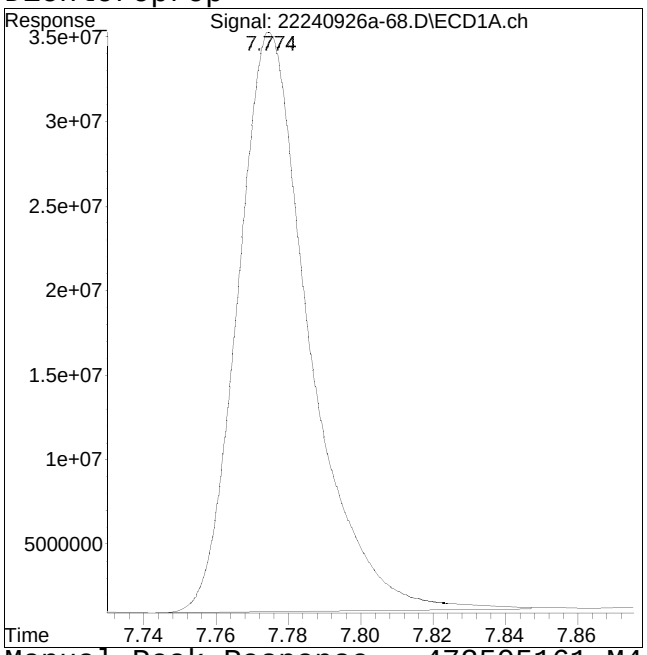
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #7: Dichloroprop



Original Peak Response = 519549169

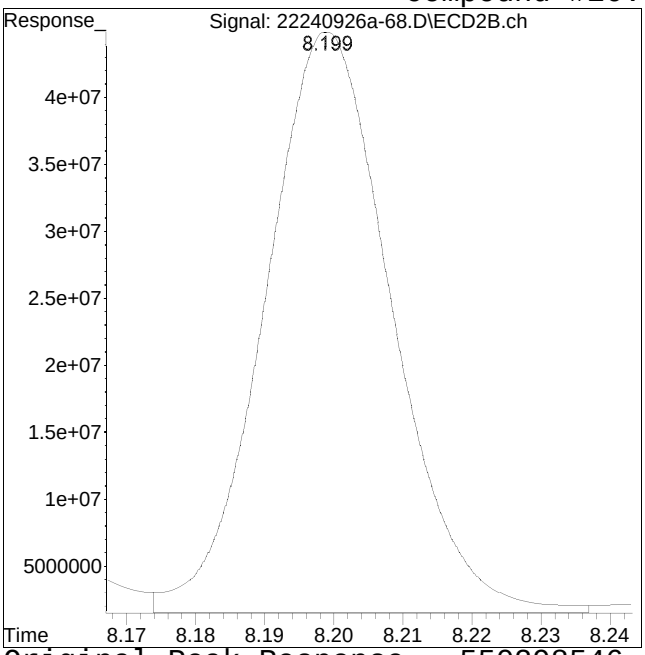


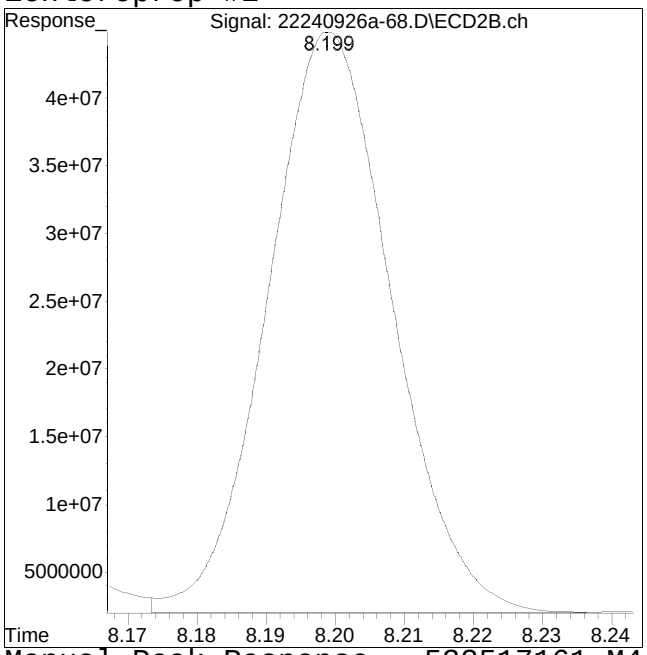
Manual Peak Response = 472505161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #20: Dichloroprop #2



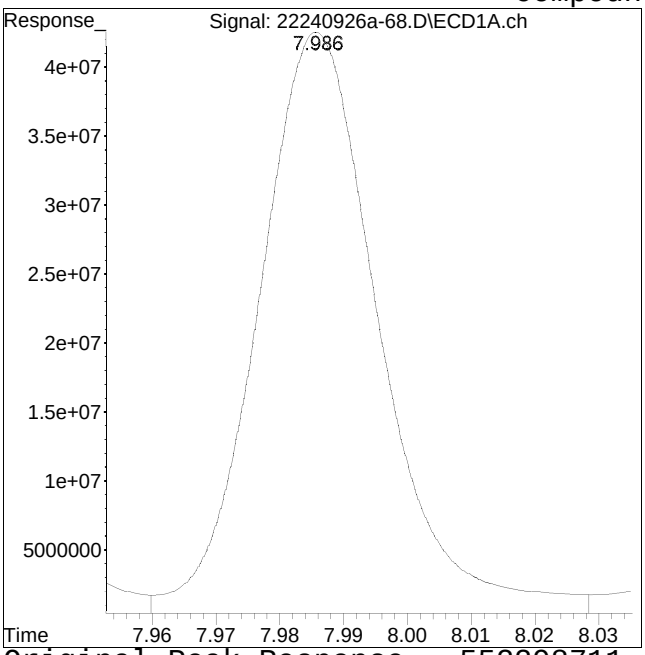


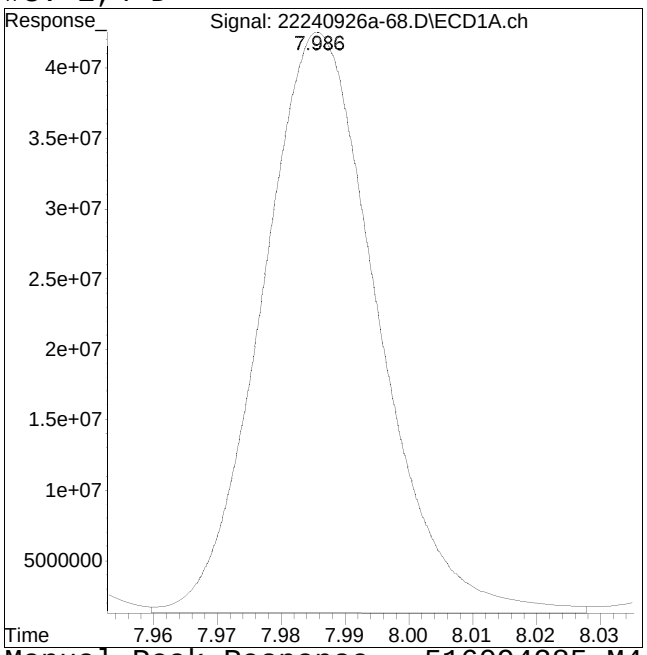
Original Peak Response = 550298546 Manual Peak Response = 532517161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #8: 2,4-D



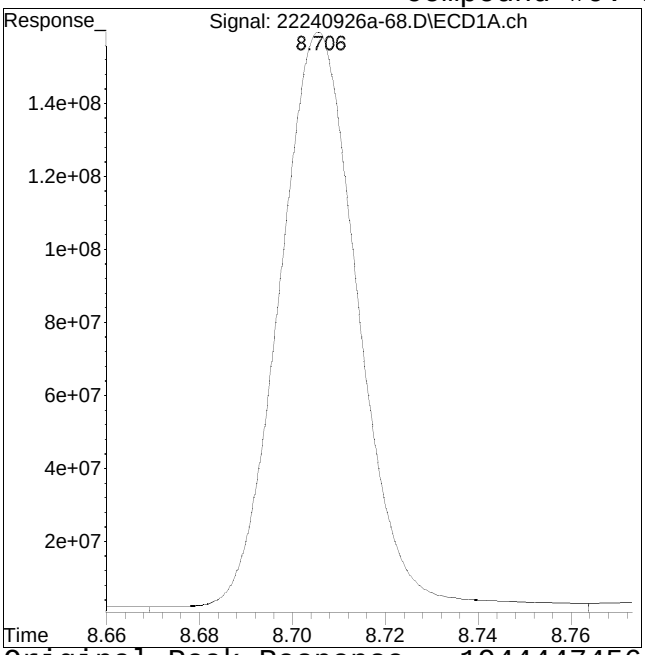


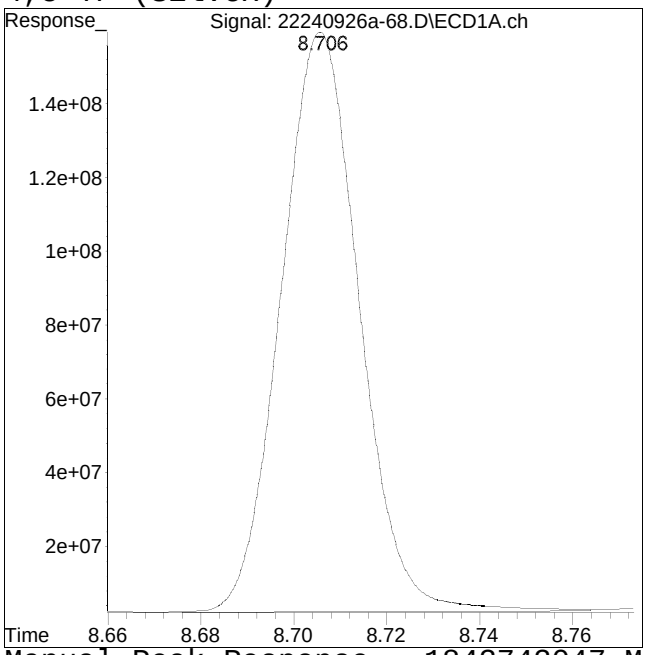
Original Peak Response = 552298711 Manual Peak Response = 516094285 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #9: 2,4,5-TP (Silvex)



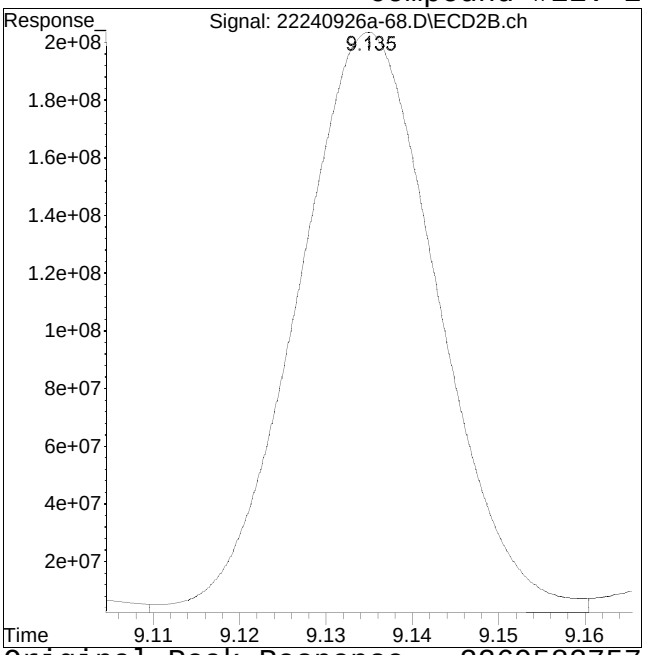


Original Peak Response = 1944447456 Manual Peak Response = 1843743047 M4
M4 = Poor automated baseline construction.

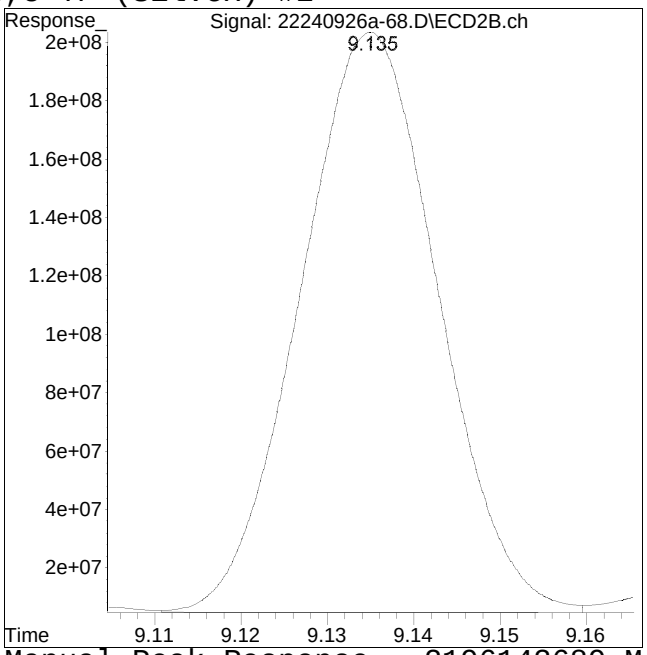
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 2269583757

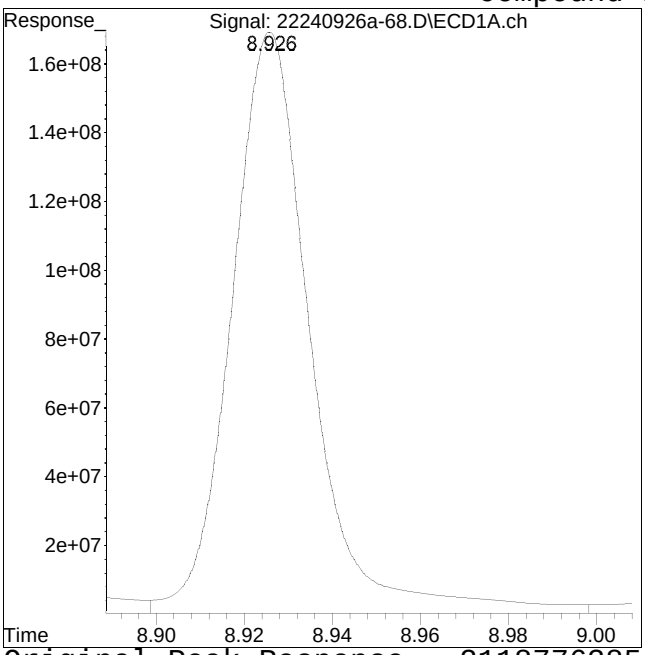


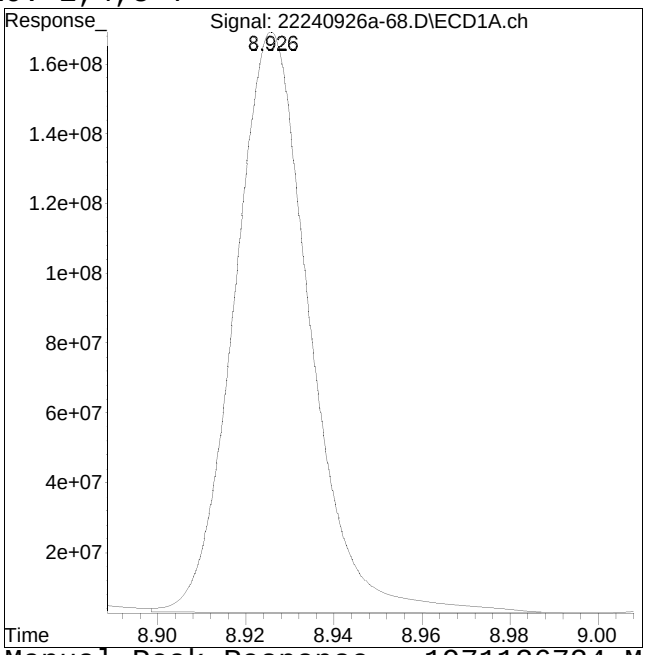
Manual Peak Response = 2196143689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #10: 2,4,5-T



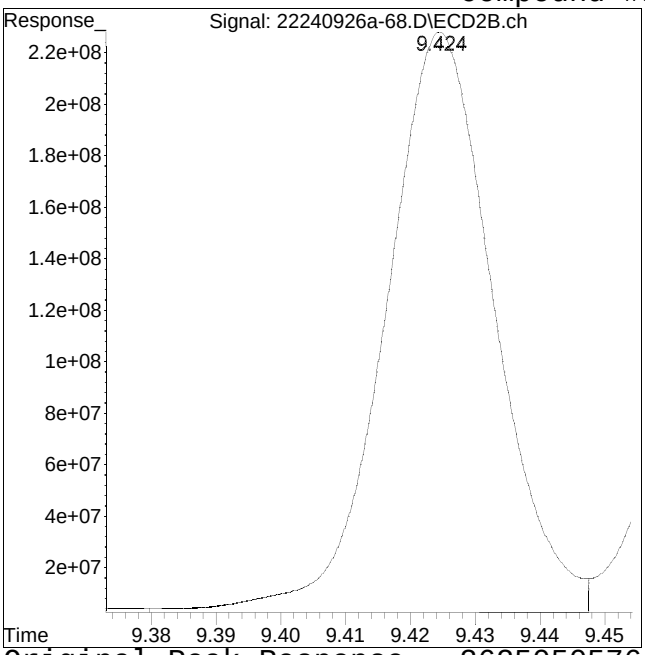


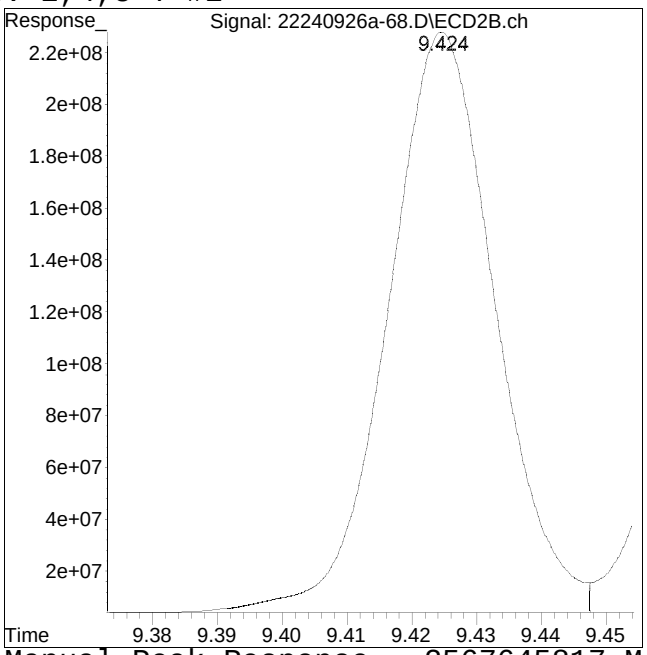
Original Peak Response = 2118776385 Manual Peak Response = 1971126724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #23: 2,4,5-T #2



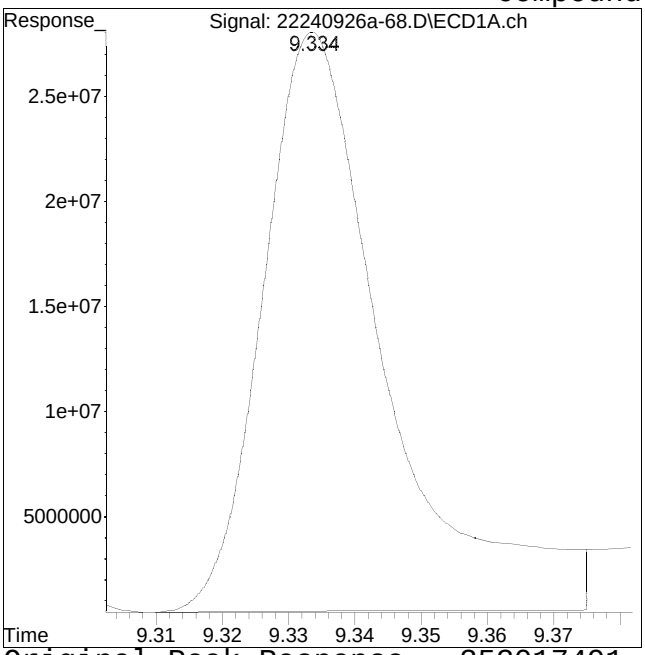


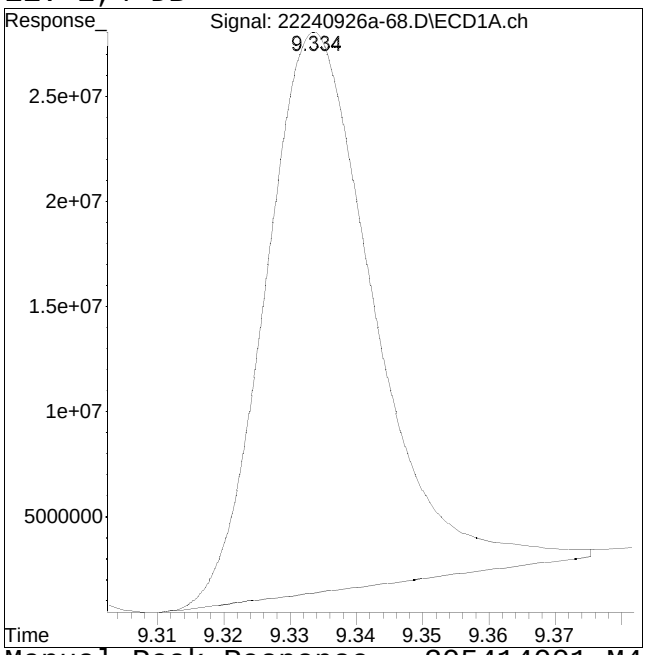
Original Peak Response = 2625050576 Manual Peak Response = 2567645817 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #11: 2,4-DB



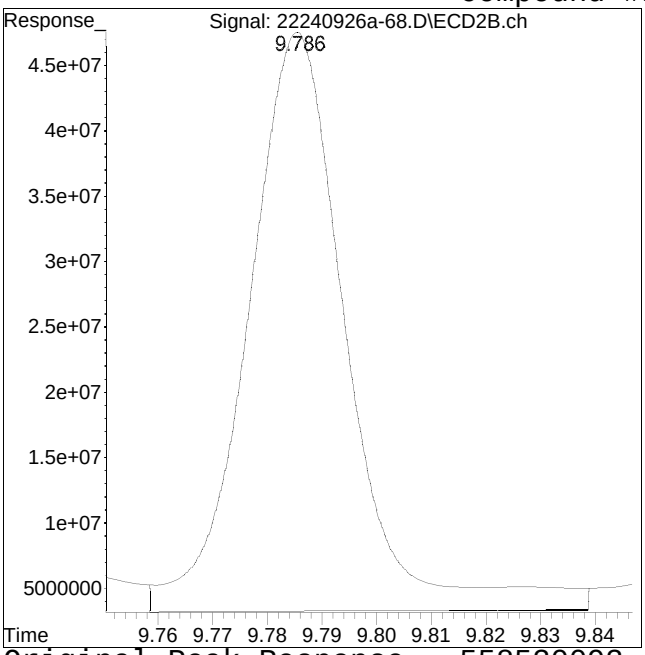


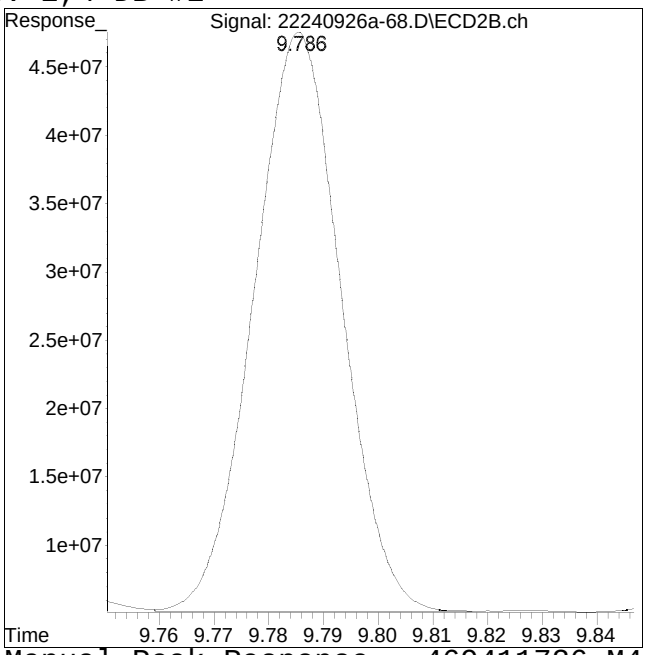
Original Peak Response = 353017491 Manual Peak Response = 305414001 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #24: 2,4-DB #2



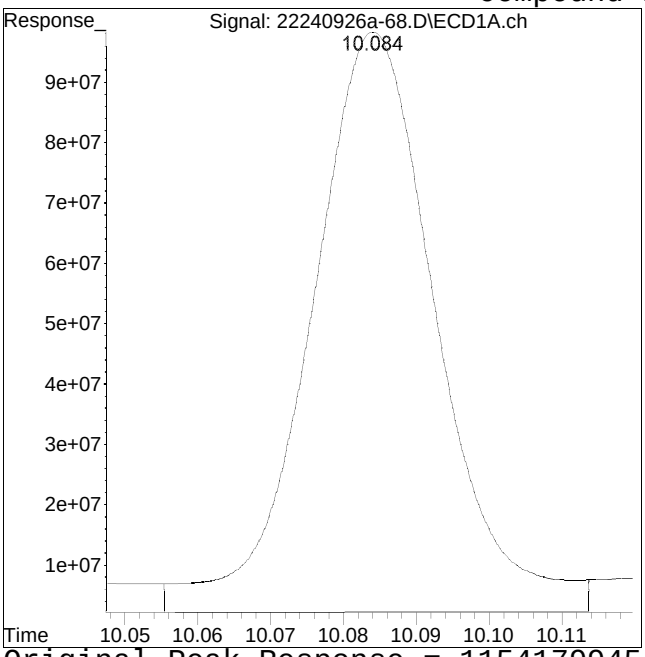


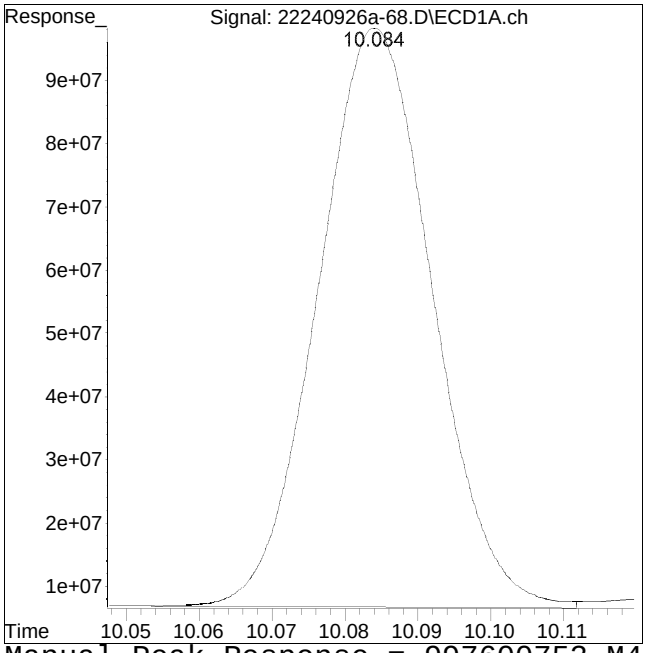
Original Peak Response = 558530093 Manual Peak Response = 469411726 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #12: Dinoseb



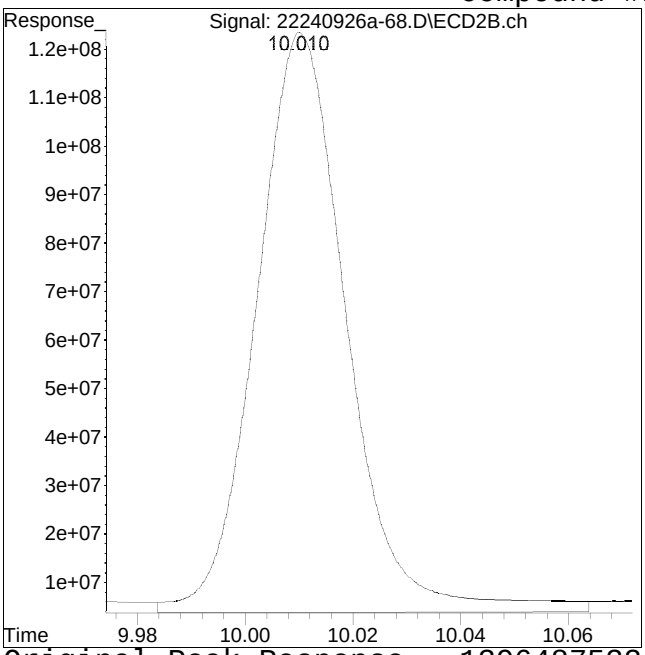


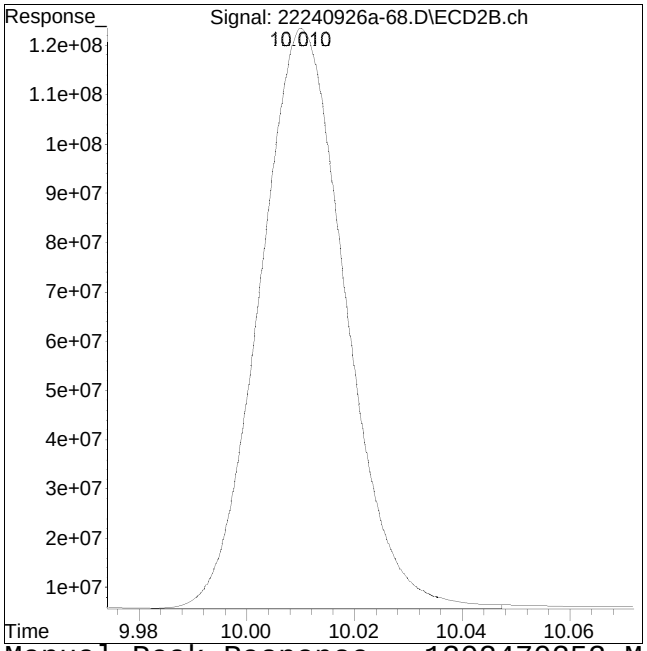
Original Peak Response = 1154179945 Manual Peak Response = 997600753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-68.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:40 Instrument : Pest22
Sample : WG1976393-2,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #25: Dinoseb #2





Original Peak Response = 1396487533 Manual Peak Response = 1302470253 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-69.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 04:58
Operator : pest22:akm
Sample : WG1976393-3,42,, 5958
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:07 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.435	1261.1E6	1598.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery =	96.18%	
	Standard Area 1 : #2 = 1679118582				Recovery =	95.18%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.890	7.361	784.7E6	1015.0E6	0.845M4	0.838
	Spiked Amount	0.500	Range 30 - 150		Recovery =	169.00%#	167.60%#
Target Compounds							
2) t	Dalapon	2.332	2.326	366.4E6	490.2E6	0.311M4	0.380M4
4) t	Dicamba	7.072	7.541	1449.3E6	1665.4E6	0.506M4	0.488M4
5) t	MCPP	7.276	7.655	159.0E6	188.3E6	65.195	56.081
6) t	MCPA	7.422	7.882	230.2E6	341.0E6	52.463M4	55.973
7) t	Dichloroprop	7.775	8.199	455.0E6	562.1E6	0.516M4	0.509
8) t	2,4-D	7.986	8.475	532.3E6	748.5E6	0.496M4	0.528
9) t	2,4,5-TP (Si	8.706	9.135	1881.3E6	2289.1E6	0.483M4	0.462M4
10) t	2,4,5-T	8.925	9.424	1956.7E6	2484.6E6	0.490M4	0.506M4
11) t	2,4-DB	9.333	9.786	290.1E6	379.1E6	0.496M4	0.472M4
12) t	Dinoseb	10.084	10.010	979.8E6	1265.0E6	0.329M4	0.404M4
SemiQuant Compounds - Not Calibrated on this Instrument							

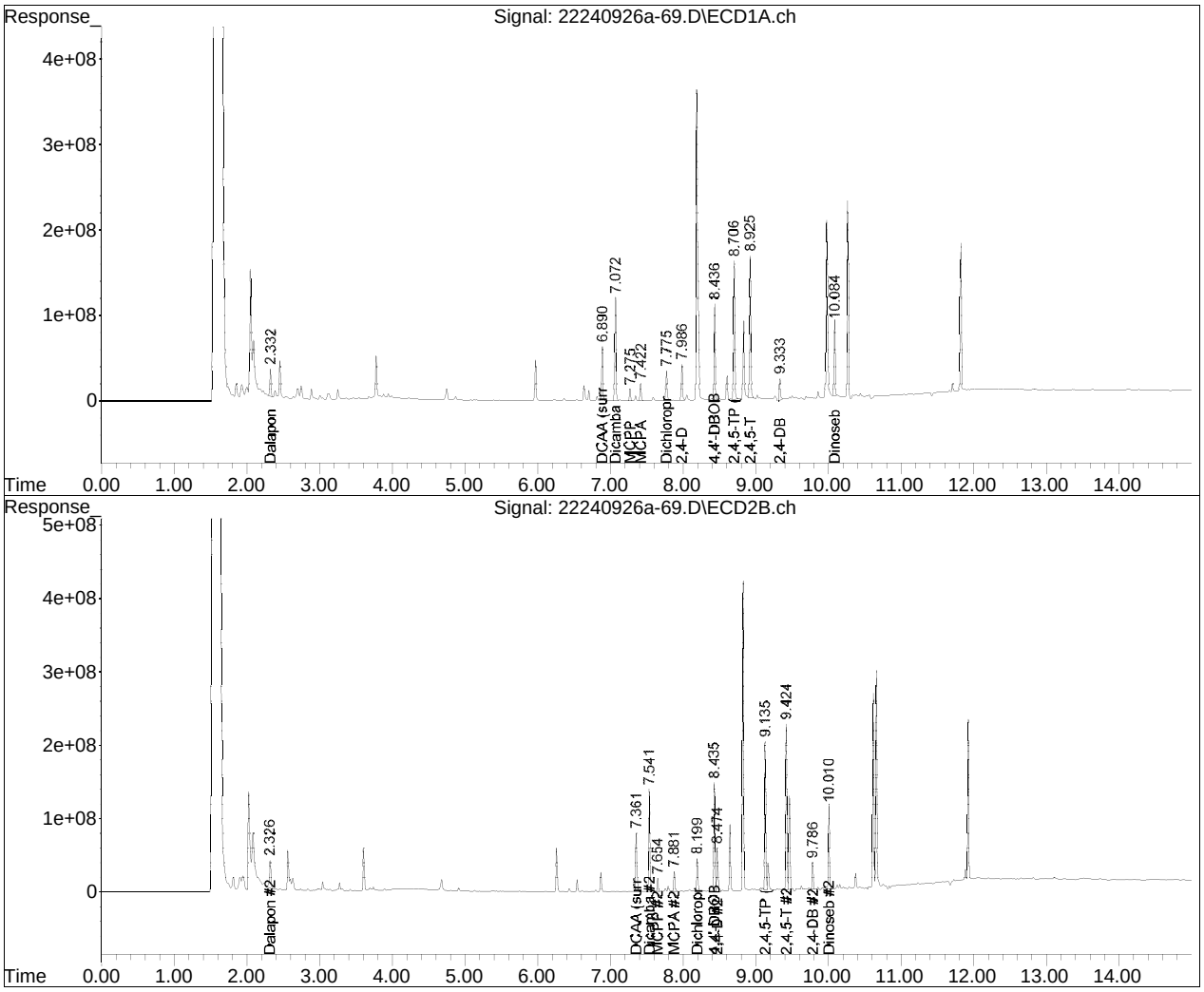
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-69.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 04:58
Operator : pest22:akm
Sample : WG1976393-3,42,, 5958
Misc : wg1976540,WG1976393,ical21511
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:07 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

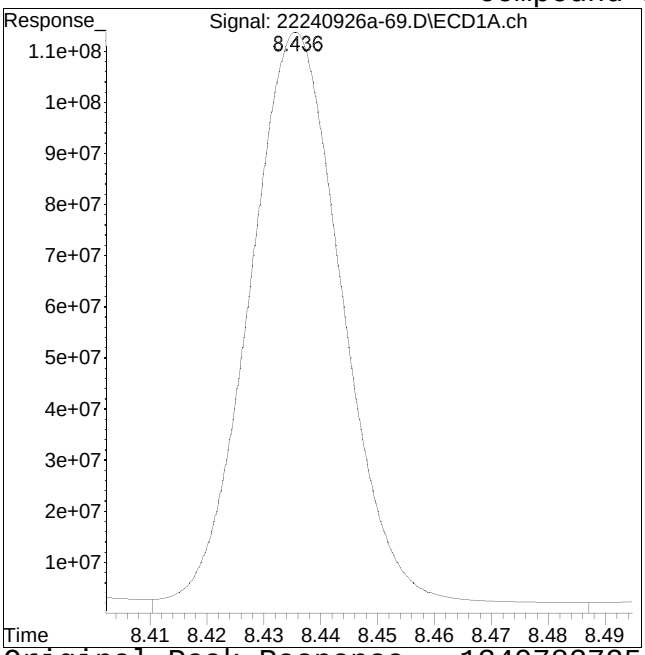
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

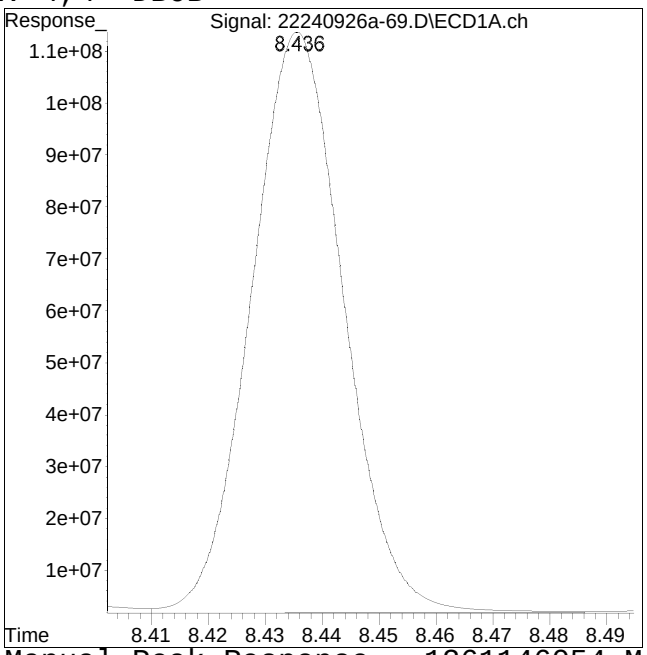


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



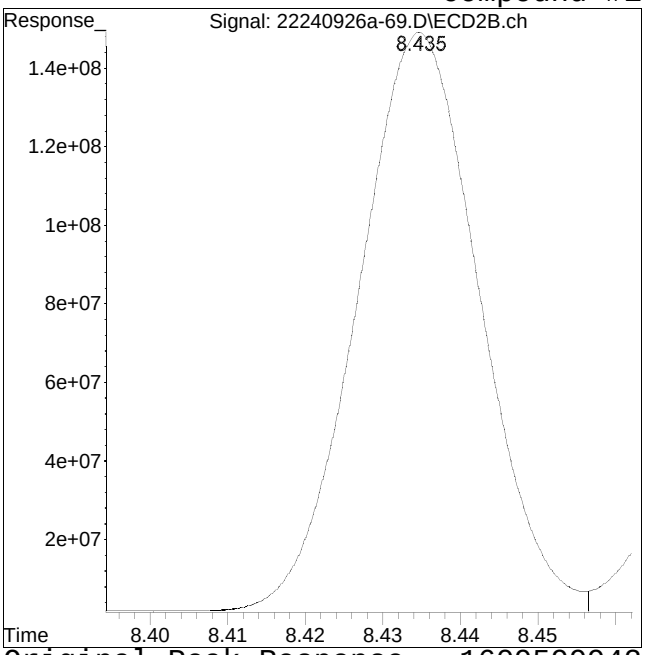


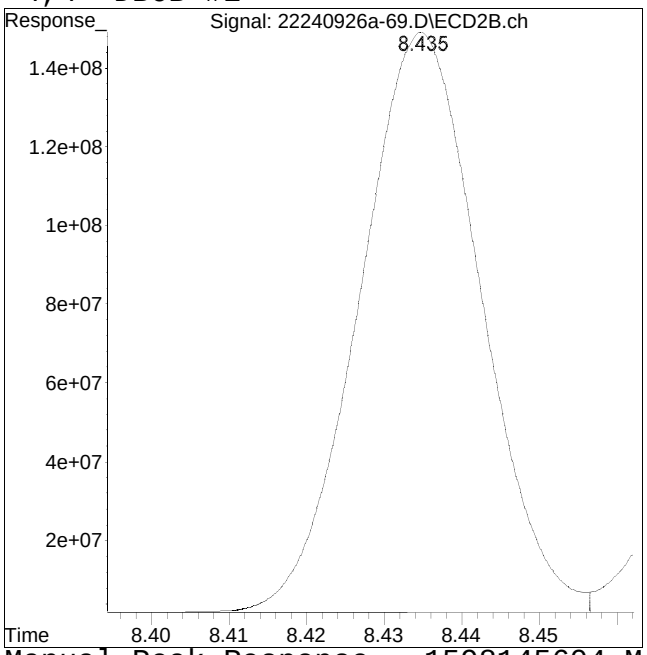
Original Peak Response = 1340783725 Manual Peak Response = 1261146054 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



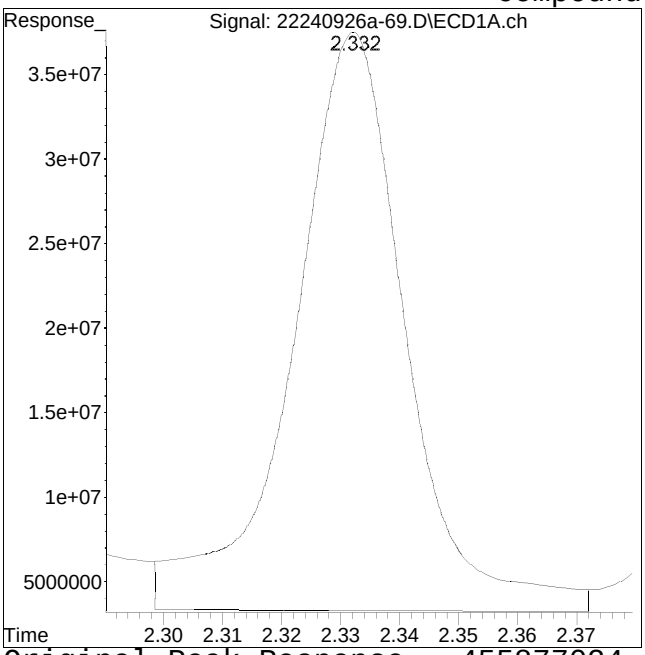


Original Peak Response = 1609599942 Manual Peak Response = 1598145604 M4
M4 = Poor automated baseline construction.

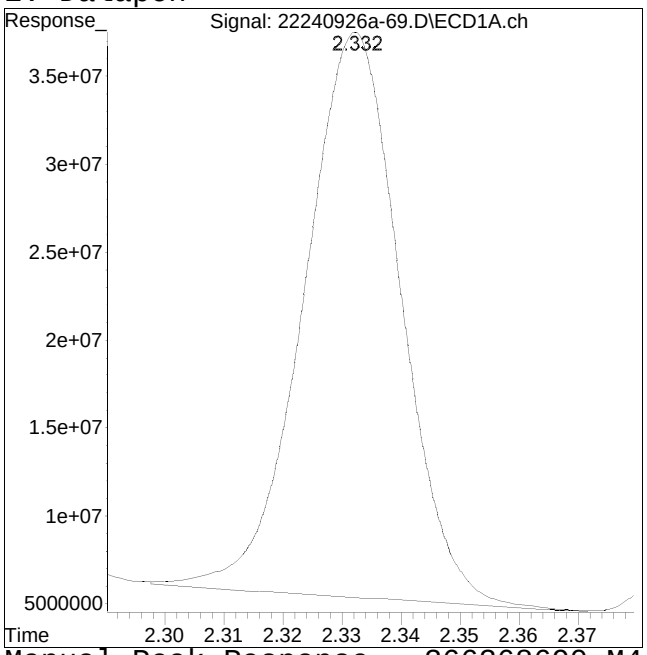
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #2: Dalapon



Original Peak Response = 455877024



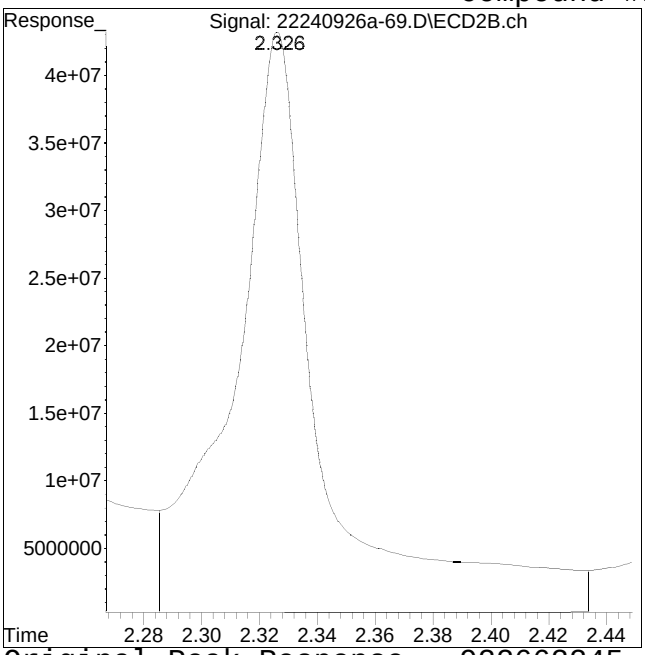
Manual Peak Response = 366368690 M4

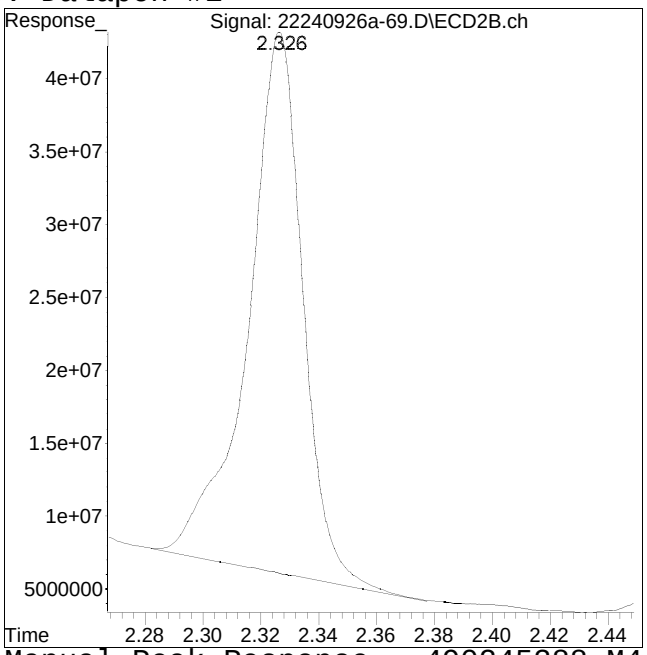
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #15: Dalapon #2



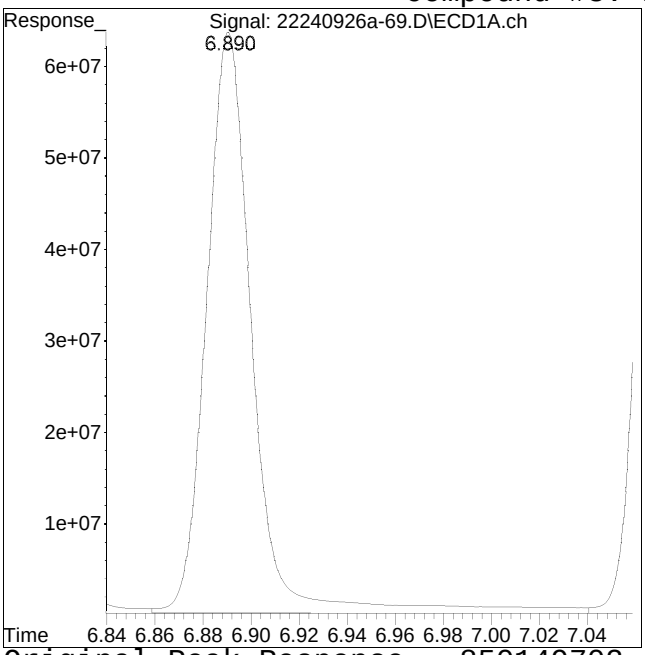


Original Peak Response = 922662245 Manual Peak Response = 490245388 M4
M4 = Poor automated baseline construction.

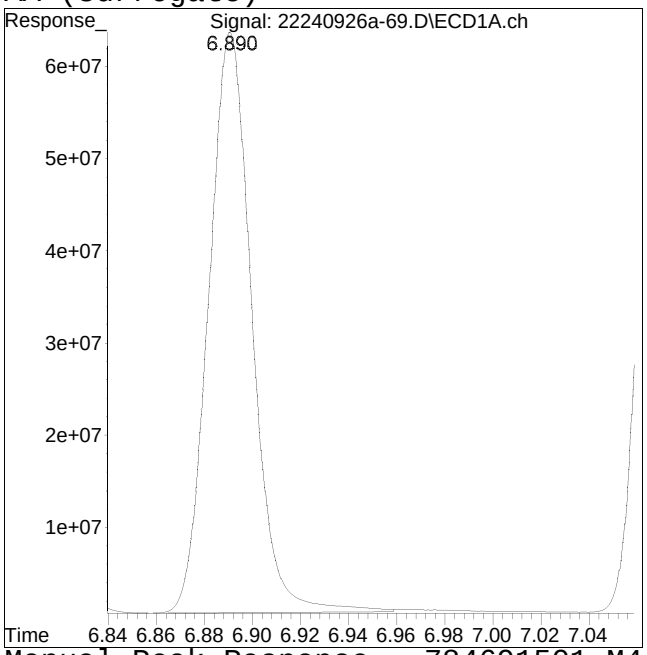
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



Original Peak Response = 850149702



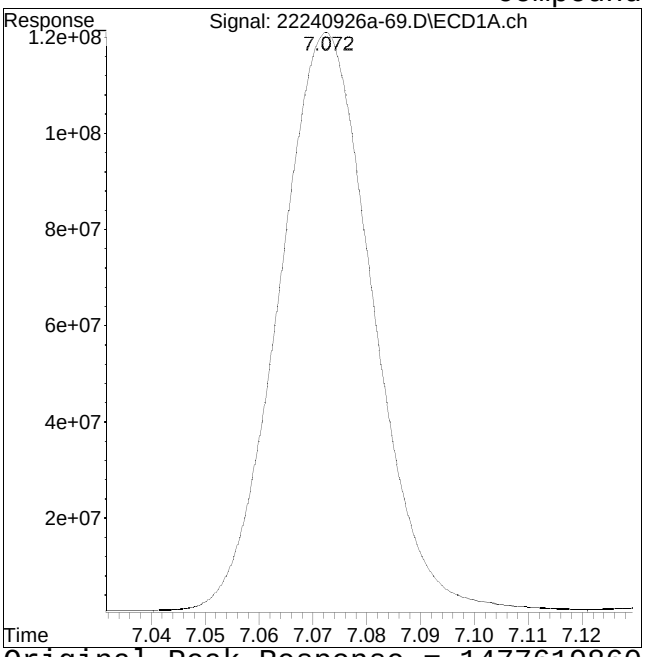
Manual Peak Response = 784691501 M4

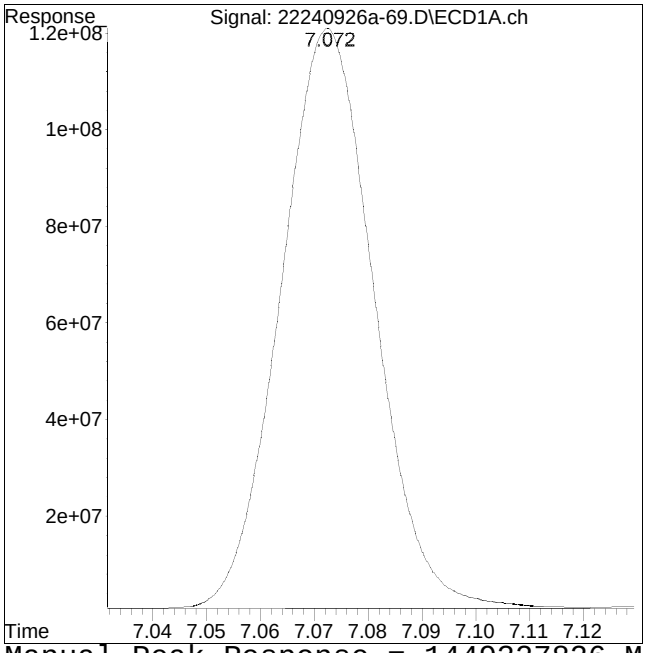
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #4: Dicamba



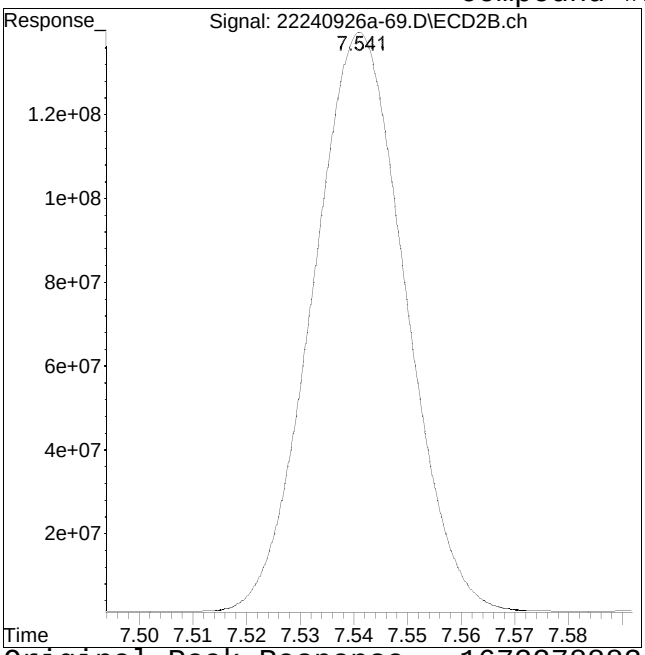


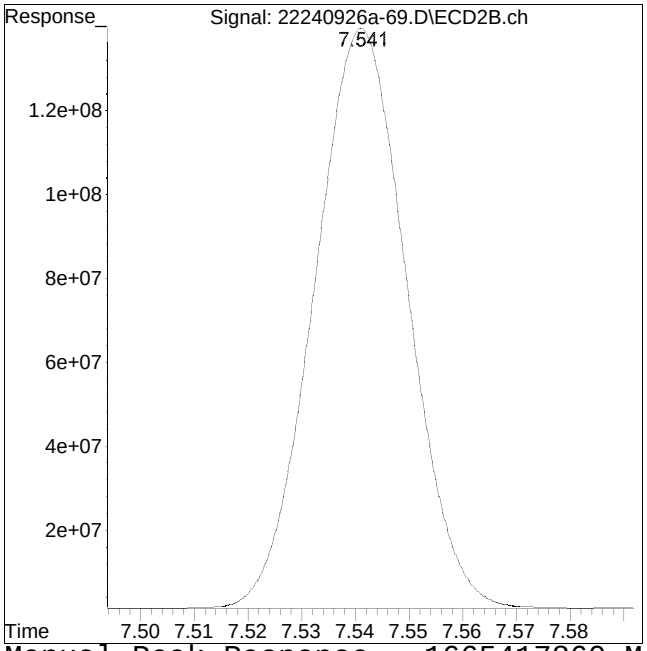
Original Peak Response = 1477619860 Manual Peak Response = 1449327826 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #17: Dicamba #2



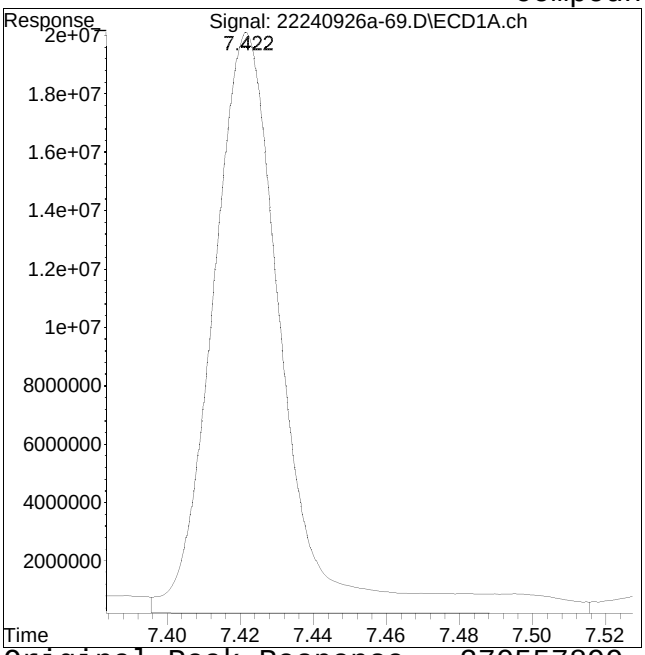


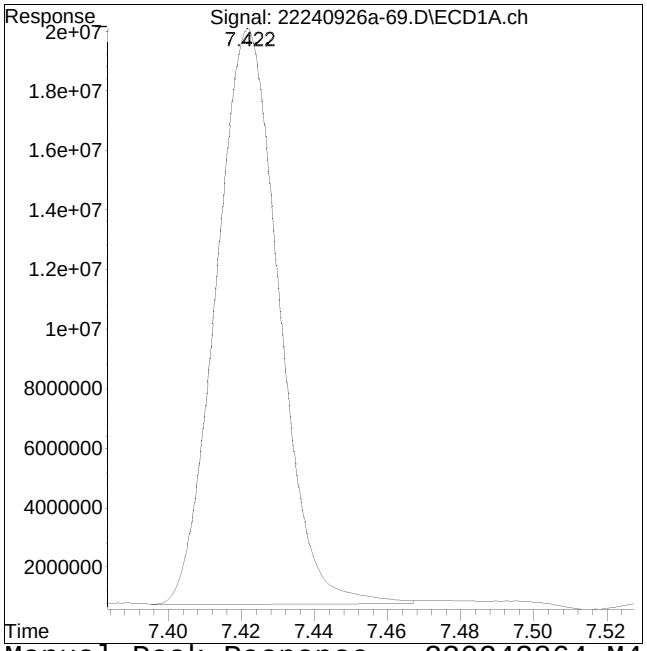
Original Peak Response = 1673278883 Manual Peak Response = 1665417860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #6: MCPA



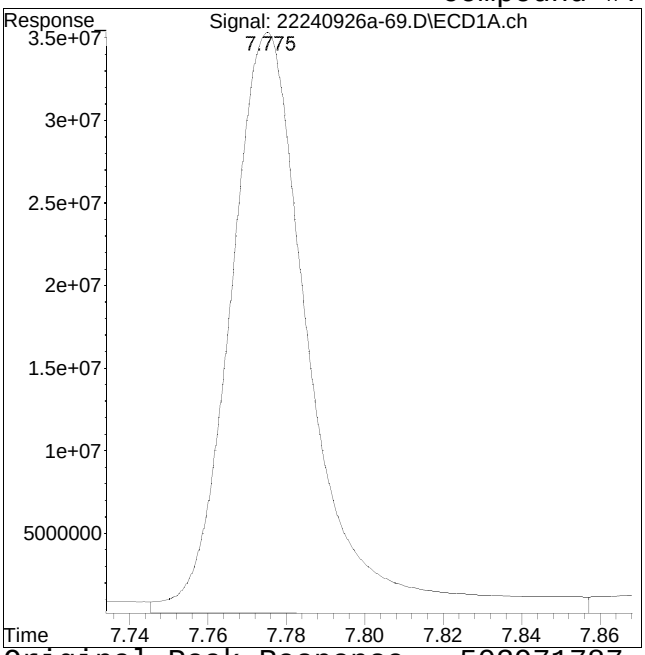


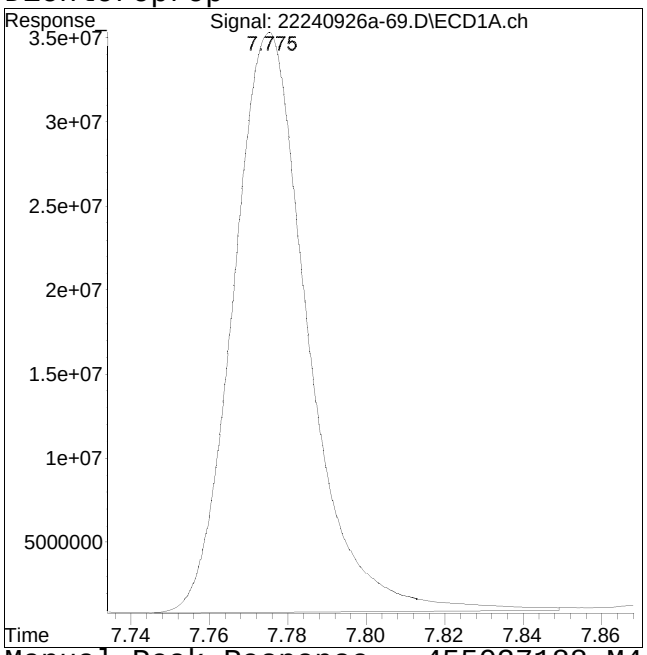
Original Peak Response = 270557899 Manual Peak Response = 230243864 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #7: Dichloroprop



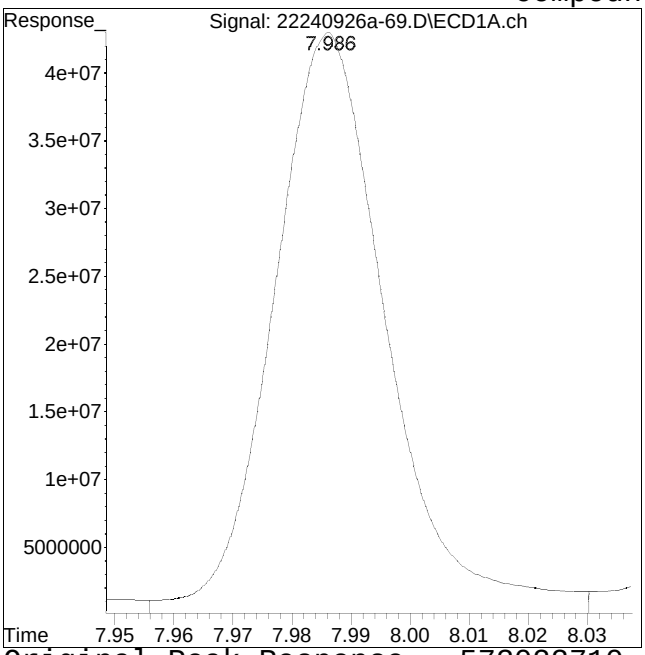


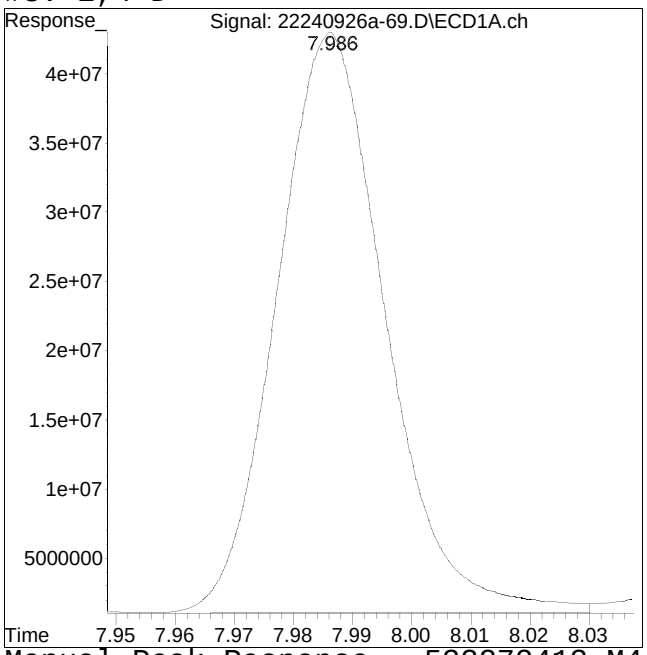
Original Peak Response = 503971787 Manual Peak Response = 455037188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #8: 2,4-D



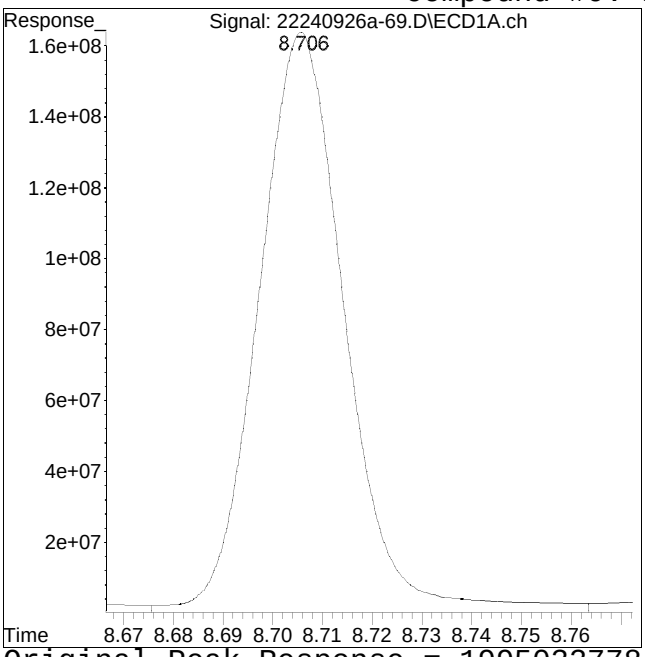


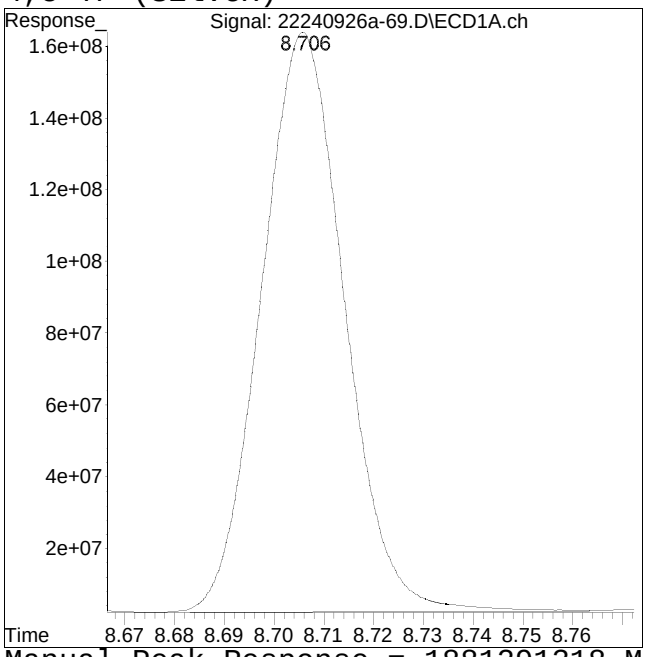
Original Peak Response = 573022710 Manual Peak Response = 532272413 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #9: 2,4,5-TP (Silvex)



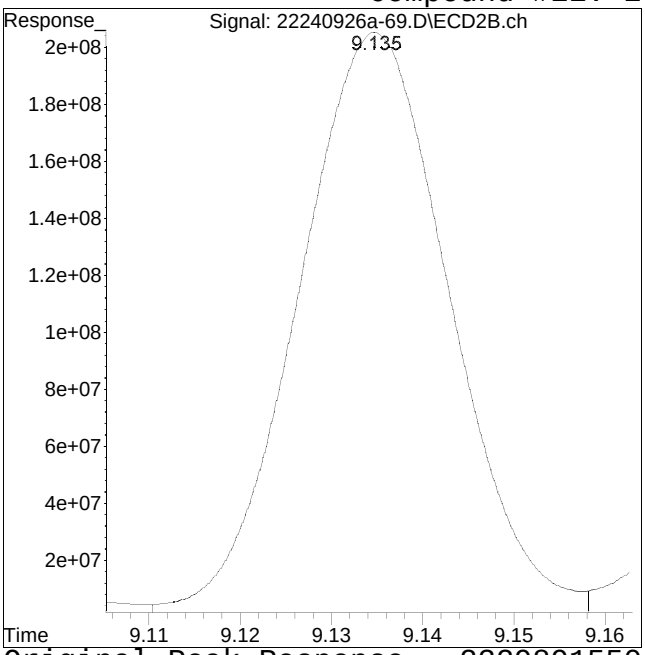


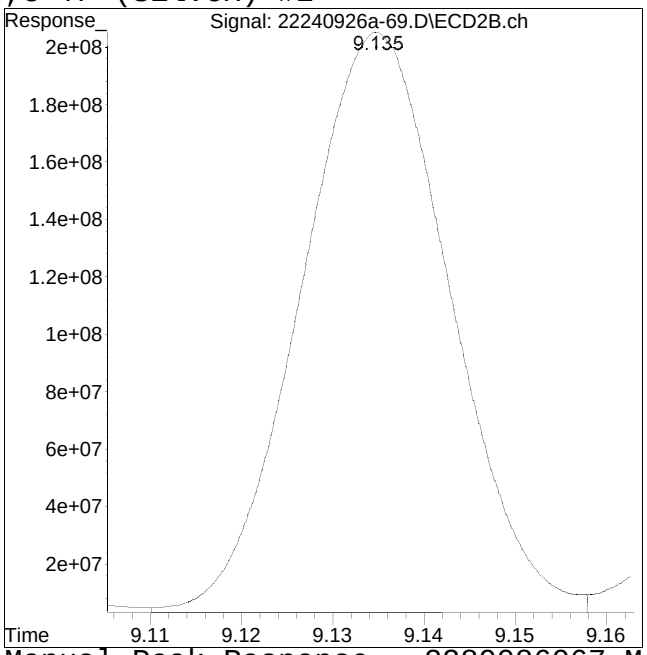
Original Peak Response = 1995033778 Manual Peak Response = 1881291318 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #22: 2,4,5-TP (Silvex) #2



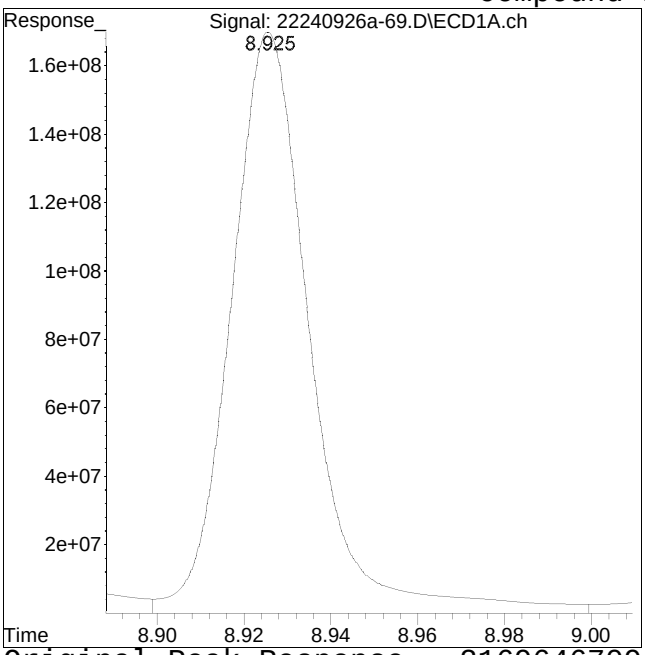


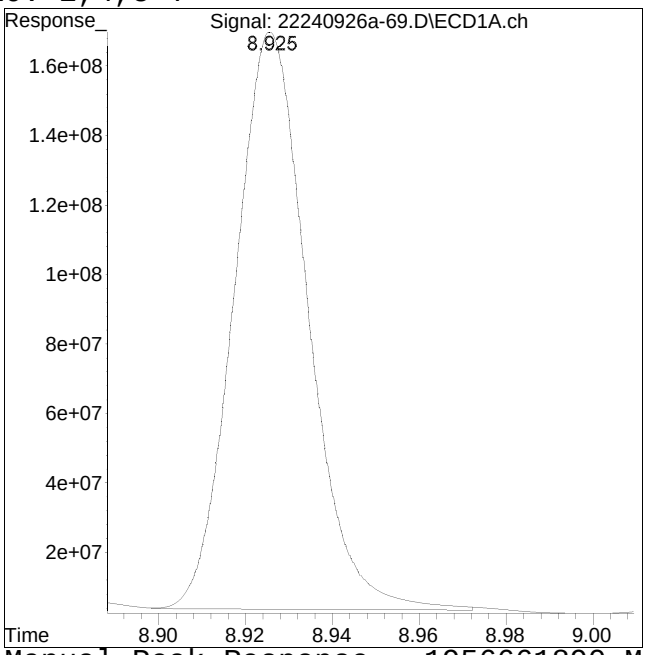
Original Peak Response = 2329891550 Manual Peak Response = 2289086067 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #10: 2,4,5-T



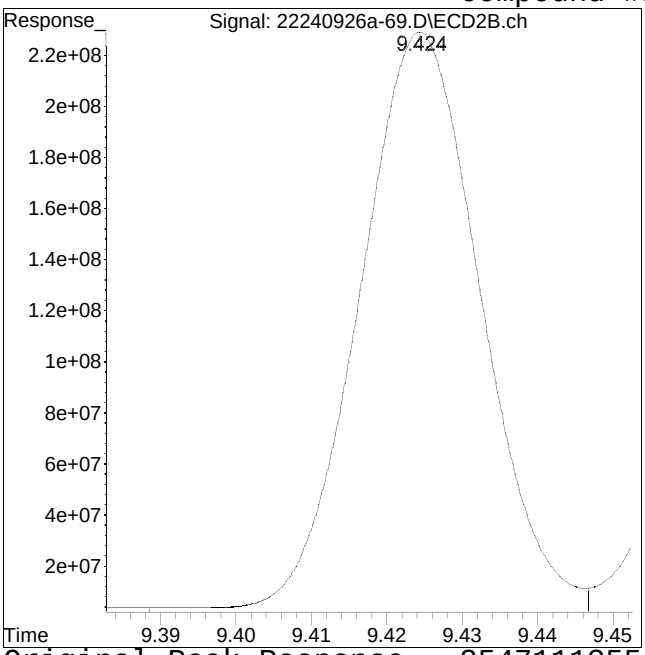


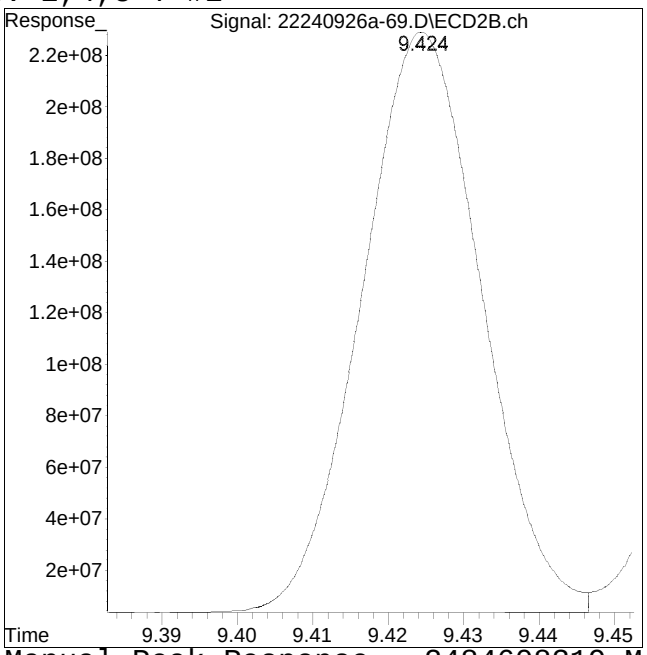
Original Peak Response = 2169646709 Manual Peak Response = 1956661890 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #23: 2,4,5-T #2



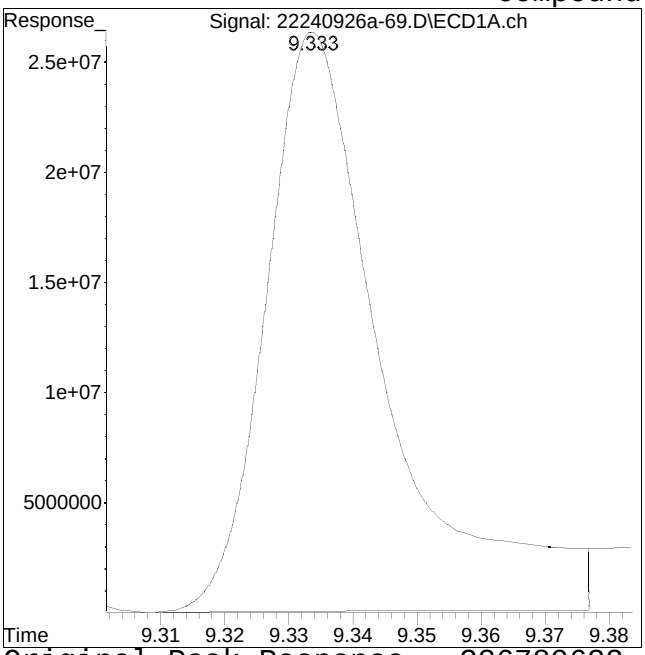


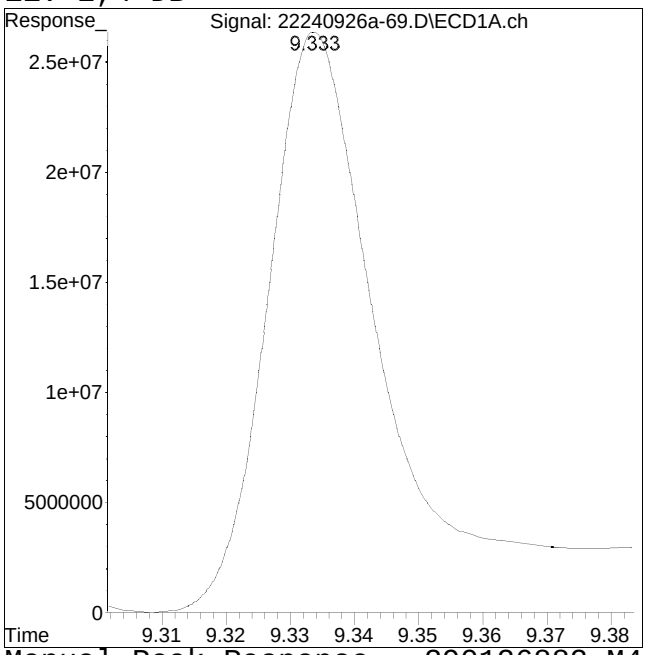
Original Peak Response = 2547111355 Manual Peak Response = 2484608319 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #11: 2,4-DB



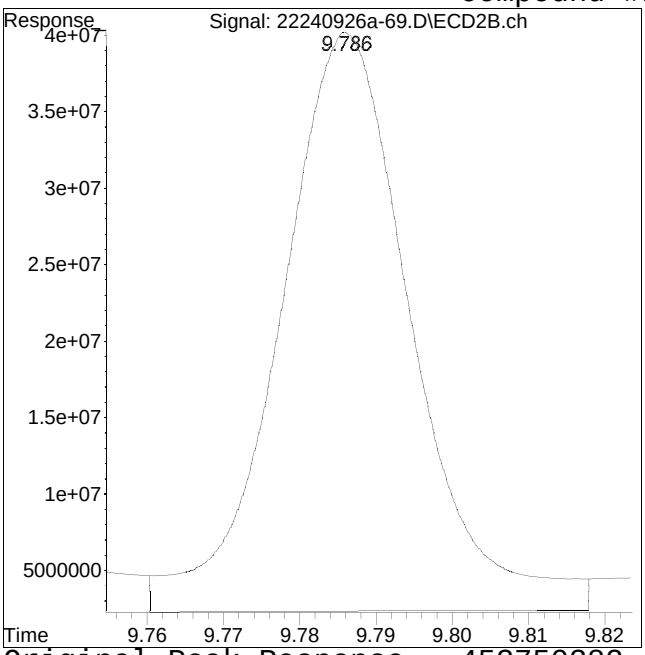


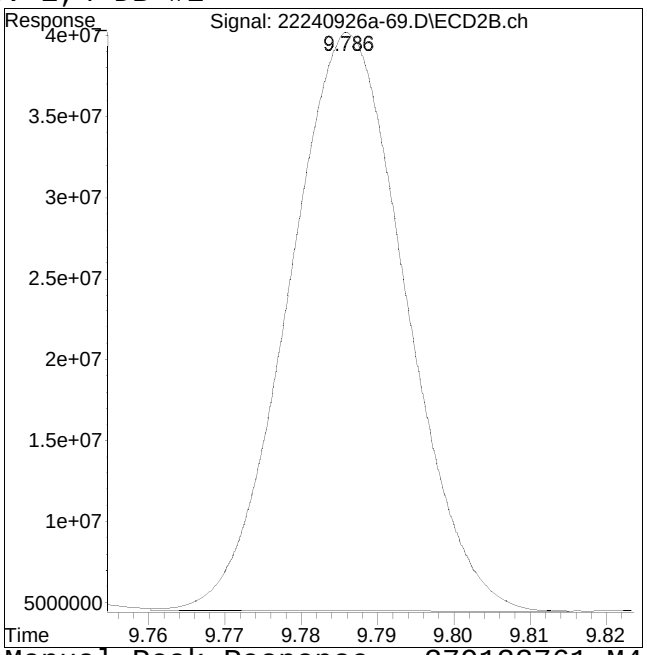
Original Peak Response = 336789622 Manual Peak Response = 290126882 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #24: 2,4-DB #2



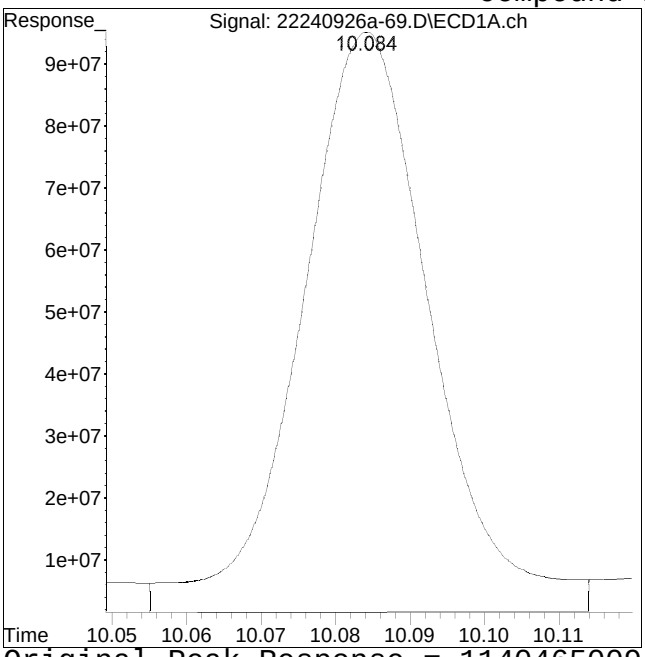


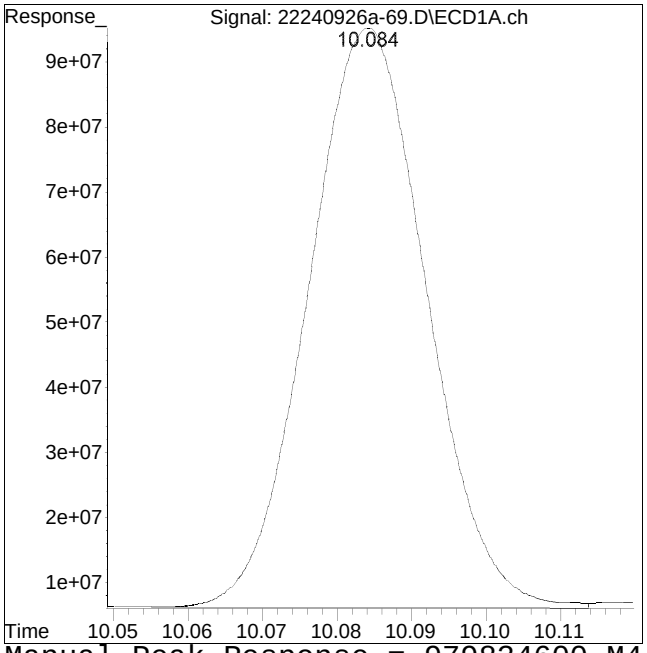
Original Peak Response = 453750382 Manual Peak Response = 379133761 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #12: Dinoseb



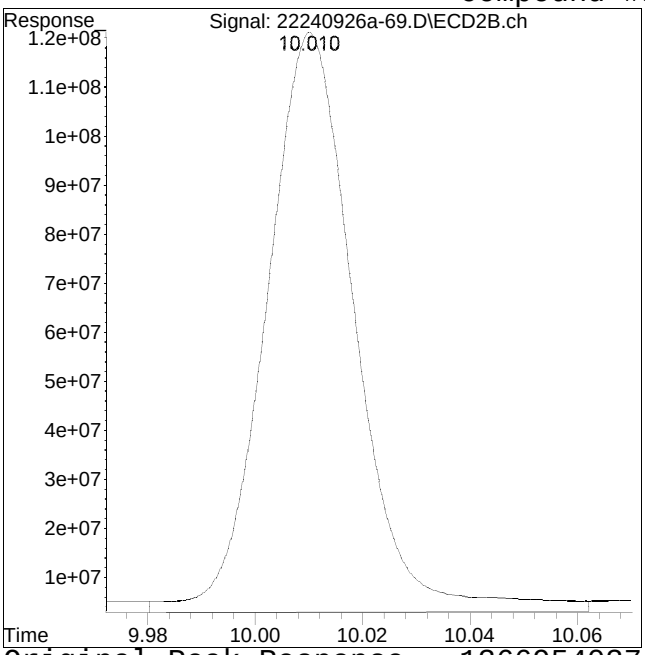


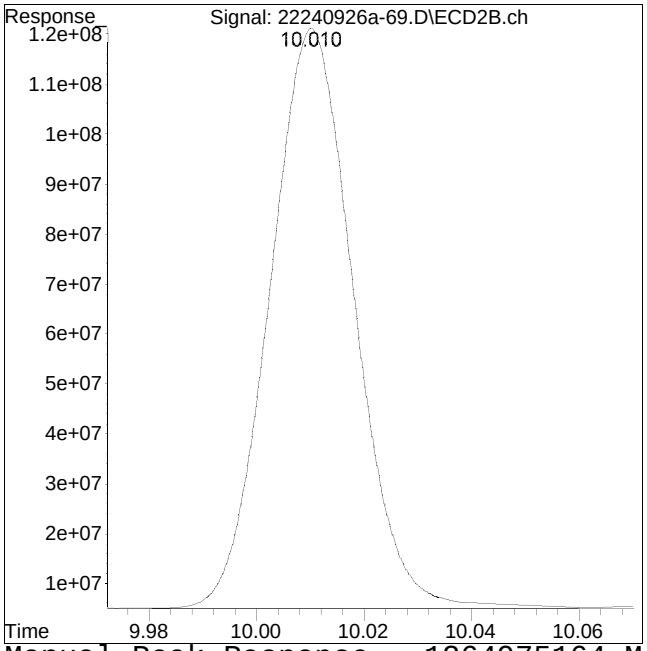
Original Peak Response = 1140465009 Manual Peak Response = 979834600 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-69.D Operator : pest22:akm
Date Inj'd : 9/27/2024 4:58 Instrument : Pest22
Sample : WG1976393-3,42,, 5958 Quant Date : 9/27/2024 8:51 am

Compound #25: Dinoseb #2





Original Peak Response = 1366954037 Manual Peak Response = 1264975164 M4
M4 = Poor automated baseline construction.

Calculation of Herbicides

Aqueous Concentration Formula:
ug/L = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Vs)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Vs – Initial volume extracted (mL)
RF – Mean response factor

Soil/Solid Concentration Formula:
ug/kg = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Ws)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Ws – Initial weight extracted (g)
RF – Mean response factor

Dep.: PEST
Inst: PEST_22
Date: **09/20/24**
Run: ical

Method
GC: herb

Seq: WG1975124
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	22240920i-01	blank,42e,,pp 11738 ---				
2	22240920i-02	il1herb,42e,,pp 11633 L0.005/5				PEG 9/21
3	22240920i-03	il2herb,42e,,pp 11632 L0.1/10				PEG 9/21
4	22240920i-04	il3herb,42e,,pp 11631 L0.2/20				PEG 9/21
5	22240920i-05	il4herb,42e,,pp 11630 L0.5/50				PEG 9/21
6	22240920i-06	il5herb,42e,,pp 11629 L1/100				PEG 9/21
7	22240920i-07	il6herb,42e,,pp 11628 L2/200				PEG 9/21
8	22240920i-08	cicv,42e,,pp 11634 L0.2/20 ICV			akm	PEG 9/21

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample		CCAL/Notes	Screen	Verified	initials
1	22240926a-01	herb11705	245t, a: 24d, silvex, 24db high, b: dino high, 6:13				PEG 9/26
2	22240926a-02	L2453730-01,42,,					AKM 9/26
3	22240926a-03	L2453730-03,42,,					AKM 9/26
4	22240926a-04	L2453730-04,42,,					AKM 9/26
5	22240926a-05	L2453730-07,42,,					AKM 9/26
6	22240926a-06	L2453730-10,42,,		re, s			AKM 9/26
7	22240926a-07	L2453730-11,42,,					AKM 9/26
8	22240926a-08	L2453730-13,42,,					AKM 9/26
9	22240926a-09	L2453616-07,42,,					AKM 9/26
10	22240926a-10	L2453616-13,42,,					AKM 9/26
11	22240926a-11	L2453616-15,42,,					AKM 9/26
12	22240926a-12	herb11705	a: dicamba high, 11:20				AKM 9/26
13	22240926a-13	L2454005-01,42,,	p				JAG 9/26
14	22240926a-14	WG1975530-4,42,,	ms				JAG 9/26
15	22240926a-15	WG1975530-5,42,,	dup			peg	JAG 9/26
16	22240926a-16	WG1976389-1,42,,	t	t 22-SEP-24 07:00			JAG 9/26
17	22240926a-17	WG1976389-2,42,,	t	t 22-SEP-24 07:00			JAG 9/26
18	22240926a-18	WG1976389-3,42,,	t	t 22-SEP-24 07:00			JAG 9/26
19	22240926a-19	L2453929-01,42,,,R3E	t	t 22-SEP-24 07:00			JAG 9/26
20	22240926a-20	L2453730-02,42,,					JAG 9/26
21	22240926a-21	L2453730-05,42,,					JAG 9/26
22	22240926a-22	L2453730-06,42,,					JAG 9/26
23	22240926a-23	L2453730-08,42,,					JAG 9/26
24	22240926a-24	L2453730-09,42,,					JAG 9/26
25	22240926a-25	L2453730-12,42,,				akm	JAG 9/26
26	22240926a-26	L2453730-14,42,,					JAG 9/26
27	22240926a-27	L2453620-01,42,,					JAG 9/26
28	22240926a-28	herb11705	15% 16:17				JAG 9/26
29	22240926a-29	L2454080-01,42,,					JAG 9/26
30	22240926a-30	L2454080-02,42,,					JAG 9/26
31	22240926a-31	L2454080-03,42,,					JAG 9/26
32	22240926a-32	L2454088-01,42,,					JAG 9/26
33	22240926a-33	L2454088-02,42,,					JAG 9/26
34	22240926a-34	L2454088-03,42,,					JAG 9/26
35	22240926a-35	L2454088-04,42,,					JAG 9/26
36	22240926a-36	L2454288-01,42,,,R5E					JAG 9/26
37	22240926a-37	L2454548-01,42,,,R3C					JAG 9/26
38	22240926a-38	L2454548-02,42,,,R3C					JAG 9/26
39	22240926a-39	herb11705	15% 19:41				JAG 9/26
40	22240926a-40	L2454548-03,42,,,R3C				peg	AKM 9/27
41	22240926a-41	L2454657-01,42,,					AKM 9/27
42	22240926a-42	L2454657-02,42,,					AKM 9/27
43	22240926a-43	L2454657-03,42,,					AKM 9/27
44	22240926a-44	L2453915-01,42,,	t	t 22-sep-24 07:00			AKM 9/27
45	22240926a-45	L2453876-01,42,,	t	t 22-sep-24 07:00			AKM 9/27

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
46	22240926a-46	L2453870-01,42,, t	t 22-sep-24 07:00			AKM 9/27
47	22240926a-47	L2453620-02,42,,			akm	AKM 9/27
48	22240926a-48	WG1976116-1,42,, 181 182 183				AKM 9/27
49	22240926a-49	WG1976116-2,42,, 181 182 183				AKM 9/27
50	22240926a-50	WG1976116-3,42,, 181 182 183				AKM 9/27
51	22240926a-51	L2454093-01,42,,				AKM 9/27
52	22240926a-52	L2454093-02,42,,				AKM 9/27
53	22240926a-53	herb11705 15% 00:01				AKM 9/27
54	22240926a-54	L2454093-03,42,,				AKM 9/27
55	22240926a-55	L2454093-04,42,,				AKM 9/27
56	22240926a-56	L2454093-05,42,,				AKM 9/27
57	22240926a-57	L2454093-06,42,,				AKM 9/27
58	22240926a-58	L2454093-07,42,,				AKM 9/27
59	22240926a-59	L2454093-08,42,,				AKM 9/27
60	22240926a-60	L2454093-09,42,,				AKM 9/27
61	22240926a-61	L2454093-10,42,,				AKM 9/27
62	22240926a-62	L2454093-11,42,,				AKM 9/27
63	22240926a-63	L2454093-12,42,,				AKM 9/27
64	22240926a-64	herb11705 15% 3:26				AKM 9/27
65	22240926a-65	L2454093-13,42,,				AKM 9/27
66	22240926a-66	L2454093-14,42,,			jag	AKM 9/27
67	22240926a-67	WG1976393-1,42,, 5958				AKM 9/27
68	22240926a-68	WG1976393-2,42,, 5958				AKM 9/27
69	22240926a-69	WG1976393-3,42,, 5958				AKM 9/27
70	22240926a-70	L2454059-01,42,,				AKM 9/27
71	22240926a-71	L2454059-02,42,,				AKM 9/27
72	22240926a-72	L2453975-23,42,,				AKM 9/27
73	22240926a-73	L2453720-02,42,, p				AKM 9/27
74	22240926a-74	WG1975468-4,42,, ms				AKM 9/27
75	22240926a-75	WG1975468-5,42,, msd				AKM 9/27
76	22240926a-76	L2453720-01,42,,				AKM 9/27
77	22240926a-77	L2453720-03,42,,				AKM 9/27
78	22240926a-78	L2453720-04,42,,				AKM 9/27
79	22240926a-79	L2453720-06,42,,				AKM 9/27
80	22240926a-80	herb11705				
81	22240926a-81	L2453720-07,42,,				
82	22240926a-82	L2453720-08,42,,				
83	22240926a-83	L2453720-09,42,,				
84	22240926a-84	L2454380-01,42,,				
85	22240926a-85	L2454380-02,42,,			jag	
86	22240926a-86	WG1976232-1,42,, mcp				
87	22240926a-87	WG1976232-2,42,, mcp				
88	22240926a-88	WG1976232-3,42,, mcp				
89	22240926a-89	L2454348-01,42,,,R3E mcp				
90	22240926a-90	L2454348-02,42,,,R3E mcp				

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
91	22240926a-91	L2454348-03,42,,,R3E mcp				
92	22240926a-92	L2454348-04,42,,,R3E mcp				
93	22240926a-93	L2454348-05,42,,,R3E mcp				
94	22240926a-94	herb11705				
95	22240926a-95	L2454348-06,42,,,R3E mcp				
96	22240926a-96	L2454348-07,42,,,R3E mcp				
97	22240926a-97	L2454348-08,42,,,R3E mcp				
98	22240926a-98	L2454348-09,42,,,R3E mcp				
99	22240926a-99	L2454348-10,42,,,R3E mcp			peg	

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 27 2024, 10:24 am

Work Group: WG1976393 for Department: 2 Organic Preparation

Created: 25-SEP-24 Due: Operator: SHD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2454059-01	MW-4S	S	HERB-8151	WATER	DONE	U	0926	0926	S0	Amber-A1
L2454059-02	MW-4D2	S	HERB-8151	WATER	DONE	U	0926	0926	S0	Amber-A1
WG1976393-1	Laboratory Method Bl	S	HERB-8151	WATER	DONE	U				
WG1976393-2	Laboratory Control S	S	HERB-8151	WATER	DONE	U				
WG1976393-3	LCS Duplicate	S	HERB-8151	WATER	DONE	U				

Comments:

WG1976393-3 WG1976393-2

ORGANIC ELN REPORT

Workgroup: WG1976393

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 24050143
Surrogate Type: Herbicide **Lot #:** PP11710BC-012625
Spike Type: Herbicides **Lot #:** PP11709AD-012525
Spike Verify by: MAD/SHD
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A091224
25% NaOH	Na091024
Acidified Na2SO4	AS092524
DCM	EJ089
Diethyl ether	24050143
Na2S2O3	NA
NaCl	24C2556110

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 24050143

Additional Reagents/Stds

Acidified Na2SO4	AS092624
Diazomethane	D092524
Hexane	EJ061
Isooctane	STBK8849
Methanol	63054
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2454059-01 SAMP	09/25/24 23:56	Samy Dakkash	1000	>12, <2	-	.5		09/26/24 02:20	09/26/24 03:50	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:00	10	G&J, N#7
L2454059-02 SAMP	09/25/24 23:56	Samy Dakkash	1000	>12, <2	-	.5		09/26/24 02:20	09/26/24 03:50	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:00	10	G&J, N#7
WG1976393-1 BLANK	09/25/24 07:06	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:00	10	G&J, N#7
	WG1975958														
WG1976393-2 LCS	09/25/24 07:06	Michael Daring	1000	>12, <2	-	.5	.5	09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:00	10	G&J, N#7
WG1976393-3 LCSD	09/25/24 07:06	Michael Daring	1000	>12, <2	-	.5	.5	09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:00	10	G&J, N#7

Reported: 27-SEP-24 10:24 AM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

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

Lab Number: L2454059
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-4S (L2454059-01)	83	71	79	69			0
MW-4D2 (L2454059-02)	90	78	87	75			0
WG1976835-1BLANK	75	66	75	69			0
WG1976835-2LCS	80	67	85	75			0
WG1976835-3LCSD	80	67	84	74			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976835-2 **Analysis Date** : 09/27/24 07:23	**File ID**	: P2240927a-09
LCSD Sample ID	: WG1976835-3 **Analysis Date** : 09/27/24 07:32	**File ID**	: P2240927a-10

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.40	78	1.78	1.46	82	4	40-140	50
Aroclor 1260	1.78	1.46	82	1.78	1.47	82	1	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976835-1	**Lab File ID**	: P2240927a-44
Matrix	: WATER	**Extraction Date**	: 09/26/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 09/27/24 15:17	**Analysis Date (2)**	: 09/27/24 15:17
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1976835-2LCS	WG1976835-2	09/27/24 07:23	09/27/24 07:23
WG1976835-3LCSD	WG1976835-3	09/27/24 07:32	09/27/24 07:32
MW-4S	L2454059-01	09/27/24 16:01	09/27/24 16:01
MW-4D2	L2454059-02	09/27/24 16:10	09/27/24 16:10

Analytical Sequence
Form 8b
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 09/16/24 09/16/24

Client ID	Lab ID	Date/Time Analyzed
1016/1260 L1 (4ug/L)	R1876926-1	09/16/24 15:29
1016/1260 L2 (10ug/L)	R1876926-2	09/16/24 15:38
1016/1260 L3 (20ug/L)	R1876926-3	09/16/24 15:47
1016/1260 L4 (30ug/L)	R1876926-4	09/16/24 15:55
1016/1260 L5 (40ug/L)	R1876926-5	09/16/24 16:04
1016/1260 L6 (50ug/L)	R1876926-6	09/16/24 16:13
1016/1260 L7 (100ug/L)	R1876926-8	09/16/24 16:22
1016/1260 L8 (250ug/L)	R1876926-7	09/16/24 16:30
1016/1260 L9 (500ug/L)	R1876926-9	09/16/24 16:39
1016/1260 L10 (1000ug/L)	R1876926-10	09/16/24 16:48
R1876926-11 ICV	R1876926-11	09/16/24 16:56
1221/1254 L8 (250ug/L)	R1876926-12	09/16/24 17:14
1248 L8 (250ug/L)	R1876926-13	09/16/24 17:23
1232/1262 L8 (250ug/L)	R1876926-14	09/16/24 17:32
1242/1268 L8 (250ug/L)	R1876926-15	09/16/24 17:41
R1876926-16 ICV	R1876926-16	09/16/24 17:49
R1876926-17 ICV	R1876926-17	09/16/24 17:58
R1876926-19 ICV	R1876926-19	09/16/24 18:07
R1876926-18 ICV	R1876926-18	09/16/24 18:15
WG1977023-1 CCAL	WG1977023-1	09/27/24 05:57
WG1976835-2 LCS	WG1976835-2	09/27/24 07:23
WG1976835-3 LCSD	WG1976835-3	09/27/24 07:32
WG1977023-5 CCAL	WG1977023-5	09/27/24 12:25
WG1977023-6 CCAL	WG1977023-6	09/27/24 13:29
WG1976835-1 BLANK	WG1976835-1	09/27/24 15:17
MW-4S	L2454059-01	09/27/24 16:01
MW-4D2	L2454059-02	09/27/24 16:10

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

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

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 16:01
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240927a-49	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 16:10
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240927a-50	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976835-1	**Date Collected**	: NA
Client ID	: WG1976835-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 15:17
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240927a-44	**Analyst**	: RMP
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	0.114	0.071	0.061	
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	0.114	0.071	0.061	

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:01
Operator : pest2:emr
Sample : L2454059-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 49 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:44 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.250	228.8E6	294.3E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 187110407				Recovery = 122.29%		
	Standard Area 1 : #2 = 283066218				Recovery = 103.98%		
14) i	2154_1br2nb	1.184	1.250	228.8E6	294.3E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.184	1.250	228.8E6	294.3E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.184	1.250	228.8E6	294.3E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.184	1.250	228.8E6	294.3E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.465	1.618	221.2E6	275.3E6	16.662	14.274M4
	Spiked Amount 20.000	Range 30 - 150			Recovery = 83.31%		71.37%
3) s	Decachlorobi	4.011	4.515	166.1E6	178.8E6	15.726	13.790M4
	Spiked Amount 20.000	Range 30 - 150			Recovery = 78.63%		68.95%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:01
Operator : pest2:emr
Sample : L2454059-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 49 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:44 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:01
Operator : pest2:emr
Sample : L2454059-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 49 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:44 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:01
Operator : pest2:emr
Sample : L2454059-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 49 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:44 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

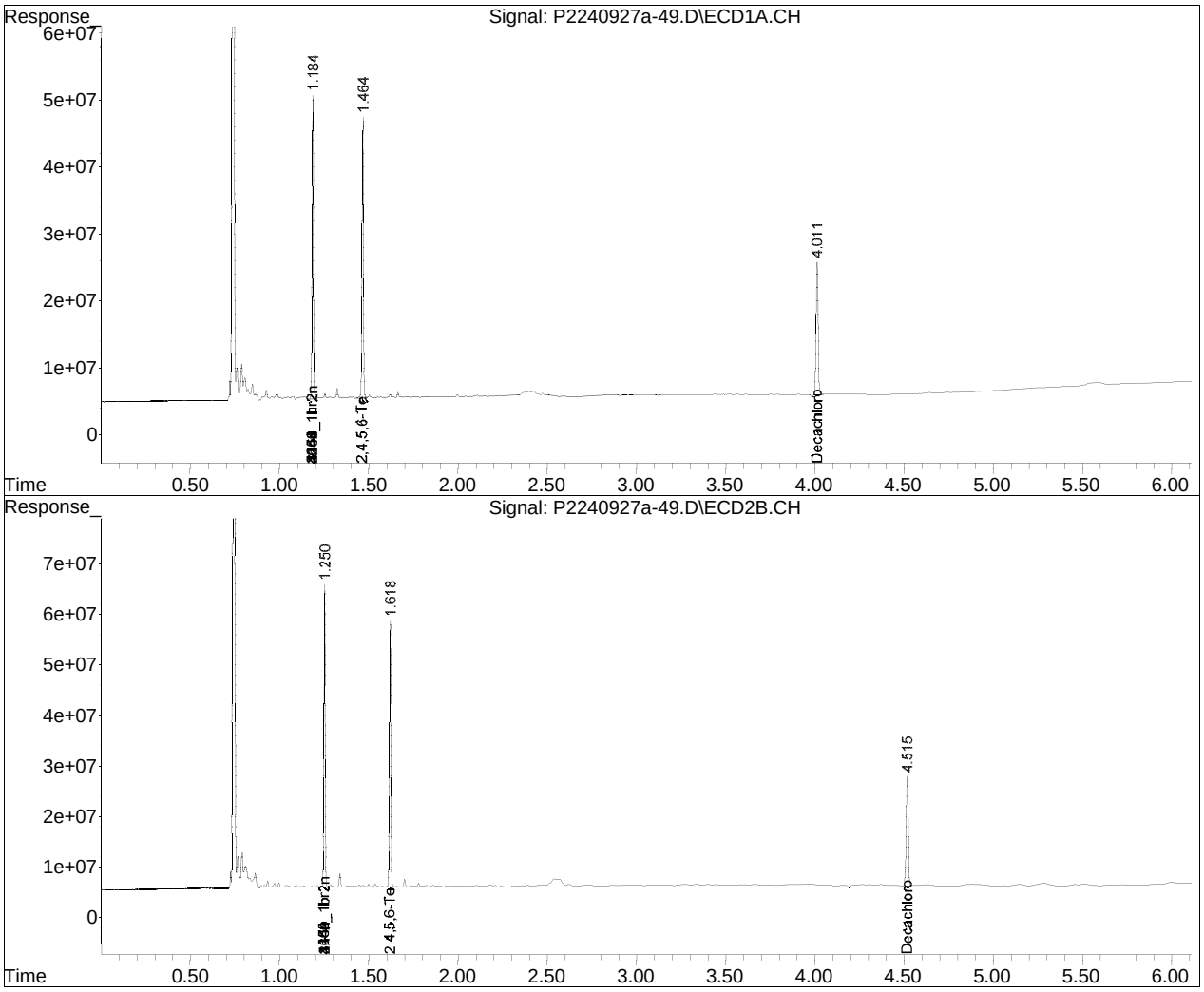
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240927a-31.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:01
Operator : pest2:emr
Sample : L2454059-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21
ALS Vial : 49 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:44 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

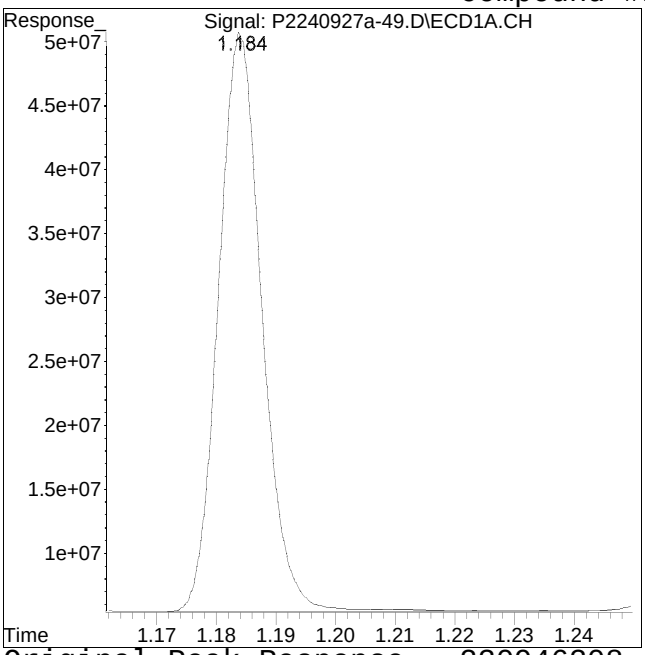
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

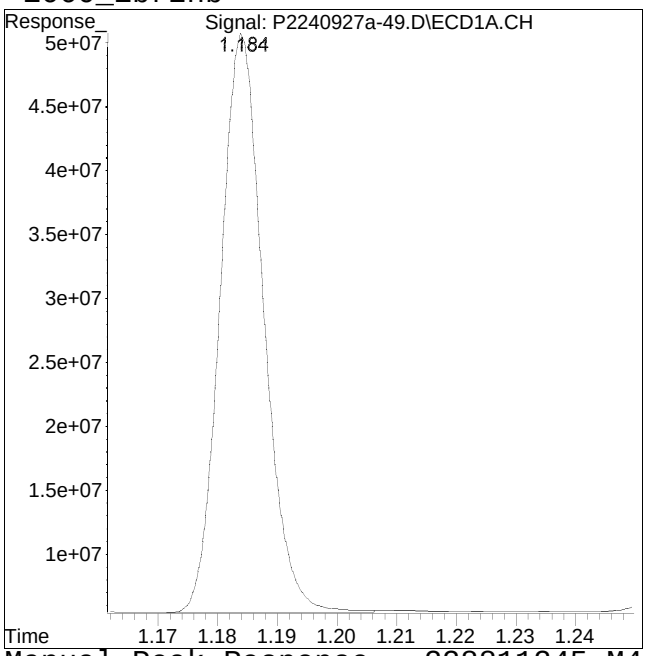


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-49.D Operator : pest2:emr
Date Inj'd : 9/27/2024 16:01 Instrument : Pest 2
Sample : L2454059-01,42,, Quant Date : 9/29/2024 1:26 pm

Compound #1: 1660_1br2nb



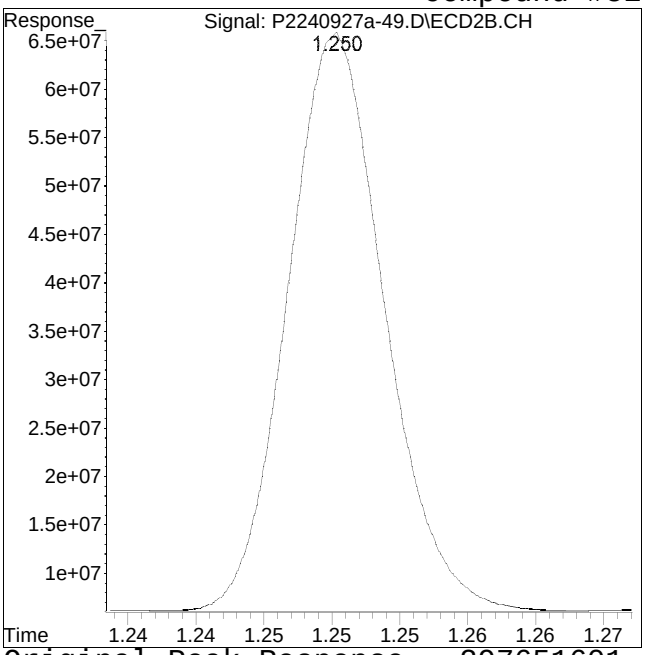


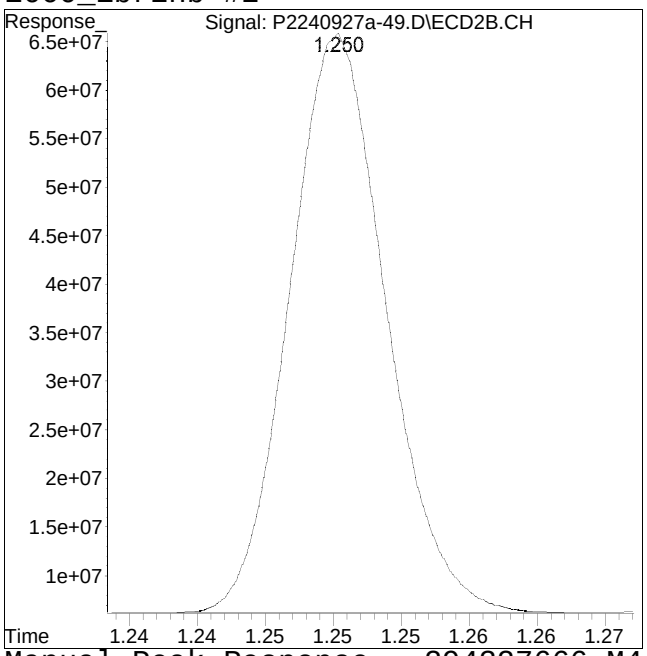
Original Peak Response = 230946308 Manual Peak Response = 228811245 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-49.D Operator : pest2:emr
Date Inj'd : 9/27/2024 16:01 Instrument : Pest 2
Sample : L2454059-01,42,, Quant Date : 9/29/2024 1:26 pm

Compound #52: 1660_1br2nb #2



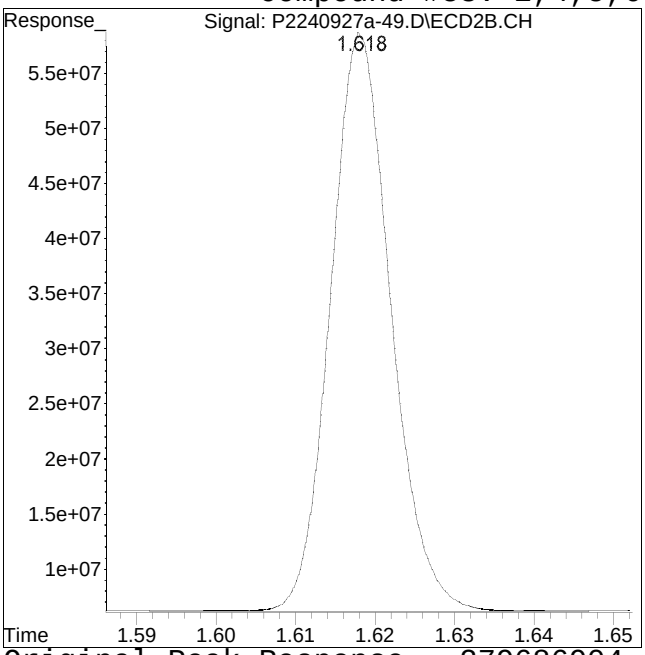


Original Peak Response = 297651601 Manual Peak Response = 294327666 M4
M4 = Poor automated baseline construction.

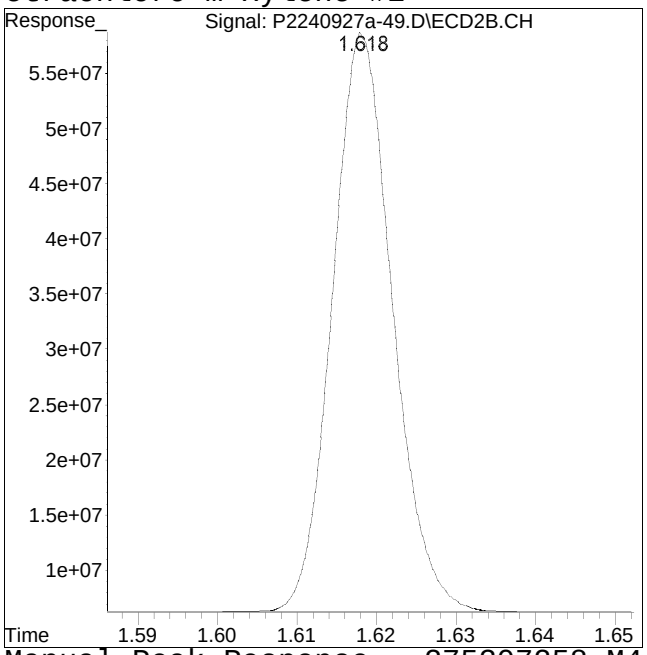
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-49.D Operator : pest2:emr
Date Inj'd : 9/27/2024 16:01 Instrument : Pest 2
Sample : L2454059-01,42,, Quant Date : 9/29/2024 1:26 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 279686904



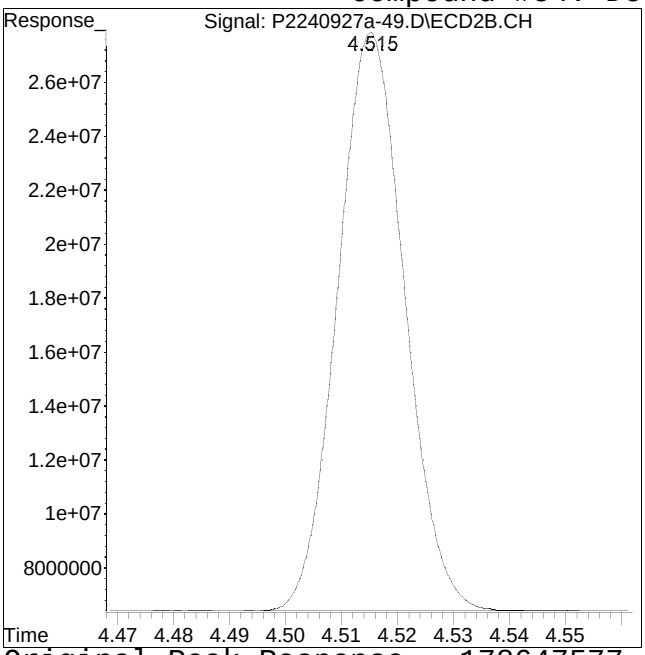
Manual Peak Response = 275307258 M4

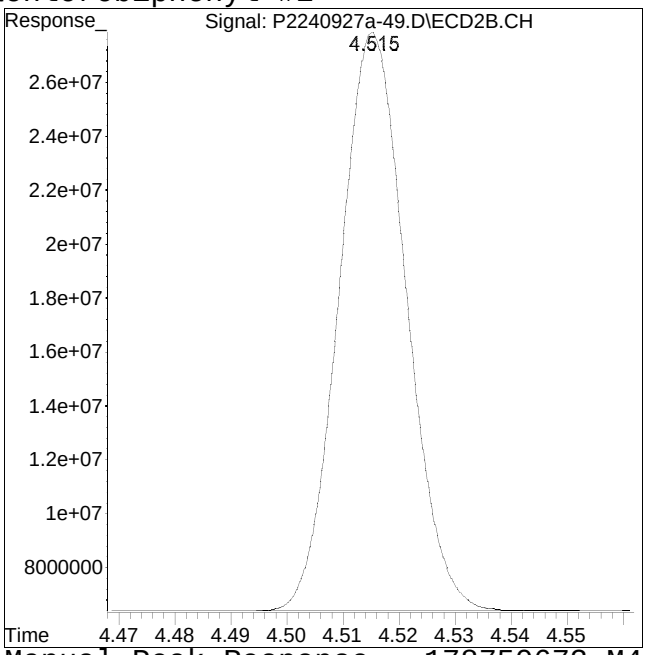
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-49.D Operator : pest2:emr
Date Inj'd : 9/27/2024 16:01 Instrument : Pest 2
Sample : L2454059-01,42,, Quant Date : 9/29/2024 1:26 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 178647577 Manual Peak Response = 178750673 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-50.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:10
Operator : pest2:emr
Sample : L2454059-02,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 50 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:47 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.250	225.2E6	288.1E6	25.000	25.000M4
	Standard Area 1 : #1 = 187110407				Recovery =	120.37%	
	Standard Area 1 : #2 = 283066218				Recovery =	101.77%	
14) i	2154_1br2nb	1.184	1.250	225.2E6	288.1E6	25.000	25.000M4
23) i	4268_1br2nb	1.184	1.250	225.2E6	288.1E6	25.000	25.000M4
34) i	1248_1br2nb	1.184	1.250	225.2E6	288.1E6	25.000	25.000M4
40) i	3262_1br2nb	1.184	1.250	225.2E6	288.1E6	25.000	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.465	1.618	235.1E6	292.7E6	17.985	15.501
	Spiked Amount 20.000	Range 30 - 150			Recovery =	89.92%	77.50%
3) s	Decachlorobi	4.011	4.515	181.2E6	189.8E6	17.434M4	14.956M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	87.17%	74.78%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-50.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:10
Operator : pest2:emr
Sample : L2454059-02,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 50 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:47 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-50.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:10
Operator : pest2:emr
Sample : L2454059-02,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 50 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:47 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-50.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:10
Operator : pest2:emr
Sample : L2454059-02,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 50 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:47 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

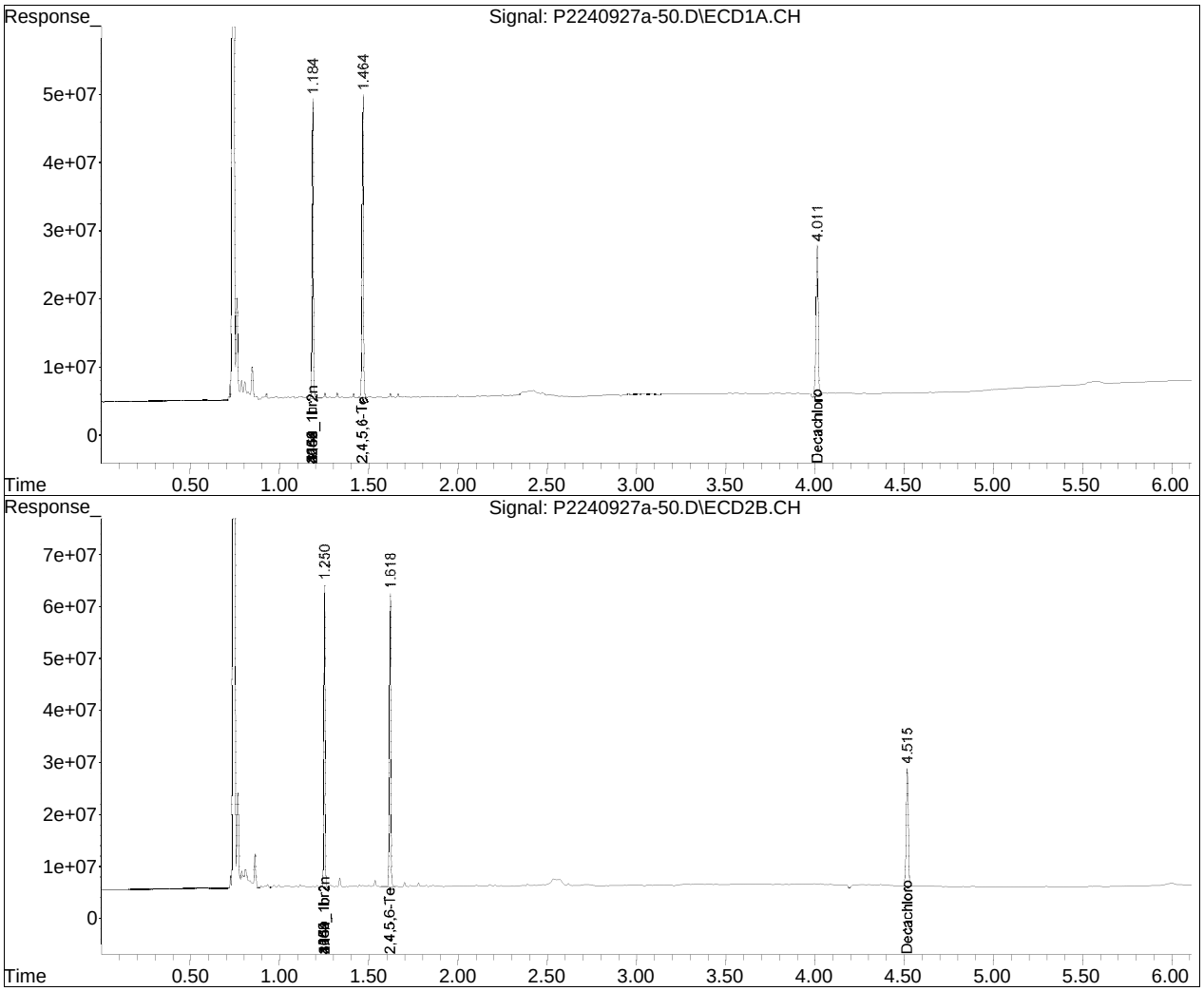
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240927a-31.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-50.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:10
Operator : pest2:emr
Sample : L2454059-02,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21
ALS Vial : 50 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:47 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

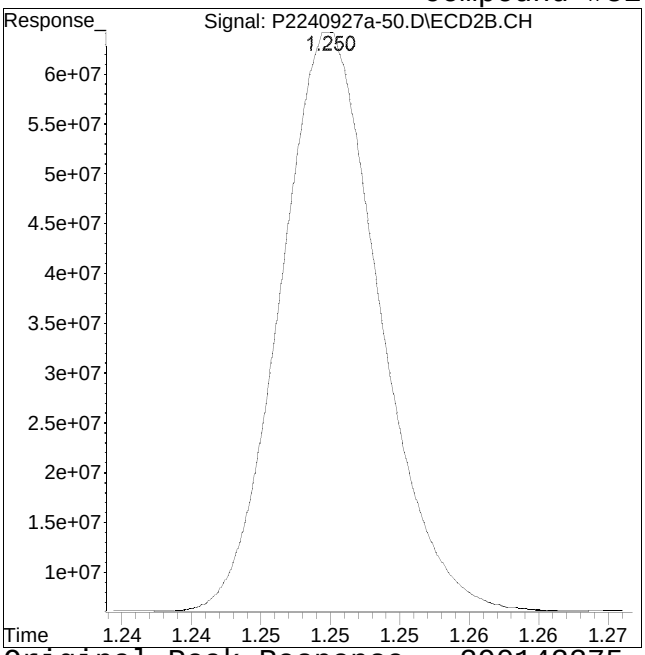
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

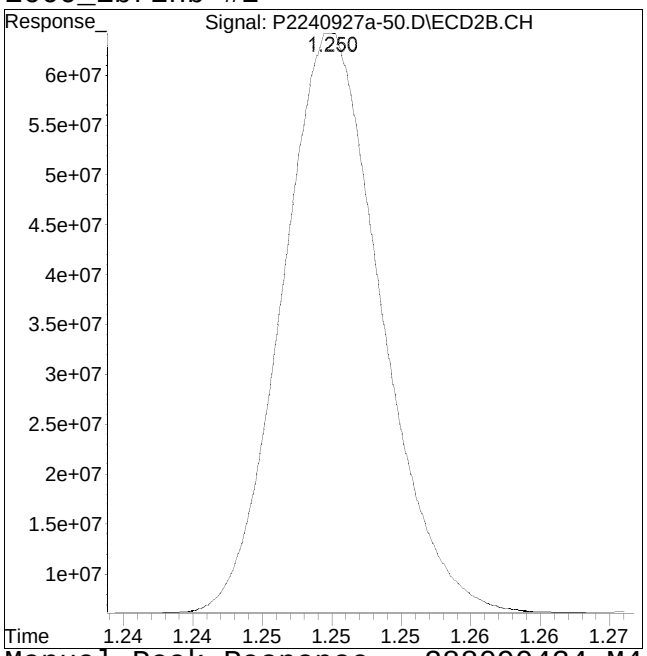


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-50.D Operator : pest2:emr
Date Inj'd : 9/27/2024 16:10 Instrument : Pest 2
Sample : L2454059-02,42,, Quant Date : 9/29/2024 1:26 pm

Compound #52: 1660_1br2nb #2



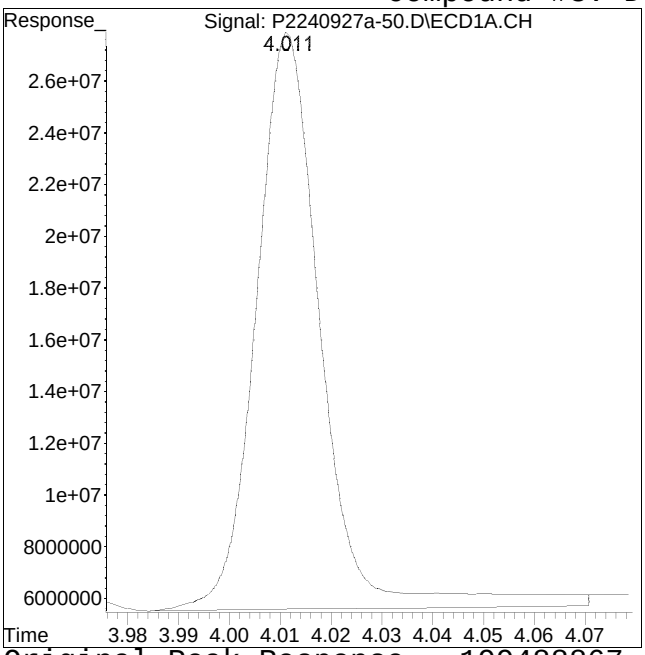


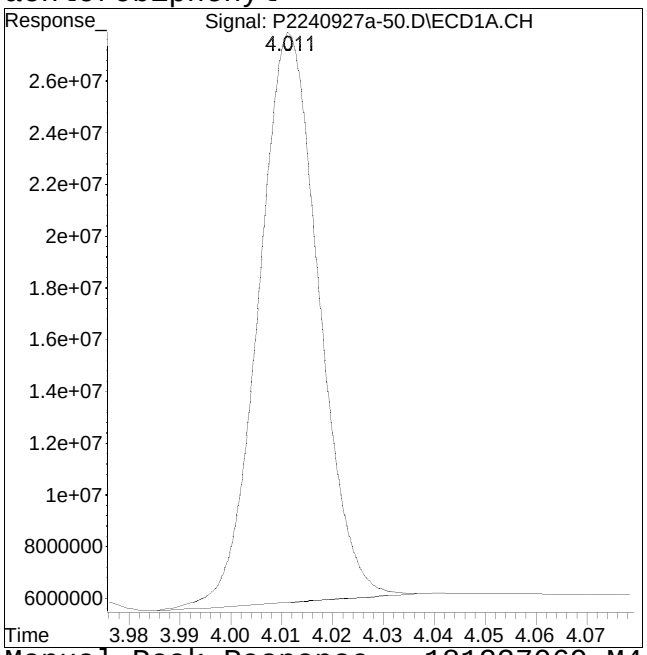
Original Peak Response = 290142375 Manual Peak Response = 288090434 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-50.D Operator : pest2:emr
Date Inj'd : 9/27/2024 16:10 Instrument : Pest 2
Sample : L2454059-02,42,, Quant Date : 9/29/2024 1:26 pm

Compound #3: Decachlorobiphenyl



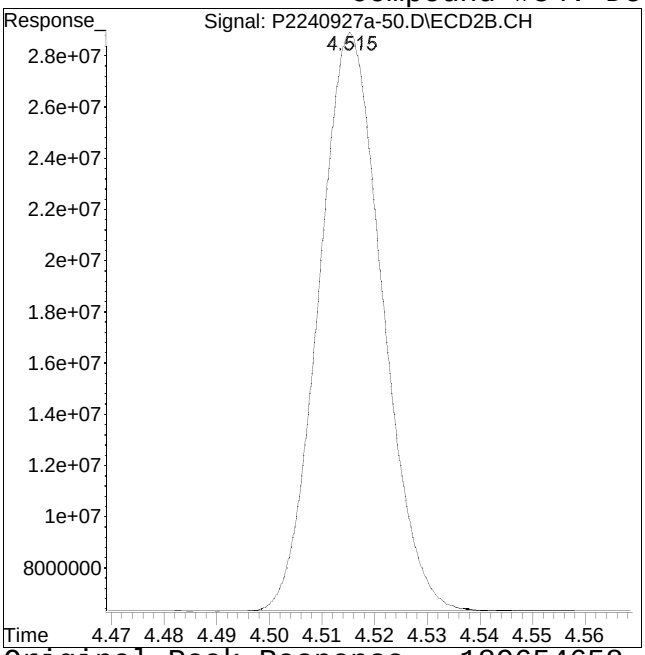


Original Peak Response = 199488867 Manual Peak Response = 181227069 M4
M4 = Poor automated baseline construction.

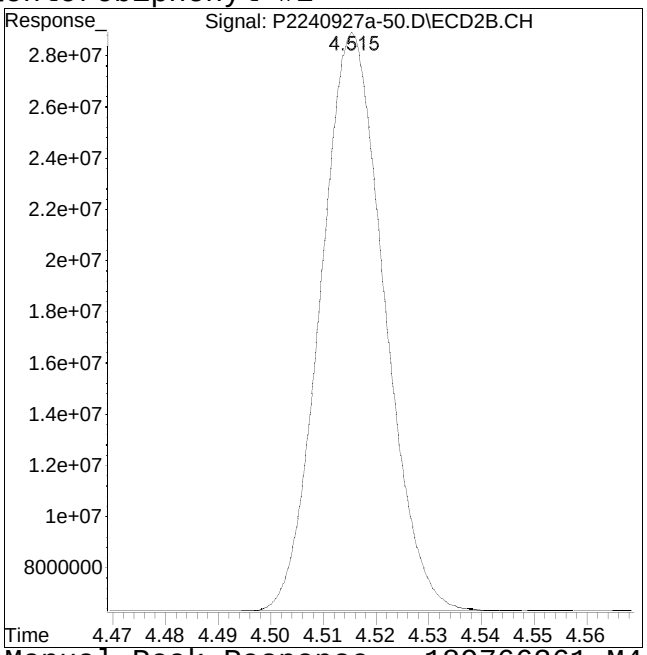
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-50.D Operator : pest2:emr
Date Inj'd : 9/27/2024 16:10 Instrument : Pest 2
Sample : L2454059-02,42,, Quant Date : 9/29/2024 1:26 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 189654658



Manual Peak Response = 189766361 M4

M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.490	1.424	1.460	1.428	1.400	1.446	1.417	1.478	1.494	1.469	1.451	2.24
3)	s	Decachlorobip	1.362	1.224	1.181	1.174	1.164	1.157	1.107	1.080	1.054	1.035	1.154	8.22
4)	l1	1016-1	0.029	0.030	0.029	0.028	0.027	0.028	0.026	0.026	0.025	0.023	0.027	7.47
5)	l1	1016-2	0.064	0.063	0.064	0.064	0.061	0.059	0.056	0.055	0.053	0.050	0.059	8.57
6)	l1	1016-3	0.126	0.112	0.123	0.118	0.113	0.118	0.113	0.116	0.116	0.112	0.117	3.99
7)	l1	1016-4	0.052	0.047	0.055	0.051	0.049	0.049	0.046	0.049	0.048	0.046	0.049	5.95
8)	l1	1016-5	0.063	0.048	0.062	0.057	0.056	0.056	0.051	0.051	0.050	0.048	0.054	9.85
9)	l2	1260-1	0.083	0.079	0.077	0.075	0.074	0.076	0.072	0.071	0.070	0.069	0.075	5.92
10)	l2	1260-2	0.123	0.119	0.117	0.114	0.114	0.116	0.111	0.108	0.107	0.105	0.113	4.92
11)	l2	1260-3	0.068	0.067	0.069	0.069	0.070	0.071	0.068	0.069	0.068	0.067	0.069	1.76
12)	l2	1260-4	0.159	0.156	0.150	0.148	0.148	0.149	0.147	0.150	0.149	0.149	0.151	2.68
13)	l2	1260-5	0.118	0.110	0.110	0.109	0.105	0.107	0.104	0.104	0.103	0.104	0.108	4.14
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.015			0.015	0.00
16)	l3	1221-2								0.009			0.009	0.00
17)	l3	1221-3								0.037			0.037	0.00
18)	l4	1254-1								0.052			0.052	0.00
19)	l4	1254-2								0.093			0.093	0.00
20)	l4	1254-3								0.101			0.101	0.00
21)	l4	1254-4								0.071			0.071	0.00
22)	l4	1254-5								0.099			0.099	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.046			0.046	0.00
26)	l6	1242-3								0.096			0.096	0.00
27)	l6	1242-4								0.040			0.040	0.00
28)	l6	1242-5								0.032			0.032	0.00
29)	l9	1268-1								0.209			0.209	0.00
30)	l9	1268-2								0.189			0.189	0.00
31)	l9	1268-3								0.154			0.154	0.00
32)	l9	1268-4								0.067			0.067	0.00
33)	l9	1268-5								0.467			0.467	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.060			0.060	0.00
36)	l7	1248-2								0.078			0.078	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
37) l7 1248-3								0.070			0.070	0.00
38) l7 1248-4								0.060			0.060	0.00
39) l7 1248-5								0.056			0.056	0.00
40) i 3262_1br2nb	----------ISTD----------											
41) l5 1232-1								0.029			0.029	0.00
42) l5 1232-2								0.027			0.027	0.00
43) l5 1232-3								0.055			0.055	0.00
44) l5 1232-4								0.023			0.023	0.00
45) l5 1232-5								0.017			0.017	0.00
46) l8 1262-1								0.083			0.083	0.00
47) l8 1262-2								0.105			0.105	0.00
48) l8 1262-3								0.091			0.091	0.00
49) l8 1262-4								0.185			0.185	0.00
50) l8 1262-5								0.059			0.059	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Signal #2 Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.800	1.723	1.775	1.642	1.617	1.647	1.569	1.541	1.557	1.512	1.638	6.08
3)	s	Decachlorobip	1.382	1.282	1.205	1.148	1.113	1.087	1.044	0.934	0.918	0.900	1.101	14.52
4)	l1	1016-1	0.036	0.034	0.033	0.032	0.030	0.030	0.030	0.027	0.026	0.024	0.030	12.95
5)	l1	1016-2	0.069	0.069	0.072	0.069	0.070	0.070	0.067	0.059	0.056	0.052	0.065	10.57
6)	l1	1016-3	0.153	0.145	0.143	0.137	0.131	0.132	0.128	0.118	0.114	0.109	0.131	10.79
7)	l1	1016-4	0.063	0.057	0.058	0.055	0.053	0.054	0.052	0.047	0.045	0.043	0.053	11.94
8)	l1	1016-5	0.049	0.046	0.045	0.042	0.042	0.043	0.044	0.039	0.036	0.035	0.042	10.65
9)	l2	1260-1	0.094	0.093	0.088	0.088	0.083	0.090	0.078	0.072	0.069	0.066	0.082	12.52
10)	l2	1260-2	0.113	0.111	0.105	0.101	0.097	0.105	0.093	0.085	0.082	0.079	0.097	12.54
11)	l2	1260-3	0.094	0.090	0.084	0.081	0.080	0.084	0.078	0.069	0.068	0.065	0.079	12.09
12)	l2	1260-4	0.174	0.171	0.165	0.162	0.158	0.160	0.151	0.139	0.138	0.135	0.155	8.92
13)	l2	1260-5	0.121	0.127	0.118	0.114	0.112	0.114	0.112	0.097	0.096	0.094	0.111	10.22
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.017			0.017	0.00
16)	l3	1221-2								0.011			0.011	0.00
17)	l3	1221-3								0.040			0.040	0.00
18)	l4	1254-1								0.062			0.062	0.00
19)	l4	1254-2								0.073			0.073	0.00
20)	l4	1254-3								0.109			0.109	0.00
21)	l4	1254-4								0.073			0.073	0.00
22)	l4	1254-5								0.101			0.101	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.048			0.048	0.00
26)	l6	1242-3								0.095			0.095	0.00
27)	l6	1242-4								0.039			0.039	0.00
28)	l6	1242-5								0.031			0.031	0.00
29)	l9	1268-1								0.190			0.190	0.00
30)	l9	1268-2								0.169			0.169	0.00
31)	l9	1268-3								0.141			0.141	0.00
32)	l9	1268-4								0.062			0.062	0.00
33)	l9	1268-5								0.399			0.399	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.062			0.062	0.00
36)	l7	1248-2								0.043			0.043	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Signal #2 Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
37) l7	1248-3								0.053			0.053	0.00
38) l7	1248-4								0.060			0.060	0.00
39) l7	1248-5								0.067			0.067	0.00
40) i	3262_1br2nb	----------ISTD----------											
41) l5	1232-1								0.030			0.030	0.00
42) l5	1232-2								0.031			0.031	0.00
43) l5	1232-3								0.060			0.060	0.00
44) l5	1232-4								0.024			0.024	0.00
45) l5	1232-5								0.018			0.018	0.00
46) l8	1262-1								0.073			0.073	0.00
47) l8	1262-2								0.101			0.101	0.00
48) l8	1262-3								0.091			0.091	0.00
49) l8	1262-4								0.174			0.174	0.00
50) l8	1262-5								0.062			0.062	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.490	1.424	1.460	1.428	1.400	1.446	1.417	1.478	1.494	1.469	1.451	2.24
3)	s	Decachlorobip...	1.362	1.224	1.181	1.174	1.164	1.157	1.107	1.080	1.054	1.035	1.154	8.22
4)	l1	1016-1	0.029	0.030	0.029	0.028	0.027	0.028	0.026	0.026	0.025	0.023	0.027	7.47
5)	l1	1016-2	0.064	0.063	0.064	0.064	0.061	0.059	0.056	0.055	0.053	0.050	0.059	8.57
6)	l1	1016-3	0.126	0.112	0.123	0.118	0.113	0.118	0.113	0.116	0.116	0.112	0.117	3.99
7)	l1	1016-4	0.052	0.047	0.055	0.051	0.049	0.049	0.046	0.049	0.048	0.046	0.049	5.95
8)	l1	1016-5	0.063	0.048	0.062	0.057	0.056	0.056	0.051	0.051	0.050	0.048	0.054	9.85
9)	l2	1260-1	0.083	0.079	0.077	0.075	0.074	0.076	0.072	0.071	0.070	0.069	0.075	5.92
10)	l2	1260-2	0.123	0.119	0.117	0.114	0.114	0.116	0.111	0.108	0.107	0.105	0.113	4.92
11)	l2	1260-3	0.068	0.067	0.069	0.069	0.070	0.071	0.068	0.069	0.068	0.067	0.069	1.76
12)	l2	1260-4	0.159	0.156	0.150	0.148	0.148	0.149	0.147	0.150	0.149	0.149	0.151	2.68
13)	l2	1260-5	0.118	0.110	0.110	0.109	0.105	0.107	0.104	0.104	0.103	0.104	0.108	4.14
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.015			0.015	0.00
16)	l3	1221-2								0.009			0.009	0.00

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
17)	l3	1221-3								0.037			0.037	0.00
18)	l4	1254-1								0.052			0.052	0.00
19)	l4	1254-2								0.093			0.093	0.00
20)	l4	1254-3								0.101			0.101	0.00
21)	l4	1254-4								0.071			0.071	0.00
22)	l4	1254-5								0.099			0.099	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.046			0.046	0.00
26)	l6	1242-3								0.096			0.096	0.00
27)	l6	1242-4								0.040			0.040	0.00
28)	l6	1242-5								0.032			0.032	0.00
29)	l9	1268-1								0.209			0.209	0.00
30)	l9	1268-2								0.189			0.189	0.00
31)	l9	1268-3								0.154			0.154	0.00
32)	l9	1268-4								0.067			0.067	0.00
33)	l9	1268-5								0.467			0.467	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.060			0.060	0.00
36)	l7	1248-2								0.078			0.078	0.00
37)	l7	1248-3								0.070			0.070	0.00
38)	l7	1248-4								0.060			0.060	0.00
39)	l7	1248-5								0.056			0.056	0.00
40)	i	3262_1br2nb	----------ISTD----------											
41)	l5	1232-1								0.029			0.029	0.00
42)	l5	1232-2								0.027			0.027	0.00
43)	l5	1232-3								0.055			0.055	0.00
44)	l5	1232-4								0.023			0.023	0.00
45)	l5	1232-5								0.017			0.017	0.00
46)	l8	1262-1								0.083			0.083	0.00
47)	l8	1262-2								0.105			0.105	0.00
48)	l8	1262-3								0.091			0.091	0.00
49)	l8	1262-4								0.185			0.185	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
50) l8	1262-5								0.059			0.059	0.00

Signal #2 Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------											
2) s	2,4,5,6-Tetra...	1.800	1.723	1.775	1.642	1.617	1.647	1.569	1.541	1.557	1.512	1.638	6.08
3) s	Decachlorobip...	1.382	1.282	1.205	1.148	1.113	1.087	1.044	0.934	0.918	0.900	1.101	14.52
4) l1	1016-1	0.036	0.034	0.033	0.032	0.030	0.030	0.030	0.027	0.026	0.024	0.030	12.95
5) l1	1016-2	0.069	0.069	0.072	0.069	0.070	0.070	0.067	0.059	0.056	0.052	0.065	10.57
6) l1	1016-3	0.153	0.145	0.143	0.137	0.131	0.132	0.128	0.118	0.114	0.109	0.131	10.79
7) l1	1016-4	0.063	0.057	0.058	0.055	0.053	0.054	0.052	0.047	0.045	0.043	0.053	11.94
8) l1	1016-5	0.049	0.046	0.045	0.042	0.042	0.043	0.044	0.039	0.036	0.035	0.042	10.65
9) l2	1260-1	0.094	0.093	0.088	0.088	0.083	0.090	0.078	0.072	0.069	0.066	0.082	12.52
10) l2	1260-2	0.113	0.111	0.105	0.101	0.097	0.105	0.093	0.085	0.082	0.079	0.097	12.54
11) l2	1260-3	0.094	0.090	0.084	0.081	0.080	0.084	0.078	0.069	0.068	0.065	0.079	12.09
12) l2	1260-4	0.174	0.171	0.165	0.162	0.158	0.160	0.151	0.139	0.138	0.135	0.155	8.92

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
13)	l2	1260-5	0.121	0.127	0.118	0.114	0.112	0.114	0.112	0.097	0.096	0.094	0.111	10.22
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.017			0.017	0.00
16)	l3	1221-2								0.011			0.011	0.00
17)	l3	1221-3								0.040			0.040	0.00
18)	l4	1254-1								0.062			0.062	0.00
19)	l4	1254-2								0.073			0.073	0.00
20)	l4	1254-3								0.109			0.109	0.00
21)	l4	1254-4								0.073			0.073	0.00
22)	l4	1254-5								0.101			0.101	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.048			0.048	0.00
26)	l6	1242-3								0.095			0.095	0.00
27)	l6	1242-4								0.039			0.039	0.00
28)	l6	1242-5								0.031			0.031	0.00
29)	l9	1268-1								0.190			0.190	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
30)	l9	1268-2								0.169			0.169	0.00
31)	l9	1268-3								0.141			0.141	0.00
32)	l9	1268-4								0.062			0.062	0.00
33)	l9	1268-5								0.399			0.399	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.062			0.062	0.00
36)	l7	1248-2								0.043			0.043	0.00
37)	l7	1248-3								0.053			0.053	0.00
38)	l7	1248-4								0.060			0.060	0.00
39)	l7	1248-5								0.067			0.067	0.00
40)	i	3262_1br2nb	----------ISTD----------											
41)	l5	1232-1								0.030			0.030	0.00
42)	l5	1232-2								0.031			0.031	0.00
43)	l5	1232-3								0.060			0.060	0.00
44)	l5	1232-4								0.024			0.024	0.00
45)	l5	1232-5								0.018			0.018	0.00

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
46) l8	1262-1								0.073			0.073	0.00
47) l8	1262-2								0.101			0.101	0.00
48) l8	1262-3								0.091			0.091	0.00
49) l8	1262-4								0.174			0.174	0.00
50) l8	1262-5								0.062			0.062	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.183	1.252	223.1E6	252.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.623	3404182	4646960	0.265M4	0.269
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.05%#	0.05%#
3) s	Decachlorobi	4.024	4.542	6221294	7133944	0.584M4	0.584
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.12%#	0.12%#
	Target Compounds						
4) l1	1016-1	1.601	1.822	1029923	1469461	3.981M2	4.440
5) l1	1016-2	1.741	1.992	2300019	2790342	4.056M4	3.950M4
6) l1	1016-3	1.928	2.193	4483244	6158924	4.263	4.314M1
7) l1	1016-4	1.984	2.253	1839001	2560108	4.022	4.457
8) l1	1016-5	2.152	2.463	2234094	1986914	4.476M4	4.427
Sum	1016-1			11886280	14965749	20.798	21.588
Average	1016-1					4.160	4.318
9) l2	1260-1	2.693	3.072	2975268	3811020	4.339M3	4.214
10) l2	1260-2	2.824	3.173	4378607	4567332	4.215M3	4.284
11) l2	1260-3	3.139	3.565	2430624	3790654	3.979M4	4.412

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.294	3.694	5691017	7034236	4.216M4	4.209
13) l2	1260-5	3.442	3.894	4203645	4879989	4.289M1	4.038M4
Sum	1260-1			19679161	24083232	NoCal	NoCal D
Average	1260-1					4.208	4.231
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D.	N.D.
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D.	N.D.
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D.	N.D.
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D.	N.D.
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D.	N.D.
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D.	N.D.
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

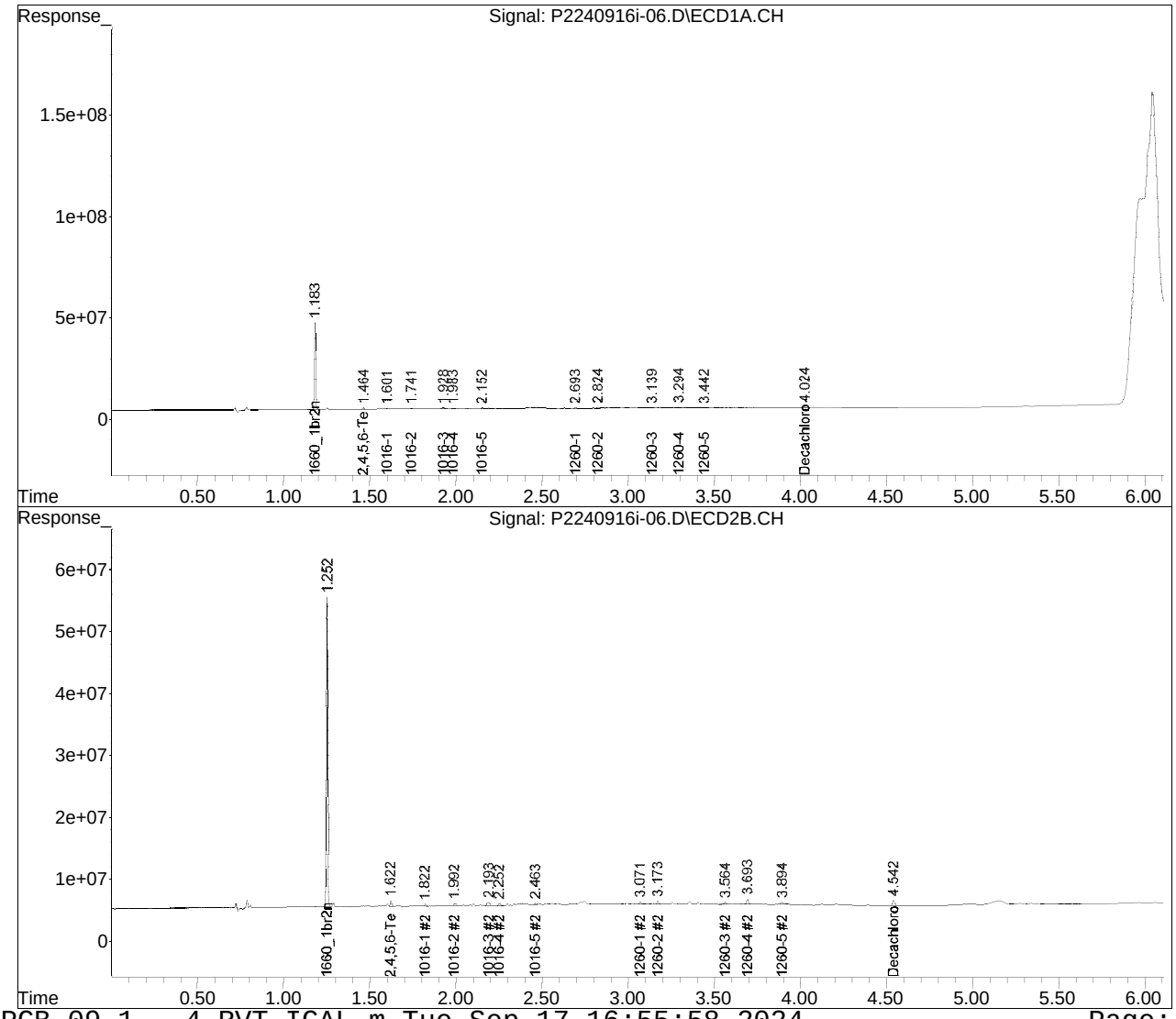
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

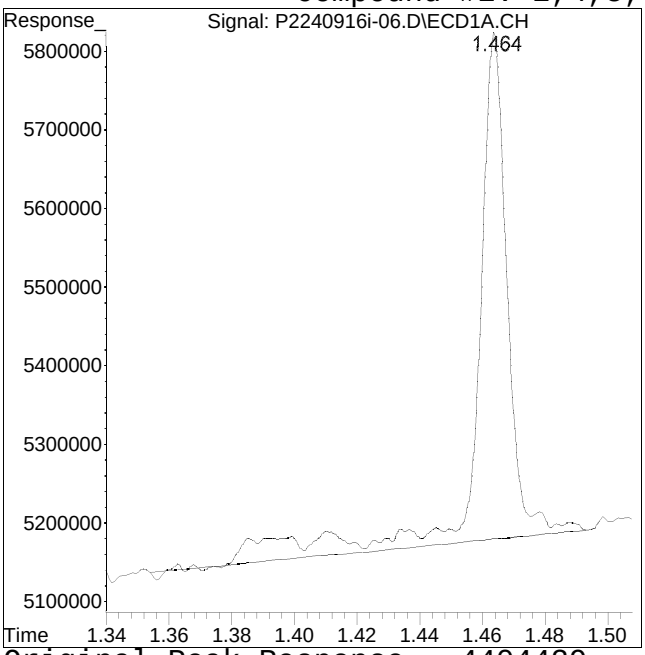
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



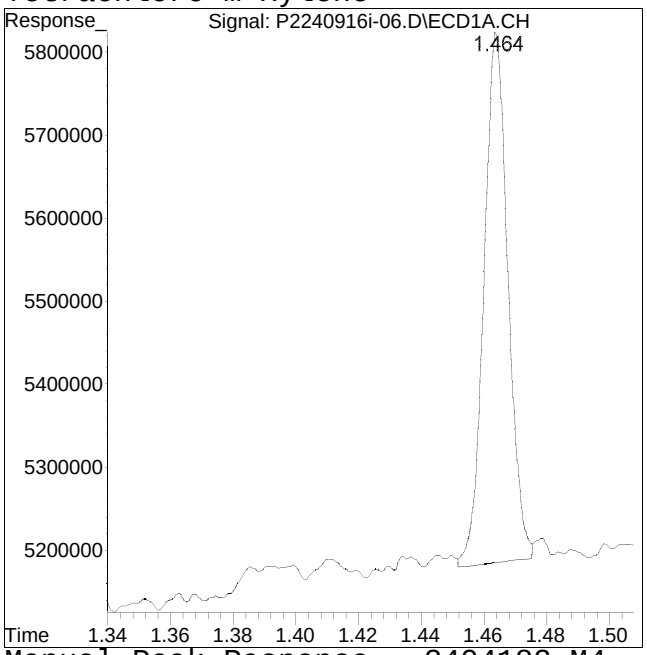
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 4404429



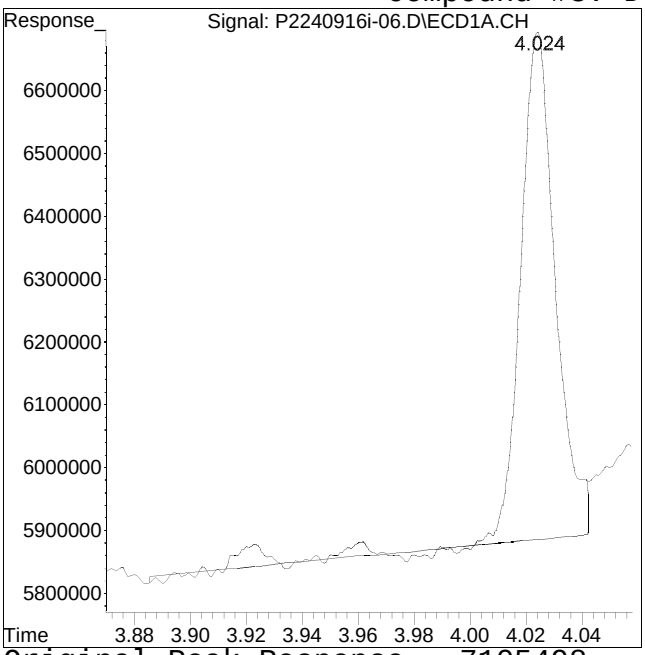
Manual Peak Response = 3404182 M4

M4 = Poor automated baseline construction.

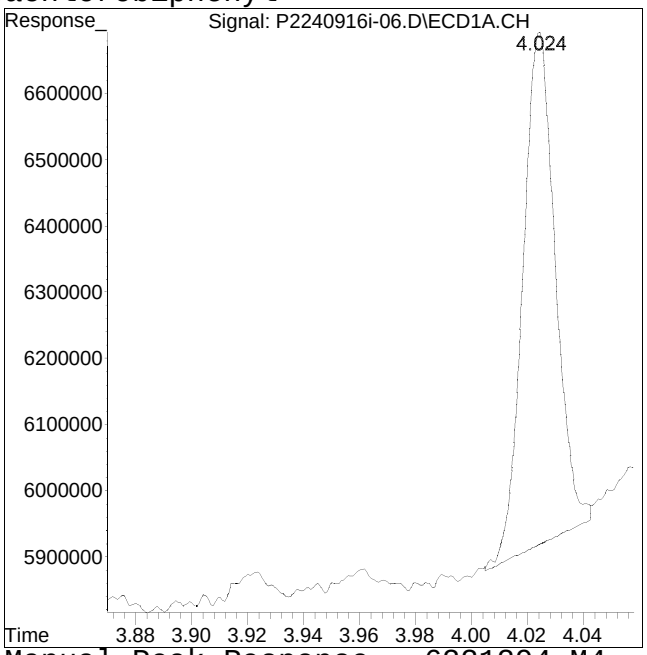
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 7105498



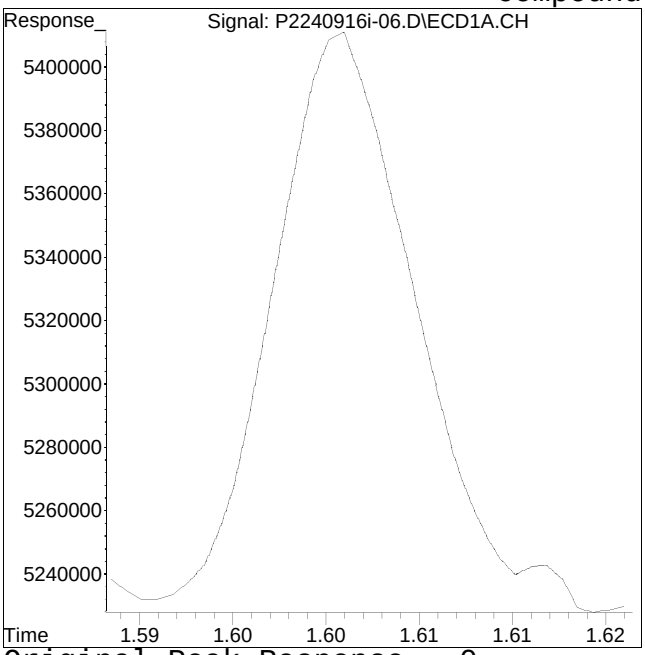
Manual Peak Response = 6221294 M4

M4 = Poor automated baseline construction.

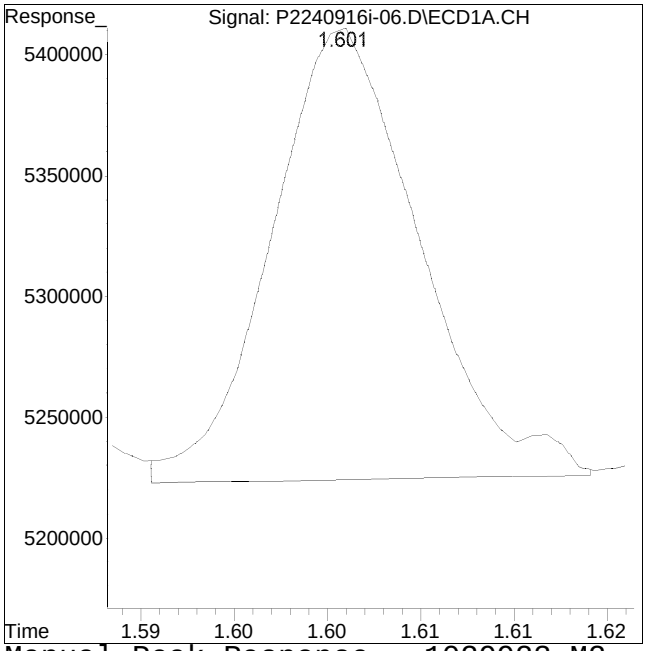
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #4: 1016-1



Original Peak Response = 0



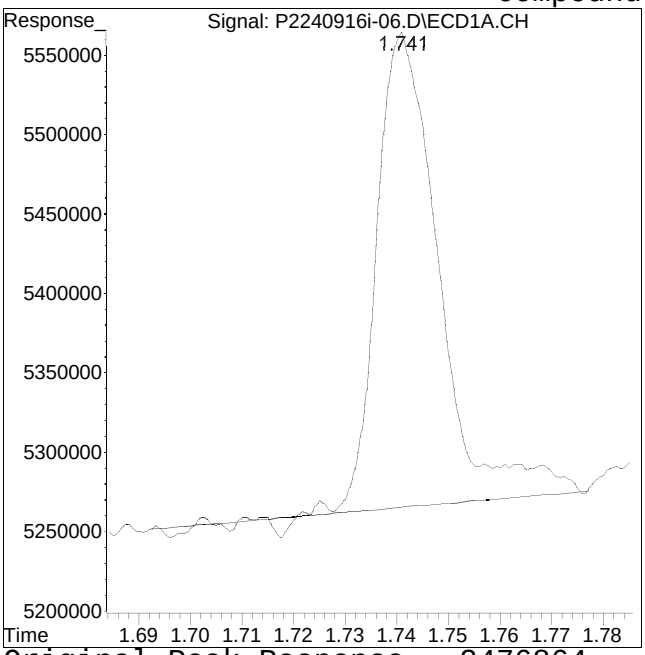
Manual Peak Response = 1029923 M2

M2 = Peak not found by automatic integration algorithm.

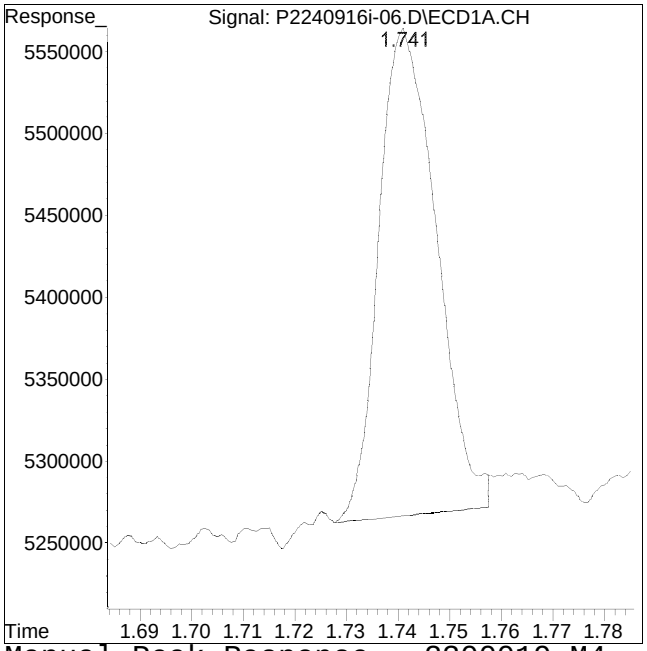
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #5: 1016-2



Original Peak Response = 2476864



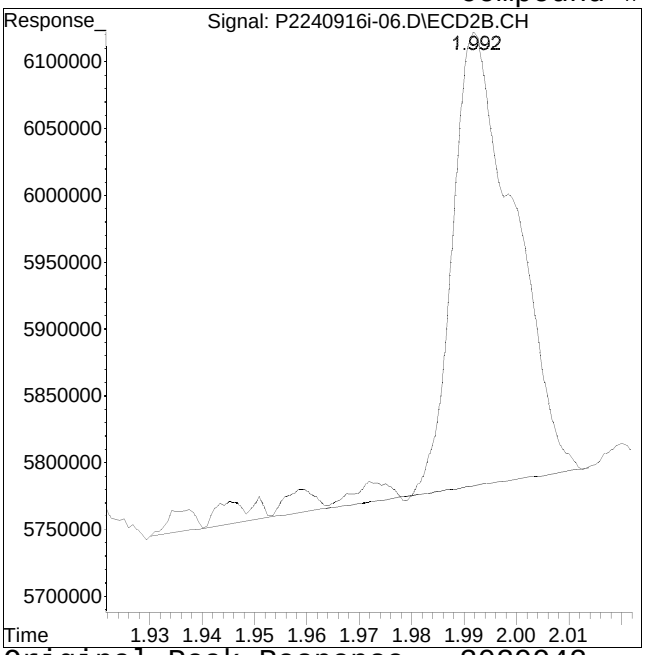
Manual Peak Response = 2300019 M4

M4 = Poor automated baseline construction.

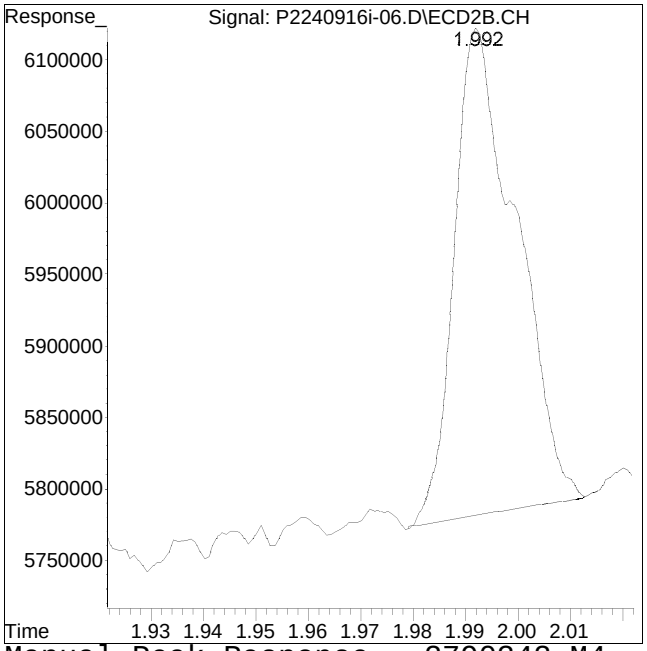
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #56: 1016-2 #2



Original Peak Response = 3029942



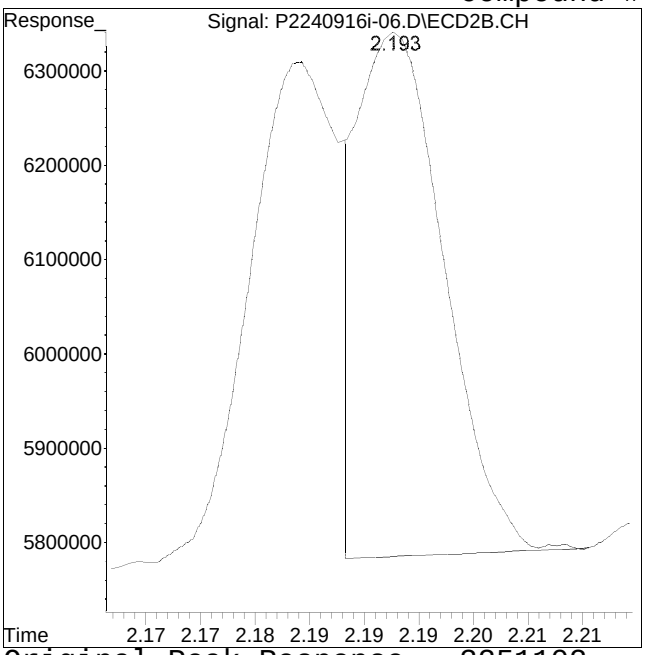
Manual Peak Response = 2790342 M4

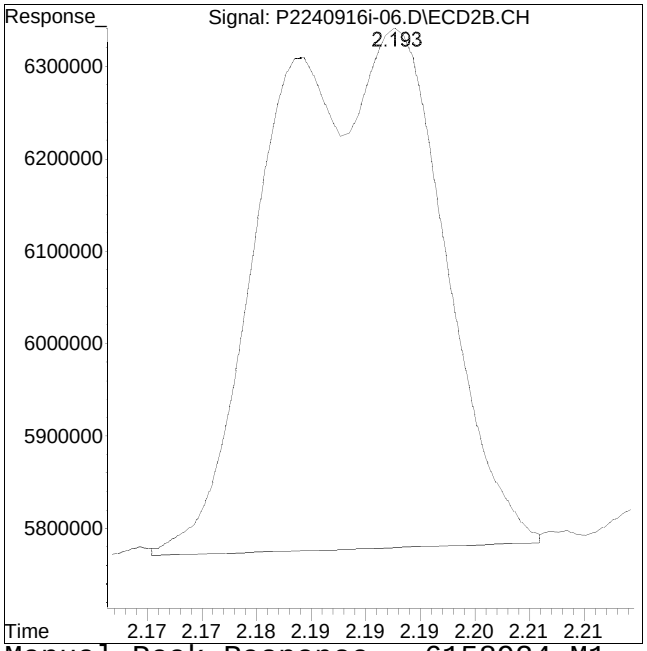
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #57: 1016-3 #2



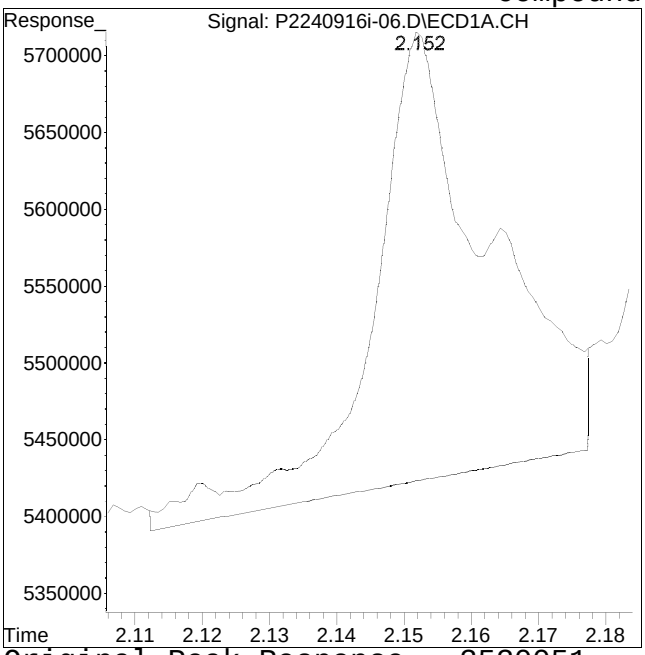


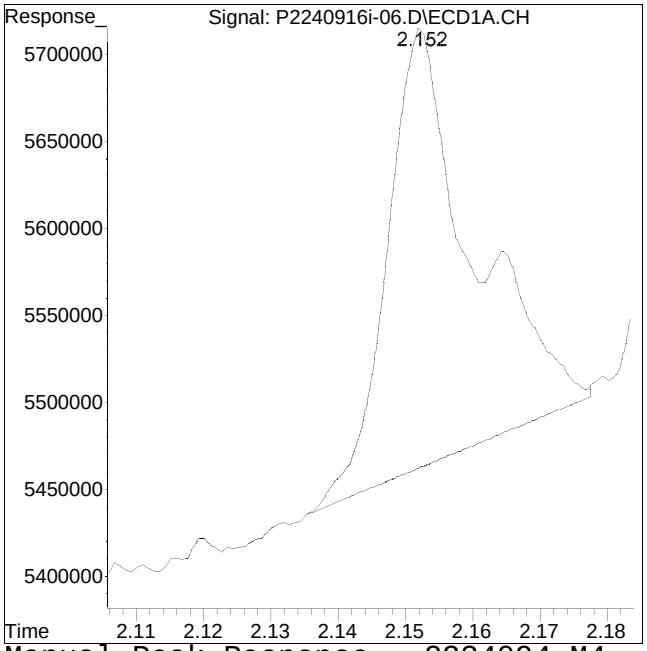
Original Peak Response = 3251102 Manual Peak Response = 6158924 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #8: 1016-5



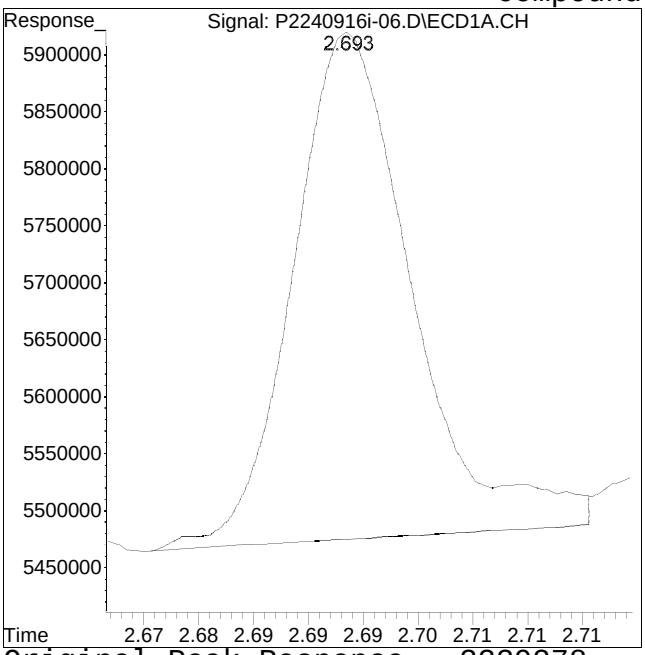


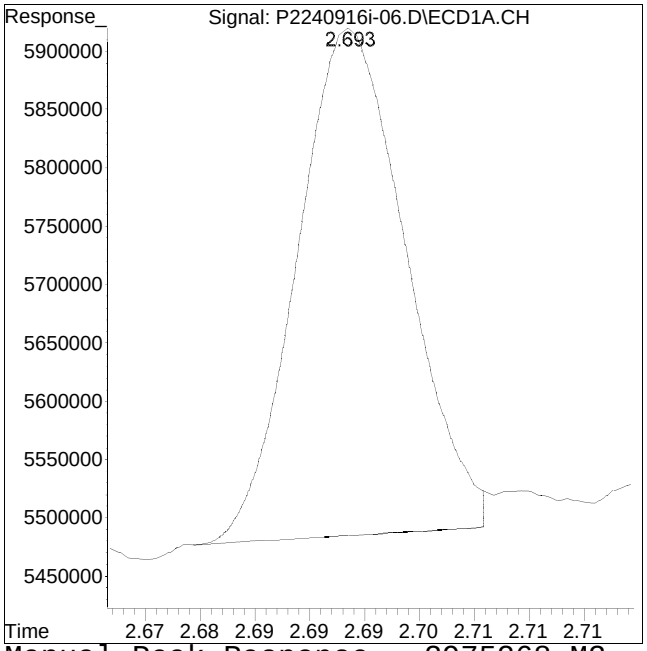
Original Peak Response = 3530051 Manual Peak Response = 2234094 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #9: 1260-1



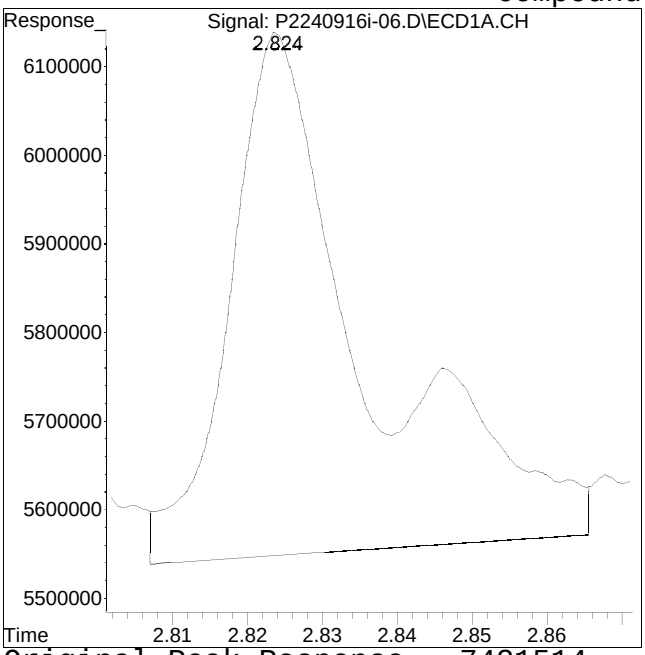


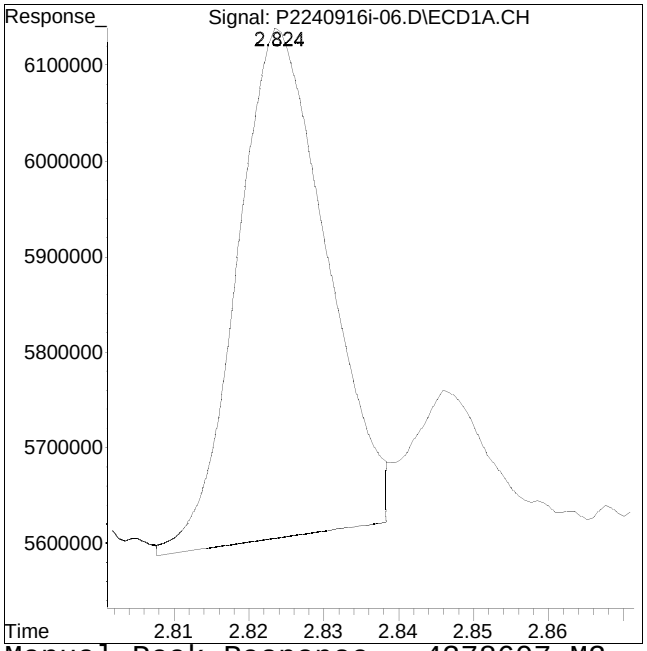
Original Peak Response = 3339278 Manual Peak Response = 2975268 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #10: 1260-2



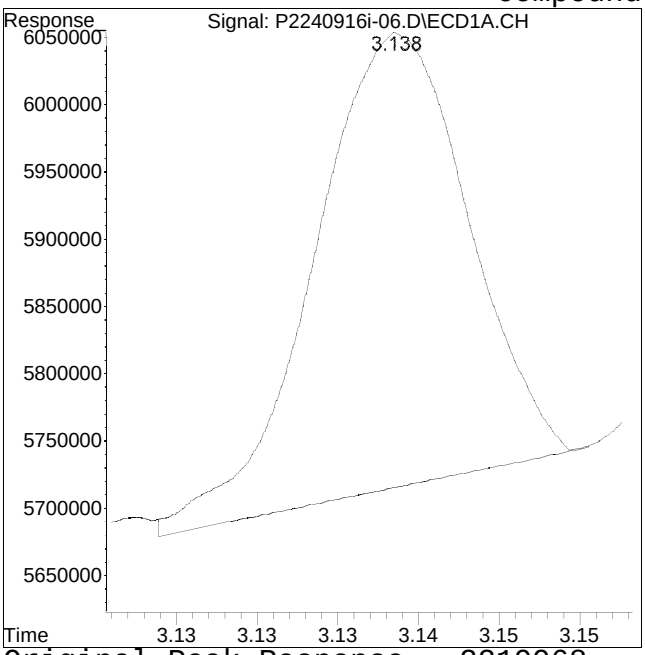


Original Peak Response = 7421514 Manual Peak Response = 4378607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

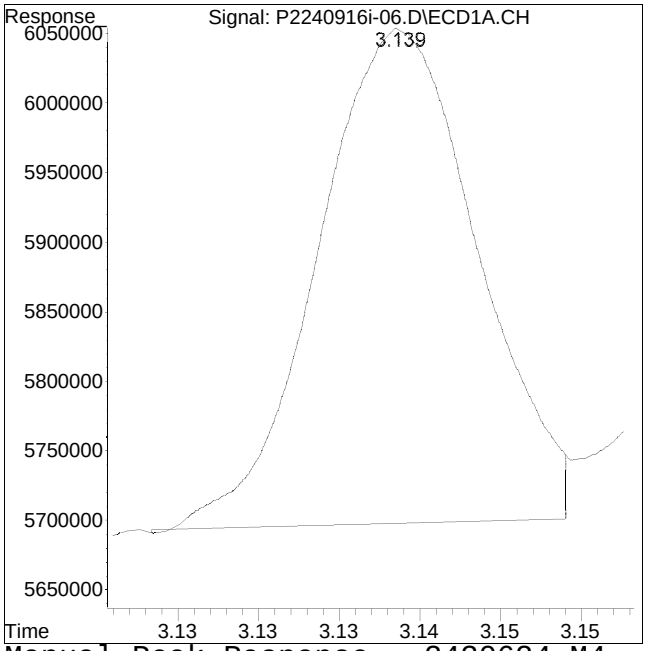
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #11: 1260-3



Original Peak Response = 2219968



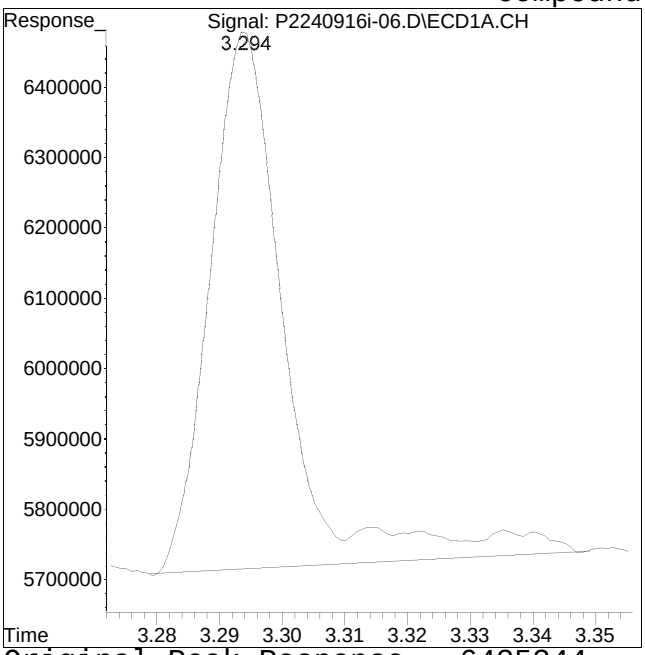
Manual Peak Response = 2430624 M4

M4 = Poor automated baseline construction.

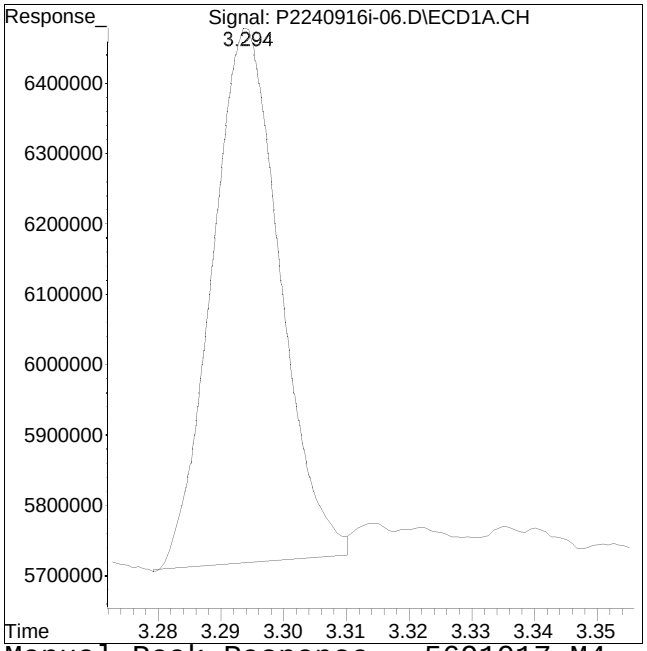
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #12: 1260-4



Original Peak Response = 6435344



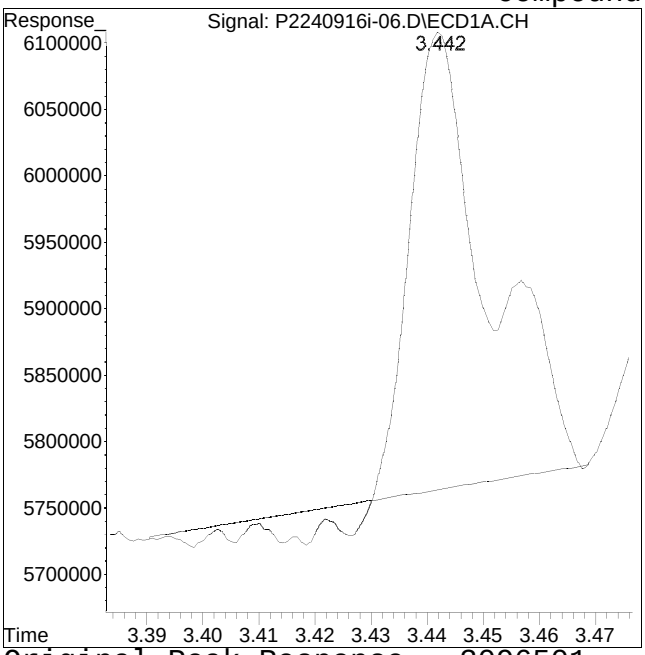
Manual Peak Response = 5691017 M4

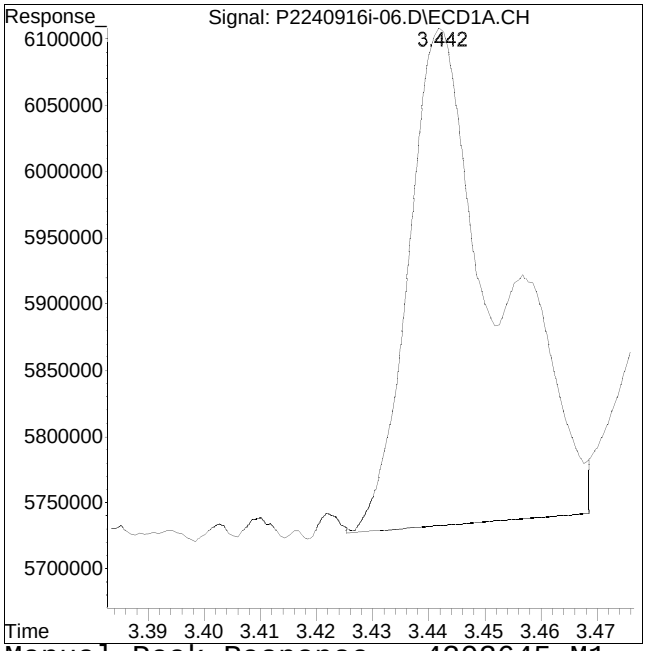
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #13: 1260-5



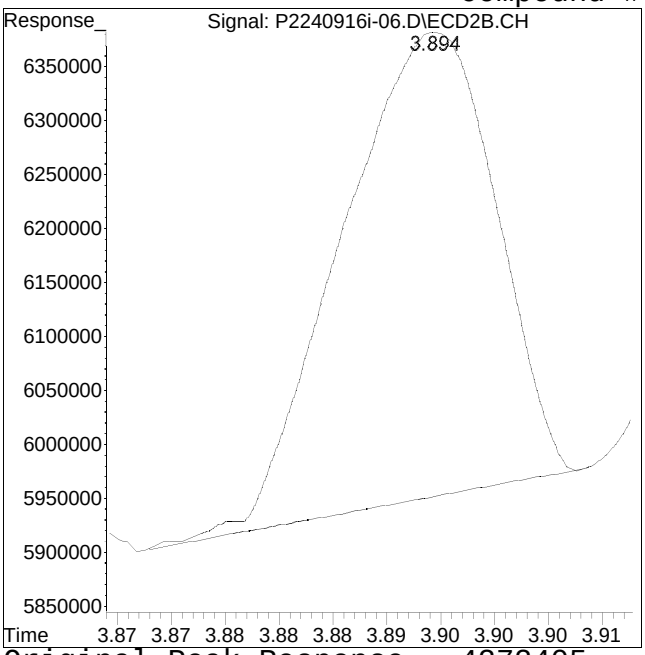


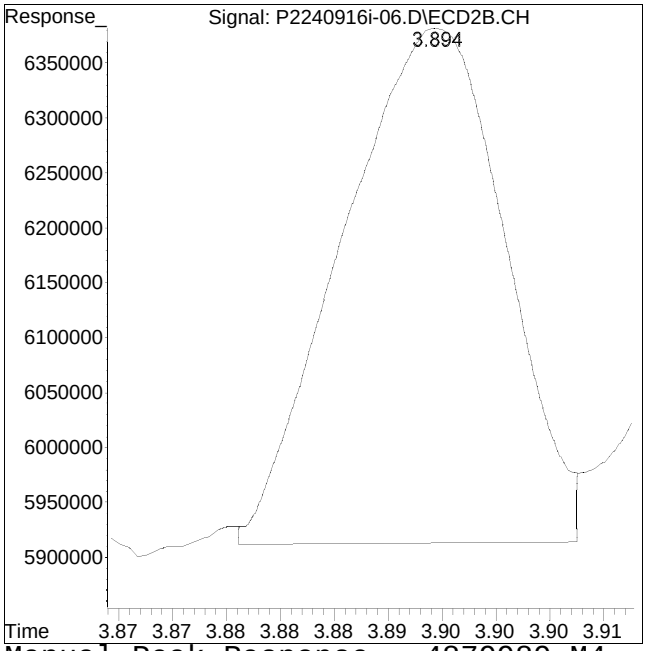
Original Peak Response = 3096501 Manual Peak Response = 4203645 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #64: 1260-5 #2





Original Peak Response = 4272405 Manual Peak Response = 4879989 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.252	219.1E6	243.8E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.623	7987682	10752059	0.631M4	0.646
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.13%#	0.13%#
3) s	Decachlorobi	4.026	4.544	13731354	15996221	1.331	1.395
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.27%#	0.28%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	2592848	3299517	10.311	10.472
5) l1	1016-2	1.743	1.992	5479904	6752278	9.761	9.828M4
6) l1	1016-3	1.930	2.193	9836137	14142824	9.300M4	10.371M4
7) l1	1016-4	1.984	2.253	4120248	5578996	8.812M4	10.068
8) l1	1016-5	2.154	2.464	4247732	4514739	8.123	10.618
Sum	1016-1			26276868	34288354	46.305	51.358
Average	1016-1					9.261	10.272
9) l2	1260-1	2.695	3.073	6922616	9057396	10.423M4	10.546
10) l2	1260-2	2.825	3.174	10390964	10827414	10.279M4	10.775
11) l2	1260-3	3.140	3.566	5904233	8783091	9.765M4	10.885
12) l2	1260-4	3.295	3.695	13679789	16641459	10.484M4	10.453

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.443	3.896	9648416	12378615	10.036M4	10.915M4
Sum	1260-1			46546019	57687975	NoCal	NoCal D
Average	1260-1					10.197	10.715
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D.	N.D.
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D.	N.D.
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D.	N.D.
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D.	N.D.
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D.	N.D.
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D.	N.D.
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

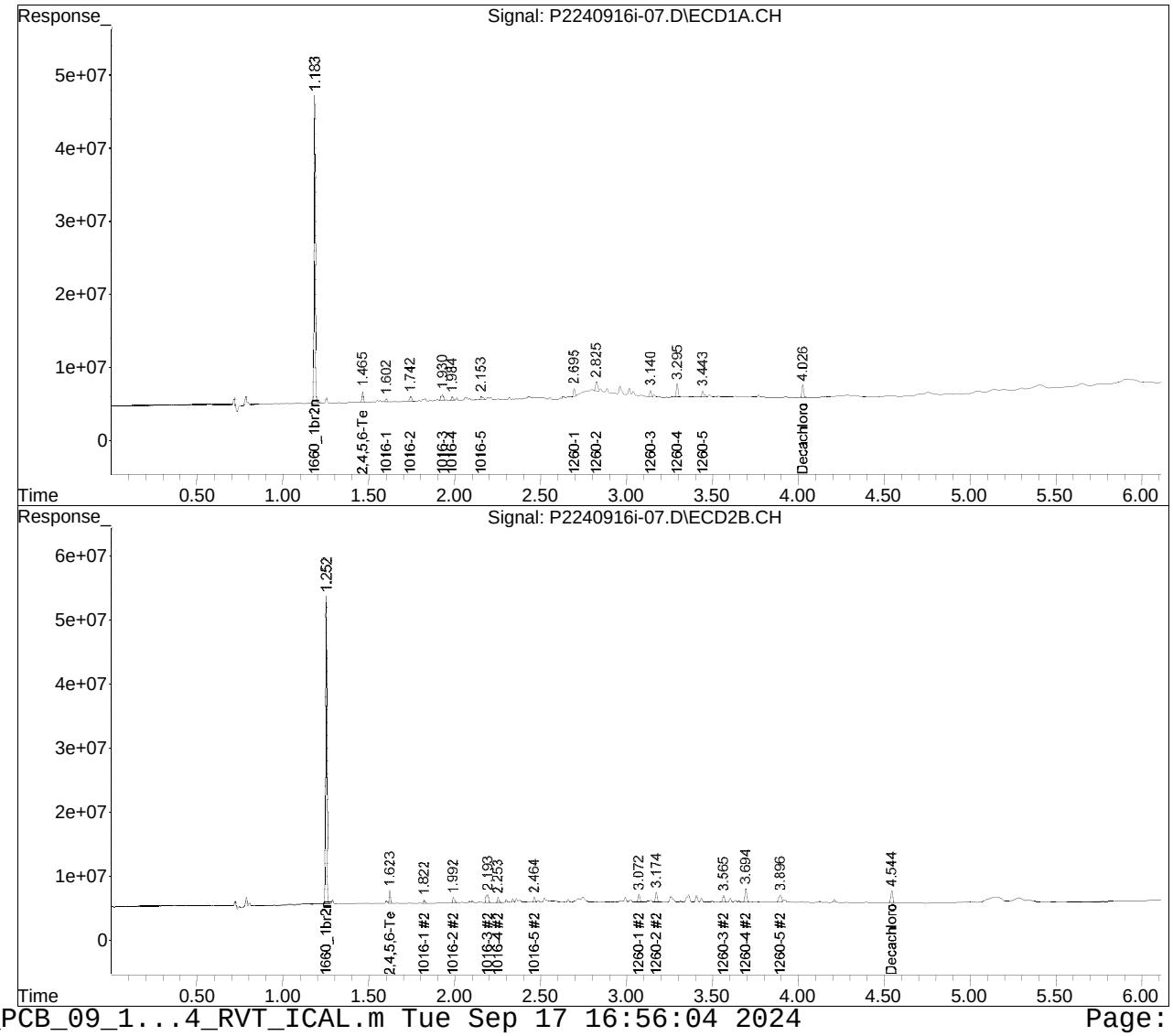
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

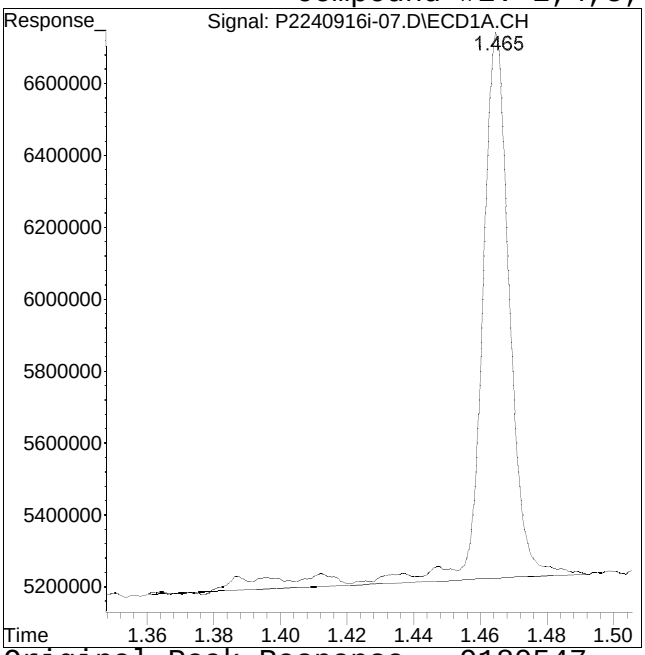
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



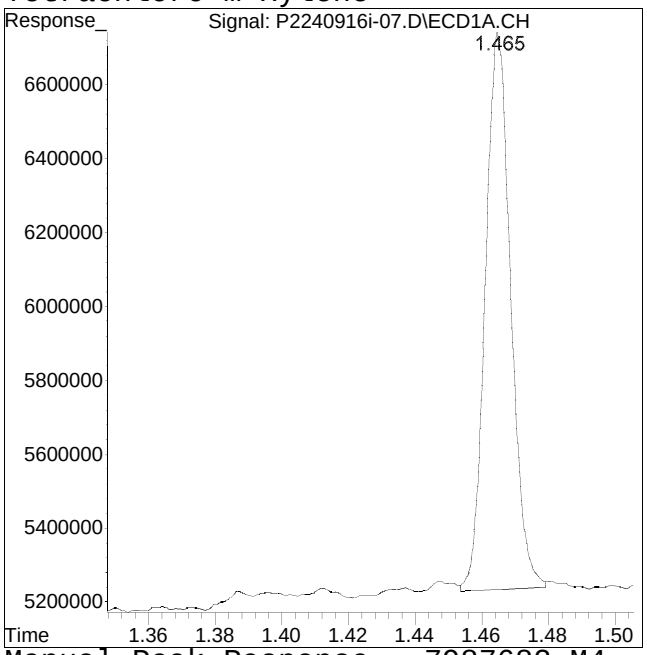
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 9180547



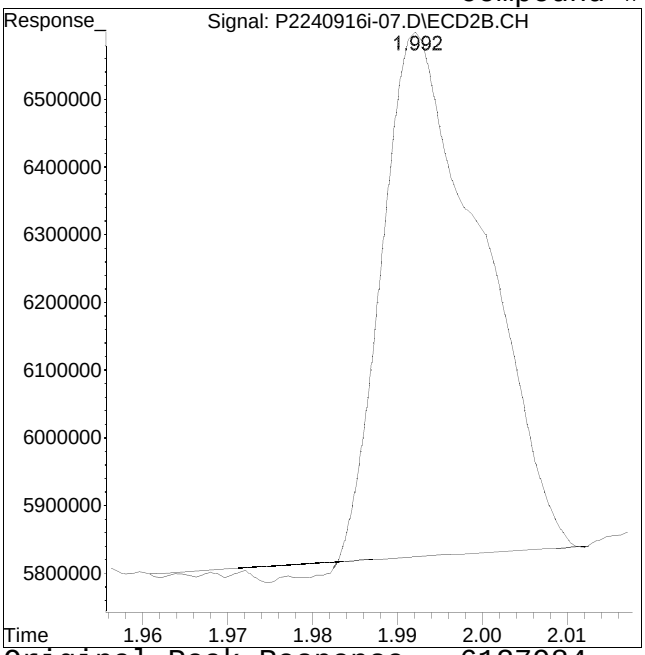
Manual Peak Response = 7987682 M4

M4 = Poor automated baseline construction.

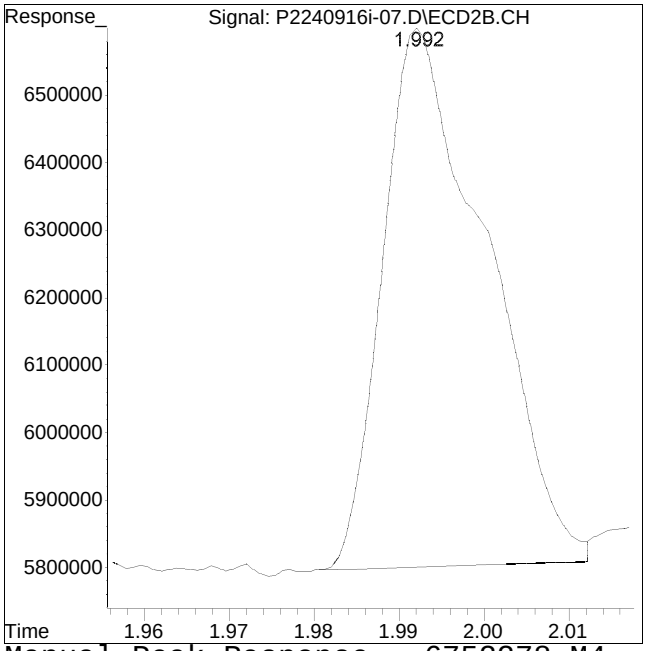
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #56: 1016-2 #2



Original Peak Response = 6127984



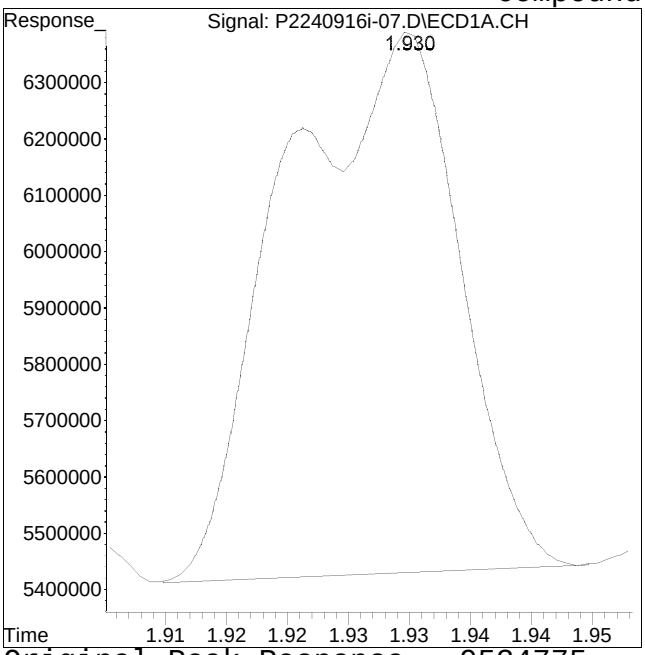
Manual Peak Response = 6752278 M4

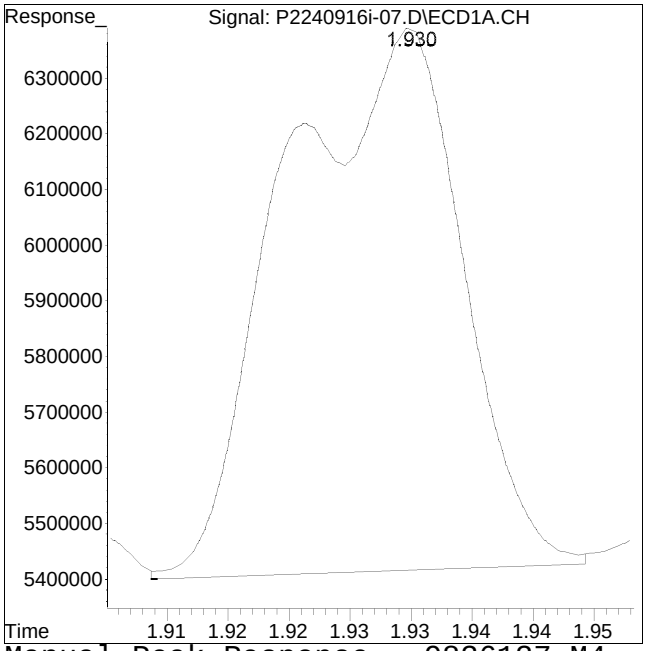
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #6: 1016-3



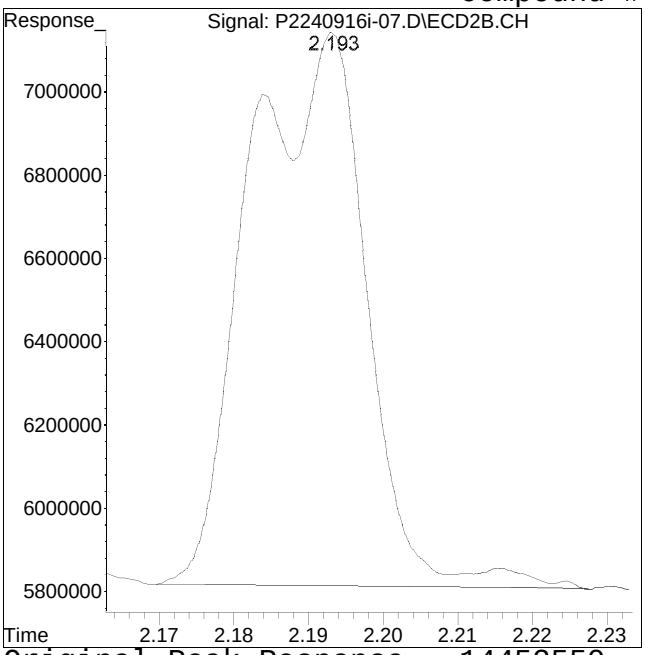


Original Peak Response = 9534775 Manual Peak Response = 9836137 M4
M4 = Poor automated baseline construction.

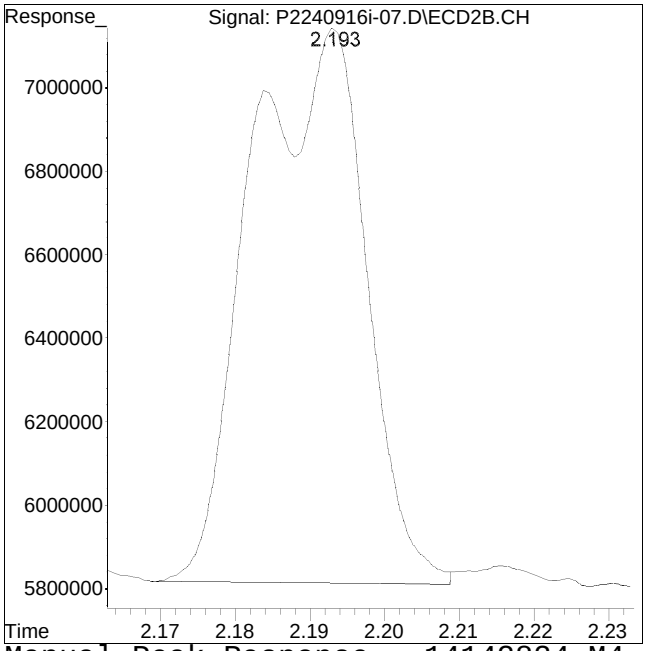
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #57: 1016-3 #2



Original Peak Response = 14452550



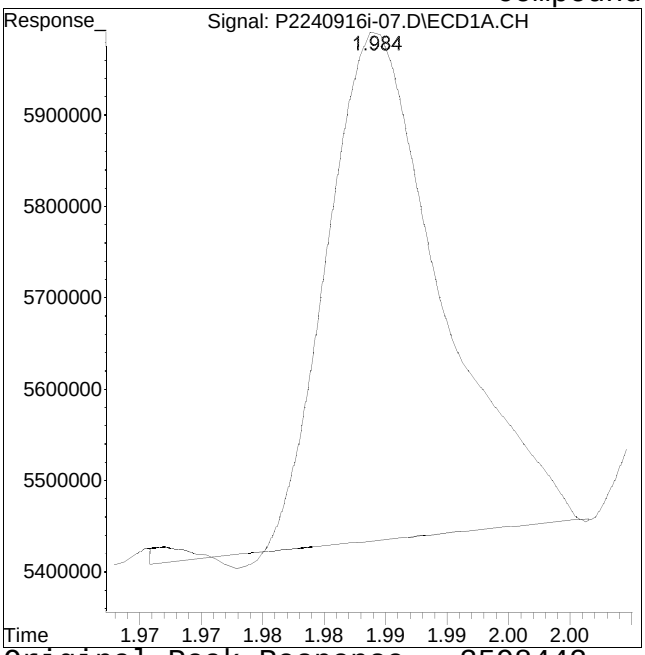
Manual Peak Response = 14142824 M4

M4 = Poor automated baseline construction.

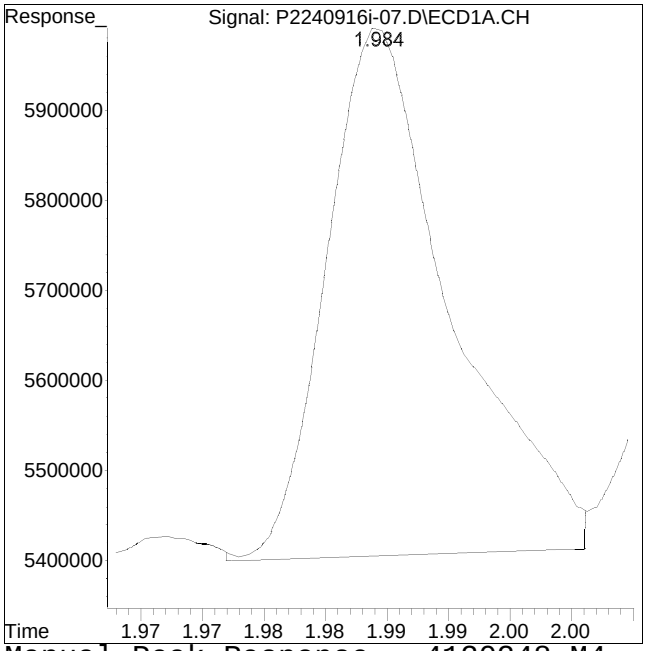
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #7: 1016-4



Original Peak Response = 3598442



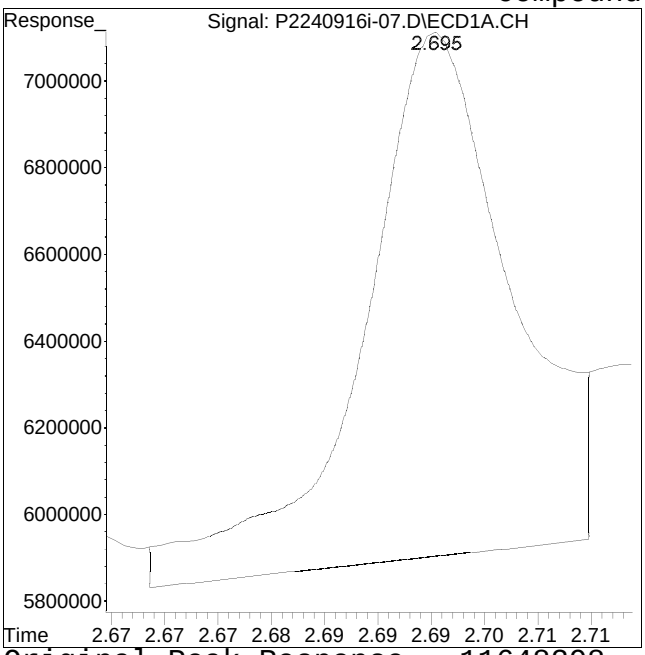
Manual Peak Response = 4120248 M4

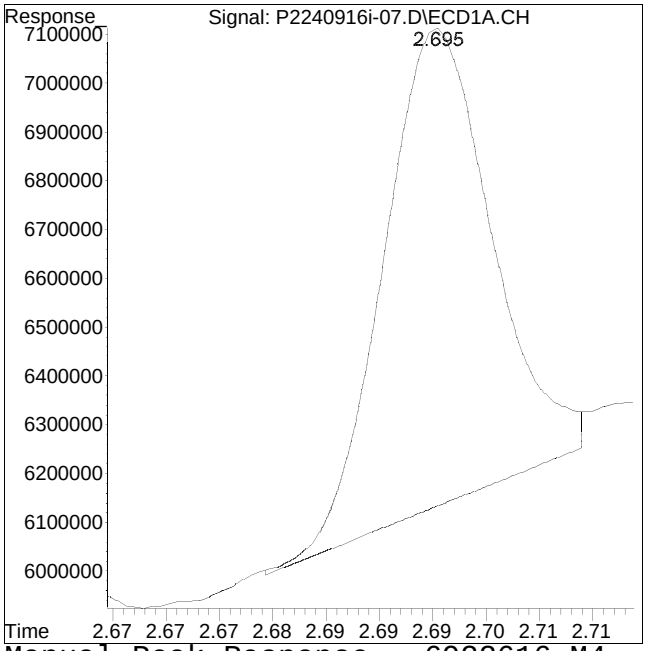
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #9: 1260-1



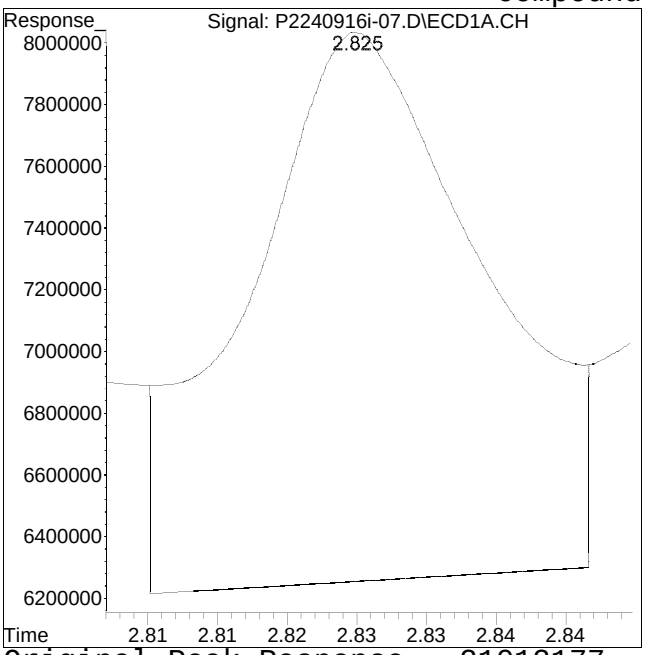


Original Peak Response = 11648298 Manual Peak Response = 6922616 M4
M4 = Poor automated baseline construction.

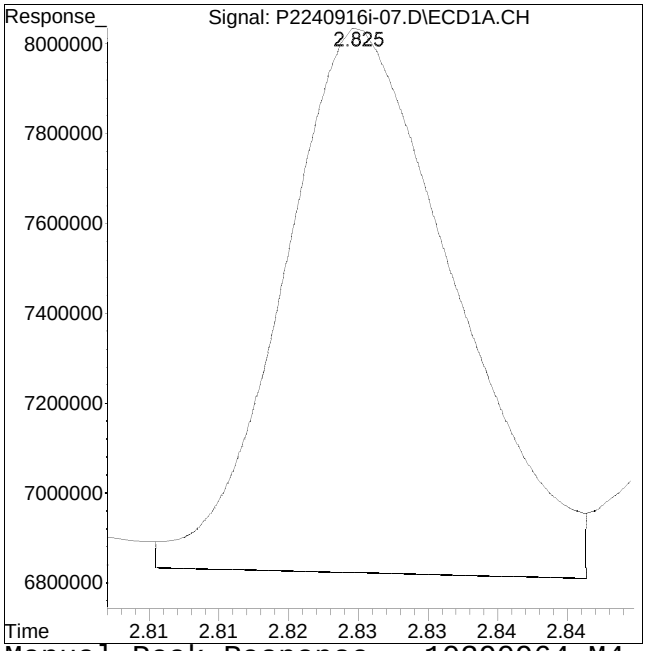
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #10: 1260-2



Original Peak Response = 21012177



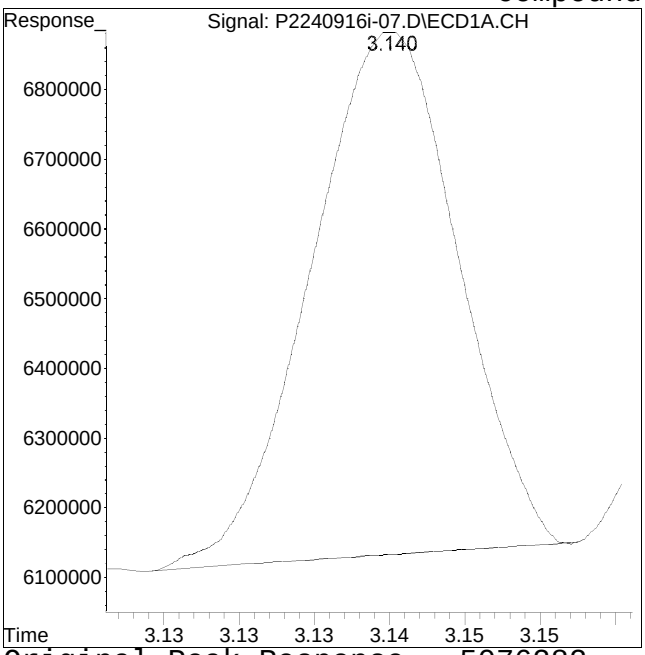
Manual Peak Response = 10390964 M4

M4 = Poor automated baseline construction.

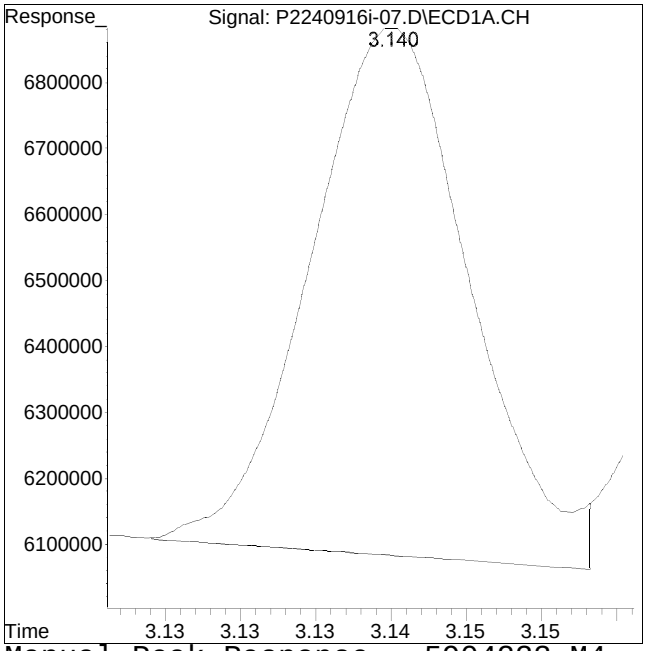
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #11: 1260-3



Original Peak Response = 5076282



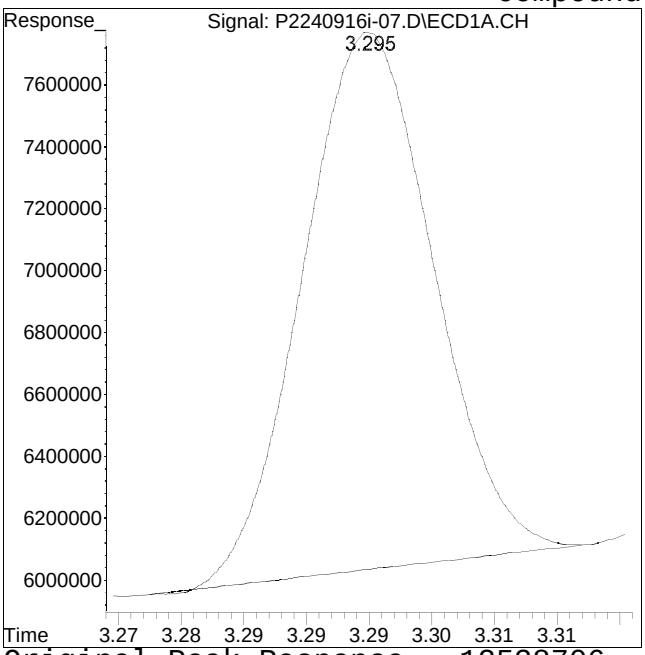
Manual Peak Response = 5904233 M4

M4 = Poor automated baseline construction.

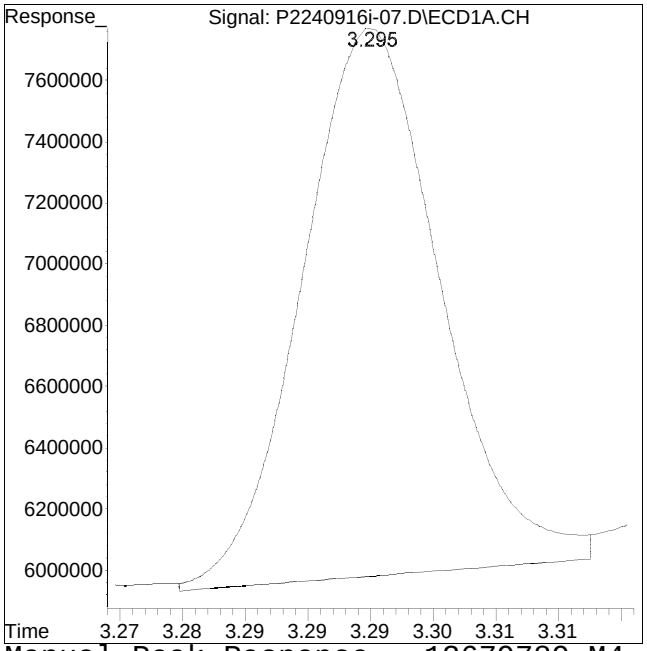
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #12: 1260-4



Original Peak Response = 12538706



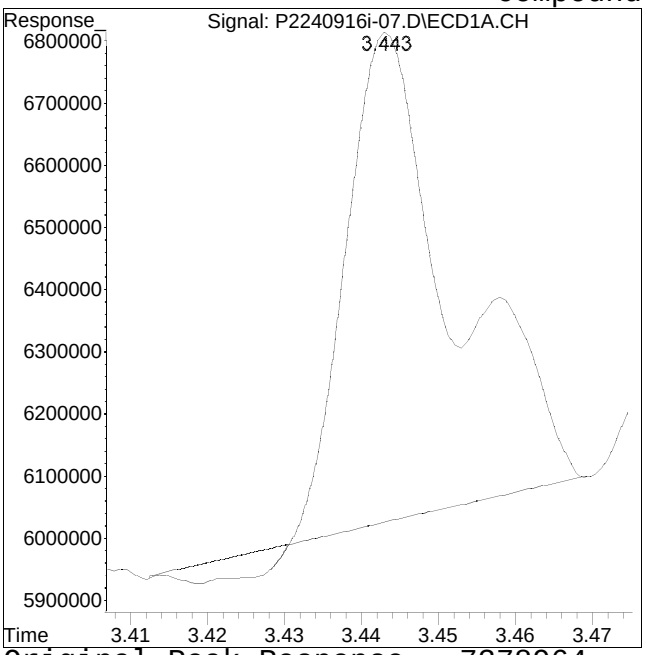
Manual Peak Response = 13679789 M4

M4 = Poor automated baseline construction.

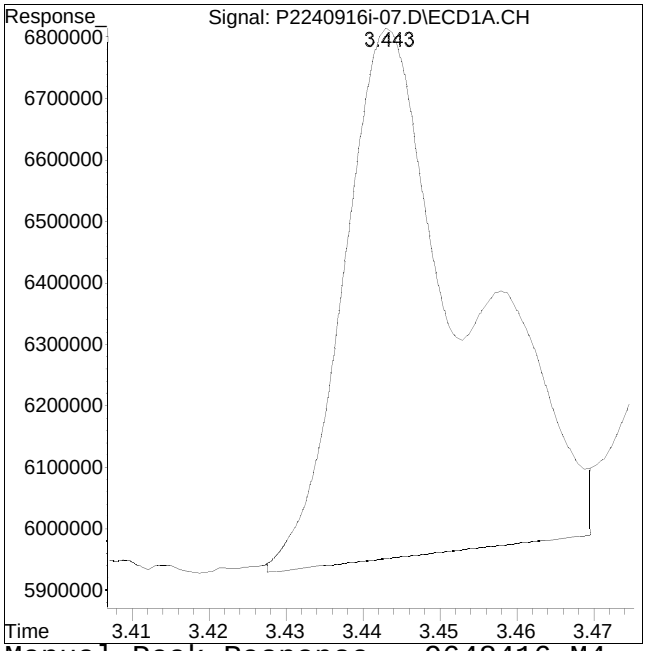
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #13: 1260-5



Original Peak Response = 7378964



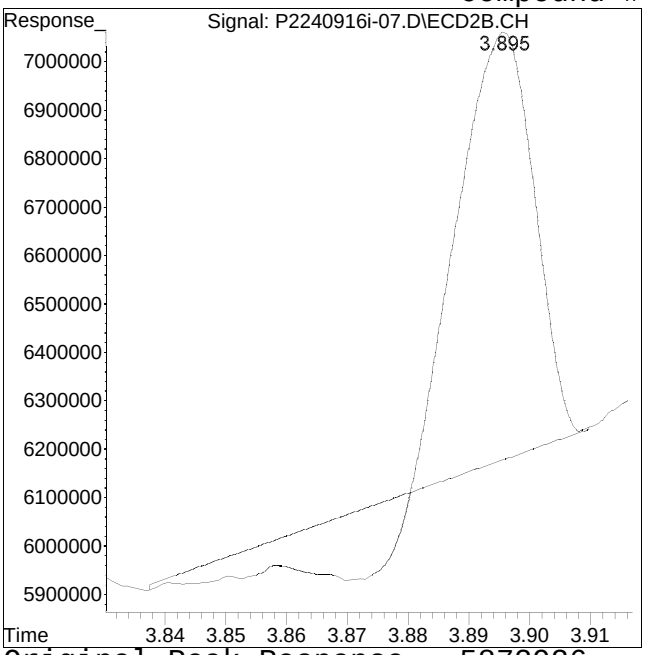
Manual Peak Response = 9648416 M4

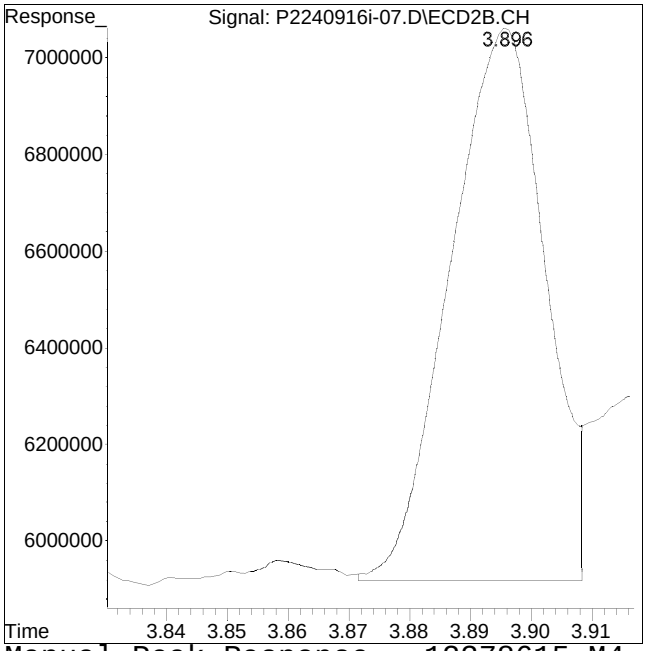
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #64: 1260-5 #2





Original Peak Response = 5872926 Manual Peak Response = 12378615 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	214.3E6	243.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.623	16020654	22117529	1.309M4	1.384
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.26%#	0.28%#
3) s	Decachlorobi	4.026	4.544	25914732	30032686	2.576	2.688
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.52%#	0.54%#
	Target Compounds						
4) l1	1016-1	1.603	1.823	5018375	6360232	20.831	20.435
5) l1	1016-2	1.743	1.992	10998480	13977131	20.066	20.762M4
6) l1	1016-3	1.930	2.194	21149857	27872165	20.918	20.960
7) l1	1016-4	1.985	2.253	9501897	11367344	21.624	21.119
8) l1	1016-5	2.154	2.464	10607500	8713170	21.543	21.072
	Sum 1016-1			57276108	68290042	104.982	104.349
	Average 1016-1					20.996	20.870
9) l2	1260-1	2.696	3.072	13204544	17107728	20.673	19.899
10) l2	1260-2	2.826	3.174	19987171	20486116	20.441	20.853
11) l2	1260-3	3.140	3.566	11909007	16402627	20.284M4	20.730
12) l2	1260-4	3.295	3.695	25682756	32138585	20.258M4	20.438
13) l2	1260-5	3.443	3.896	18874650	23027119	20.154M1	20.680
	Sum 1260-1			89658127	109.2E6	NoCal	NoCal D

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					20.362	20.520
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

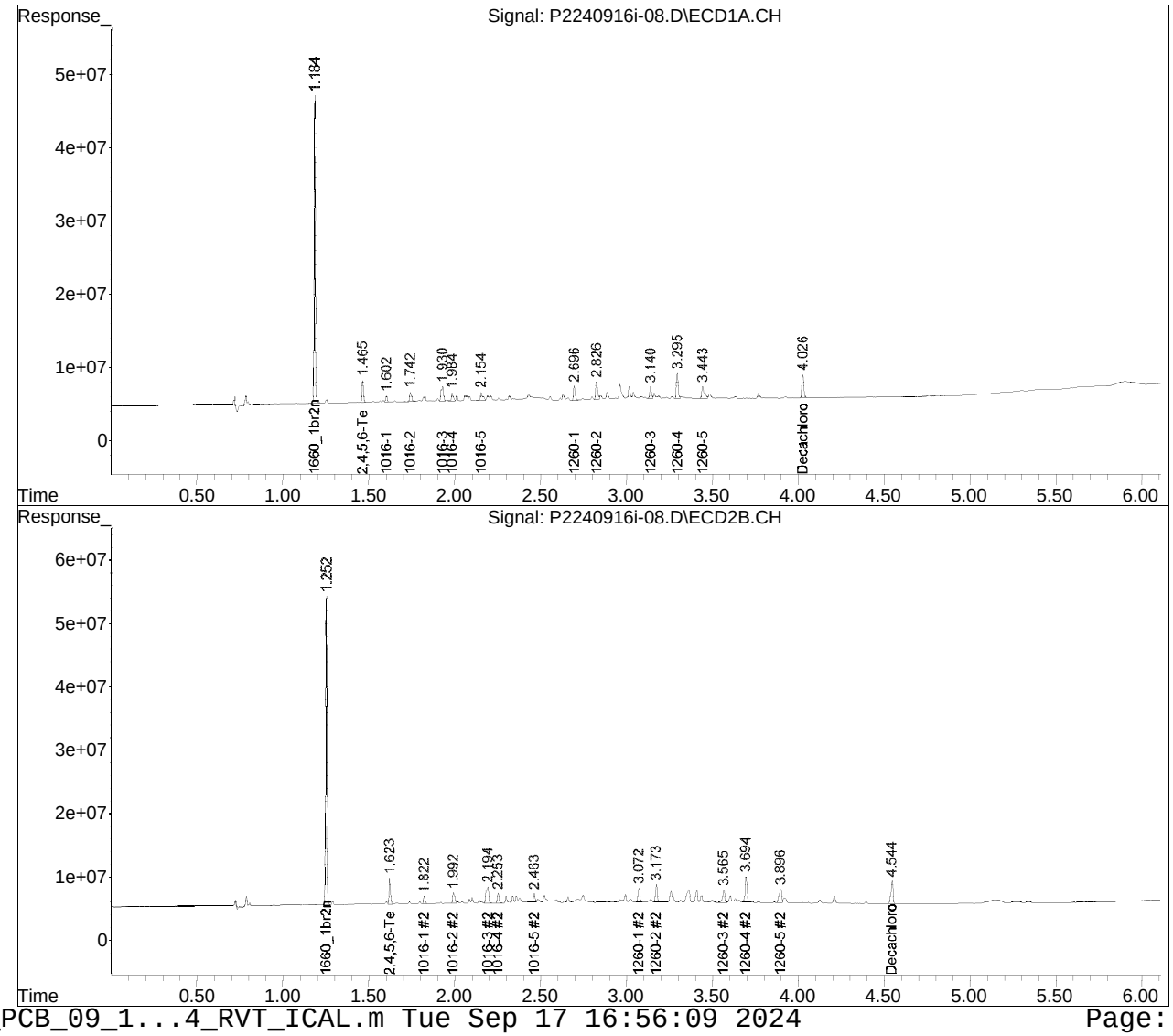
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

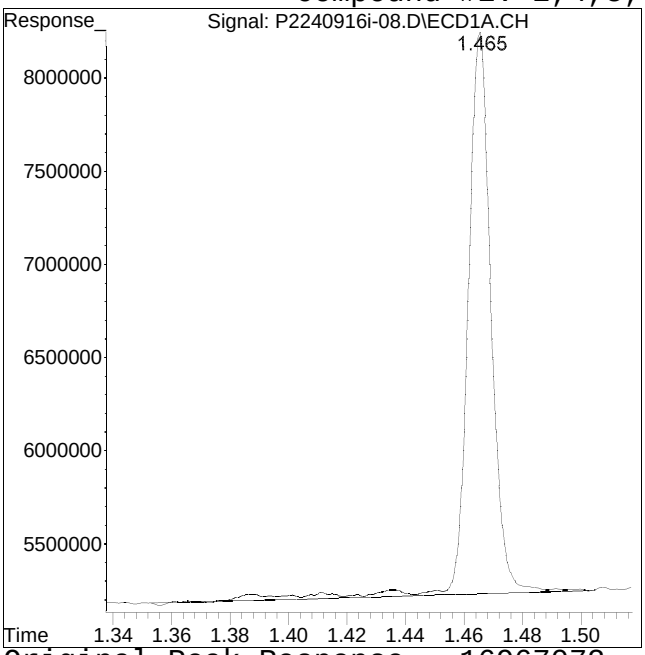
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

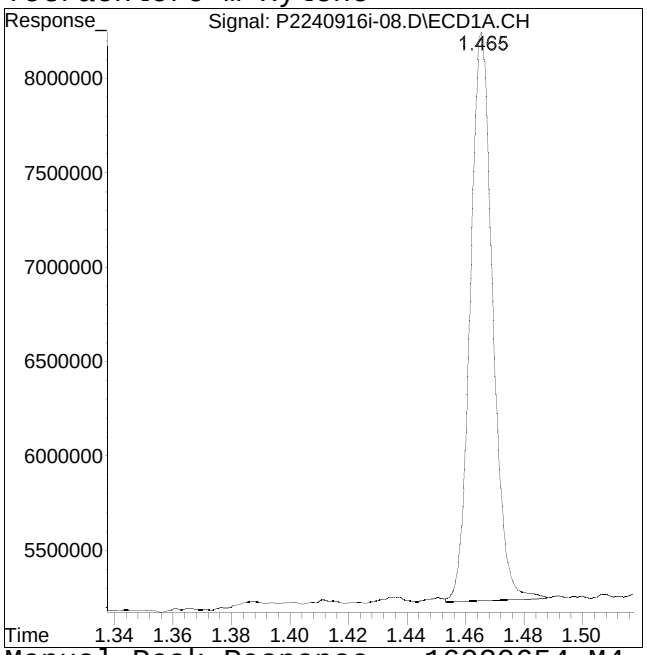


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



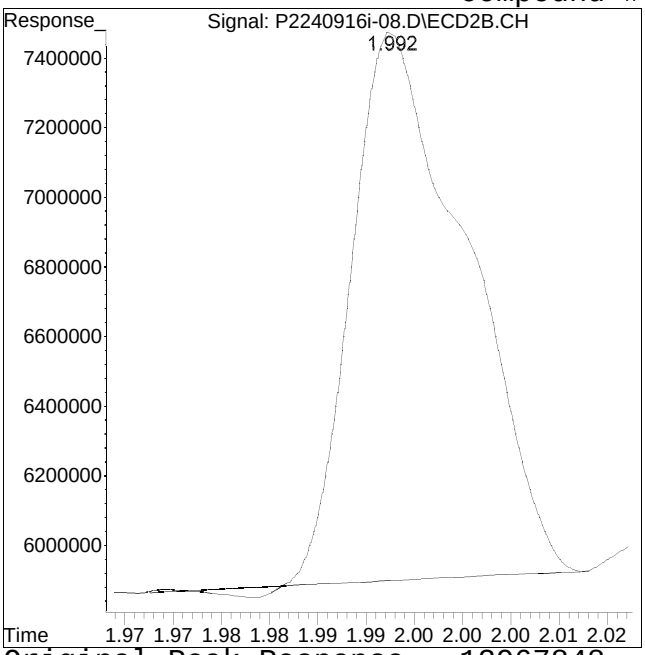


Original Peak Response = 16967072 Manual Peak Response = 16020654 M4
M4 = Poor automated baseline construction.

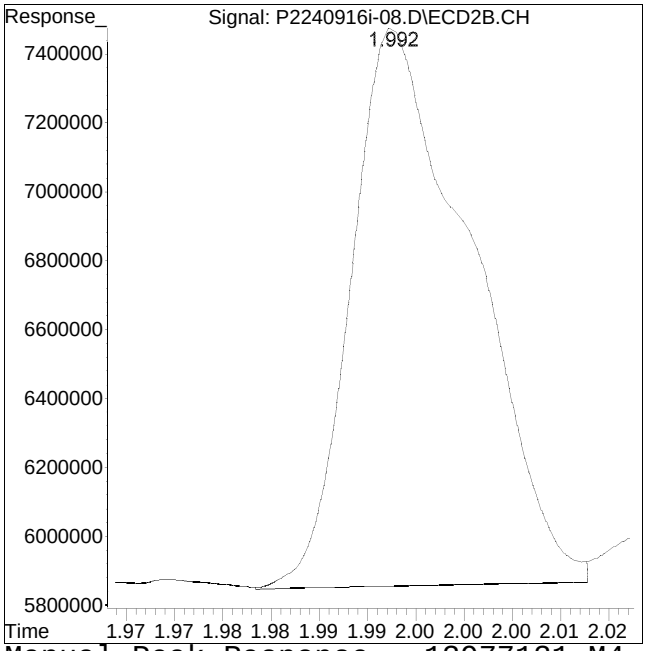
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #56: 1016-2 #2



Original Peak Response = 12967848



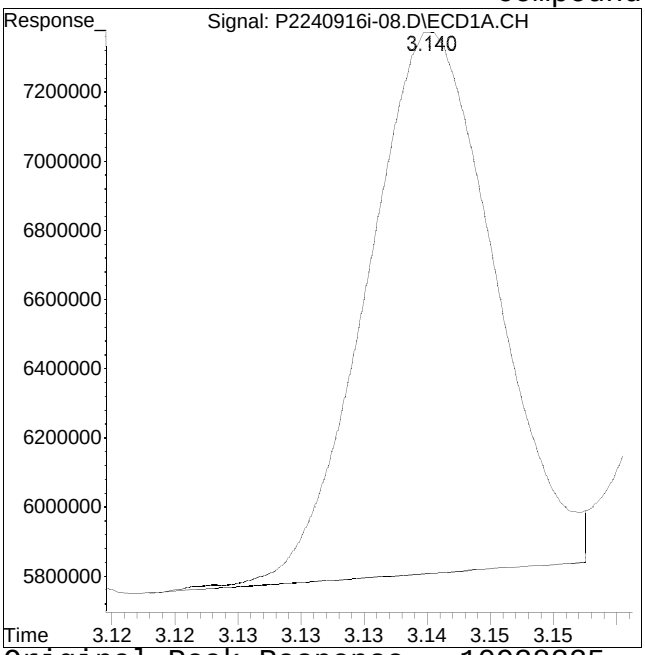
Manual Peak Response = 13977131 M4

M4 = Poor automated baseline construction.

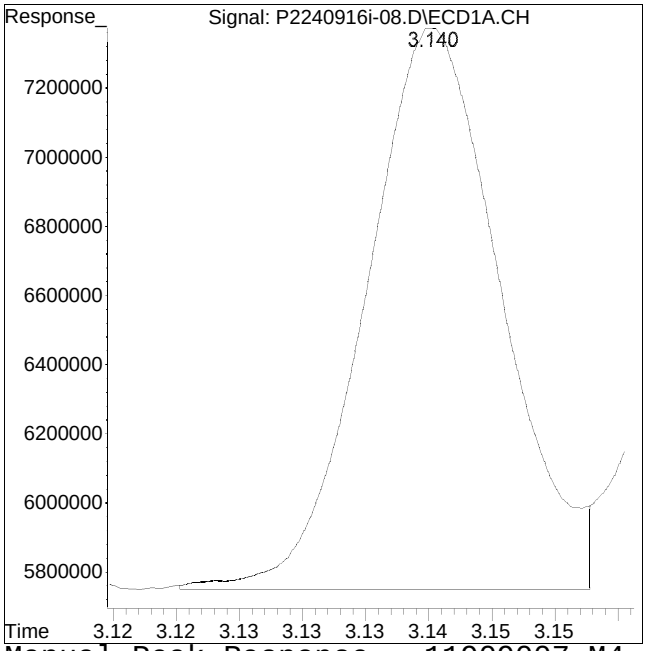
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #11: 1260-3



Original Peak Response = 10938335



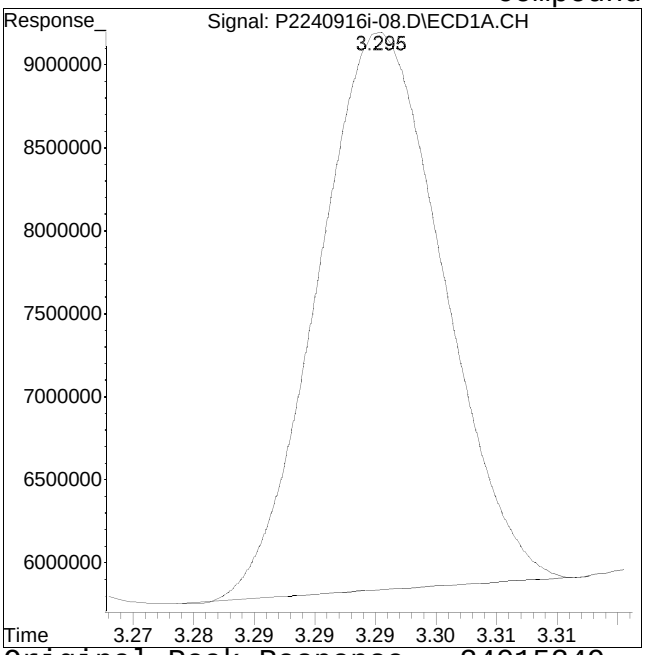
Manual Peak Response = 11909007 M4

M4 = Poor automated baseline construction.

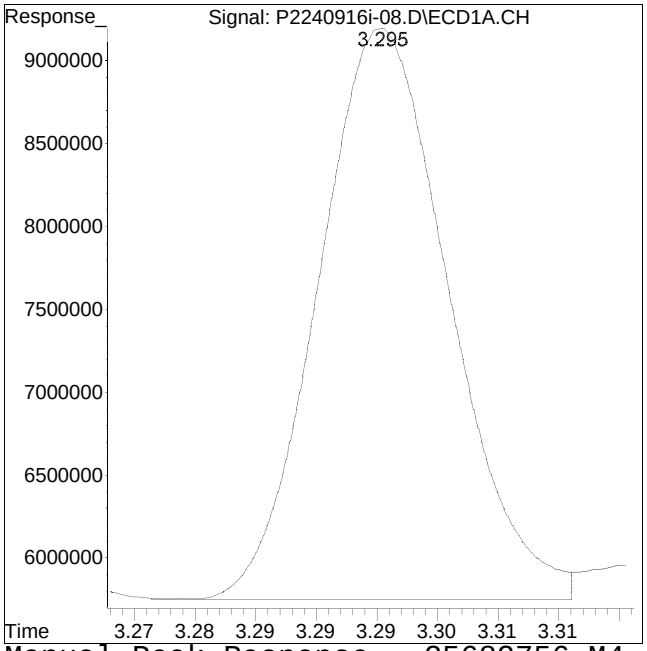
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #12: 1260-4



Original Peak Response = 24015249



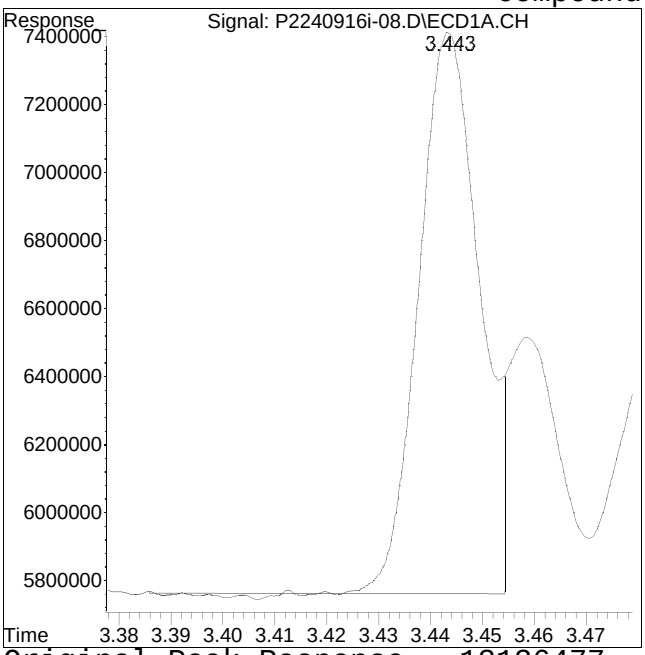
Manual Peak Response = 25682756 M4

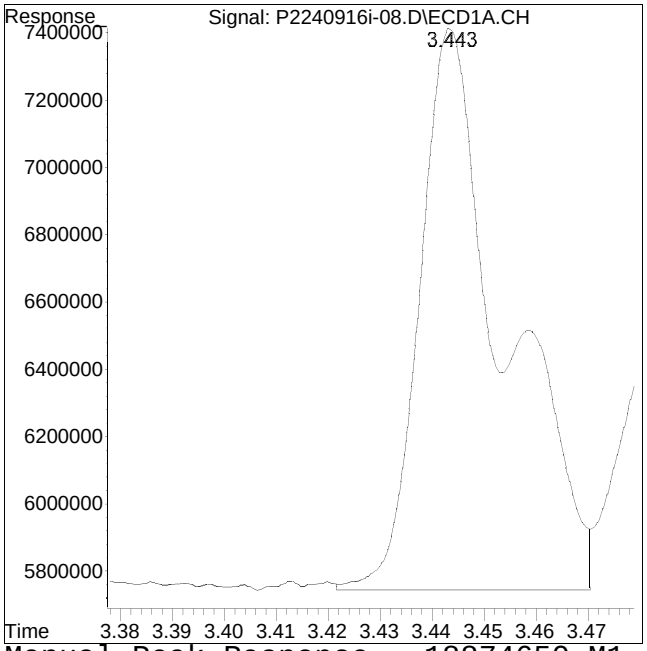
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #13: 1260-5





Original Peak Response = 13136477 Manual Peak Response = 18874650 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	216.0E6	247.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	23701420	31194363	1.889M4	1.847
	Spiked Amount	500.000	Range 30 - 150		Recovery =	0.38%#	0.37%#
3) s	Decachlorobi	4.026	4.545	38950596	43606128	3.826	3.759
	Spiked Amount	500.000	Range 30 - 150		Recovery =	0.77%#	0.75%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	7287008	9490556	29.170	27.538
5) l1	1016-2	1.742	1.993	16579873	20527486	31.702	29.491M4
6) l1	1016-3	1.930	2.194	30584344	40547738	29.036	29.808
7) l1	1016-4	1.984	2.254	13291546	16412600	28.306	28.349
8) l1	1016-5	2.154	2.465	14893970	12608593	27.402	29.750
	Sum 1016-1			82636742	99586974	145.616	144.936
	Average 1016-1					29.123	28.987
9) l2	1260-1	2.695	3.073	19320420	26215729	28.174	29.264
10) l2	1260-2	2.825	3.174	29577395	29956727	29.692	28.863
11) l2	1260-3	3.140	3.566	17759471	24127405	29.713	29.179
12) l2	1260-4	3.295	3.695	38348158	47949577	29.629M4	28.723
13) l2	1260-5	3.443	3.897	28327981	33953657	29.791M1	29.646
	Sum 1260-1			133.3E6	162.2E6	NoCal	NoCal D
	Average 1260-1					29.400	29.135

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

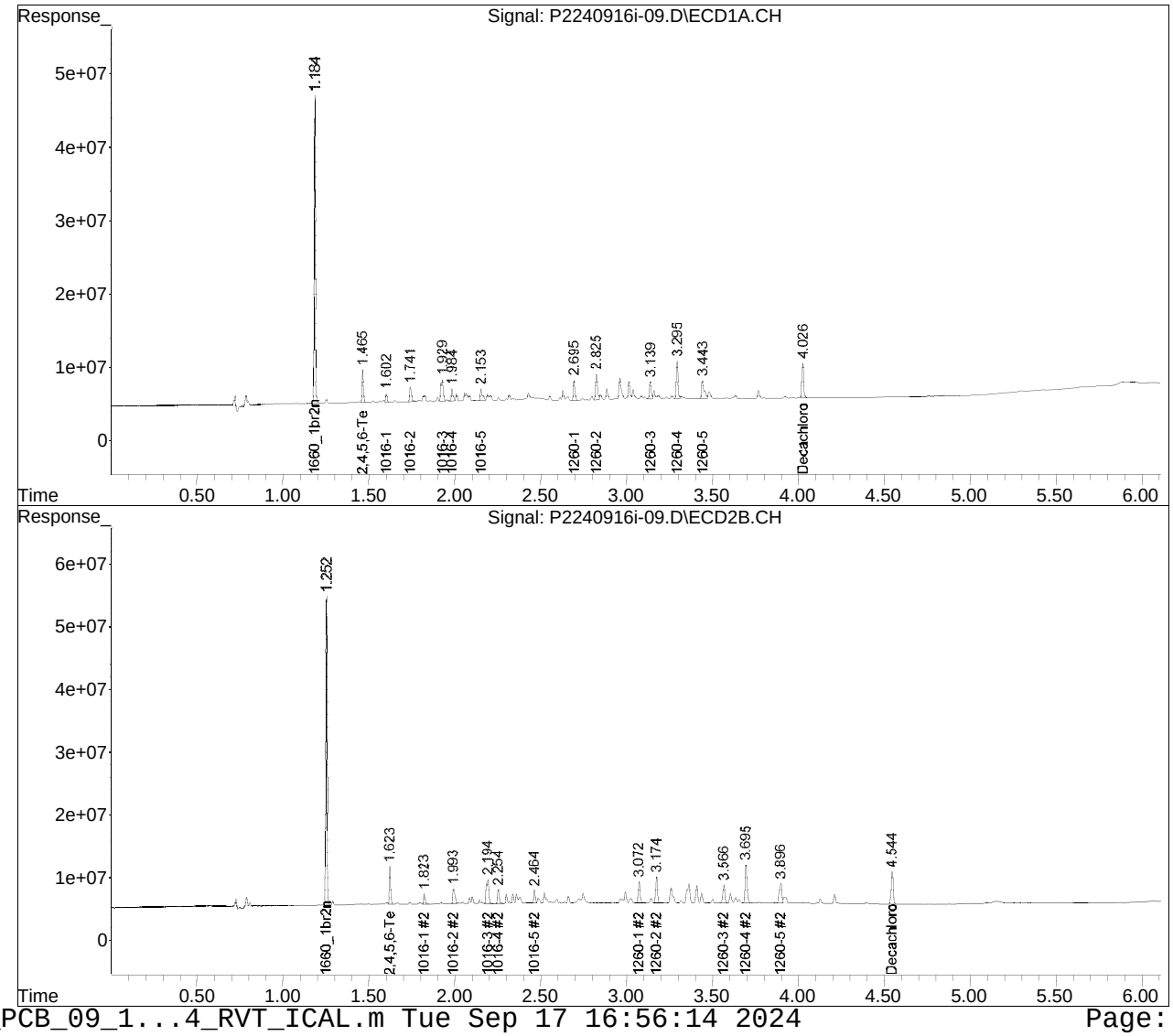
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

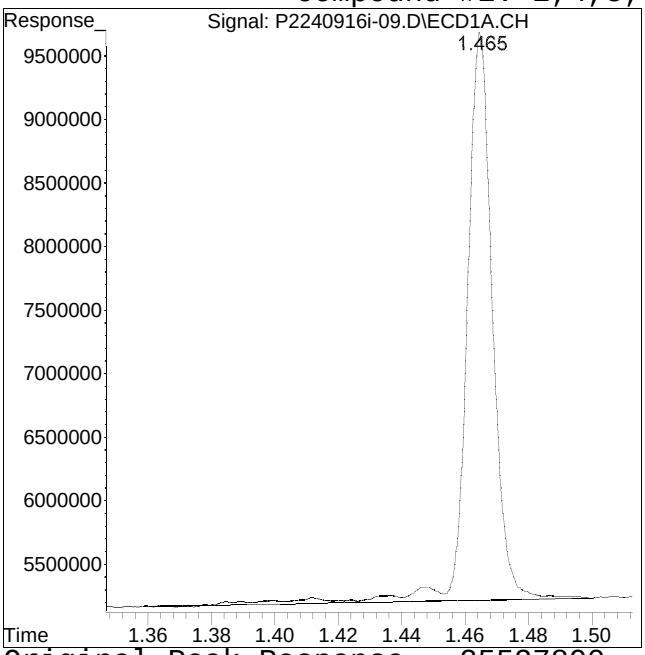
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



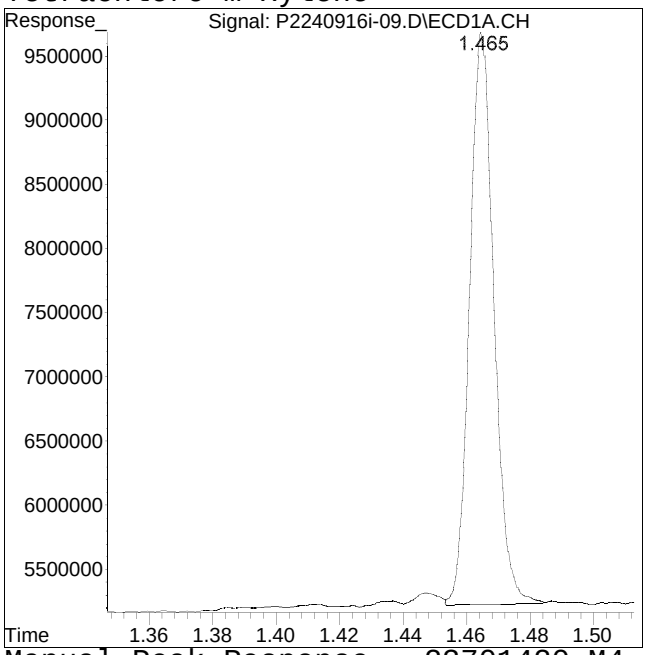
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 25527890



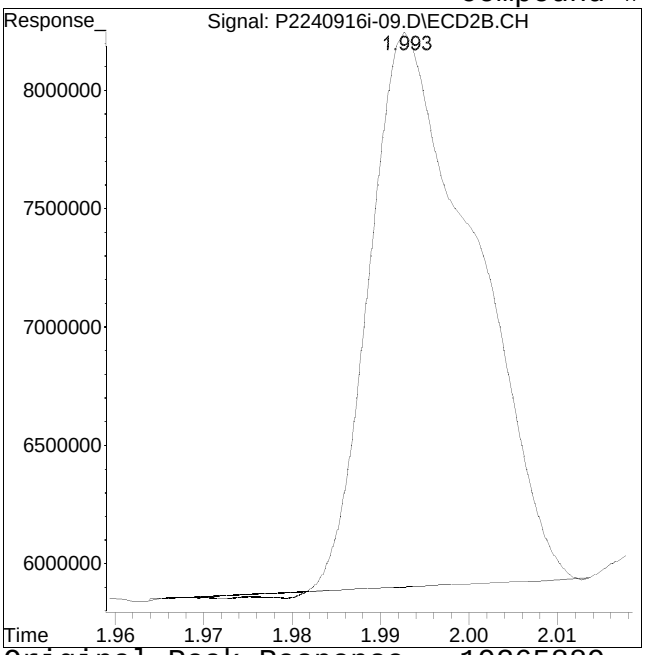
Manual Peak Response = 23701420 M4

M4 = Poor automated baseline construction.

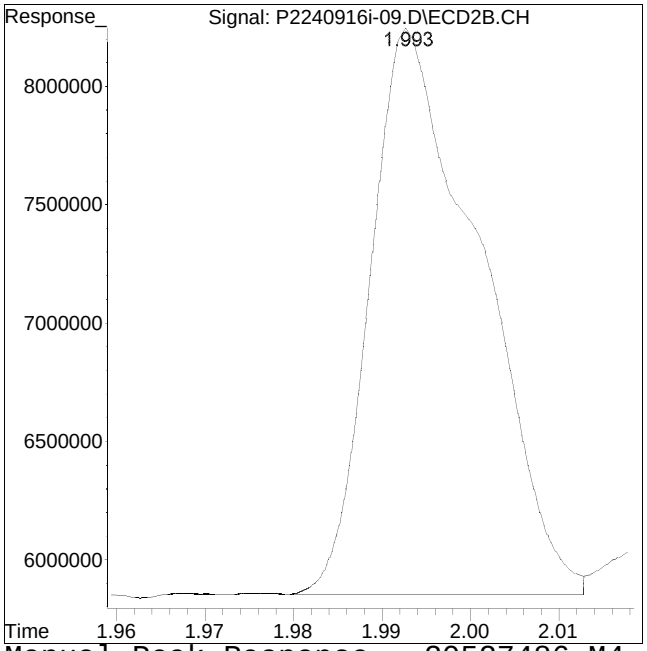
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #56: 1016-2 #2



Original Peak Response = 19265889



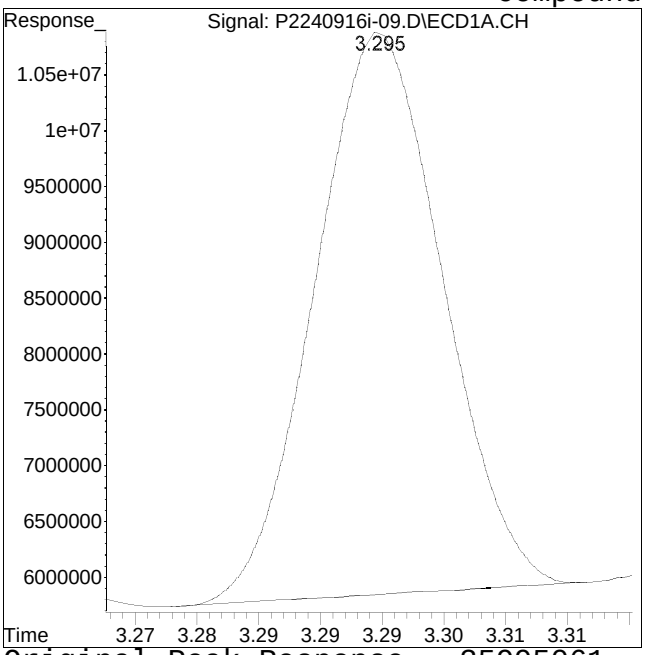
Manual Peak Response = 20527486 M4

M4 = Poor automated baseline construction.

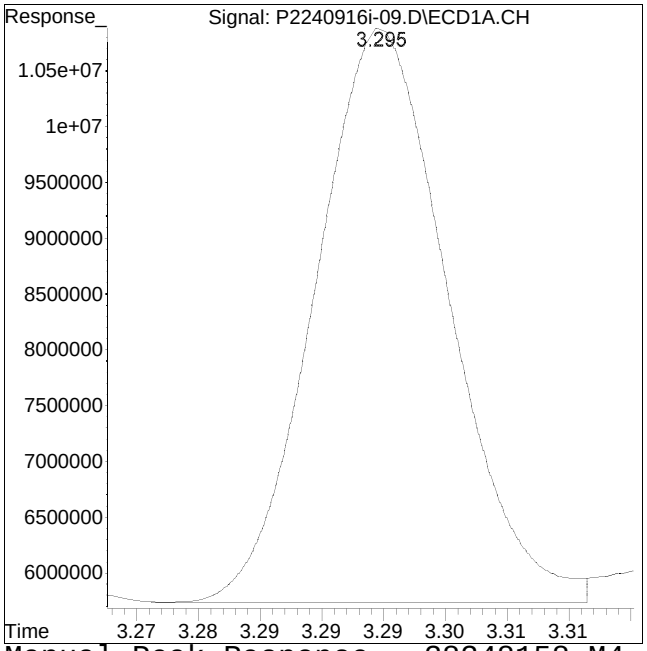
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #12: 1260-4



Original Peak Response = 35995061



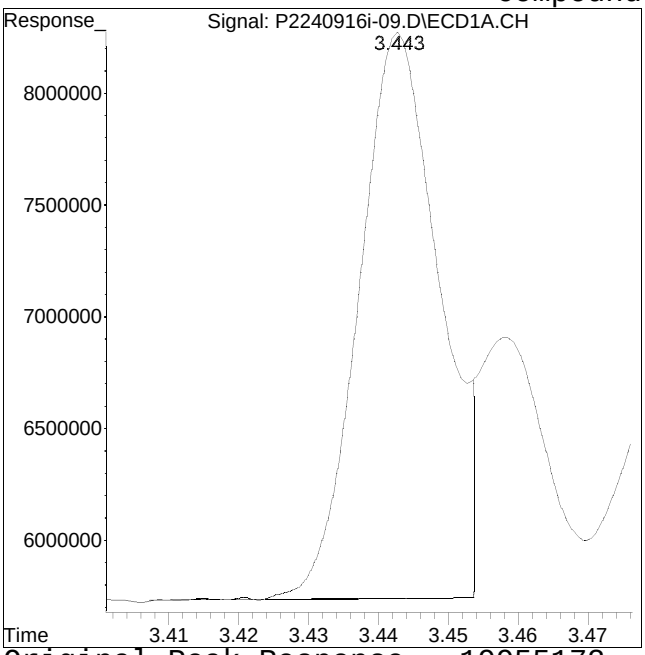
Manual Peak Response = 38348158 M4

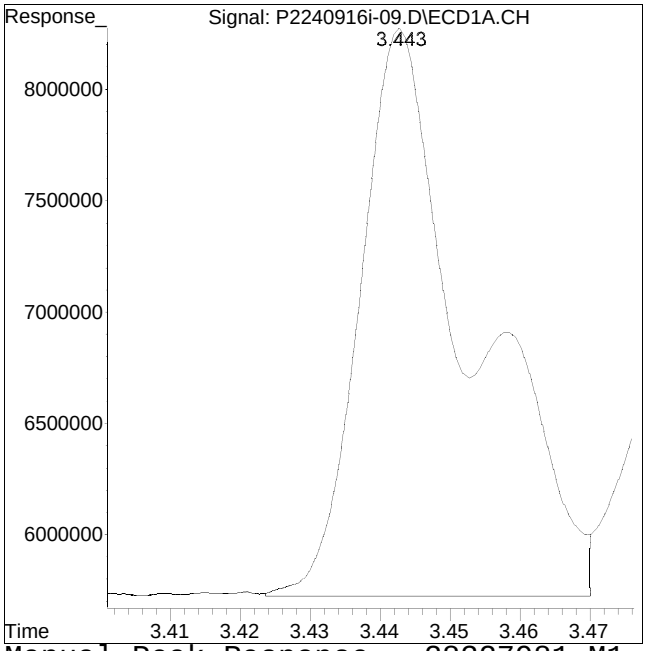
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #13: 1260-5





Original Peak Response = 19955172 Manual Peak Response = 28327981 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	216.4E6	249.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	31028289	41234103	2.471	2.385
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.49%#	0.48%#
3) s	Decachlorobi	4.026	4.544	51601040	56755220	4.826	4.543
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.97%#	0.91%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	9304445	12151923	37.122	36.165
5) l1	1016-2	1.742	1.994	20984858	27943430	38.015	40.159
6) l1	1016-3	1.930	2.194	39280097	52100559	37.879	36.222
7) l1	1016-4	1.984	2.254	16995850	21059831	38.267	36.078
8) l1	1016-5	2.154	2.465	19236393	16893873	38.583	37.107
	Sum 1016-1			105.8E6	130.1E6	189.865	185.732
	Average 1016-1					37.973	37.146
9) l2	1260-1	2.695	3.073	25459305	33045513	37.479	36.494
10) l2	1260-2	2.825	3.175	39329833	38676250	38.511	36.078
11) l2	1260-3	3.140	3.566	24327242	31748249	41.111	36.463
12) l2	1260-4	3.295	3.696	51329323	63121572	38.676M4	37.732
13) l2	1260-5	3.443	3.897	36401098	44712642	37.610M1	37.354
	Sum 1260-1			176.8E6	211.3E6	NoCal	NoCal D
	Average 1260-1					38.677	36.824
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

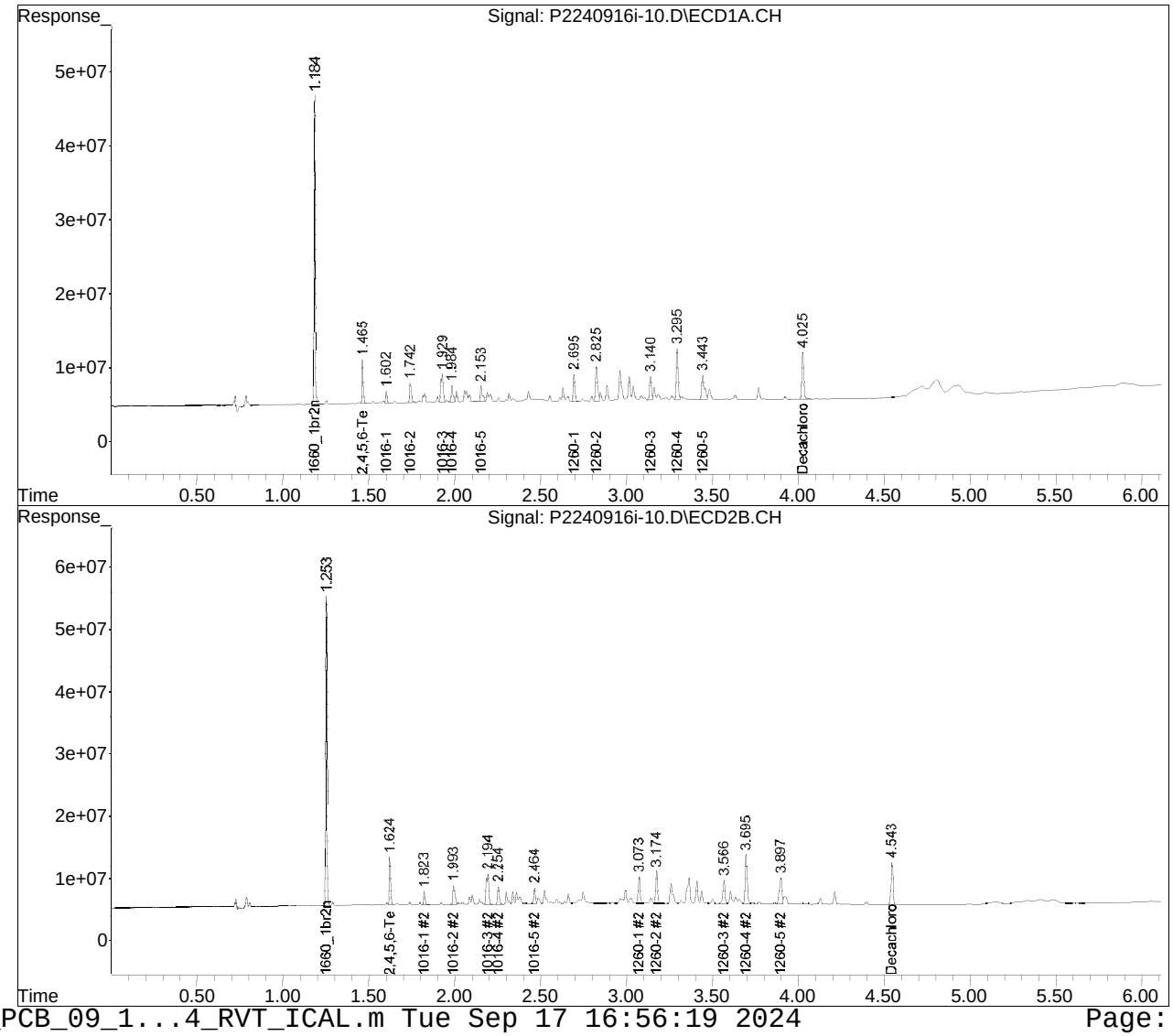
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

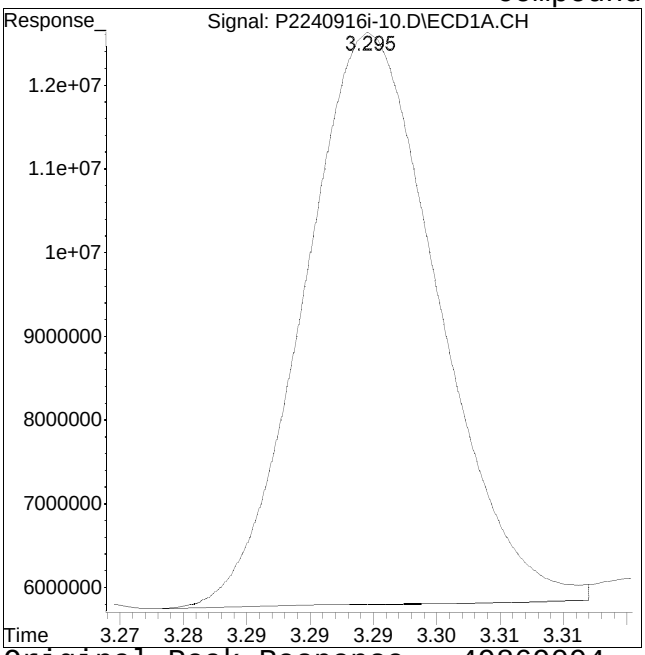
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



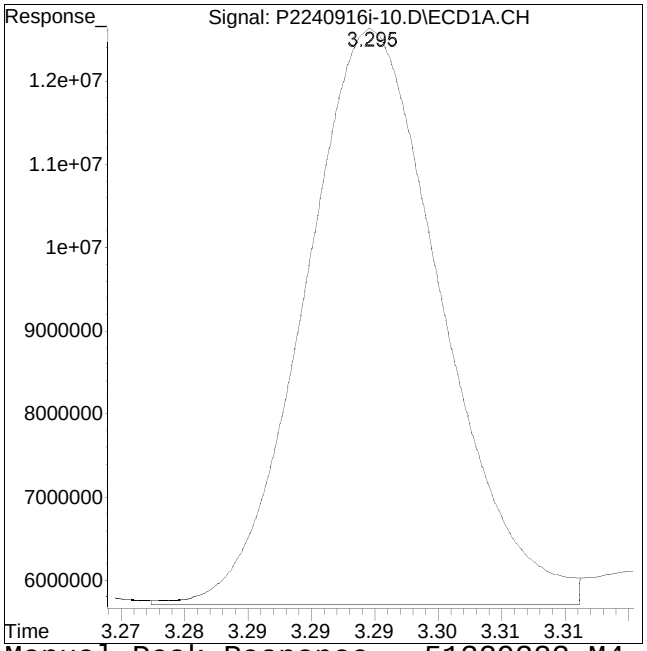
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-10.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:04 pm Instrument : Pest 2
Sample : il51660,42,,pp11790 40PPB Quant Date : 9/16/2024 4:28 pm

Compound #12: 1260-4



Original Peak Response = 49869094



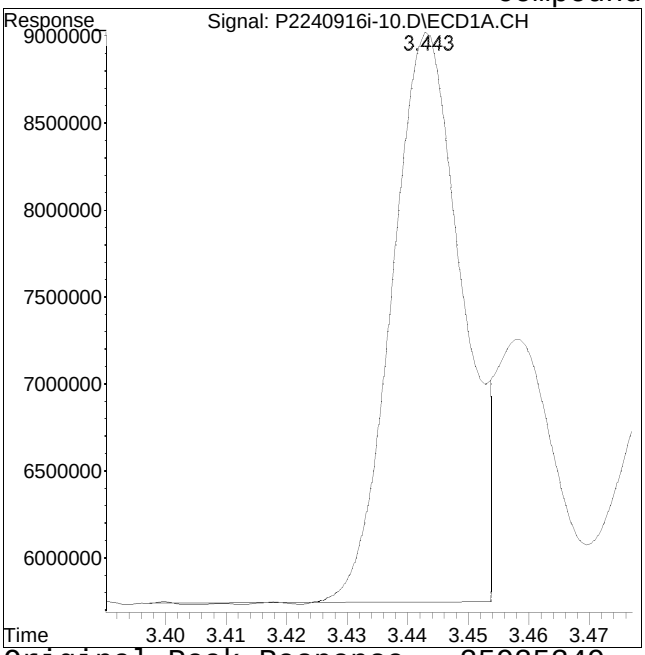
Manual Peak Response = 51329323 M4

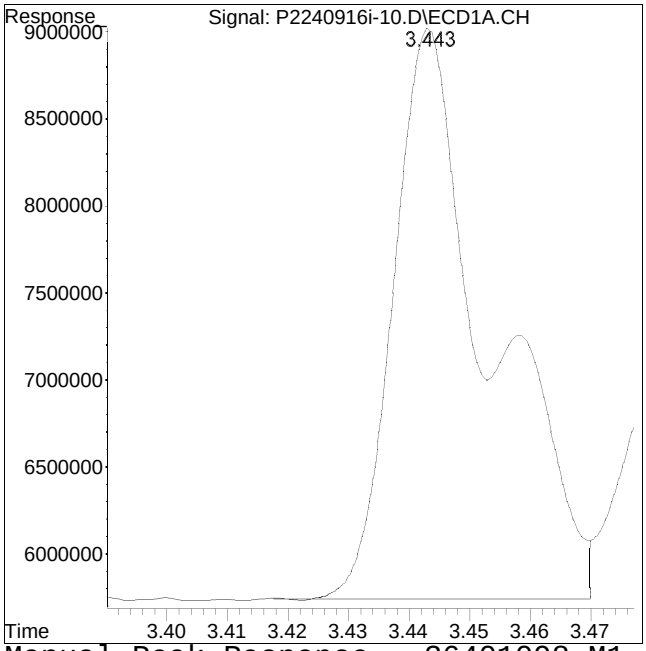
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-10.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:04 pm Instrument : Pest 2
Sample : il51660,42,,pp11790 40PPB Quant Date : 9/16/2024 4:28 pm

Compound #13: 1260-5





Original Peak Response = 25935349 Manual Peak Response = 36401098 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.254	213.0E6	248.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	39428033	52397795	3.212M4	3.080
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.64%#	0.62%#
3) s	Decachlorobi	4.025	4.546	63094250	69128698	6.065	5.673
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.21%#	1.13%#
	Target Compounds						
4) l1	1016-1	1.602	1.824	11776281	15111645	48.430	45.952
5) l1	1016-2	1.742	1.994	25061708	34577252	46.588	49.761
6) l1	1016-3	1.929	2.194	50302979	65581605	49.811	46.574
7) l1	1016-4	1.984	2.255	20972386	26755739	48.393	46.855
8) l1	1016-5	2.153	2.465	23796597	21258213	48.837	47.482
	Sum 1016-1			131.9E6	163.3E6	242.057	236.624
	Average 1016-1					48.411	47.325
9) l2	1260-1	2.695	3.073	32210793	44682243	48.789	50.335
10) l2	1260-2	2.824	3.175	49517504	52152053	49.629	49.729
11) l2	1260-3	3.139	3.566	30106707	42000177	51.404	49.212
12) l2	1260-4	3.295	3.696	63286689	79371969	48.769	48.094
13) l2	1260-5	3.442	3.897	45478274	56662066	48.316M1	48.076
	Sum 1260-1			220.6E6	274.9E6	NoCal	NoCal D
	Average 1260-1					49.382	49.089
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

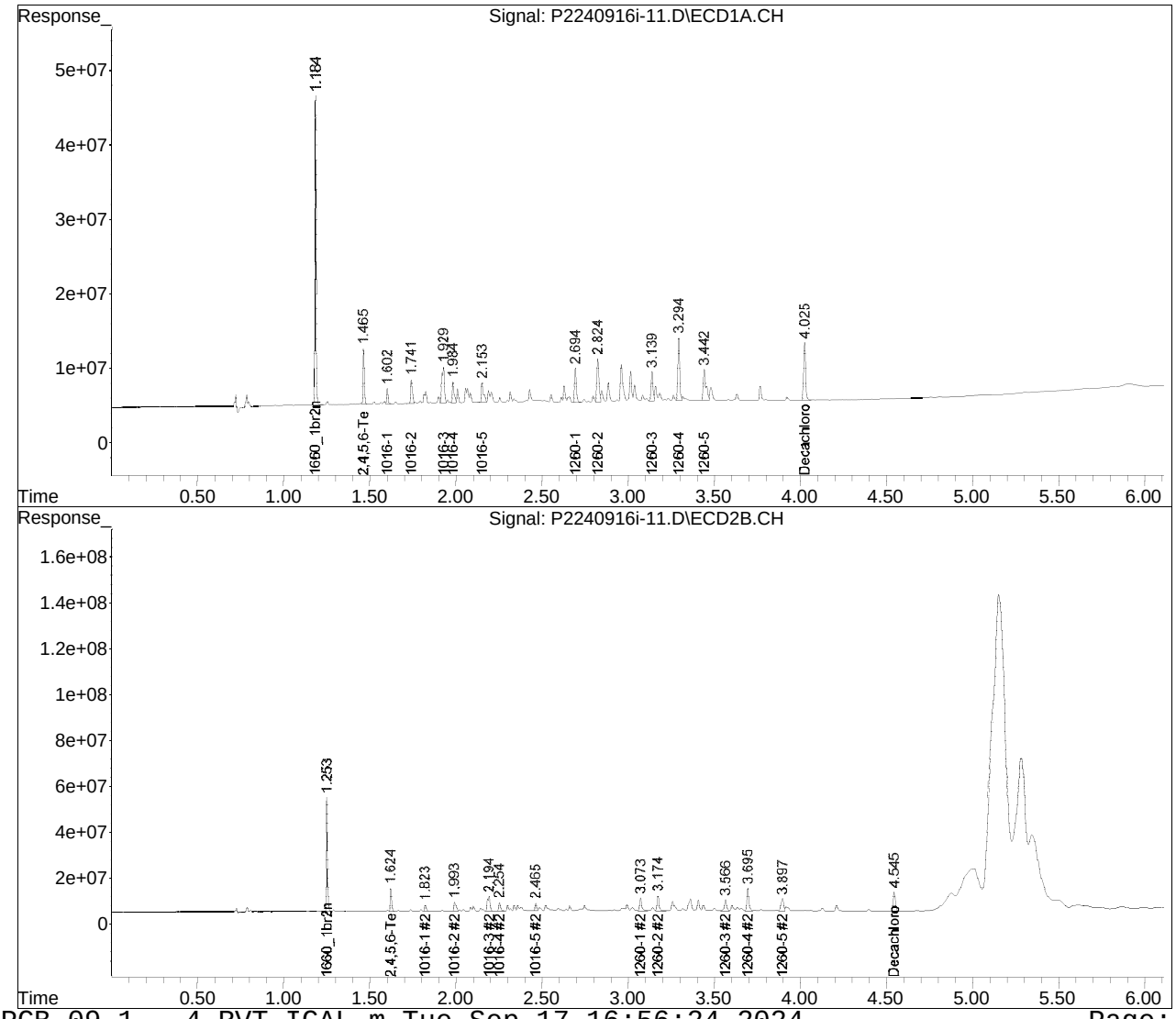
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

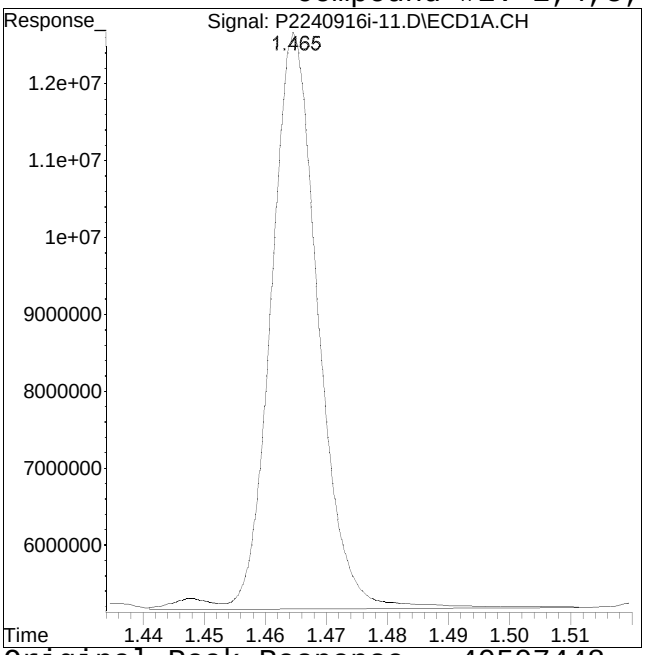
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

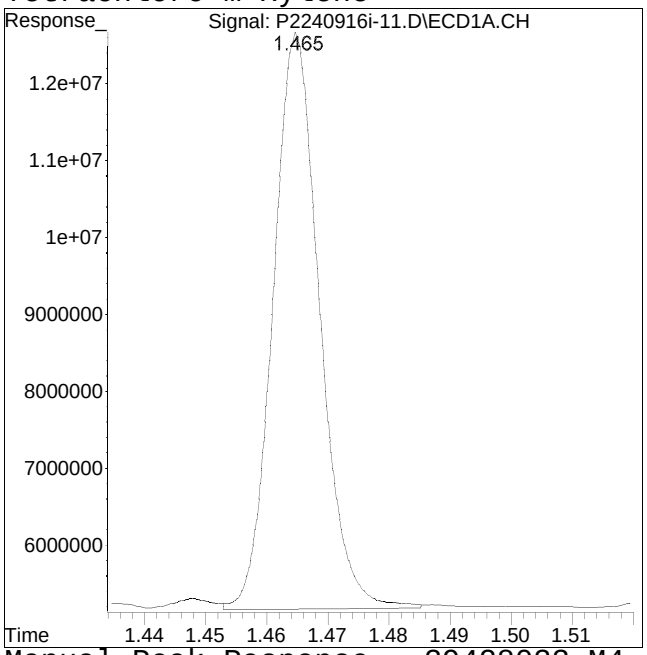


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-11.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:13 pm Instrument : Pest 2
Sample : il61660,42,,pp11790 50PPB Quant Date : 9/16/2024 4:30 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



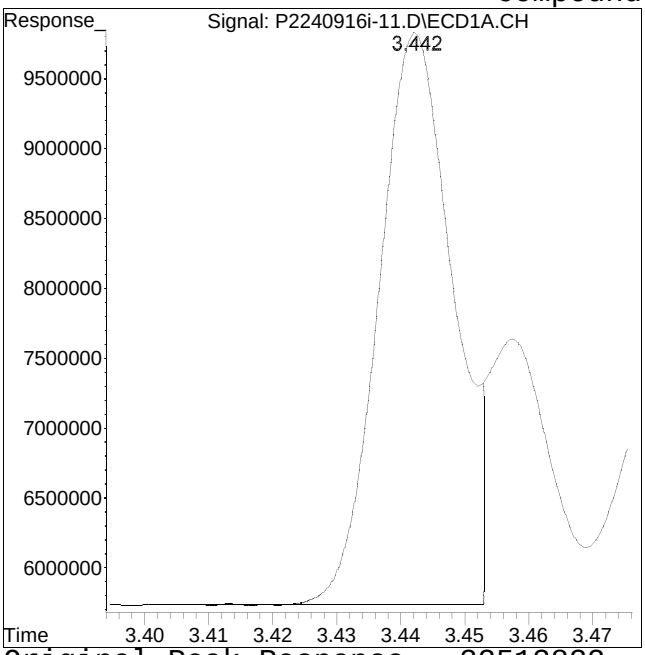


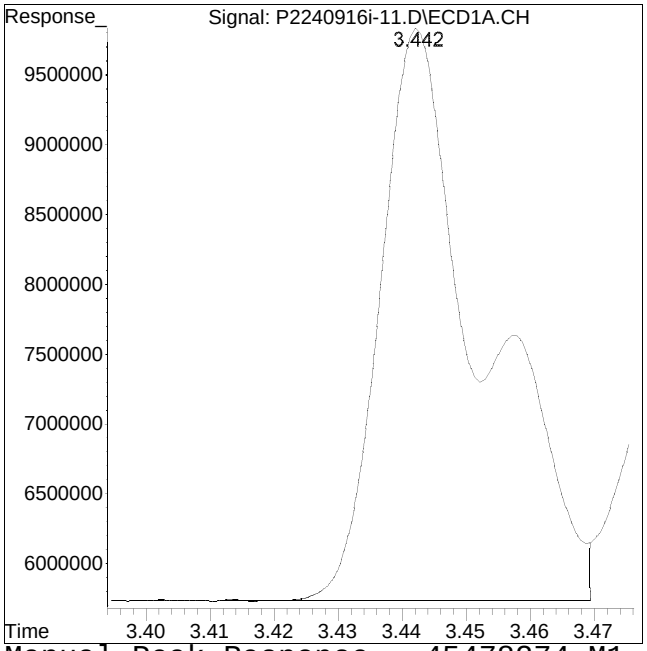
Original Peak Response = 40507448 Manual Peak Response = 39428033 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-11.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:13 pm Instrument : Pest 2
Sample : il61660,42,,pp11790 50PPB Quant Date : 9/16/2024 4:30 pm

Compound #13: 1260-5





Original Peak Response = 32513832 Manual Peak Response = 45478274 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.253	210.7E6	240.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	76441607	96600800	6.292	5.904
Spiked Amount	500.000	Range 30 - 150		Recovery =		1.26%#	1.18%#
3) s	Decachlorobi	4.027	4.544	119.4E6	128.5E6	11.710	11.107
Spiked Amount	500.000	Range 30 - 150		Recovery =		2.34%#	2.22%#
	Target Compounds						
4) l1	1016-1	1.603	1.824	22017271	28864311	92.028	91.929
5) l1	1016-2	1.743	1.994	47238846	64270248	89.804	95.644
6) l1	1016-3	1.931	2.195	95325099	123.2E6	95.495	91.422
7) l1	1016-4	1.985	2.255	38810588	49683299	91.030	90.850
8) l1	1016-5	2.155	2.465	42584511	42071374	88.703	97.915
Sum	1016-1			246.0E6	308.1E6	457.061	467.760
Average	1016-1					91.412	93.552
9) l2	1260-1	2.696	3.073	61018752	75472461	93.824	87.748
10) l2	1260-2	2.826	3.175	93199351	89344045	94.559	88.104
11) l2	1260-3	3.141	3.566	57022126	75028500	97.976	91.074
12) l2	1260-4	3.296	3.695	123.5E6	145.4E6	96.592M4	91.595
13) l2	1260-5	3.444	3.896	87596965	107.9E6	94.622M1	95.246
Sum	1260-1			422.3E6	493.2E6	NoCal	NoCal D
Average	1260-1					95.514	90.753
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

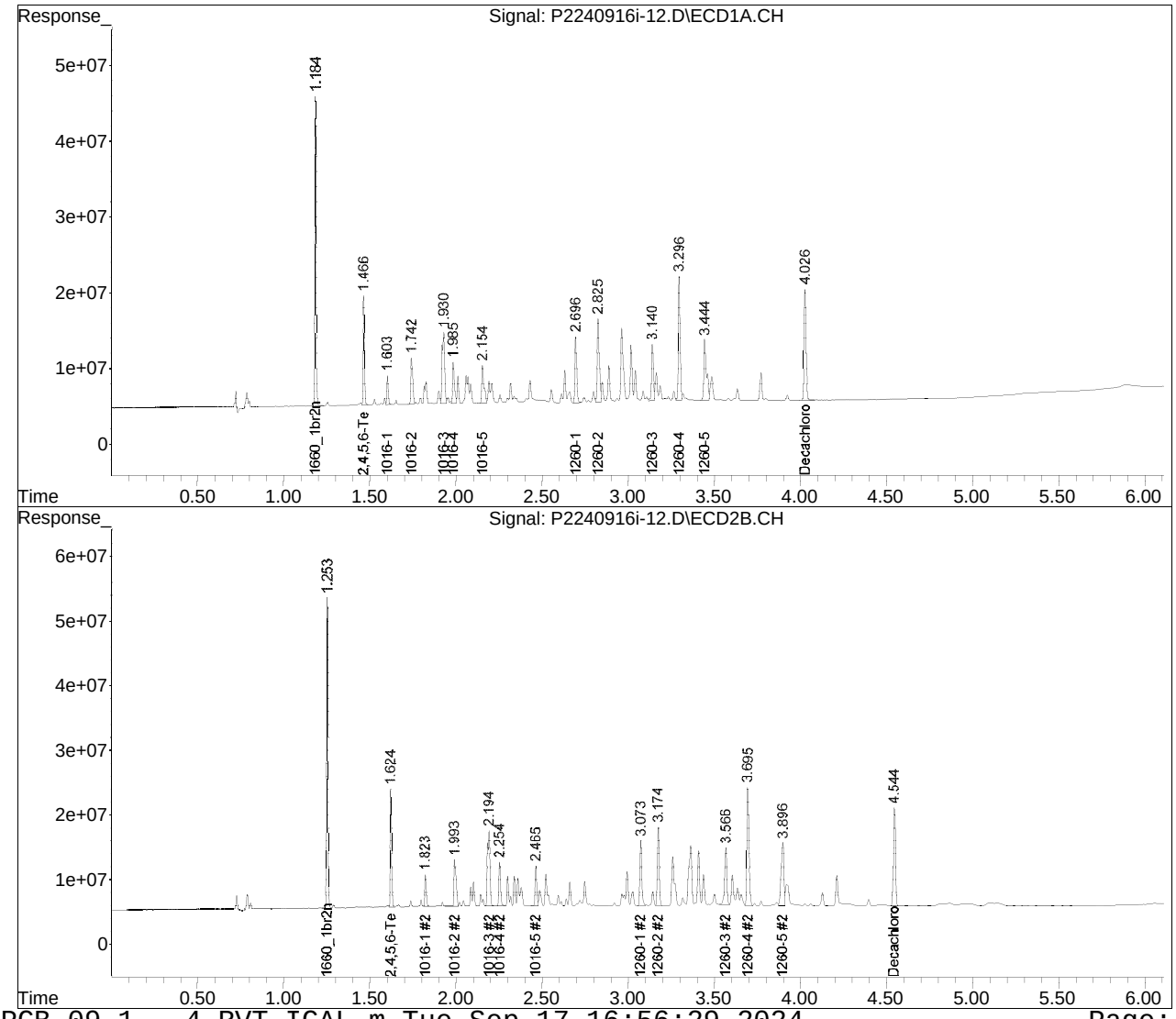
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

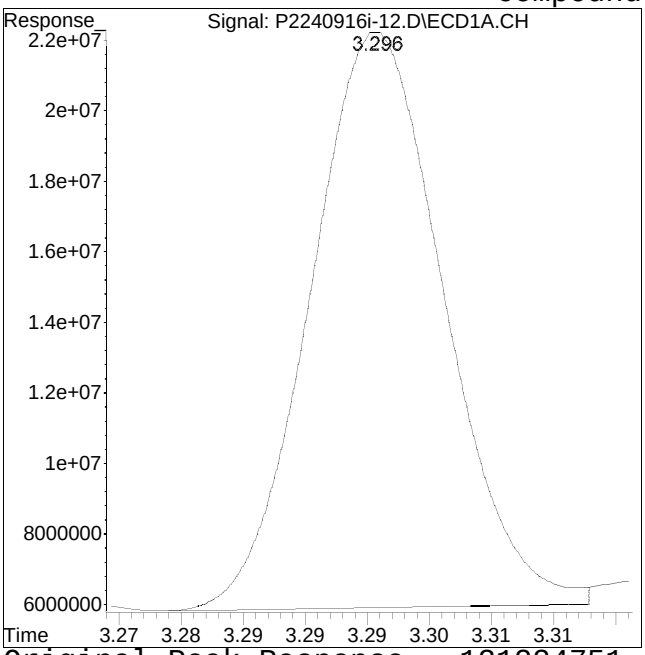
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

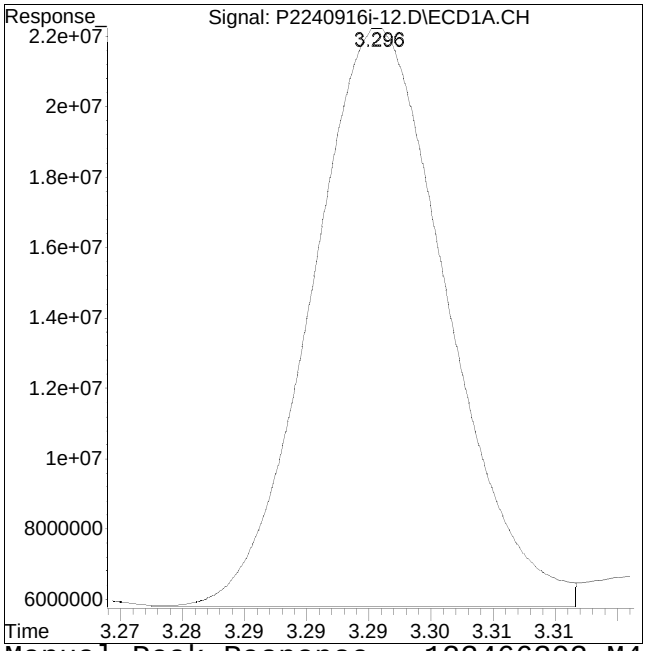


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-12.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:22 pm Instrument : Pest 2
Sample : il71660,42,,pp11790 100PPBQuant Date : 9/16/2024 4:31 pm

Compound #12: 1260-4



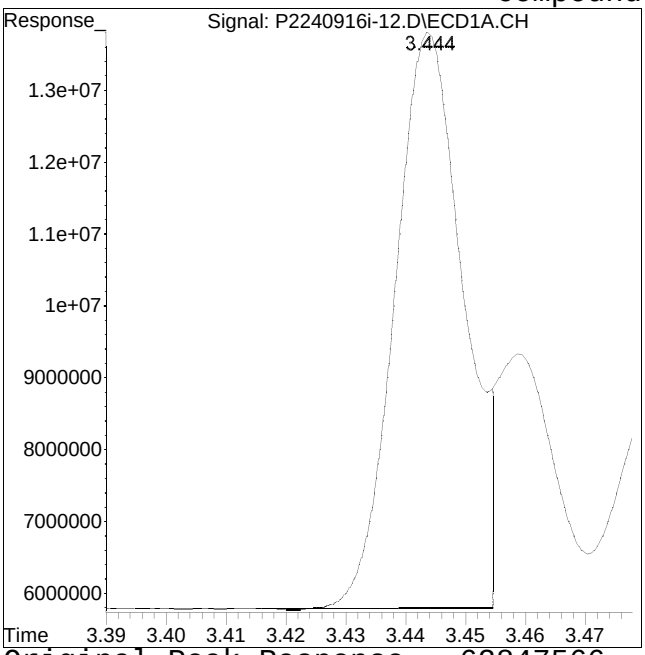


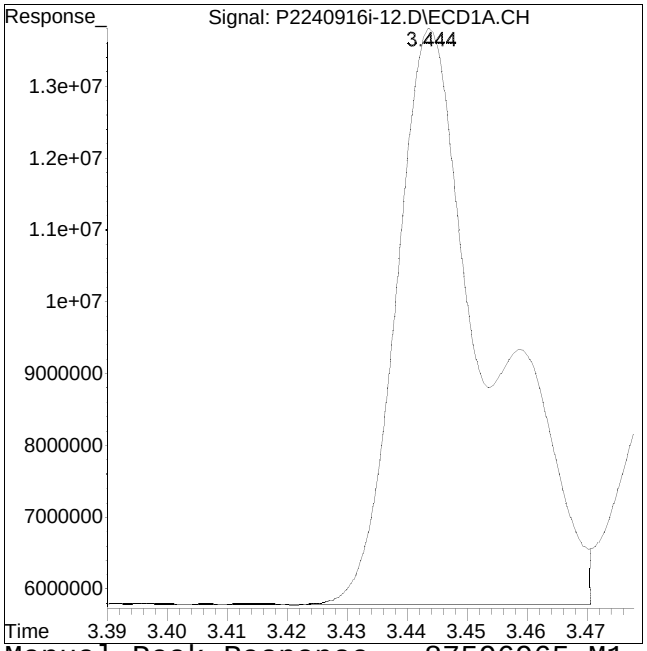
Original Peak Response = 121224751 Manual Peak Response = 123466393 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-12.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:22 pm Instrument : Pest 2
Sample : il71660,42,,pp11790 100PPBQuant Date : 9/16/2024 4:31 pm

Compound #13: 1260-5





Original Peak Response = 62847566 Manual Peak Response = 87596965 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	209.4E6	247.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	198.1E6	243.7E6	16.440	14.662
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.29%#	2.93%#
3) s	Decachlorobi	4.026	4.544	289.5E6	295.4E6	28.907	25.336
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.78%#	5.07%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	53816714	66436867	228.892	208.375
5) l1	1016-2	1.742	1.994	114.9E6	146.9E6	222.931	214.174
6) l1	1016-3	1.929	2.194	242.2E6	290.9E6	245.615	212.759
7) l1	1016-4	1.984	2.254	101.9E6	116.8E6	243.501	210.701
8) l1	1016-5	2.153	2.465	107.4E6	96028481	228.639	218.205
	Sum 1016-1			620.1E6	717.1E6	1169.577	1064.213
Average	1016-1					233.915	212.843
9) l2	1260-1	2.695	3.073	148.2E6	178.2E6	231.225	205.306
10) l2	1260-2	2.825	3.175	225.8E6	210.2E6	232.254	205.300
11) l2	1260-3	3.140	3.566	143.7E6	171.1E6	249.056	204.767
12) l2	1260-4	3.295	3.696	314.4E6	344.3E6	248.663	213.721
13) l2	1260-5	3.443	3.897	218.3E6	240.1E6	239.061	207.625
	Sum 1260-1			1050.4E6	1143.9E6	NoCal	NoCal D
Average	1260-1					240.052	207.344
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

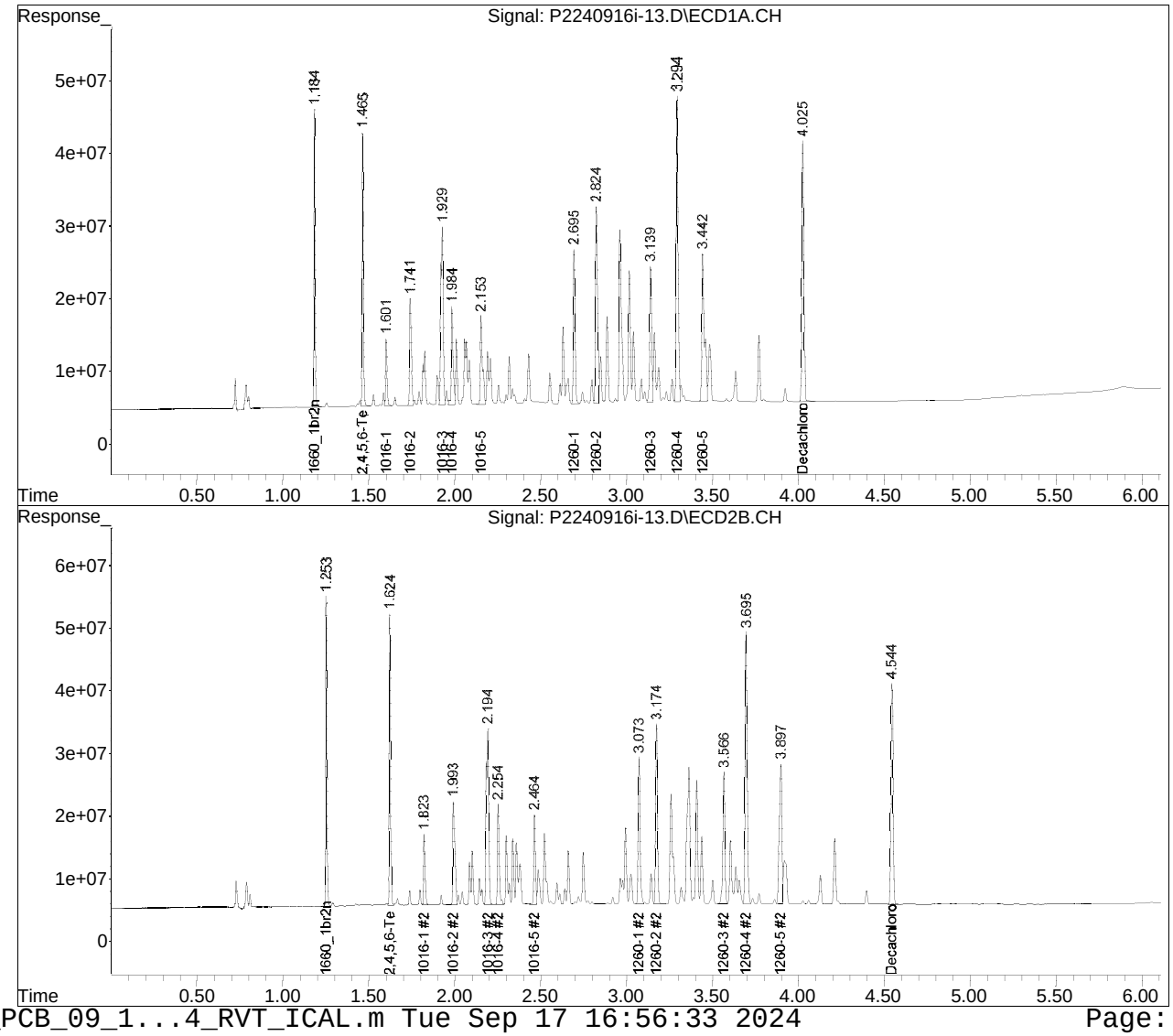
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-13.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:30 pm Instrument : Pest 2
Sample : il81660,42,,pp11790 250PPBQuant Date : 9/16/2024 4:56 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	206.3E6	240.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	394.6E6	479.5E6	33.136	29.939
Spiked Amount	500.000	Range 30 - 150		Recovery =		6.63%#	5.99%#
3) s	Decachlorobi	4.028	4.546	556.8E6	565.3E6	57.126	51.121
Spiked Amount	500.000	Range 30 - 150		Recovery =		11.43%#	10.22%#
	Target Compounds						
4) l1	1016-1	1.603	1.823	102.8E6	122.9E6	448.557	404.315
5) l1	1016-2	1.743	1.994	219.3E6	268.6E6	437.984	409.461
6) l1	1016-3	1.930	2.195	477.4E6	547.7E6	492.570	419.329
7) l1	1016-4	1.985	2.255	196.6E6	217.3E6	478.609	410.689
8) l1	1016-5	2.155	2.465	206.7E6	173.8E6	451.741	412.201
Sum	1016-1			1202.8E6	1330.4E6	2309.461	2055.995
Average	1016-1					461.892	411.199
9) l2	1260-1	2.696	3.074	290.4E6	332.2E6	464.353	402.053
10) l2	1260-2	2.826	3.176	442.3E6	394.0E6	466.004	404.192
11) l2	1260-3	3.141	3.567	279.4E6	325.4E6	491.884	409.295
12) l2	1260-4	3.297	3.696	615.3E6	665.2E6	494.292	432.005
13) l2	1260-5	3.444	3.898	426.7E6	461.7E6	476.947	418.995
Sum	1260-1			2054.1E6	2178.6E6	NoCal	NoCal D
Average	1260-1					478.696	413.308
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

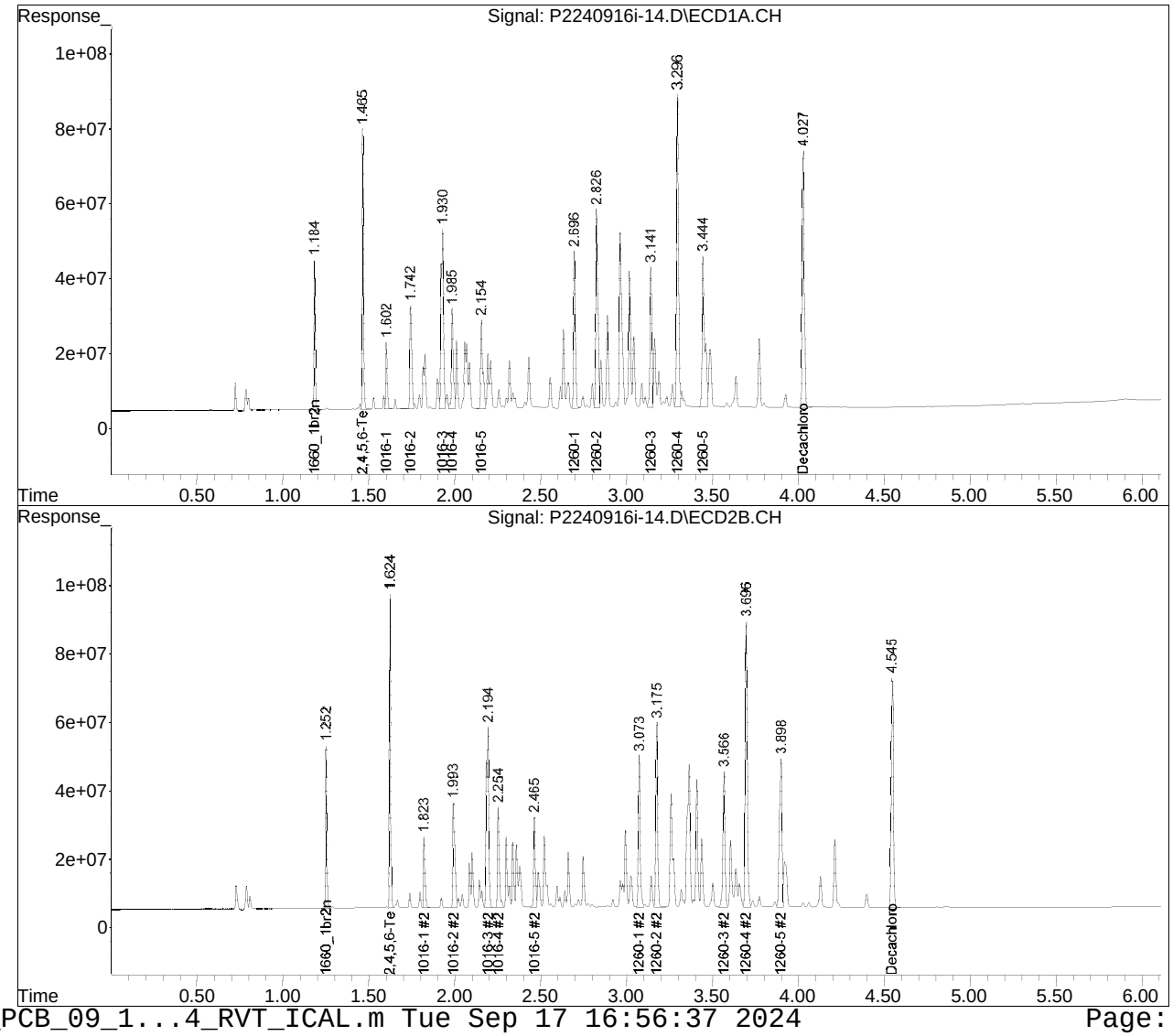
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-14.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 4:39 pm	Instrument	: Pest 2
Sample	: il91660,42,,pp11790 500PPB	Quant Date	: 9/16/2024 4:58 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	213.9E6	249.2E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	804.8E6	964.9E6	64.917	58.578
Spiked Amount	500.000	Range 30 - 150		Recovery =		12.98%#	11.72%#
3) s	Decachlorobi	4.027	4.545	1134.0E6	1148.2E6	113.551	102.519
Spiked Amount	500.000	Range 30 - 150		Recovery =		22.71%#	20.50%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	200.2E6	235.5E6	852.356	764.041
5) l1	1016-2	1.742	1.994	431.5E6	519.6E6	842.627M3	780.292
6) l1	1016-3	1.930	2.194	958.5E6	1090.3E6	955.450	820.441
7) l1	1016-4	1.984	2.254	392.5E6	428.8E6	925.916	797.902
8) l1	1016-5	2.154	2.465	410.0E6	345.4E6	873.459	806.498
Sum	1016-1			2392.8E6	2619.6E6	4449.807	3969.173
Average	1016-1					889.961	793.835
9) l2	1260-1	2.695	3.073	588.5E6	655.9E6	914.891	783.269
10) l2	1260-2	2.825	3.175	898.4E6	783.6E6	919.719	792.833
11) l2	1260-3	3.140	3.566	575.2E6	648.6E6	978.288	803.666
12) l2	1260-4	3.296	3.696	1278.5E6	1348.5E6	991.785	858.288
13) l2	1260-5	3.443	3.897	893.2E6	933.2E6	967.764M1	832.359
Sum	1260-1			4233.8E6	4369.8E6	NoCal	NoCal D
Average	1260-1					954.489	814.083
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

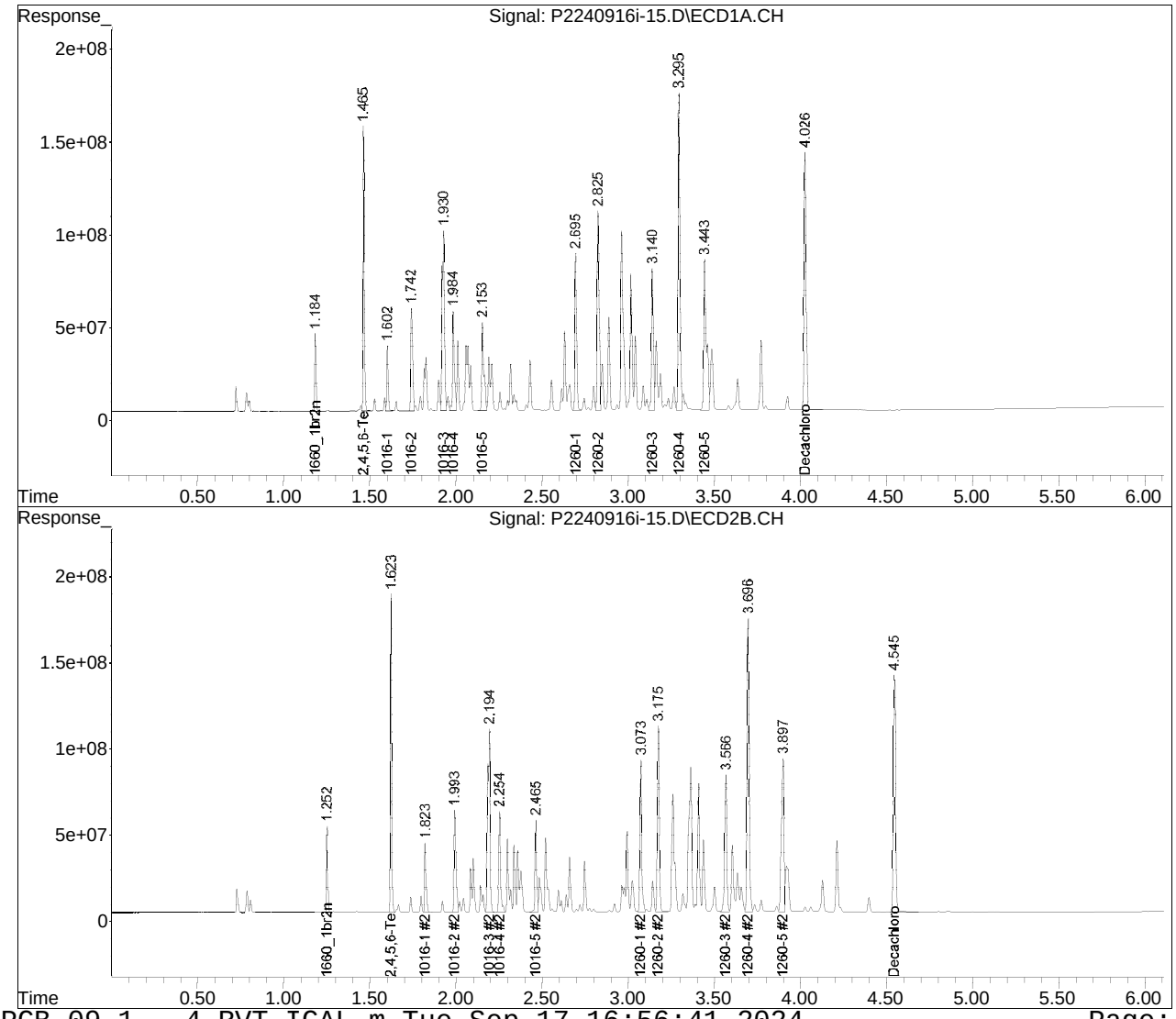
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

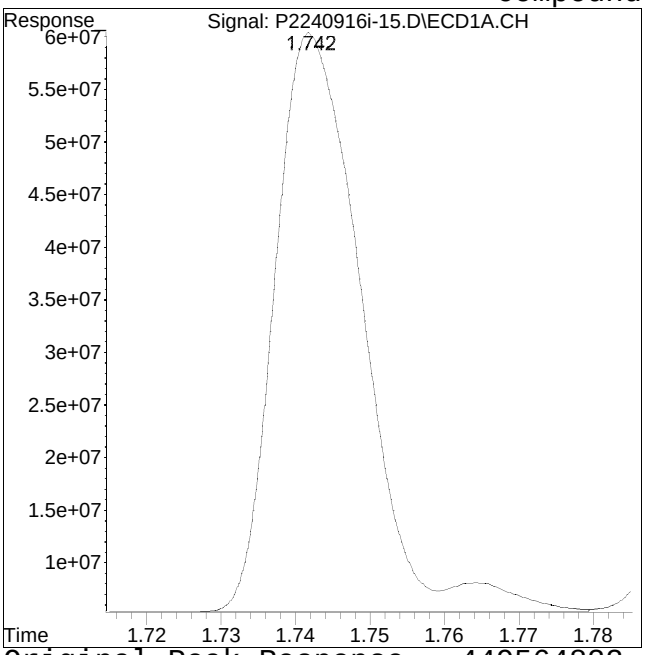
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

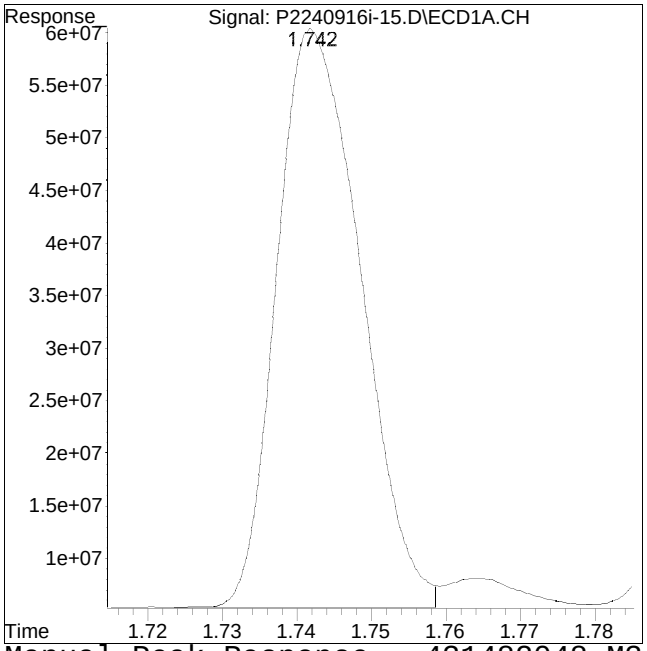


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-15.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:48 pm Instrument : Pest 2
Sample : il101660,42,,pp11790 1000PQuant Date : 9/16/2024 4:59 pm

Compound #5: 1016-2



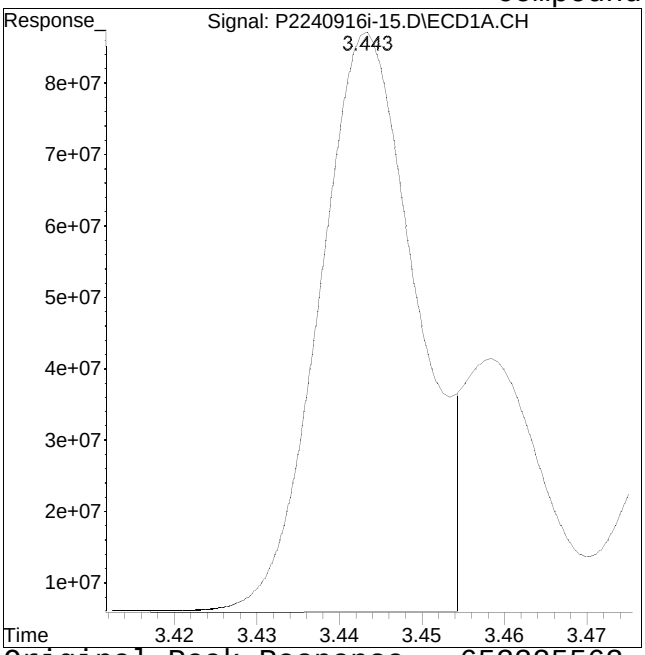


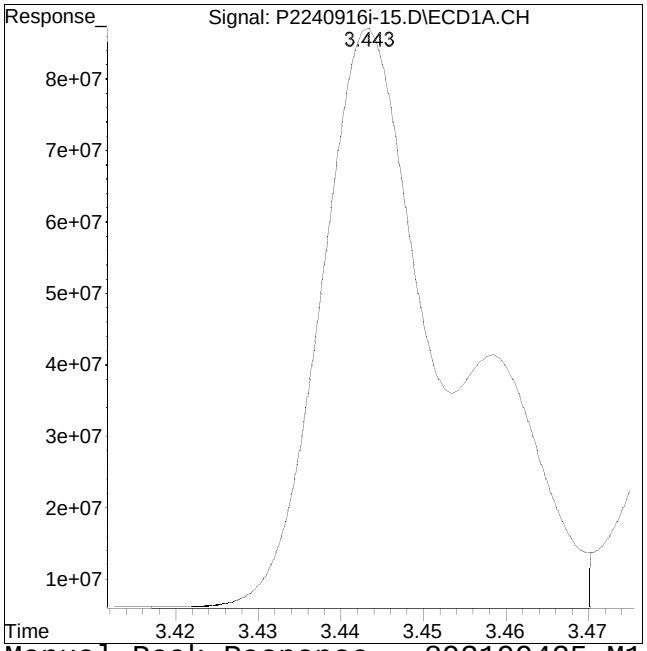
Original Peak Response = 449564822 Manual Peak Response = 431482048 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-15.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:48 pm Instrument : Pest 2
Sample : il101660,42,,pp11790 1000PQuant Date : 9/16/2024 4:59 pm

Compound #13: 1260-5





Original Peak Response = 653325563 Manual Peak Response = 893199425 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.427	1.7	96	0.00
3	s	Decachlorobiphenyl		1.154	1.071	7.2	98	0.00
4	l1	1016-1		0.027	0.024	11.1	94	0.00
5	l1	1016-2		0.059	0.057	3.4	103	0.00
6	l1	1016-3		0.117	0.120	-2.6	103	0.00
7	l1	1016-4		0.049	0.050	-2.0	102	0.00
8	l1	1016-5		0.054	0.050	7.4	97	0.00
9	l2	1260-1		0.075	0.075	0.0	105	0.00
10	l2	1260-2		0.113	0.118	-4.4	108	0.00
11	l2	1260-3		0.069	0.063	8.7	90	0.00
12	l2	1260-4		0.151	0.135	10.6	89	0.00
13	l2	1260-5		0.108	0.099	8.3	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.471	10.2	93	0.00
3	s	Decachlorobiphenyl		1.101	0.971	11.8	102	0.00
4	l1	1016-1		0.030	0.026	13.3	96	0.00
5	l1	1016-2		0.065	0.062	4.6	103	0.00
6	l1	1016-3		0.131	0.125	4.6	104	0.00
7	l1	1016-4		0.053	0.050	5.7	104	0.00
8	l1	1016-5		0.042	0.040	4.8	101	0.00
9	l2	1260-1		0.082	0.080	2.4	109	0.00
10	l2	1260-2		0.097	0.090	7.2	103	0.00
11	l2	1260-3		0.079	0.067	15.2	95	0.00
12	l2	1260-4		0.155	0.131	15.5	92	0.00
13	l2	1260-5		0.111	0.097	12.6	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
Evaluate Continuing Calibration Report - Not Founds								
14	i	2154_1br2nb	^	1.000	1.000	0.0	0	-1.18#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#
18	l4	1254-1		0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2		0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3		0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4		0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5		0.099	0.000	100.0#	0#	-2.96#
23	i	4268_1br2nb	^	1.000	1.000	0.0	0	-1.18#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1		0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2		0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3		0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4		0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5		0.467	0.000	100.0#	0#	-3.92#
34	i	1248_1br2nb	^	1.000	1.000	0.0	0	-1.18#
35	l7	1248-1		0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2		0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3		0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4		0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5		0.056	0.000	100.0#	0#	-2.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
40	i	3262_1br2nb	^	1.000	1.000	0.0	0	-1.19#
41	l5	1232-1		0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2		0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3		0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4		0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5		0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1		0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2		0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3		0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4		0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5		0.059	0.000	100.0#	0#	-3.77#

Signal #2

14	i	2154_1br2nb	^	1.000	1.000	0.0	0	-1.25#
15	l3	1221-1		0.017	0.000	100.0#	0#	-1.74#
16	l3	1221-2		0.011	0.000	100.0#	0#	-1.80#
17	l3	1221-3		0.040	0.000	100.0#	0#	-1.82#
18	l4	1254-1		0.062	0.000	100.0#	0#	-2.66#
19	l4	1254-2		0.073	0.000	100.0#	0#	-2.75#
20	l4	1254-3		0.109	0.000	100.0#	0#	-2.98#
21	l4	1254-4		0.073	0.000	100.0#	0#	-3.09#
22	l4	1254-5		0.101	0.000	100.0#	0#	-3.36#
23	i	4268_1br2nb	^	1.000	1.000	0.0	0	-1.25#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.82#
25	l6	1242-2		0.048	0.000	100.0#	0#	-1.99#
26	l6	1242-3		0.095	0.000	100.0#	0#	-2.19#
27	l6	1242-4		0.039	0.000	100.0#	0#	-2.25#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	l6	1242-5		0.031	0.000	100.0#	0#	-2.64#
29	l9	1268-1		0.190	0.000	100.0#	0#	-3.89#
30	l9	1268-2		0.169	0.000	100.0#	0#	-3.92#
31	l9	1268-3		0.141	0.000	100.0#	0#	-4.06#
32	l9	1268-4		0.062	0.000	100.0#	0#	-4.21#
33	l9	1268-5		0.399	0.000	100.0#	0#	-4.40#
34	i	1248_1br2nb	^	1.000	1.000	0.0	0	-1.25#
35	l7	1248-1		0.062	0.000	100.0#	0#	-2.19#
36	l7	1248-2		0.043	0.000	100.0#	0#	-2.34#
37	l7	1248-3		0.053	0.000	100.0#	0#	-2.47#
38	l7	1248-4		0.060	0.000	100.0#	0#	-2.64#
39	l7	1248-5		0.067	0.000	100.0#	0#	-2.66#
40	i	3262_1br2nb	^	1.000	1.000	0.0	0	-1.25#
41	l5	1232-1		0.030	0.000	100.0#	0#	-1.82#
42	l5	1232-2		0.031	0.000	100.0#	0#	-1.99#
43	l5	1232-3		0.060	0.000	100.0#	0#	-2.20#
44	l5	1232-4		0.024	0.000	100.0#	0#	-2.26#
45	l5	1232-5		0.018	0.000	100.0#	0#	-2.64#
46	l8	1262-1		0.073	0.000	100.0#	0#	-3.18#
47	l8	1262-2		0.101	0.000	100.0#	0#	-3.41#
48	l8	1262-3		0.091	0.000	100.0#	0#	-3.57#
49	l8	1262-4		0.174	0.000	100.0#	0#	-3.70#
50	l8	1262-5		0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	207.5E6	241.8E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	189.5E6	227.7E6	15.734	14.369
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.15%#	2.87%#
3) s	Decachlorobi	4.026	4.546	284.6E6	300.6E6	29.709	28.227
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.94%#	5.65%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	50606294	63958975	225.388	219.107
5) l1	1016-2	1.742	1.994	118.2E6	150.6E6	241.846	238.413
6) l1	1016-3	1.930	2.195	249.4E6	302.5E6	257.436	238.973
7) l1	1016-4	1.985	2.254	103.5E6	121.2E6	253.545	237.312M3
8) l1	1016-5	2.154	2.465	104.7E6	96973955	232.767	238.013
	Sum 1016-1			626.4E6	735.3E6	1210.982	1171.817
Average	1016-1					242.196	234.363
9) l2	1260-1	2.695	3.073	155.4E6	194.0E6	251.189	244.146
10) l2	1260-2	2.825	3.175	244.6E6	217.1E6	260.221	231.239
11) l2	1260-3	3.140	3.566	130.0E6	163.2E6	228.428	212.615
12) l2	1260-4	3.295	3.696	280.0E6	317.0E6	224.090	210.968
13) l2	1260-5	3.443	3.898	204.9E6	234.4E6	229.547	219.185
	Sum 1260-1			1014.9E6	1125.7E6	NoCal	NoCal D
Average	1260-1					238.695	223.631
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

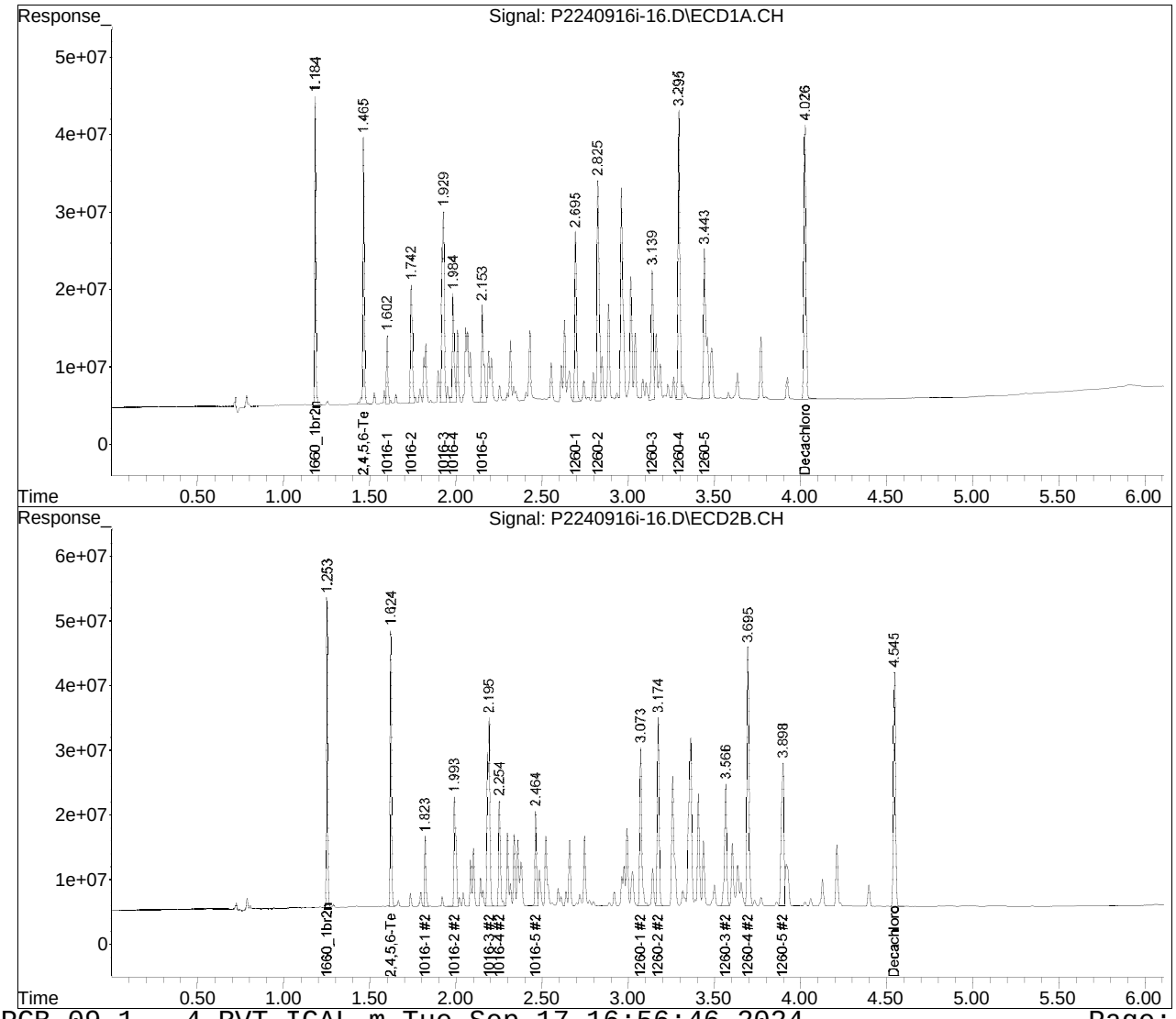
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

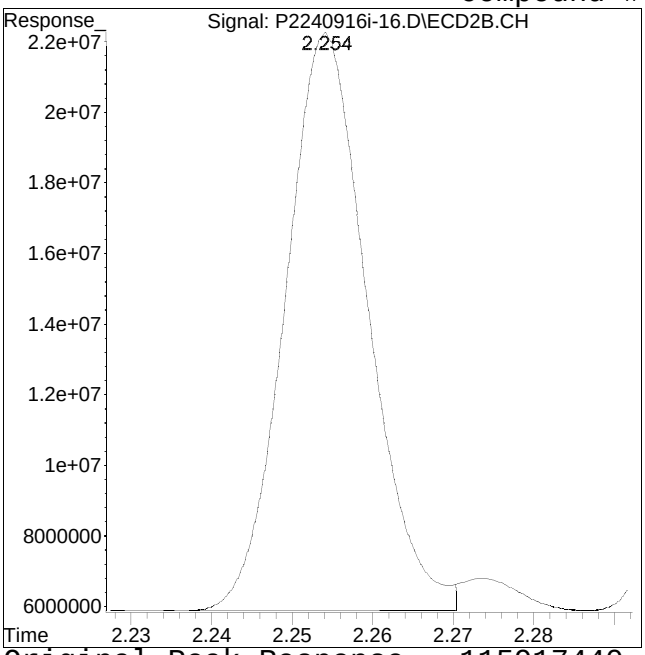
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

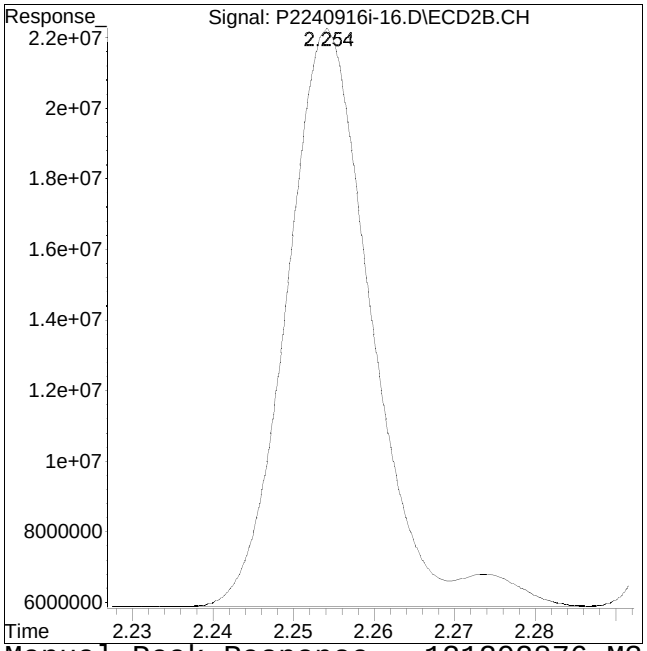


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-16.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:56 pm Instrument : Pest 2
Sample : cicv1660,42,, ICV 250 pp11Quant Date : 9/16/2024 5:05 pm

Compound #58: 1016-4 #2





Original Peak Response = 115917440 Manual Peak Response = 121202876 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.185	1.253	215.5E6	246.9E6	25.000	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-1	1.528	1.738	32214968	43006075	250.084	214.878
16) l3	1221-2	1.586	1.798	19872002	27225760	236.799	241.463

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.603	1.824	79473918	98685926	232.143	231.833
Sum	1221-1			131.6E6	168.9E6	719.026	688.175
Average	1221-1					239.675	229.392
18) l4	1254-1	2.318	2.662	113.1E6	153.6E6	251.864	235.750
19) l4	1254-2	2.430	2.749	201.2E6	180.1E6	266.589	243.450
20) l4	1254-3	2.613	2.978	218.2E6	267.9E6	240.465	225.681
21) l4	1254-4	2.743	3.089	153.9E6	179.0E6	240.276	215.193
22) l4	1254-5	2.964	3.364	212.7E6	248.8E6	235.784	244.611
Sum	1254-1			899.2E6	1029.3E6	NoCal	NoCal D
Average	1254-1					246.995	232.937
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

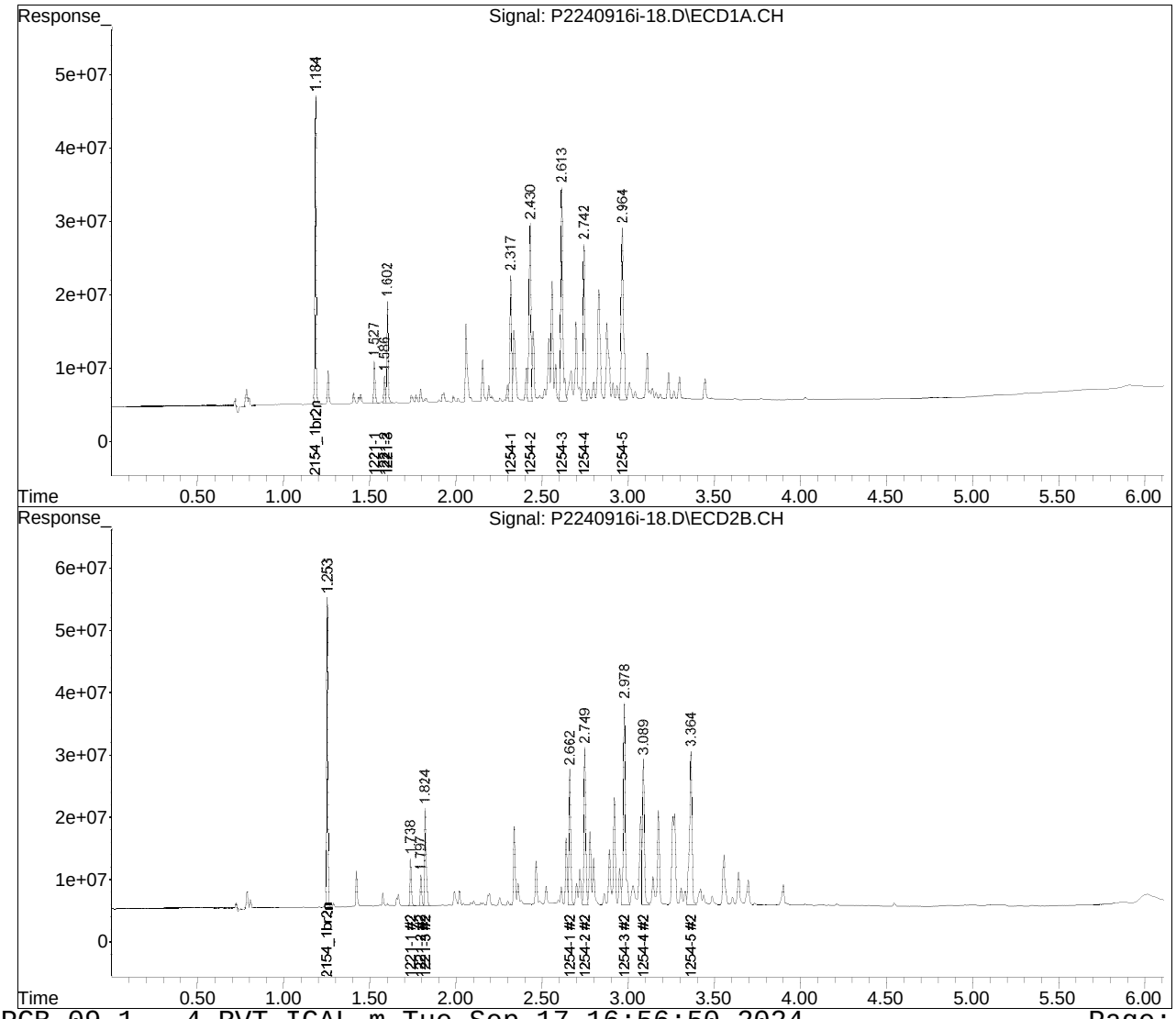
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

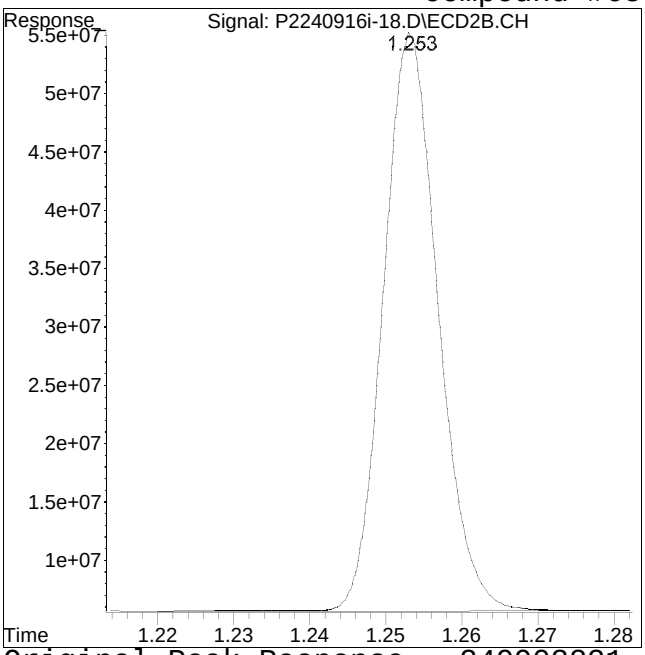
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

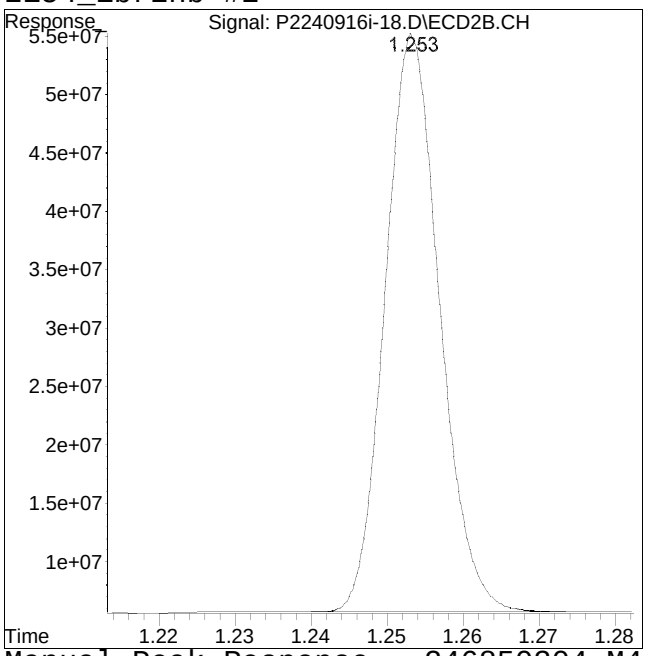


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-18.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:14 pm Instrument : Pest 2
Sample : il82154,42,, 250 pp11766 Quant Date : 9/17/2024 10:46 am

Compound #65: 2154_1br2nb #2





Original Peak Response = 249903221 Manual Peak Response = 246850304 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.185	1.253	207.0E6	246.7E6	25.000	25.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.927	2.186	124.4E6	154.0E6	244.542	251.173
36) l7	1248-2	2.059	2.339	162.4E6	105.4E6	252.084M3	255.629
37) l7	1248-3	2.155	2.465	145.3E6	130.2E6	251.859	241.978
38) l7	1248-4	2.336	2.640	123.3E6	146.9E6	243.705M3	248.148

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.349	2.664	114.9E6	164.9E6	243.648M3	248.334
Sum	1248-1			670.3E6	701.4E6	NoCal	NoCal D
Average	1248-1					247.167	249.052
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

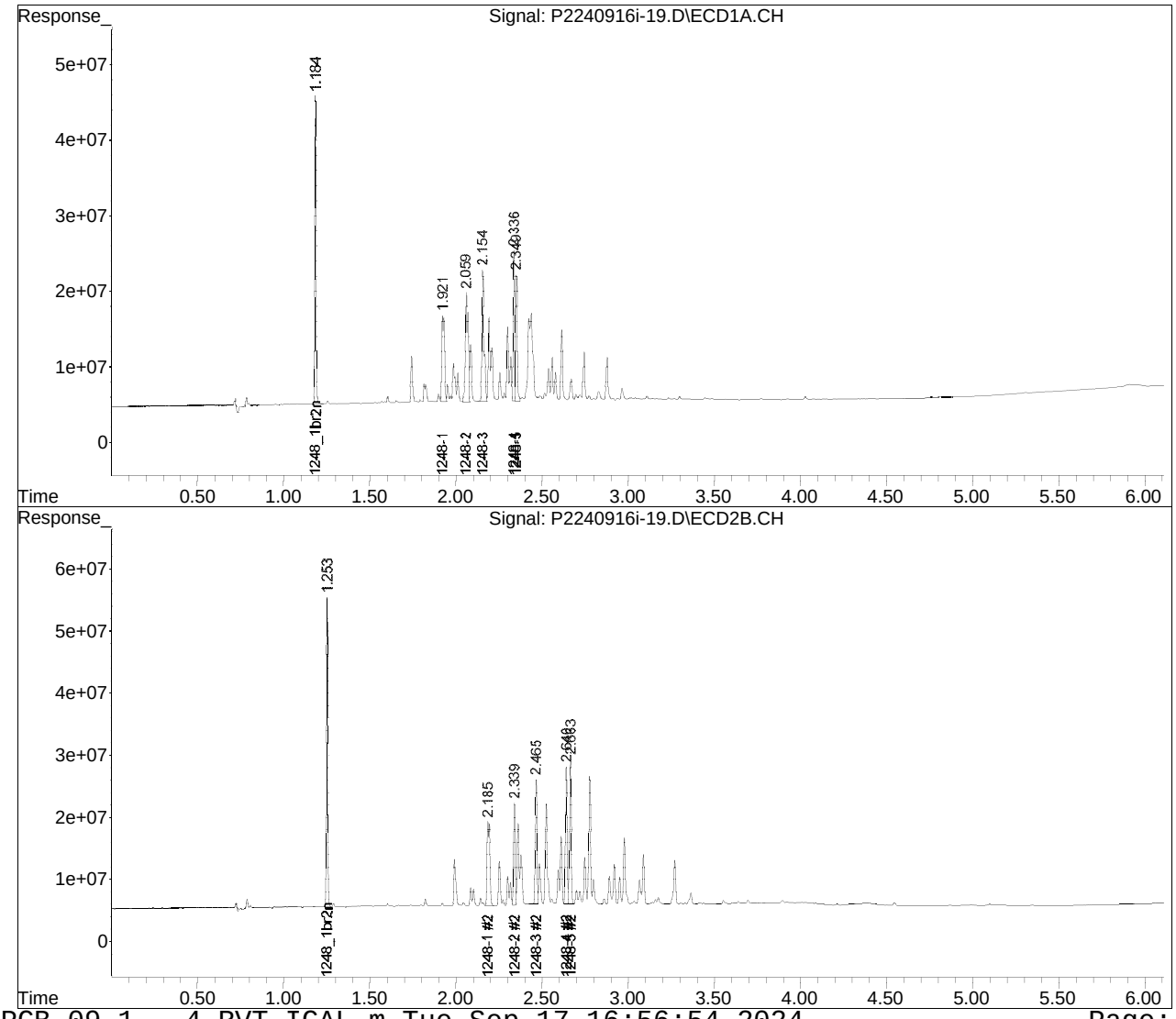
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

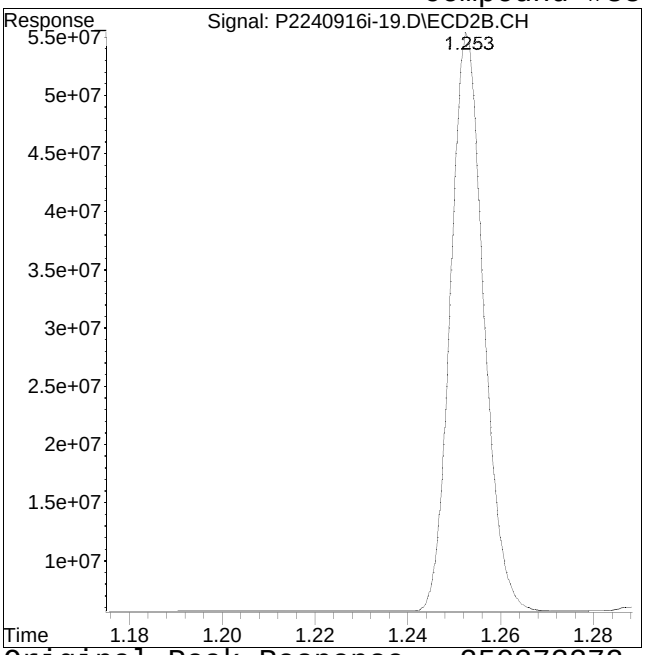
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

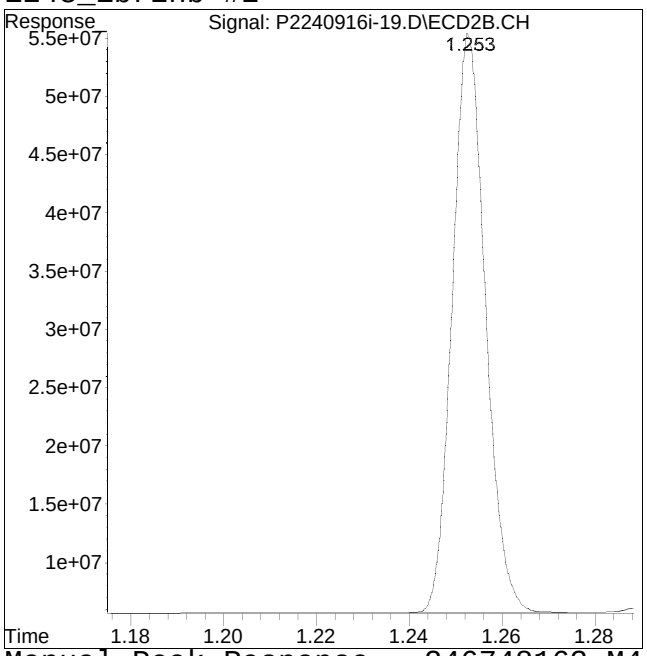


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #85: 1248_1br2nb #2



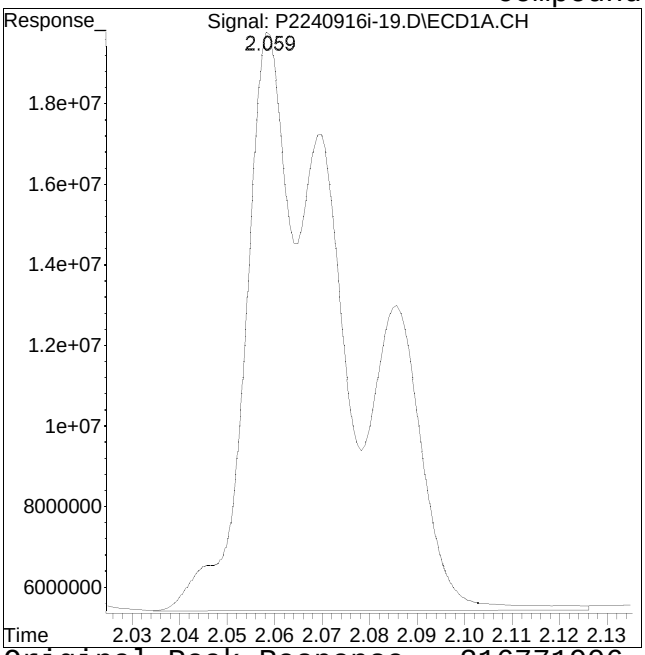


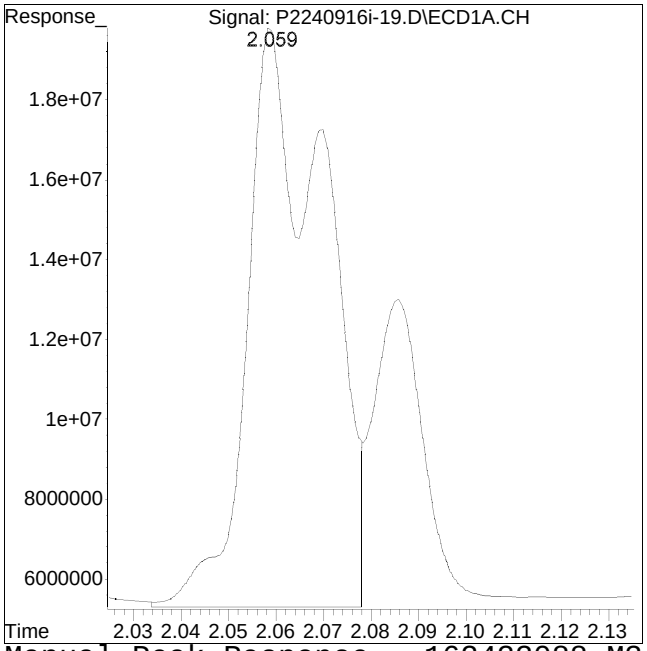
Original Peak Response = 250373372 Manual Peak Response = 246748163 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #36: 1248-2



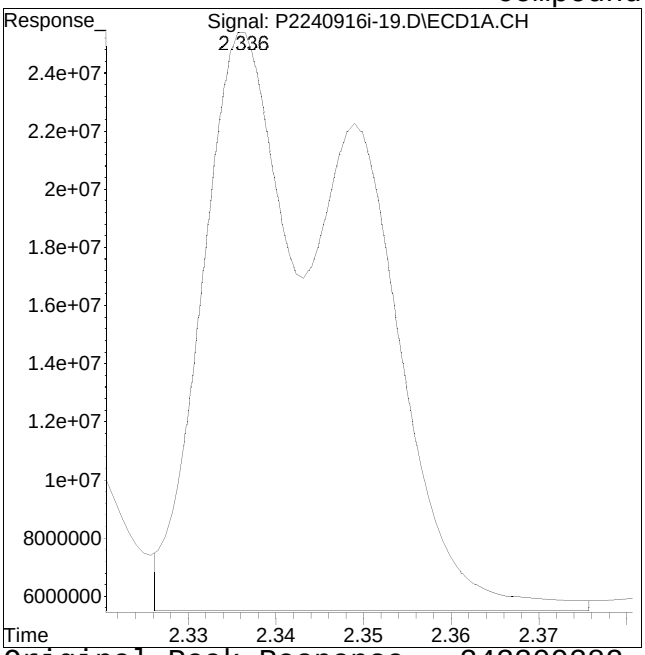


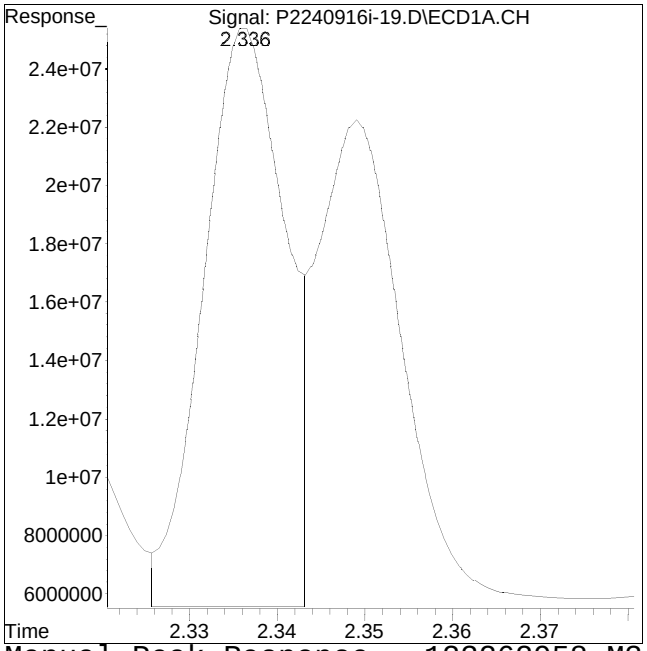
Original Peak Response = 216771906 Manual Peak Response = 162433088 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #38: 1248-4



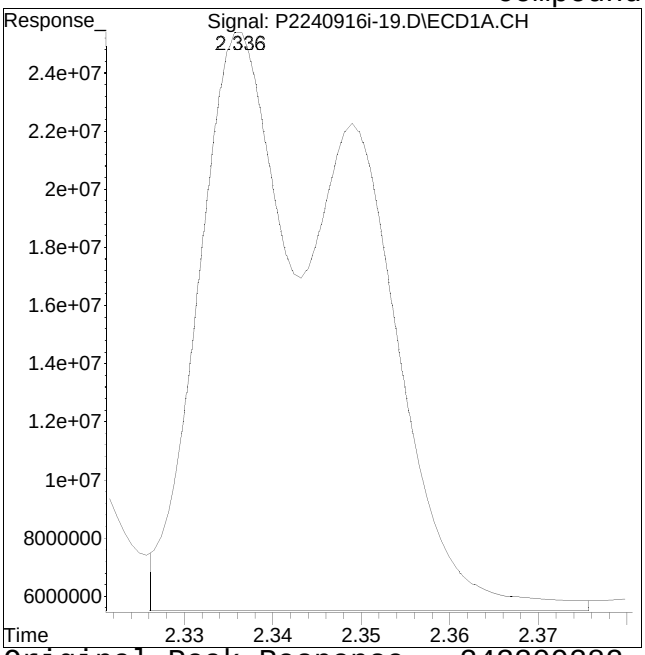


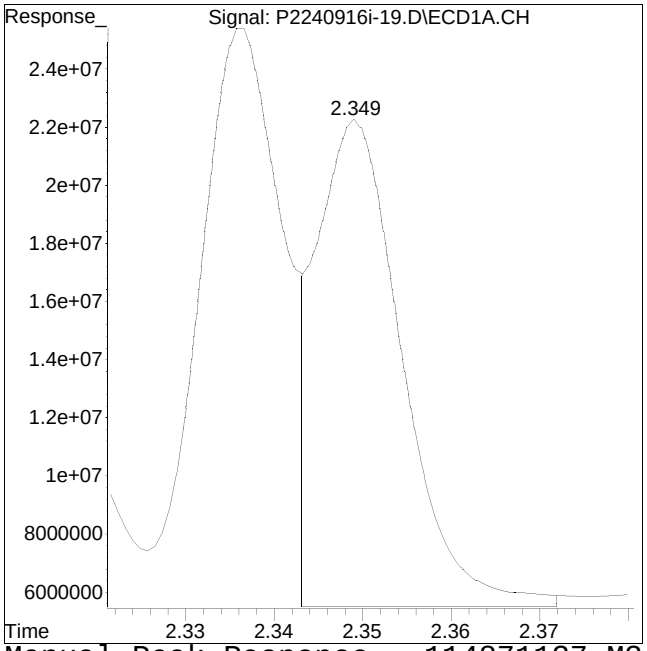
Original Peak Response = 243309382 Manual Peak Response = 123262958 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #39: 1248-5





Original Peak Response = 243309382 Manual Peak Response = 114871137 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.185	1.254	209.0E6	243.5E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.603	1.824	60291065	72344592	250.000	250.000
42) l5	1232-2	1.743	1.994	55810869	76163797	225.715	247.951
43) l5	1232-3	1.931	2.195	115.7E6	145.2E6	242.627	240.522
44) l5	1232-4	1.986	2.255	47966543	58938339	223.978	236.986
45) l5	1232-5	2.337	2.640	34955113	43285797	250.000	250.000
Sum	1232-1			314.7E6	395.9E6	1192.320	1225.460
Average	1232-1					238.464	245.092
46) l8	1262-1	2.826	3.175	173.5E6	177.8E6	250.000	250.000
47) l8	1262-2	3.017	3.409	218.9E6	245.2E6	250.000	250.000
48) l8	1262-3	3.141	3.567	190.3E6	221.6E6	250.000	250.000
49) l8	1262-4	3.296	3.696	386.4E6	424.3E6	250.000	250.000
50) l8	1262-5	3.770	4.212	123.6E6	150.7E6	250.000	250.000
Sum	1262-1			1092.7E6	1219.6E6	1250.000	1250.000
Average	1262-1					250.000	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1092.7E6	1219.6E6	1250.000	1250.000
Average	1262-1					250.000	250.000

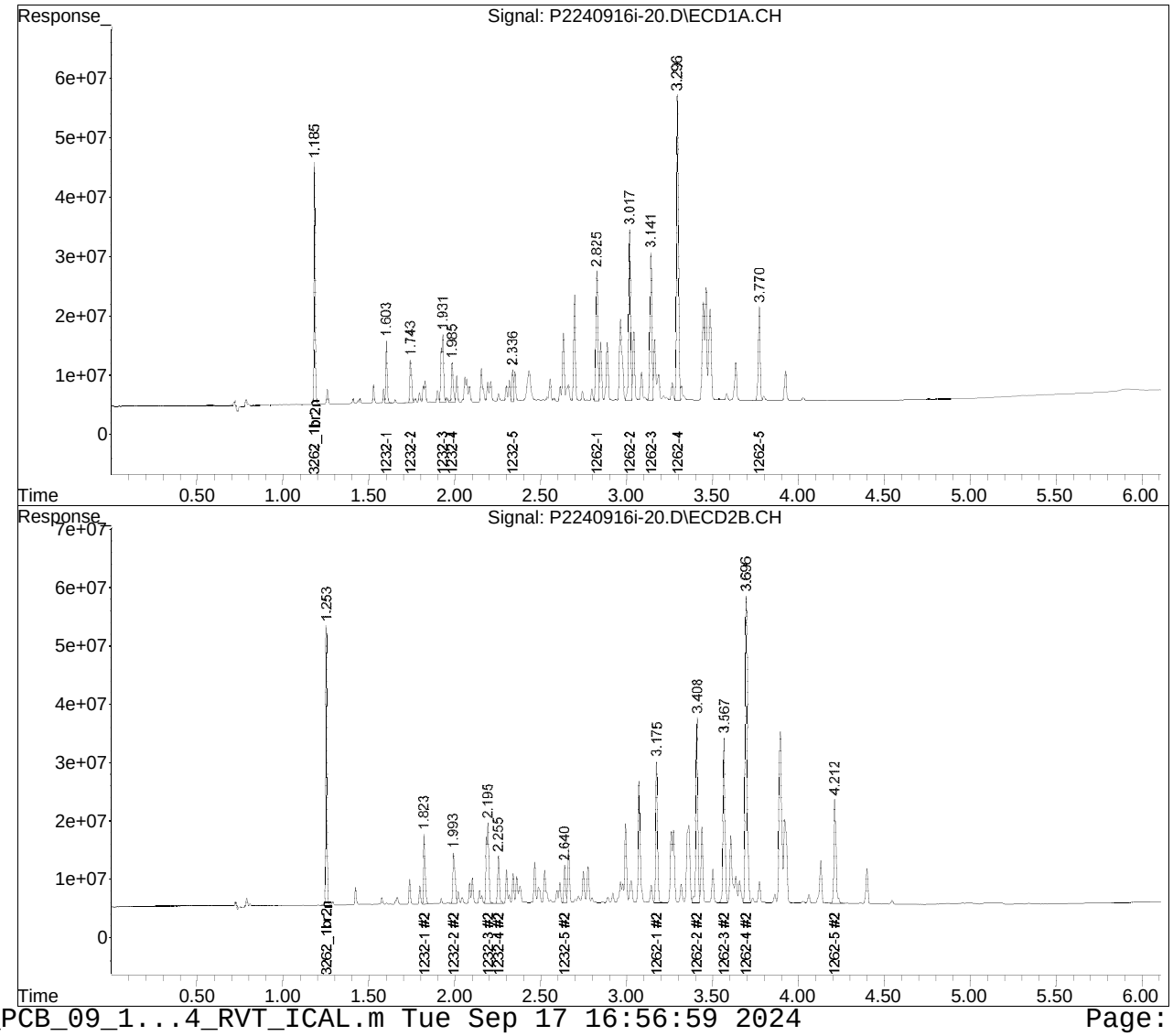
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-20.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 5:32 pm	Instrument	: Pest 2
Sample	: il83262,42,, 250 pp11768	Quant Date	: 9/17/2024 11:02 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.185	1.254	203.5E6	250.0E6	25.000	25.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Sum	1221-1			0	0	N.D.	N.D.	
Average	1221-1					0.000	0.000	
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d	
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d	
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d	
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d	
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1254-1			0	0	N.D.	N.D.	
Average	1254-1					0.000	0.000	
24) l6	1242-1	1.603	1.824	42935320	52847778	191.580	237.473	
25) l6	1242-2	1.743	1.994	93917968	119.7E6	220.107	235.971	
26) l6	1242-3	1.930	2.195	195.1E6	237.8E6	242.153	242.904	
27) l6	1242-4	1.985	2.255	82159676	96723683	233.398	243.823	
28) l6	1242-5	2.336	2.640	65305903	78224584	301.933	224.393	
Sum	1242-1			479.4E6	585.3E6	1189.172	1184.563	
Average	1242-1					237.834	236.913	
29) l9	1268-1	3.459	3.892	424.3E6	475.8E6	247.758	243.028	
30) l9	1268-2	3.480	3.918	384.0E6	423.1E6	224.334	237.127	
31) l9	1268-3	3.582	4.060	312.6E6	351.7E6	238.816	237.498	
32) l9	1268-4	3.769	4.212	136.6E6	154.0E6	263.636	222.601	
33) l9	1268-5	3.923	4.397	950.3E6	998.3E6	238.312	239.513	
Sum	1268-1			2207.8E6	2402.8E6	N.D.	N.D.	D
Average	1268-1					242.571	235.953	
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d	
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d	
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d	
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d	
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1248-1			0	0	N.D.	N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

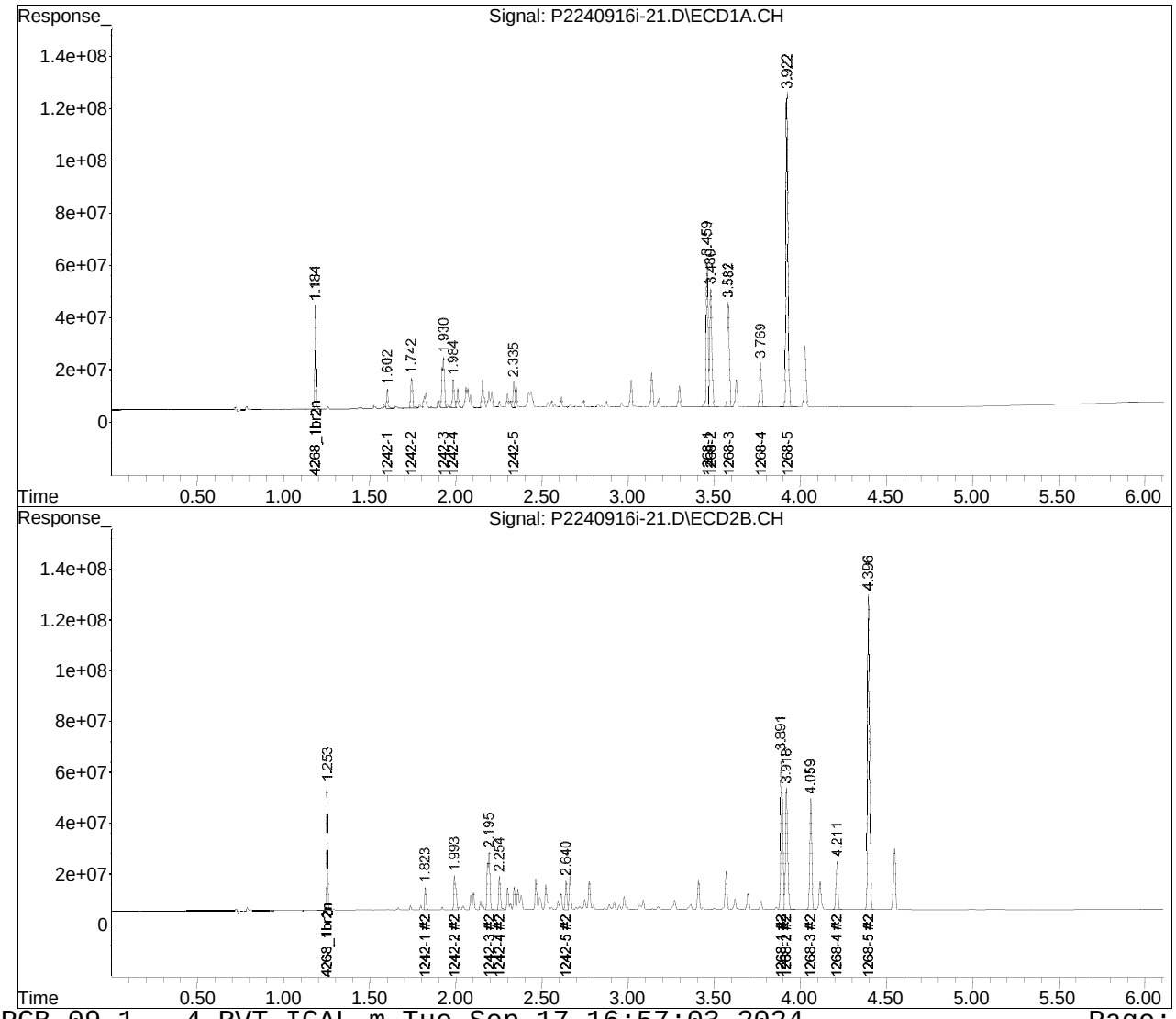
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-21.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 5:41 pm	Instrument	: Pest 2
Sample	: il84268,42,, 250 pp11769	Quant Date	: 9/17/2024 11:01 am

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

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.393	4.0	94	0.00
3	s	Decachlorobiphenyl		1.154	1.066	7.6	99	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	97	0.00
15	l3	1221-1		0.015	0.014	6.7	93	0.00
16	l3	1221-2		0.00922	0.00853	7.5	90	0.00
17	l3	1221-3		0.037	0.035	5.4	92	0.00
18	l4	1254-1		0.052	0.052	0.0	96	0.00
19	l4	1254-2		0.093	0.096	-3.2	100	0.00
20	l4	1254-3		0.101	0.102	-1.0	98	0.00
21	l4	1254-4		0.071	0.071	0.0	97	0.00
22	l4	1254-5		0.099	0.092	7.1	91	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.457	11.1	94	0.00
3	s	Decachlorobiphenyl		1.101	0.945	14.2	101	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	100	0.00
15	l3	1221-1		0.017	0.016	5.9	92	0.00
16	l3	1221-2		0.011	0.010	9.1	94	0.00
17	l3	1221-3		0.040	0.037	7.5	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.062	0.061	1.6	97	0.00
19	l4	1254-2		0.073	0.068	6.8	94	0.00
20	l4	1254-3		0.109	0.104	4.6	96	0.00
21	l4	1254-4		0.073	0.070	4.1	96	0.00
22	l4	1254-5		0.101	0.090	10.9	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	101	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1		0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2		0.189	0.000	100.0#	0#	-3.48#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31 l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32 l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33 l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35 l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36 l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37 l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39 l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41 l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42 l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43 l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44 l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45 l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46 l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47 l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49 l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50 l8	1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4 l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5 l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6 l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7 l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8 l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9 l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10 l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11 l2	1260-3	0.079	0.000	100.0#	0#	-3.57#
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	186.5E6	230.1E6	15.364	14.228
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.07%#	2.85%#
3) s	Decachlorobi	4.027	4.545	285.5E6	298.7E6	29.570	27.477
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.91%#	5.50%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-1	1.527	1.738	29919584	39651692	239.214	230.534
16) l3	1221-2	1.586	1.797	17855926	25596338	231.435	235.072M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.602	1.823	73306971	91388301	237.579M3	231.547M3
Sum	1221-1			121.1E6	156.6E6	708.228	697.154
Average	1221-1					236.076	232.385
18) l4	1254-1	2.318	2.662	108.9E6	149.4E6	247.864	243.242
19) l4	1254-2	2.430	2.749	200.3E6	169.0E6	256.414	234.706
20) l4	1254-3	2.613	2.978	213.8E6	256.9E6	252.422	239.769
21) l4	1254-4	2.742	3.089	149.0E6	172.1E6	249.375	240.436
22) l4	1254-5	2.964	3.364	192.7E6	222.6E6	233.391	223.792
Sum	1254-1			864.8E6	970.1E6	1239.466	1181.946
Average	1254-1					247.893	236.389
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

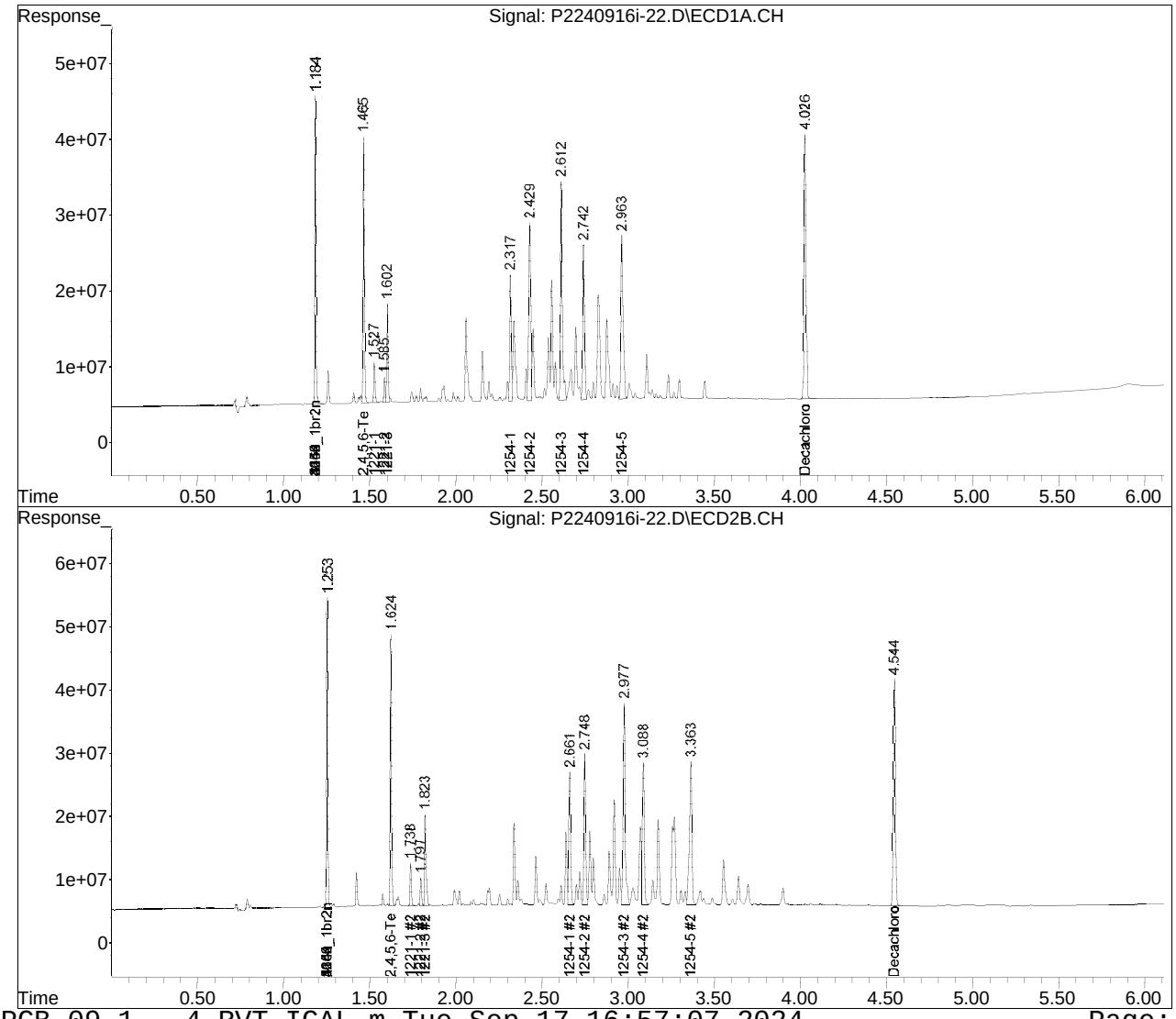
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

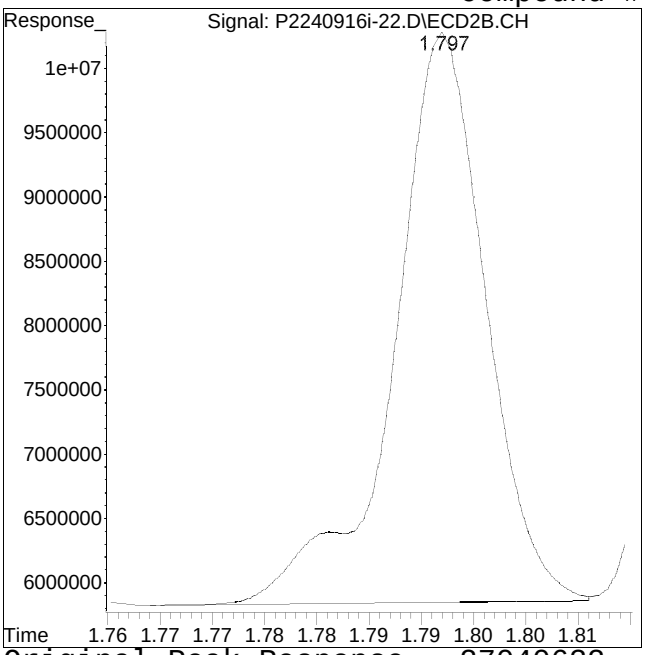
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

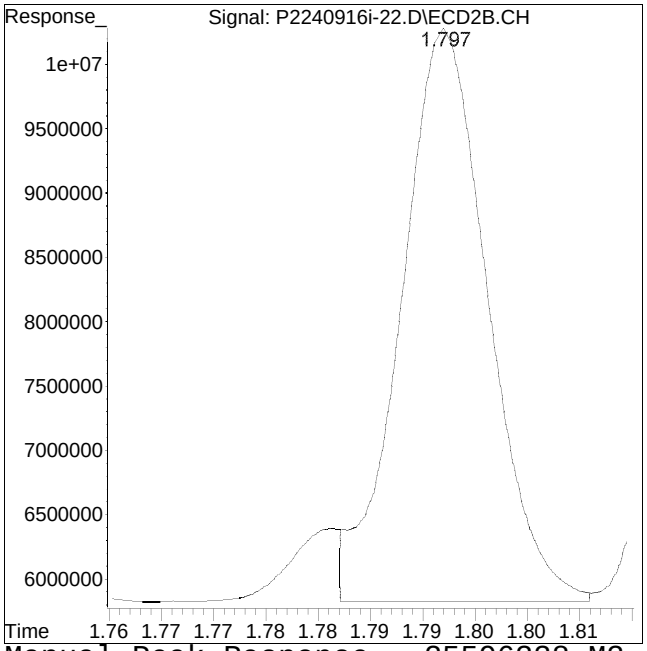


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #67: 1221-2 #2



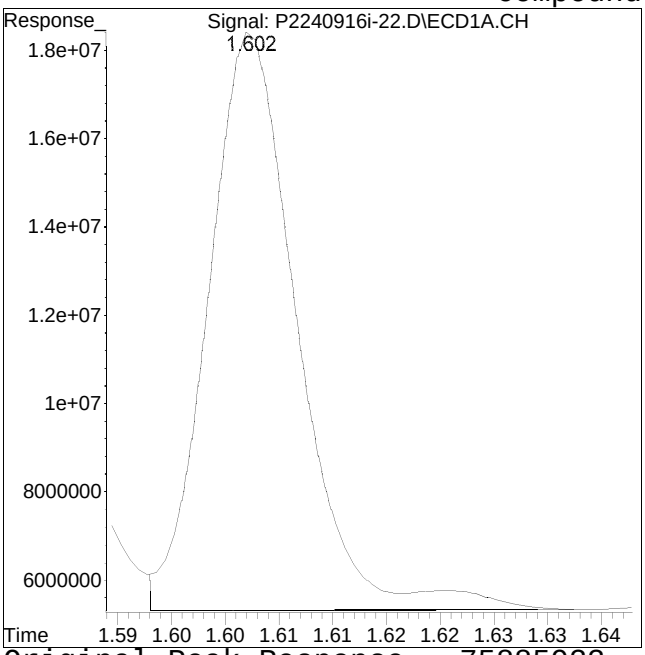


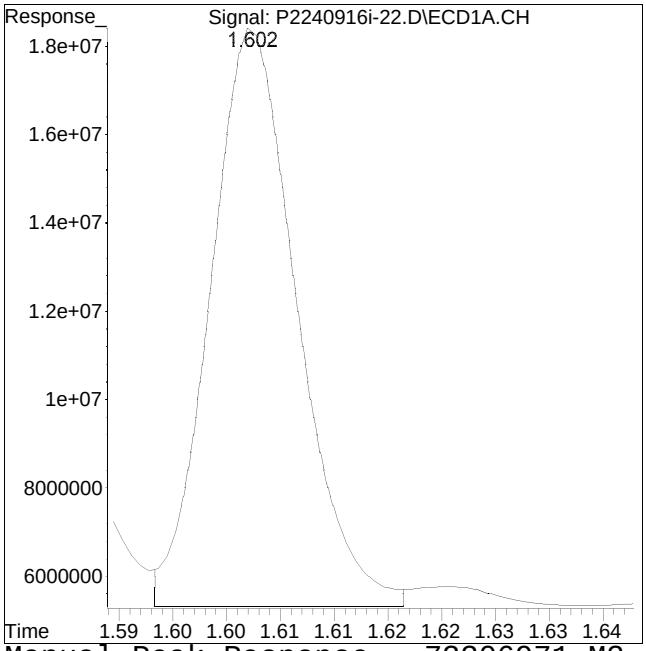
Original Peak Response = 27040632 Manual Peak Response = 25596338 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #17: 1221-3



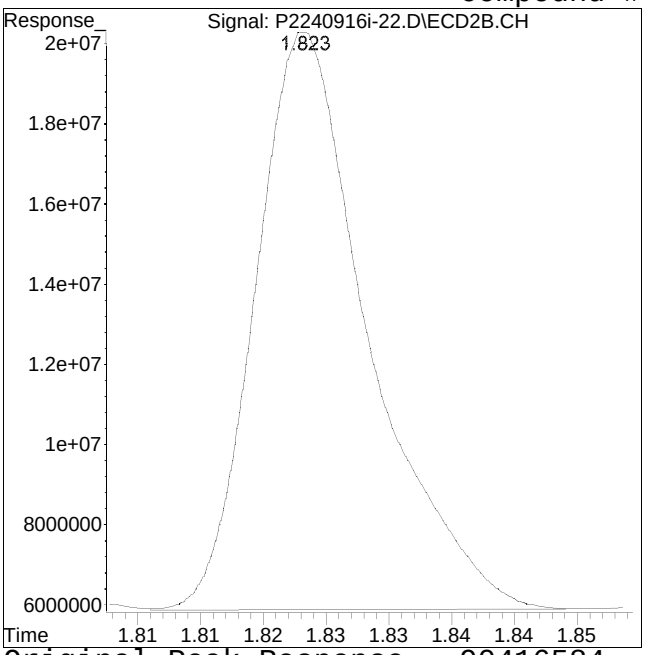


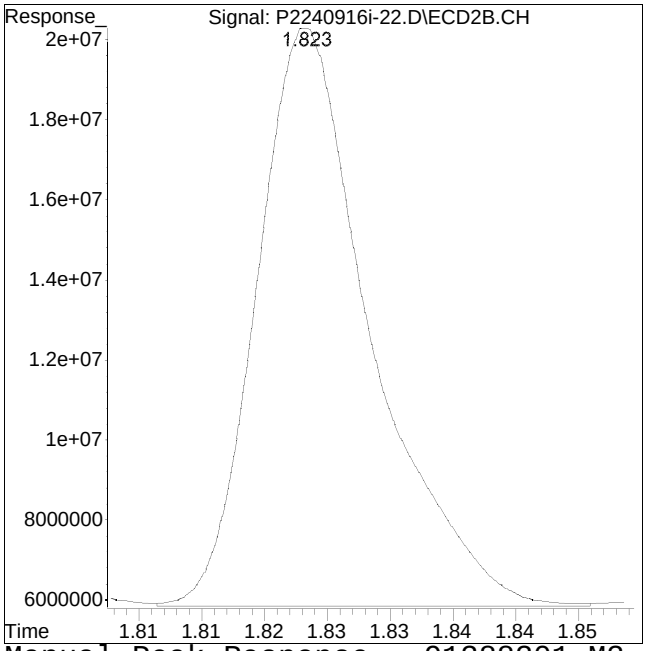
Original Peak Response = 75885933 Manual Peak Response = 73306971 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #68: 1221-3 #2





Original Peak Response = 90416584 Manual Peak Response = 91388301 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.663	-14.6	108	0.00
3	s	Decachlorobiphenyl		1.154	1.221	-5.8	108	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	93	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
35	l7	1248-1		0.060	0.070	-16.7	113	0.00
36	l7	1248-2		0.078	0.077	1.3	95	0.00
37	l7	1248-3		0.070	0.069	1.4	95	0.00
38	l7	1248-4		0.060	0.062	-3.3	100	0.00
39	l7	1248-5		0.056	0.061	-8.9	106	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	96	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.691	-3.2	108	0.00
3	s	Decachlorobiphenyl		1.101	1.088	1.2	114	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	98	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	97	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	98	0.00
35	l7	1248-1		0.062	0.074	-19.4	116	0.00
36	l7	1248-2		0.043	0.041	4.7	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.053	0.051	3.8	96	0.00
38	l7	1248-4		0.060	0.059	1.7	98	0.00
39	l7	1248-5		0.067	0.069	-3.0	102	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#
18	l4	1254-1		0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2		0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3		0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4		0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5		0.099	0.000	100.0#	0#	-2.96#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9 1268-1	0.209	0.000	100.0#	0#	-3.46#
30	l9 1268-2	0.189	0.000	100.0#	0#	-3.48#
31	l9 1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9 1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9 1268-5	0.467	0.000	100.0#	0#	-3.92#
41	l5 1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5 1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5 1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5 1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5 1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8 1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8 1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8 1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8 1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8 1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1 1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1 1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1 1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1 1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1 1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2 1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2 1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2 1260-3	0.079	0.000	100.0#	0#	-3.57#
12	l2 1260-4	0.155	0.000	100.0#	0#	-3.70#
13	l2 1260-5	0.111	0.000	100.0#	0#	-3.90#
15	l3 1221-1	0.017	0.000	100.0#	0#	-1.74#
16	l3 1221-2	0.011	0.000	100.0#	0#	-1.80#
17	l3 1221-3	0.040	0.000	100.0#	0#	-1.82#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	213.5E6	262.9E6	18.345	16.519
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.67%#	3.30%#
3) s	Decachlorobi	4.026	4.544	313.3E6	338.1E6	33.848	31.607
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.77%#	6.32%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.930	2.194	140.9E6	179.3E6	292.359	295.742
36) l7	1248-2	2.057	2.339	154.8E6	99401870	245.867M1	239.644
37) l7	1248-3	2.153	2.465	137.7E6	125.0E6	244.604	243.815
38) l7	1248-4	2.335	2.640	123.8E6	144.3E6	259.212	249.605
39) l7	1248-5	2.348	2.663	121.4E6	167.8E6	272.812	258.383

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			678.7E6	715.8E6	1314.855	1287.190
Average	1248-1					262.971	257.438
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

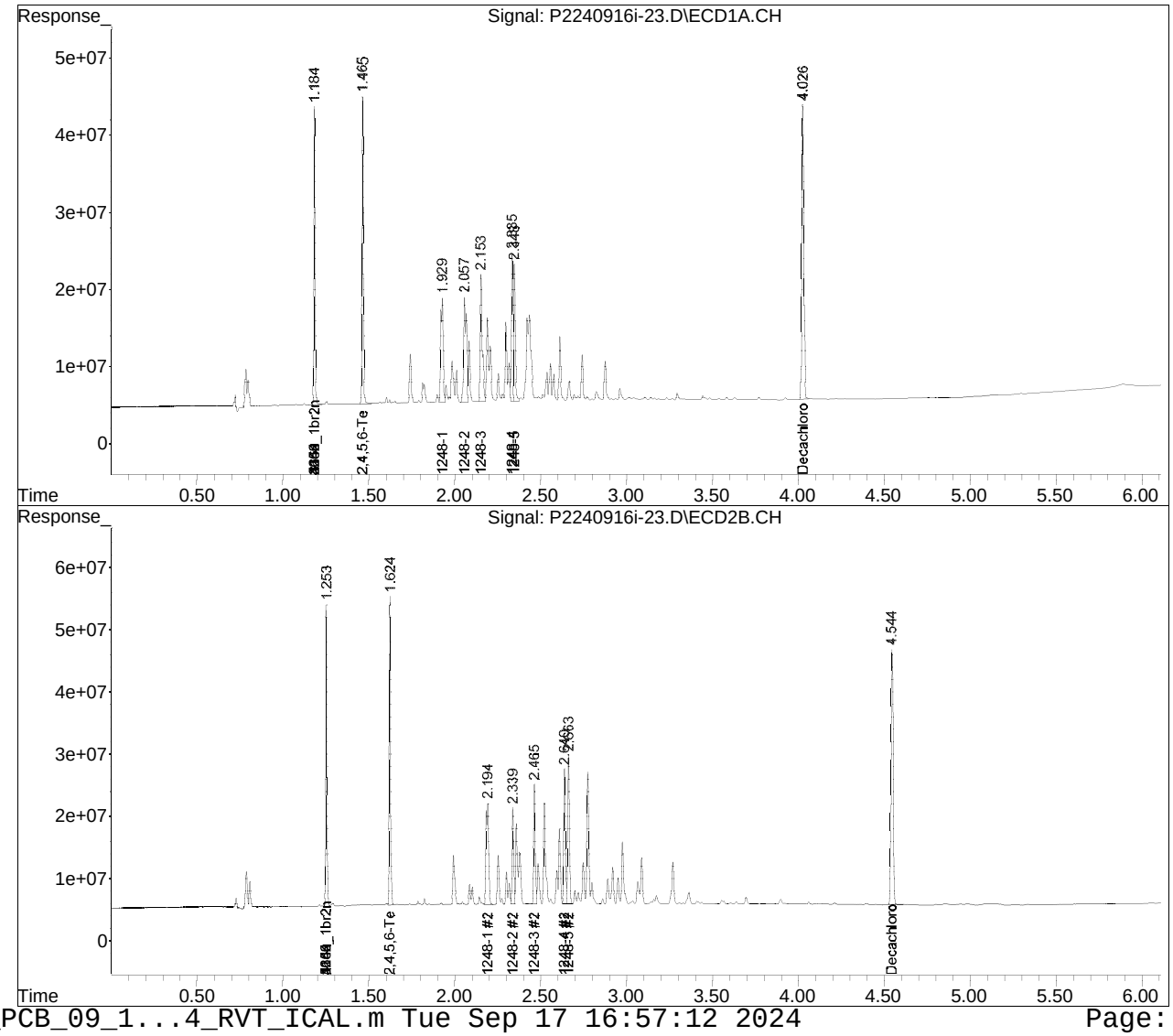
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

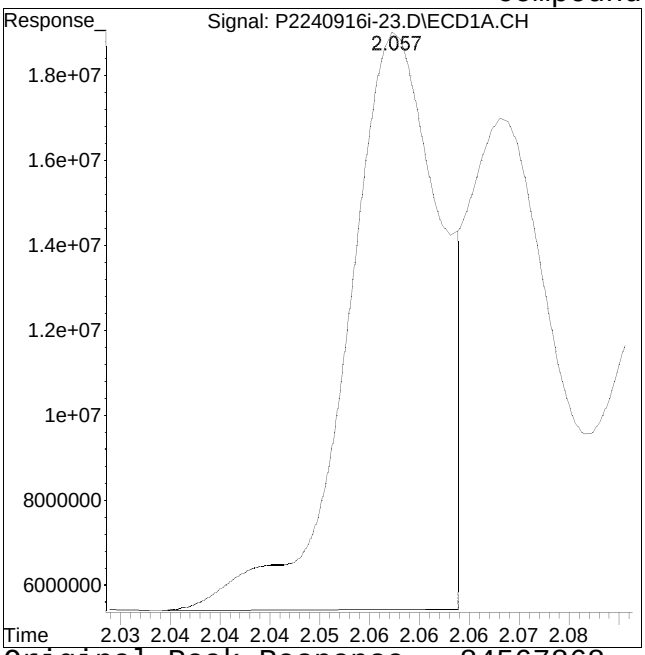
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



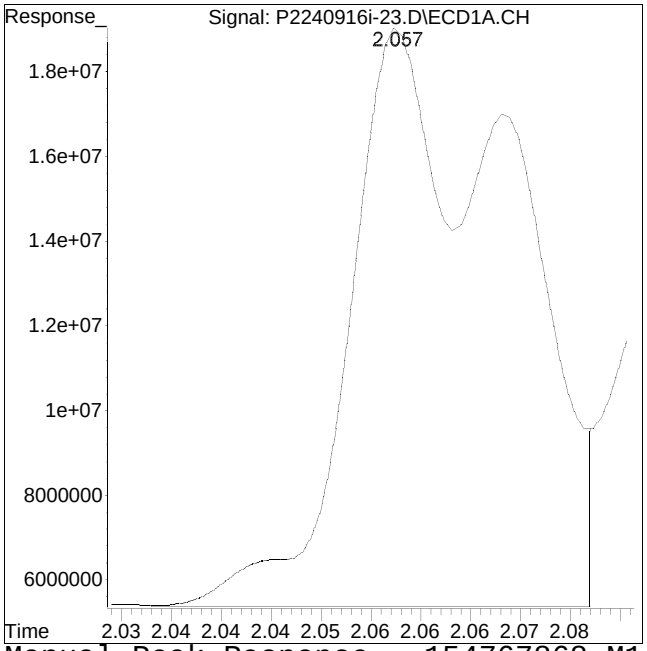
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-23.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:58 pm Instrument : Pest 2
Sample : cicv1248,42,, 250 pp11771 Quant Date : 9/17/2024 11:05 am

Compound #36: 1248-2



Original Peak Response = 84567868



Manual Peak Response = 154767868 M1

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

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.477	-1.8	95	0.00
3	s	Decachlorobiphenyl		1.154	1.142	1.0	100	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	92	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	97	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.029	0.034	-17.2	113	0.00
42	l5	1232-2		0.027	0.026	3.7	94	0.00
43	l5	1232-3		0.055	0.056	-1.8	96	0.00
44	l5	1232-4		0.023	0.023	0.0	97	0.00
45	l5	1232-5		0.017	0.018	-5.9	103	0.00
46	l8	1262-1		0.083	0.083	0.0	95	0.00
47	l8	1262-2		0.105	0.105	0.0	95	0.00
48	l8	1262-3		0.091	0.092	-1.1	96	0.00
49	l8	1262-4		0.185	0.186	-0.5	95	0.00
50	l8	1262-5		0.059	0.059	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.585	3.2	98	0.00
3	s	Decachlorobiphenyl		1.101	1.007	8.5	103	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	94	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	97	0.00
41	l5	1232-1		0.030	0.035	-16.7	113	0.00
42	l5	1232-2		0.031	0.031	0.0	97	0.00
43	l5	1232-3		0.060	0.059	1.7	97	0.00
44	l5	1232-4		0.024	0.024	0.0	96	0.00
45	l5	1232-5		0.018	0.018	0.0	100	0.00
46	l8	1262-1		0.073	0.072	1.4	95	0.00
47	l8	1262-2		0.101	0.099	2.0	95	0.00
48	l8	1262-3		0.091	0.090	1.1	96	0.00
49	l8	1262-4		0.174	0.169	2.9	94	0.00
50	l8	1262-5		0.062	0.060	3.2	93	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2	0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3	0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4	0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5	0.099	0.000	100.0#	0#	-2.96#
24	l6	1242-1	0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2	0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3	0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4	0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5	0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1	0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2	0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.625	187.3E6	239.1E6	16.288	15.477
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.26%#	3.10%#
3) s	Decachlorobi	4.026	4.544	289.7E6	304.0E6	31.672	29.276
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.33%#	5.86%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.603	1.824	68269965	81414585	298.488	290.625
42) l5	1232-2	1.743	1.994	52386986	73941054	247.432	250.711
43) l5	1232-3	1.930	2.195	111.0E6	140.2E6	252.978	249.333
44) l5	1232-4	1.985	2.255	46547705	56591438	255.806	247.965
45) l5	1232-5	2.336	2.641	36041624	43471742	271.797	259.357
Sum	1232-1			314.2E6	395.6E6	1326.500	1297.990
Average	1232-1					265.300	259.598
46) l8	1262-1	2.825	3.175	165.3E6	168.8E6	251.208	245.187
47) l8	1262-2	3.016	3.409	209.0E6	233.6E6	251.679	246.122
48) l8	1262-3	3.140	3.567	182.7E6	212.0E6	253.128	246.995
49) l8	1262-4	3.295	3.696	368.0E6	398.7E6	251.038	242.663
50) l8	1262-5	3.769	4.212	117.6E6	140.8E6	250.989	241.242
Sum	1262-1			1042.7E6	1153.9E6	1258.042	1222.209
Average	1262-1					251.608	244.442

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1042.7E6	1153.9E6	1258.042	1222.209
Average	1262-1					251.608	244.442

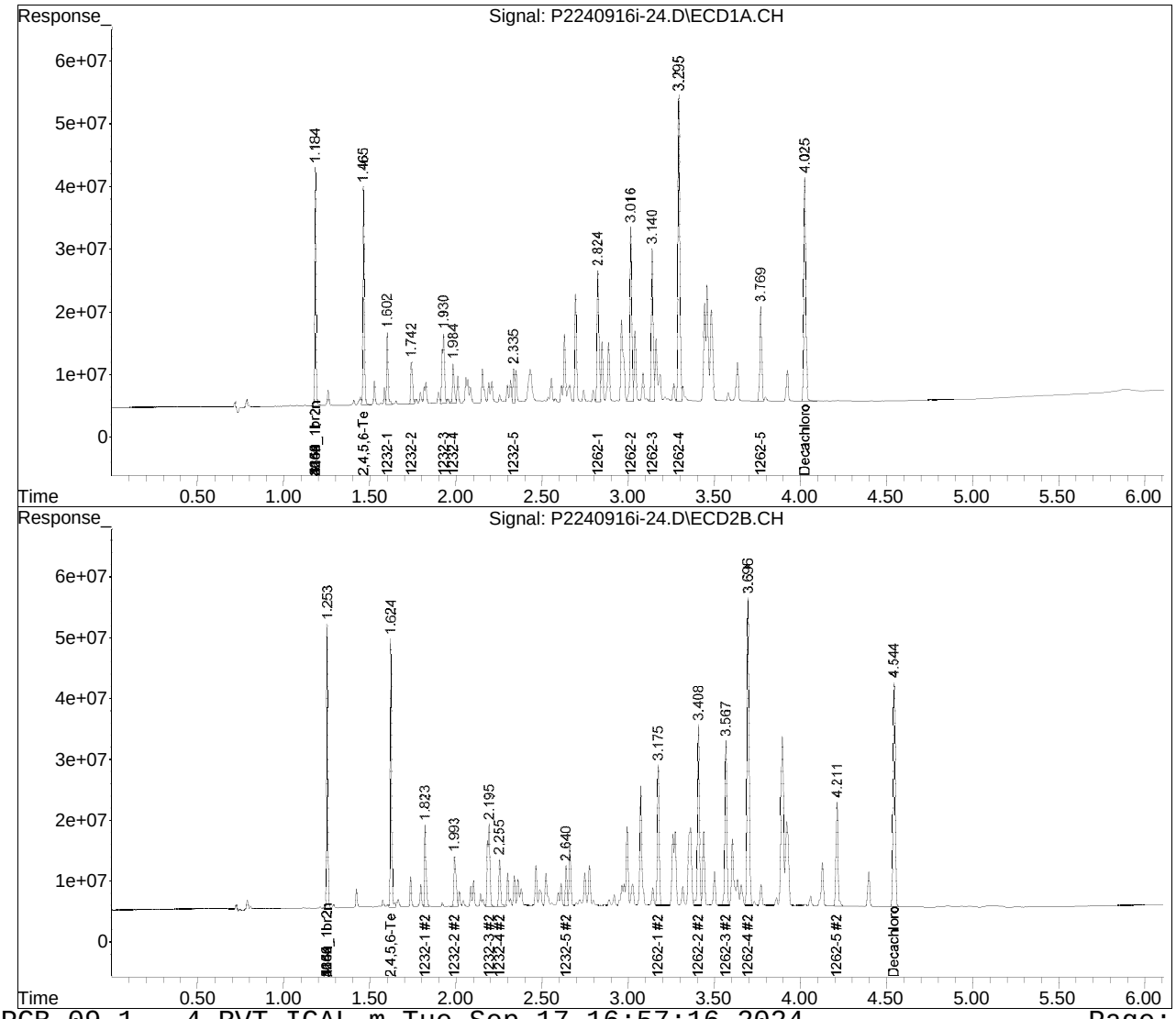
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-24.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 6:07 pm	Instrument	: Pest 2
Sample	: cicv3262,42,, 250 pp11773	Quant Date	: 9/17/2024 11:06 am

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

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.522	-4.9	98	0.00
3	s	Decachlorobiphenyl		1.154	1.730	-49.9#	152#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	92	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	98	0.00
24	l6	1242-1		0.021	0.022	-4.8	104	0.00
25	l6	1242-2		0.046	0.052	-13.0	111	0.00
26	l6	1242-3		0.096	0.102	-6.2	104	0.00
27	l6	1242-4		0.040	0.043	-7.5	104	0.00
28	l6	1242-5		0.032	0.033	-3.1	101	0.00
29	l9	1268-1		0.209	0.236	-12.9	111	0.00
30	l9	1268-2		0.189	0.209	-10.6	109	0.00
31	l9	1268-3		0.154	0.157	-1.9	100	0.00
32	l9	1268-4		0.067	0.067	0.0	98	0.00
33	l9	1268-5		0.467	0.442	5.4	93	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.565	4.5	98	0.00
3	s	Decachlorobiphenyl		1.101	1.500	-36.2#	155#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	95	0.00
24	l6	1242-1		0.021	0.024	-14.3	106	0.00
25	l6	1242-2		0.048	0.053	-10.4	105	0.00
26	l6	1242-3		0.095	0.104	-9.5	104	0.00
27	l6	1242-4		0.039	0.042	-7.7	103	0.00
28	l6	1242-5		0.031	0.034	-9.7	104	0.00
29	l9	1268-1		0.190	0.219	-15.3	109	0.00
30	l9	1268-2		0.169	0.189	-11.8	106	0.00
31	l9	1268-3		0.141	0.145	-2.8	98	0.00
32	l9	1268-4		0.062	0.063	-1.6	98	0.00
33	l9	1268-5		0.399	0.389	2.5	93	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	98	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2	0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3	0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4	0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5	0.099	0.000	100.0#	0#	-2.96#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.625	194.1E6	238.6E6	16.787	15.284
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.36%#	3.06%#
3) s	Decachlorobi	4.026	4.544	441.2E6	457.5E6	47.972	43.605
	Spiked Amount 500.000	Range 30 - 150		Recovery =		9.59%#	8.72%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.602	1.823	44493355	56043063	264.571	278.221
25) l6	1242-2	1.741	1.994	104.1E6	125.4E6	283.000M1	274.871
26) l6	1242-3	1.930	2.195	203.6E6	247.3E6	266.424	272.811
27) l6	1242-4	1.984	2.255	85044716	99394063	264.271	269.601
28) l6	1242-5	2.335	2.640	66155142	81559141	258.626	273.542
Sum	1242-1			503.4E6	609.7E6	1336.892	1369.046
Average	1242-1					267.378	273.809
29) l9	1268-1	3.458	3.891	470.6E6	520.6E6	283.128	287.064
30) l9	1268-2	3.479	3.918	417.3E6	449.7E6	277.418	278.906
31) l9	1268-3	3.581	4.059	313.3E6	345.8E6	255.903	257.951
32) l9	1268-4	3.768	4.211	134.4E6	150.9E6	251.151	257.023
33) l9	1268-5	3.922	4.397	881.6E6	926.0E6	236.864	243.367
Sum	1268-1			2217.2E6	2393.0E6	1304.464	1324.311
Average	1268-1					260.893	264.862
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

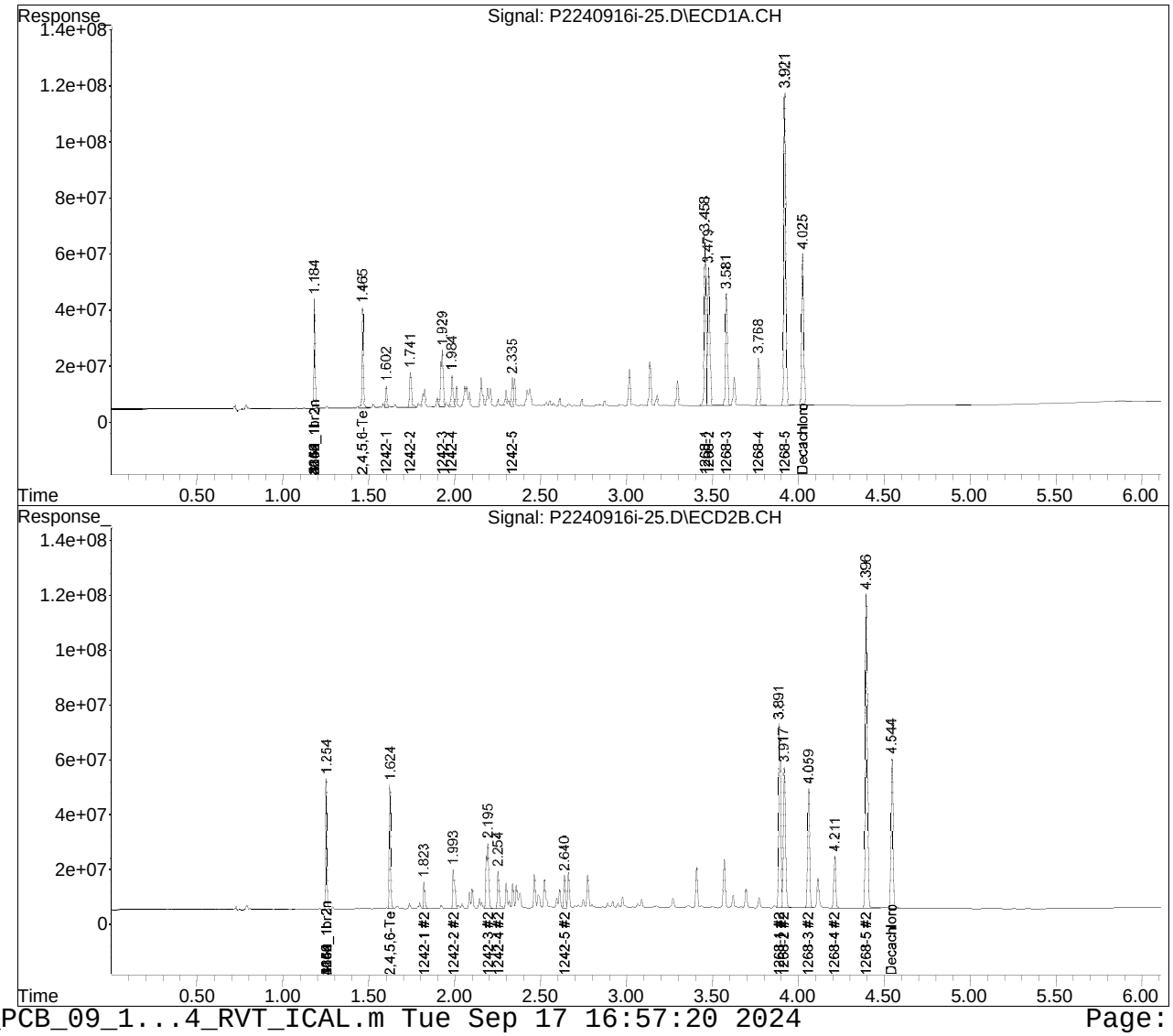
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

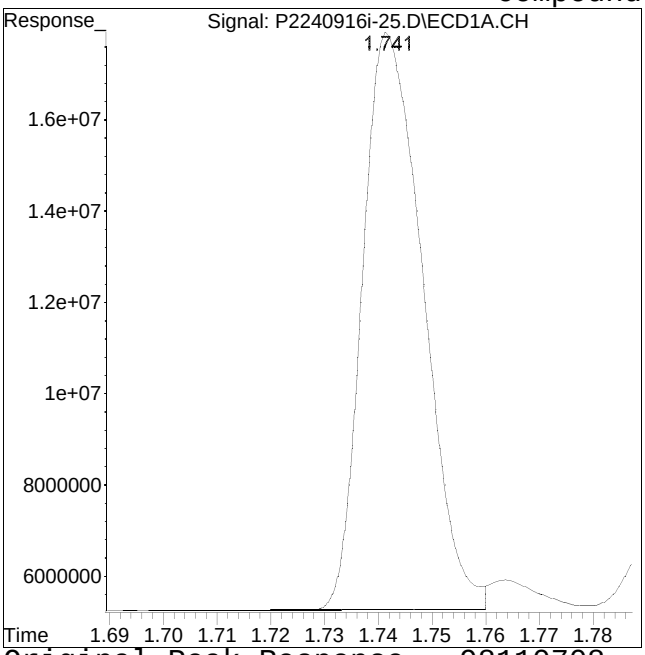
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

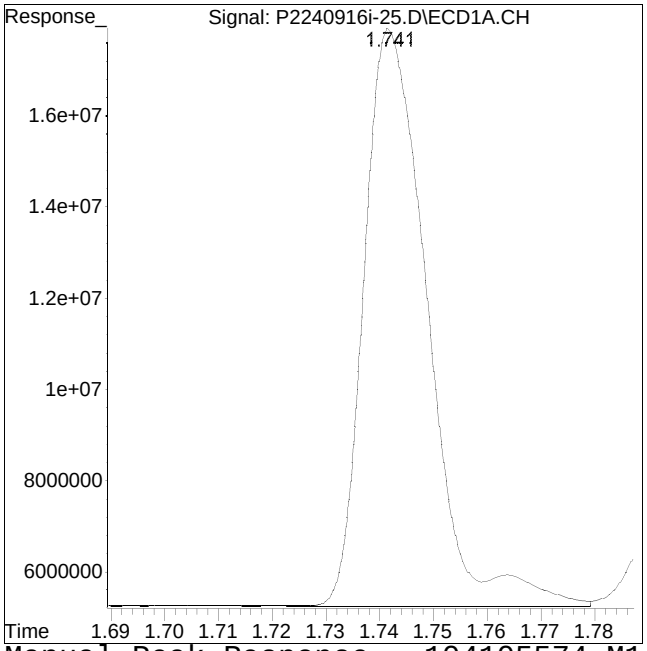


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-25.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 6:15 pm Instrument : Pest 2
Sample : cicv4268,42,, 250 pp11772 Quant Date : 9/17/2024 11:06 am

Compound #25: 1242-2





Original Peak Response = 98110708 Manual Peak Response = 104105574 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 05:57	
Lab File ID	: P2240927a-04	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1977023-1	**Init. Calib. Times**	: 15:29	17:41
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	92	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.654	-	-14	20	105	0
Decachlorobiphenyl	1.154	1.333	-	-15.5	20	116	-.02
1016-1	0.027	0.03	-	-11.1	20	108	0
1016-2	0.059	0.057	-	3.4	20	97	0
1016-3	0.117	0.148	-	-26.5*	20	120	0
1016-4	0.049	0.062	-	-26.5*	20	120	0
1016-5	0.054	0.061	-	-13	20	112	0
1260-1	0.075	0.091	-	-21.3*	20	121	-.01
1260-2	0.113	0.144	-	-27.4*	20	126	-.01
1260-3	0.069	0.075	-	-8.7	20	104	-.01
1260-4	0.151	0.146	-	3.3	20	92	-.02
1260-5	0.108	0.122	-	-13	20	110	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 05:57		
Lab File ID	: P2240927a-04	**Init. Calib. Date(s)**	: 09/16/24	09/16/24	
Sample No	: WG1977023-1	**Init. Calib. Times**	: 15:29	17:41	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	116	0
2,4,5,6-Tetrachloro-m-xylen	1.638	1.383	-	15.6	20	104	-.01
Decachlorobiphenyl #2	1.101	0.943	-	14.4	20	117	-.03
1016-1 #2	0.03	0.025	-	16.7	20	107	-.01
1016-2 #2	0.065	0.057	-	12.3	20	112	-.01
1016-3 #2	0.131	0.12	-	8.4	20	118	-.02
1016-4 #2	0.053	0.05	-	5.7	20	123	-.02
1016-5 #2	0.042	0.037	-	11.9	20	110	-.02
1260-1 #2	0.082	0.074	-	9.8	20	120	-.02
1260-2 #2	0.097	0.084	-	13.4	20	115	-.03
1260-3 #2	0.079	0.063	-	20.3*	20	106	-.03
1260-4 #2	0.155	0.103	-	33.5*	20	86	-.03
1260-5 #2	0.111	0.093	-	16.2	20	111	-.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 12:25		
Lab File ID	: P2240927a-31	**Init. Calib. Date(s)**	: 09/16/24	09/16/24	
Sample No	: WG1977023-5	**Init. Calib. Times**	: 15:29	17:41	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	87	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.743	-	-20.1*	20	105	0
Decachlorobiphenyl	1.154	1.357	-	-17.6	20	112	-.02
1016-1	0.027	0.03	-	-11.1	20	104	0
1016-2	0.059	0.058	-	1.7	20	95	0
1016-3	0.117	0.153	-	-30.8*	20	118	0
1016-4	0.049	0.065	-	-32.7*	20	119	0
1016-5	0.054	0.064	-	-18.5	20	111	0
1260-1	0.075	0.094	-	-25.3*	20	118	0
1260-2	0.113	0.148	-	-31*	20	122	0
1260-3	0.069	0.079	-	-14.5	20	103	-.01
1260-4	0.151	0.151	-	0	20	90	-.01
1260-5	0.108	0.125	-	-15.7	20	107	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 12:25	
Lab File ID	: P2240927a-31	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1977023-5	**Init. Calib. Times**	: 15:29	17:41
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	115	0
2,4,5,6-Tetrachloro-m-xylen	1.638	1.475	-	10	20	110	0
Decachlorobiphenyl #2	1.101	1.041	-	5.4	20	128	-.03
1016-1 #2	0.03	0.025	-	16.7	20	107	0
1016-2 #2	0.065	0.064	-	1.5	20	123	-.01
1016-3 #2	0.131	0.123	-	6.1	20	120	-.01
1016-4 #2	0.053	0.049	-	7.5	20	120	-.01
1016-5 #2	0.042	0.04	-	4.8	20	119	-.02
1260-1 #2	0.082	0.084	-	-2.4	20	133	-.02
1260-2 #2	0.097	0.096	-	1	20	130	-.02
1260-3 #2	0.079	0.071	-	10.1	20	118	-.02
1260-4 #2	0.155	0.112	-	27.7*	20	92	-.02
1260-5 #2	0.111	0.106	-	4.5	20	125	-.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 13:29	
Lab File ID	: P2240927a-34	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1977023-6	**Init. Calib. Times**	: 15:29	17:41
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	112	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.412	-	2.7	20	109	0
Decachlorobiphenyl	1.154	1.072	-	7.1	20	114	-.02
2154_1br2nb	1	1	-	0	20	111	0
1221-1	0.015	0.014	-	6.7	20	104	0
1221-2	0.00922	0.0082	-	11.1	20	99	0
1221-3	0.037	0.034	-	8.1	20	103	0
1254-1	0.052	0.052	-	0	20	111	0
1254-2	0.093	0.098	-	-5.4	20	117	0
1254-3	0.101	0.106	-	-5	20	116	0
1254-4	0.071	0.074	-	-4.2	20	114	-.01
1254-5	0.099	0.094	-	5.1	20	106	-.01
4268_1br2nb	1	1	-	0	20	118	0
1248_1br2nb	1	1	-	0	20	116	0
3262_1br2nb	1	1	-	0	20	115	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 13:29		
Lab File ID	: P2240927a-34	**Init. Calib. Date(s)**	: 09/16/24	09/16/24	
Sample No	: WG1977023-6	**Init. Calib. Times**	: 15:29	17:41	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	125	0
2,4,5,6-Tetrachloro-m-xyl	1.638	1.314	-	19.8	20	106	0
Decachlorobiphenyl	1.101	0.878	-	20.3*	20	117	-.03
2154_1br2nb	1	1	-	0	20	124	0
1221-1	0.017	0.014	-	17.6	20	102	-.01
1221-2	0.01103	0.00912	-	17.3	20	103	-.01
1221-3	0.04	0.033	-	17.5	20	101	-.01
1254-1	0.062	0.057	-	8.1	20	114	-.02
1254-2	0.073	0.063	-	13.7	20	107	-.02
1254-3	0.109	0.098	-	10.1	20	112	-.02
1254-4	0.073	0.065	-	11	20	112	-.02
1254-5	0.101	0.085	-	15.8	20	105	-.03
4268_1br2nb	1	1	-	0	20	123	0
1248_1br2nb	1	1	-	0	20	124	0
3262_1br2nb	1	1	-	0	20	126	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	92	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.654	-14.0	105	0.00
3	s	Decachlorobiphenyl		1.154	1.333	-15.5	116	-0.02
4	l1	1016-1		0.027	0.030	-11.1	108	0.00
5	l1	1016-2		0.059	0.057	3.4	97	0.00
6	l1	1016-3		0.117	0.148	-26.5#	120	0.00
7	l1	1016-4		0.049	0.062	-26.5#	120	0.00
8	l1	1016-5		0.054	0.061	-13.0	112	0.00
9	l2	1260-1		0.075	0.091	-21.3#	121	-0.01
10	l2	1260-2		0.113	0.144	-27.4#	126	-0.01
11	l2	1260-3		0.069	0.075	-8.7	104	-0.01
12	l2	1260-4		0.151	0.146	3.3	92	-0.02
13	l2	1260-5		0.108	0.122	-13.0	110	-0.02
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	116	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.638	1.383	15.6	104	-0.01
54	s	Decachlorobiphenyl #2		1.101	0.943	14.4	117	-0.03
55	l1	1016-1 #2		0.030	0.025	16.7	107	-0.01
56	l1	1016-2 #2		0.065	0.057	12.3	112	-0.01
57	l1	1016-3 #2		0.131	0.120	8.4	118	-0.02
58	l1	1016-4 #2		0.053	0.050	5.7	123	-0.02
59	l1	1016-5 #2		0.042	0.037	11.9	110	-0.02
60	l2	1260-1 #2		0.082	0.074	9.8	120	-0.02
61	l2	1260-2 #2		0.097	0.084	13.4	115	-0.03
62	l2	1260-3 #2		0.079	0.063	20.3#	106	-0.03
63	l2	1260-4 #2		0.155	0.103	33.5#	86	-0.03
64	l2	1260-5 #2		0.111	0.093	16.2	111	-0.03

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   5:57
Operator : pest2:mhg
Sample   : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc   : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.181	1.246	197.1E6	286.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.461	1.614	208.7E6	253.8E6	18.245M4	13.505M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		91.22%	67.53%
3) s	Decachlorobi	4.008	4.510f	336.2E6	346.1E6	36.955	27.409
	Spiked Amount 20.000	Range 30 - 150		Recovery =		184.78%#	137.04%
	Target Compounds						
4) l1	1016-1	1.597	1.811	58274749	71057316	273.261	205.255M4
5) l1	1016-2	1.738	1.979	111.6E6	164.8E6	240.379	220.008M4
6) l1	1016-3	1.923	2.178f	291.7E6	342.7E6	316.943M4	228.268M4
7) l1	1016-4	1.977	2.238f	122.4E6	143.6E6	315.788M4	237.068M4
8) l1	1016-5	2.145	2.446f	119.9E6	106.0E6	280.698M4	219.429M4
	Sum 1016-1			703.9E6	828.2E6	1427.070	1110.028
	Average 1016-1					285.414	222.006
9) l2	1260-1	2.683	3.049f	179.8E6	213.4E6	306.018M4	226.407M4
10) l2	1260-2	2.812	3.149f	284.7E6	241.6E6	318.932M4	216.967M4
11) l2	1260-3	3.125	3.538f	148.7E6	181.5E6	275.185M4	199.375M4
12) l2	1260-4	3.280f	3.667f	288.7E6	294.9E6	243.239	165.480

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2 1260-5	3.426f	3.867f	240.0E6	265.5E6	283.142M4	209.389M4
Sum 1260-1			1142.0E6	1196.8E6	1426.516	1017.618
Average 1260-1					285.303	203.524
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

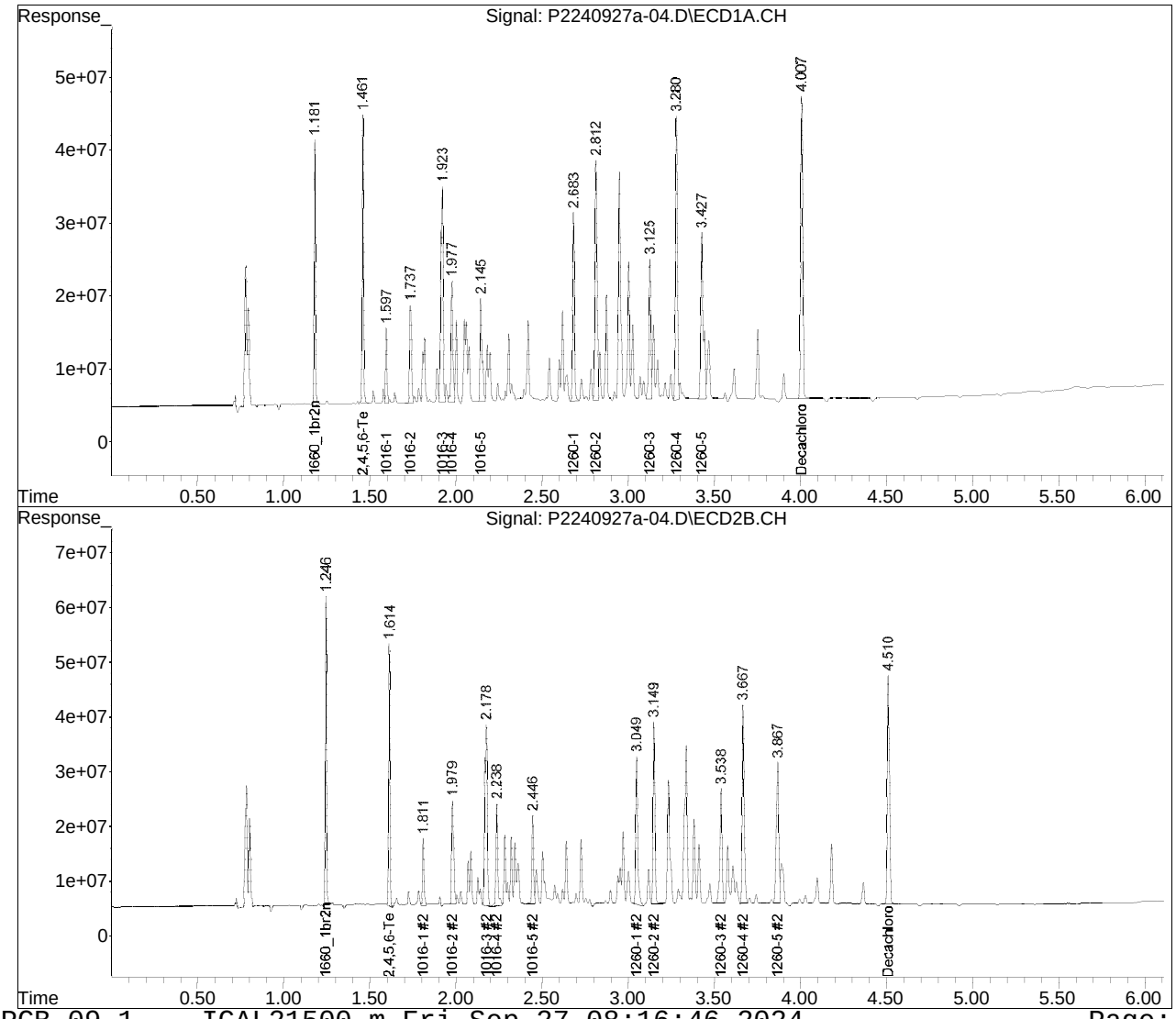
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,,
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

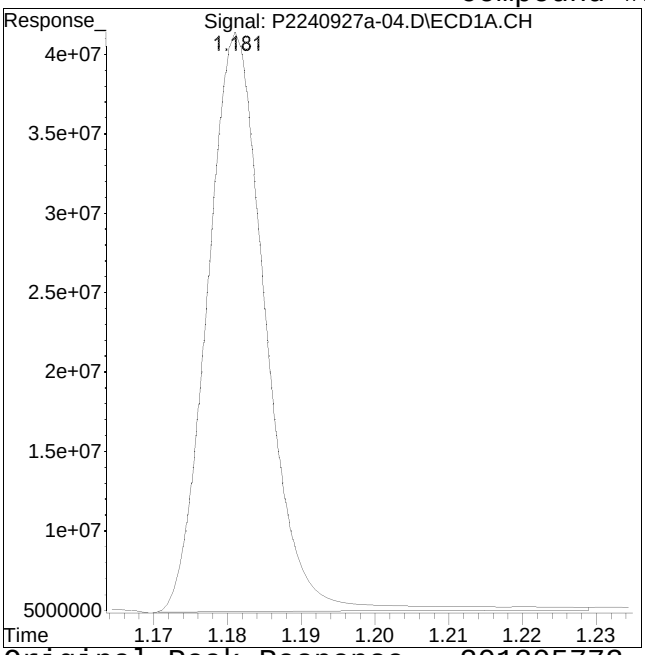
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

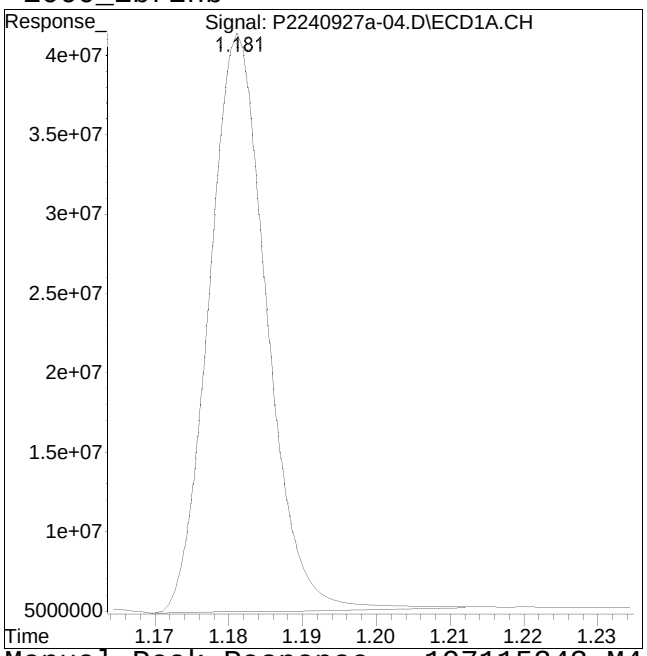


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #1: 1660_1br2nb



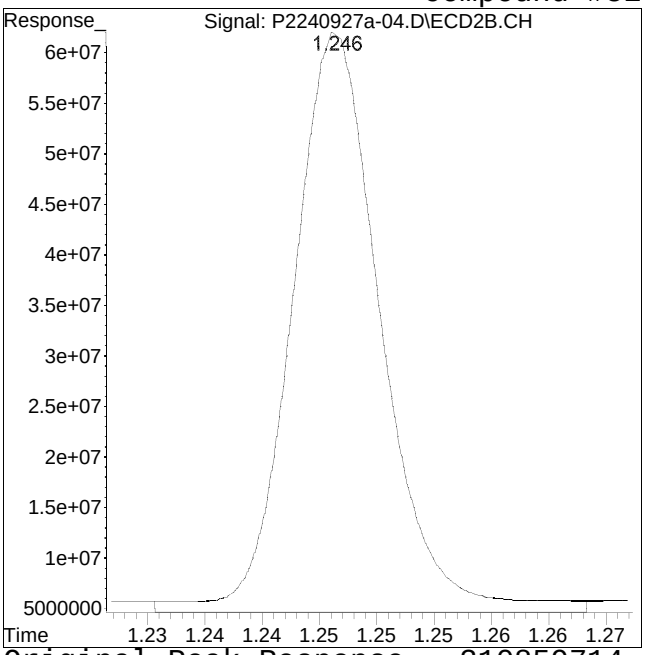


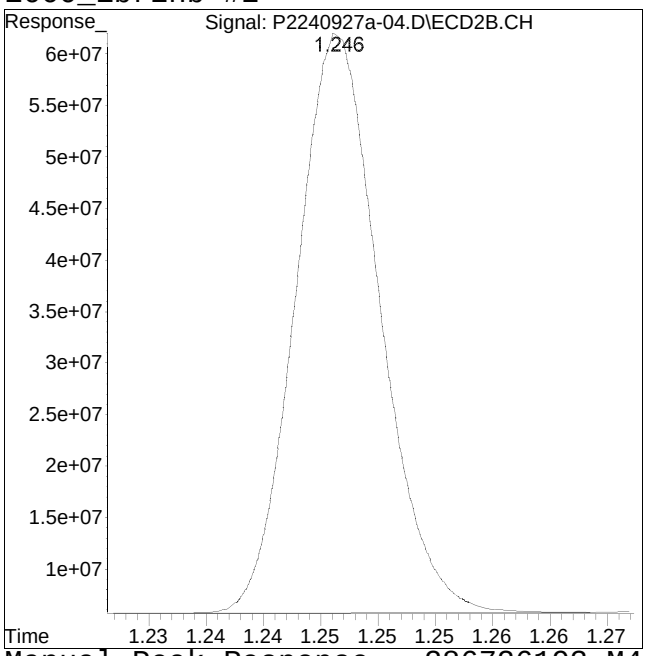
Original Peak Response = 201305773 Manual Peak Response = 197115243 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #52: 1660_1br2nb #2



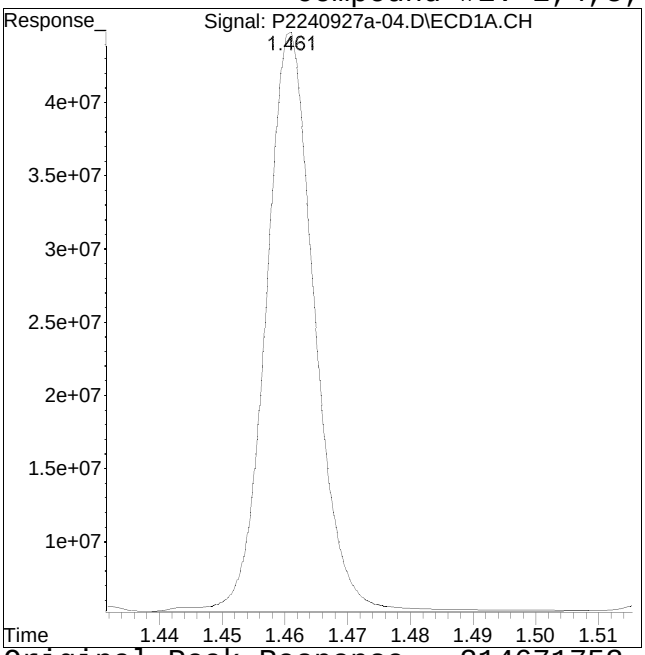


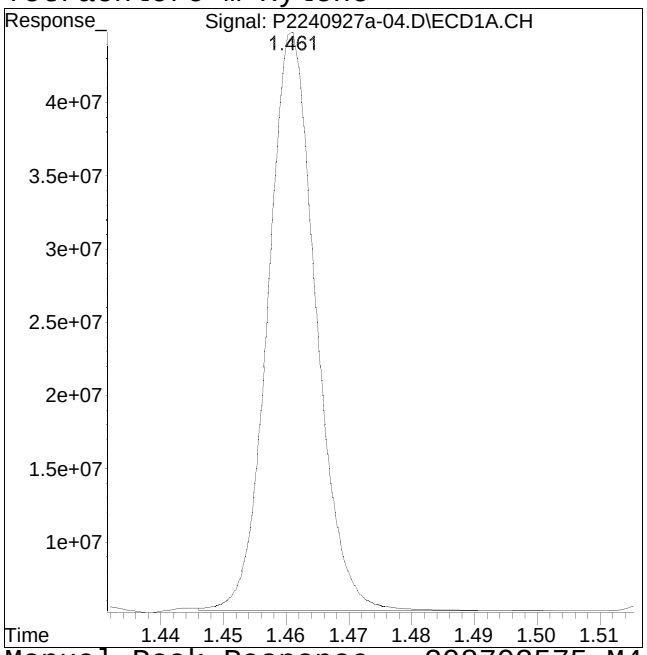
Original Peak Response = 310859714 Manual Peak Response = 286726193 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



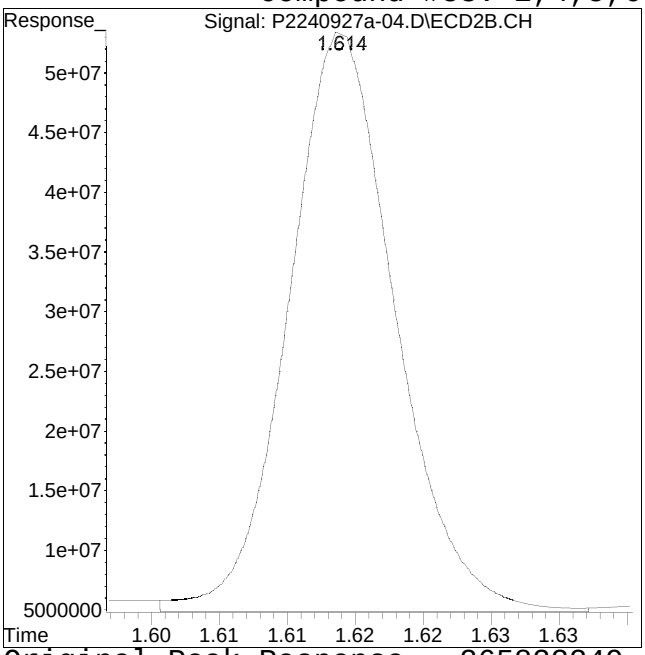


Original Peak Response = 214671753 Manual Peak Response = 208703575 M4
M4 = Poor automated baseline construction.

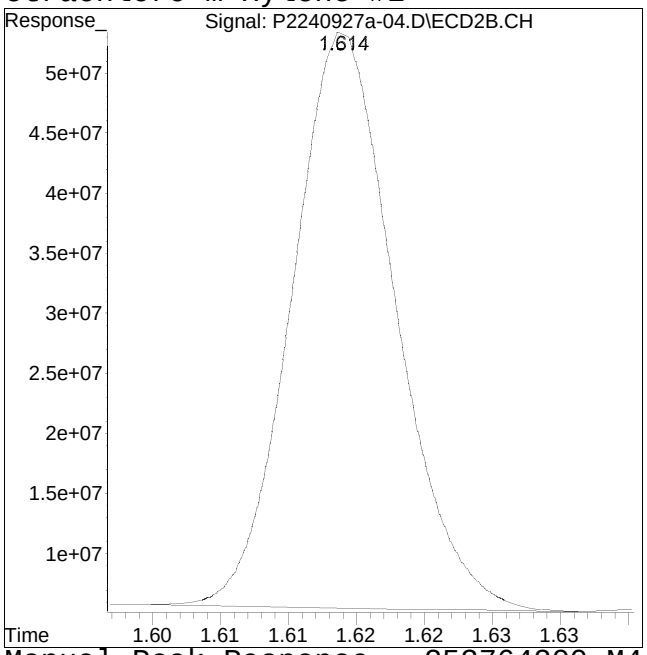
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 265822249



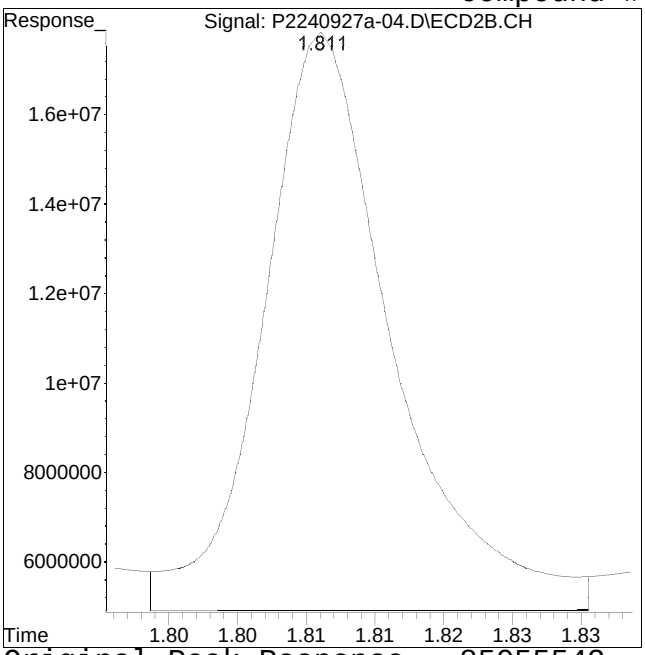
Manual Peak Response = 253764200 M4

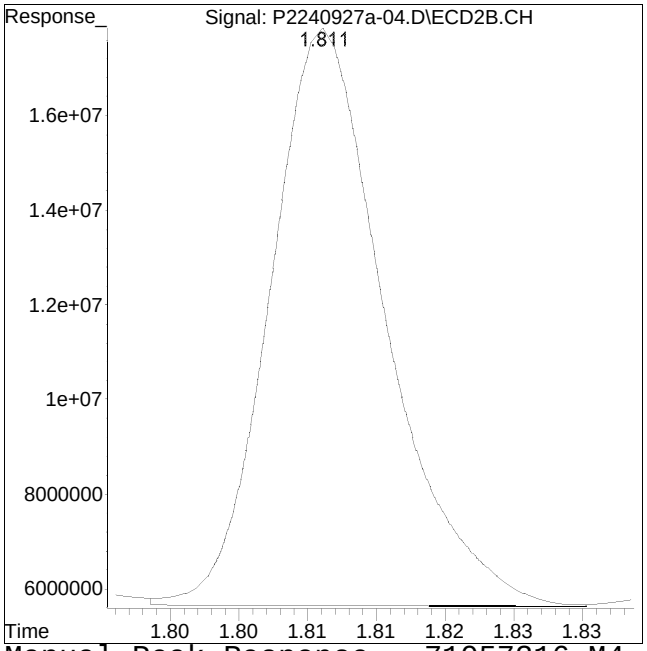
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #55: 1016-1 #2



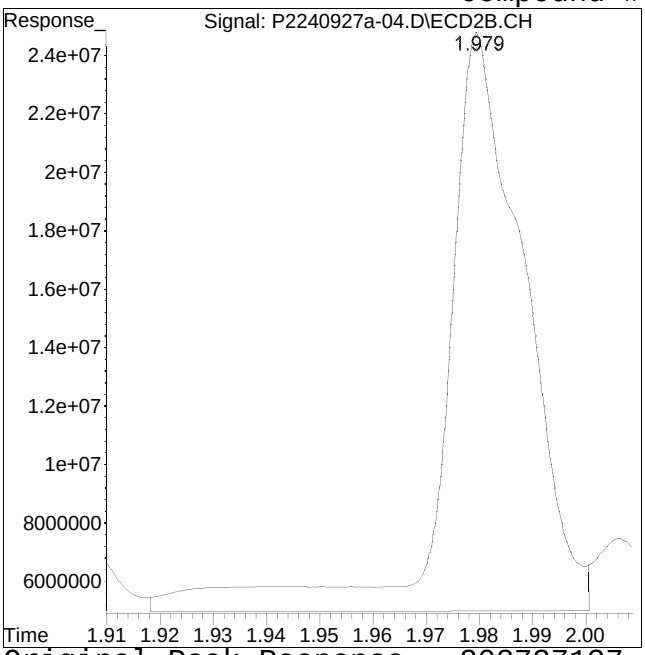


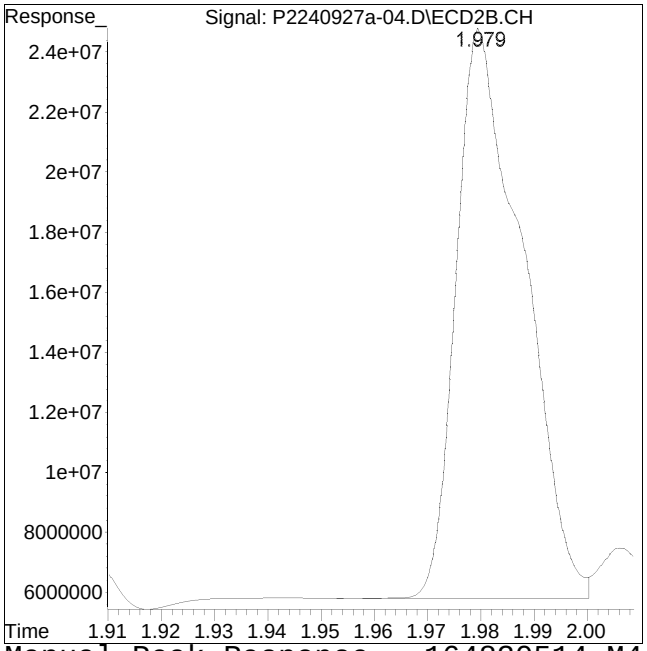
Original Peak Response = 85055542 Manual Peak Response = 71057316 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #56: 1016-2 #2



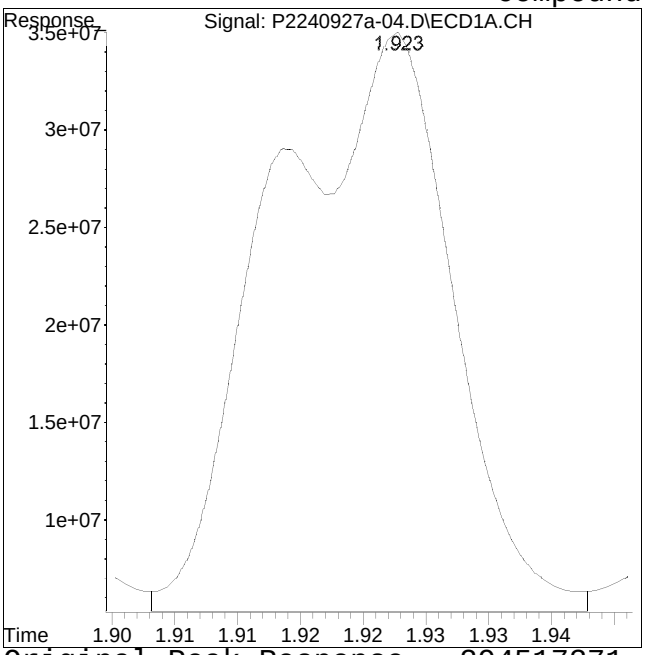


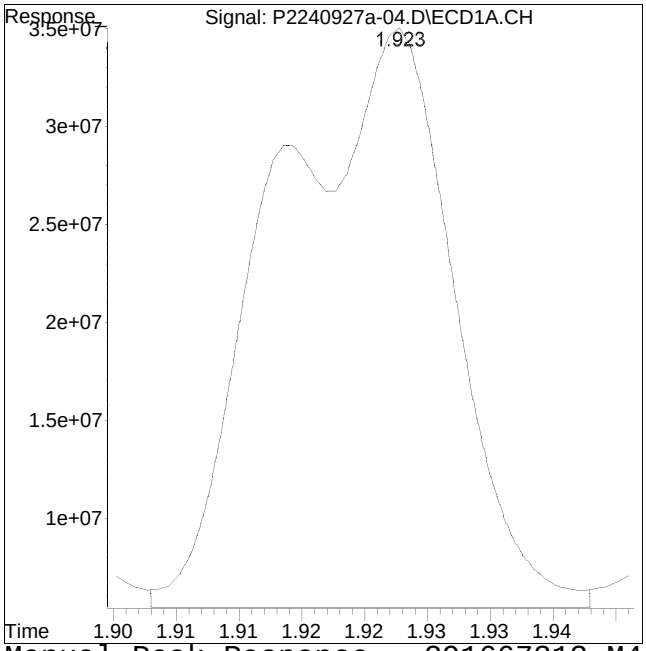
Original Peak Response = 203737137 Manual Peak Response = 164830514 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #6: 1016-3



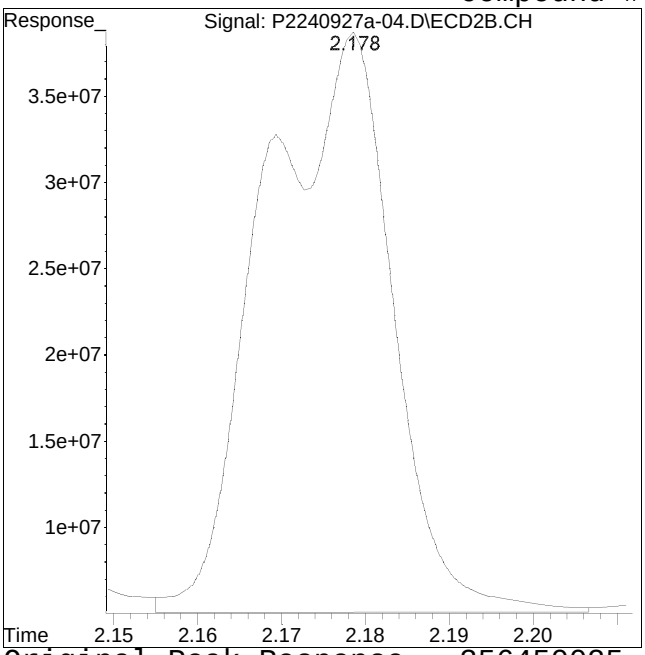


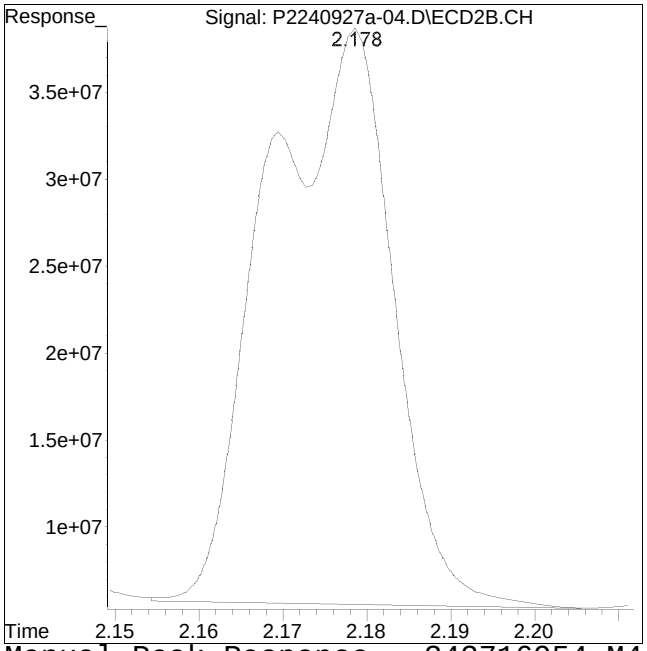
Original Peak Response = 294517371 Manual Peak Response = 291667313 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #57: 1016-3 #2



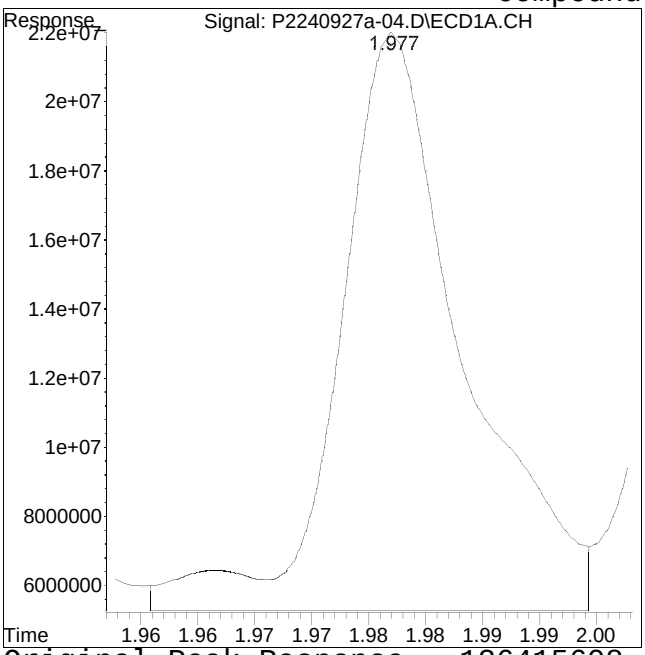


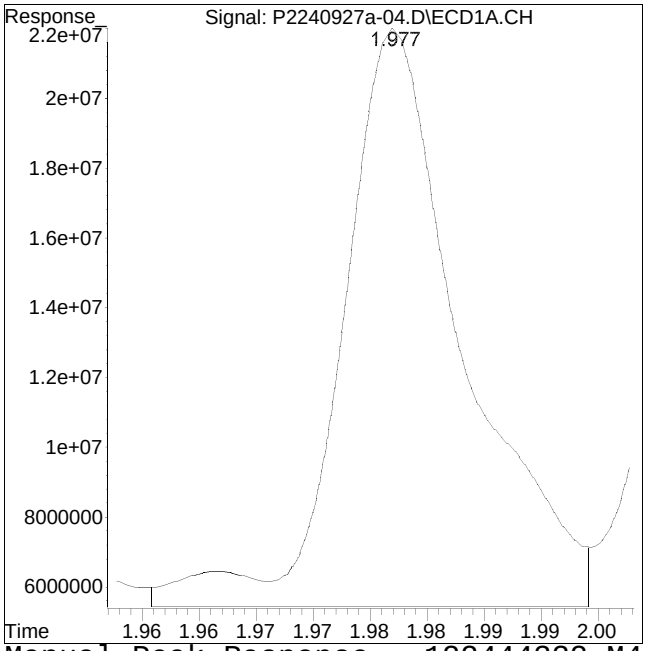
Original Peak Response = 356450025 Manual Peak Response = 342716954 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #7: 1016-4



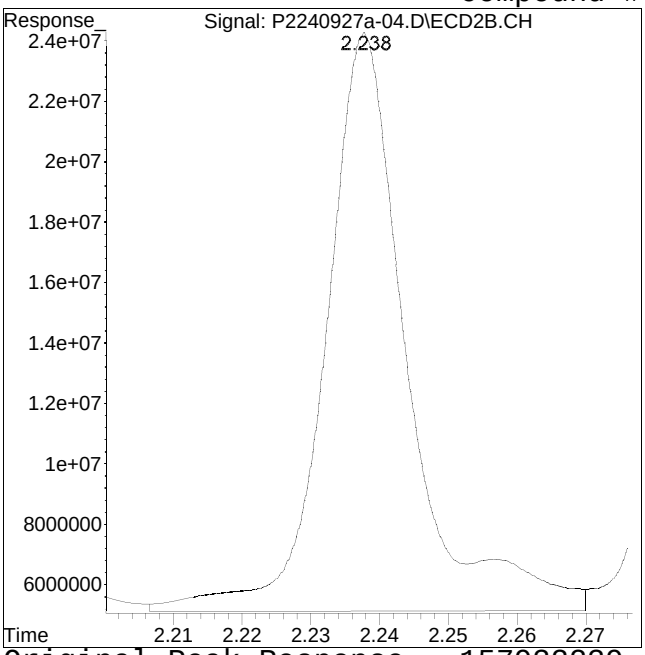


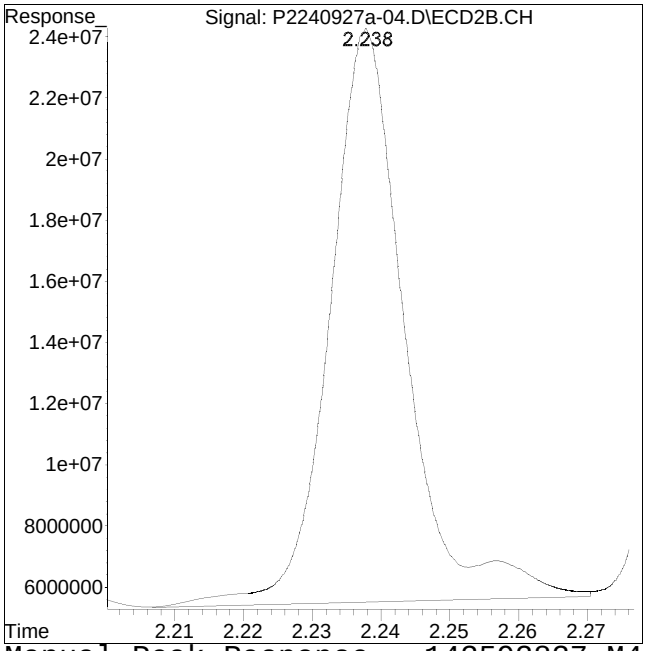
Original Peak Response = 126415608 Manual Peak Response = 122444332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #58: 1016-4 #2



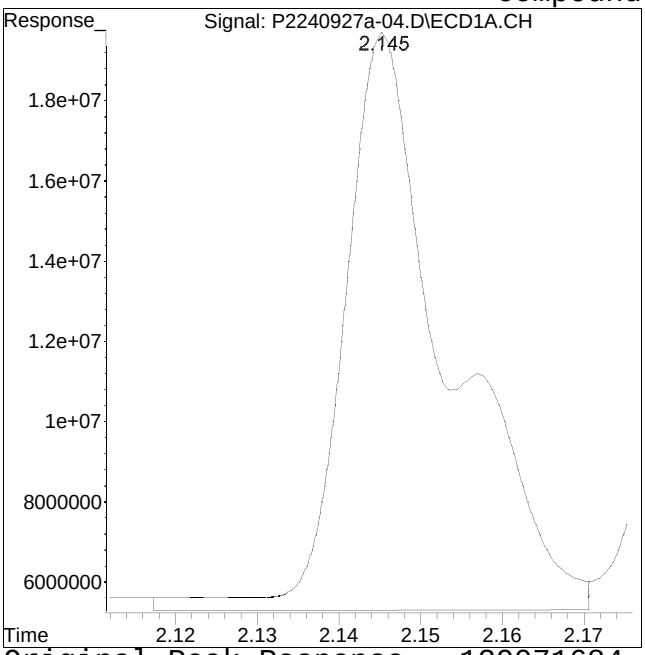


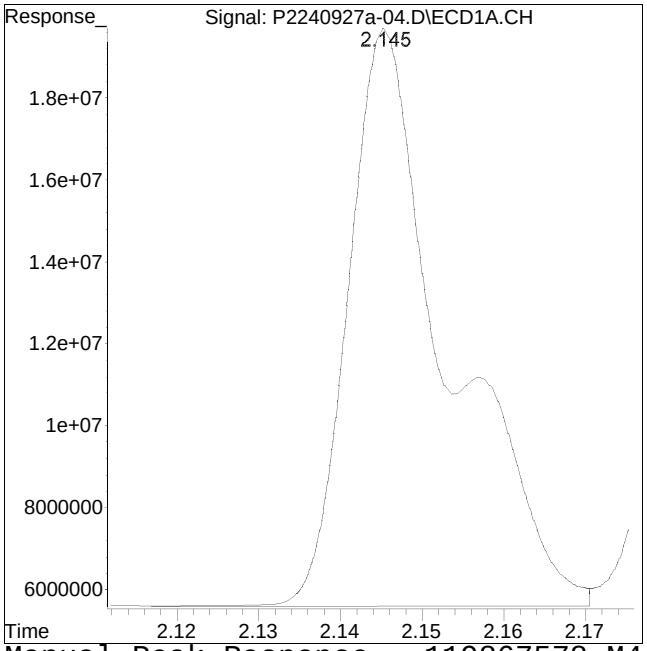
Original Peak Response = 157932239 Manual Peak Response = 143593837 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #8: 1016-5



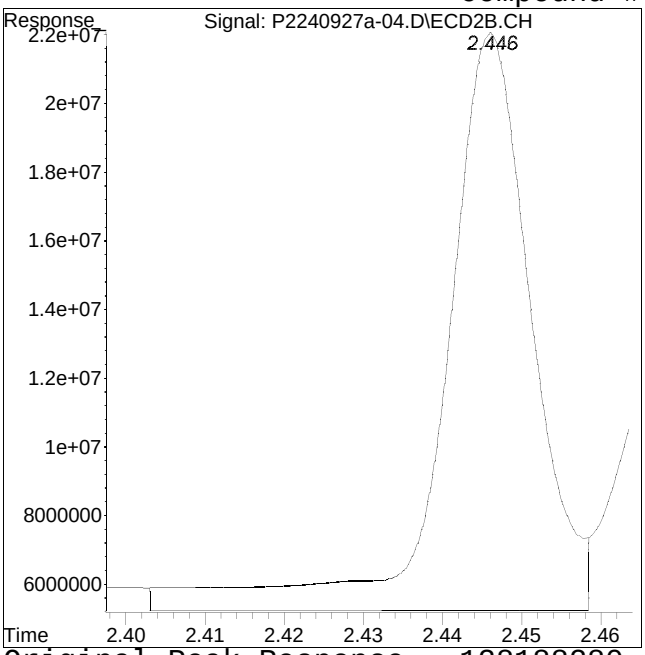


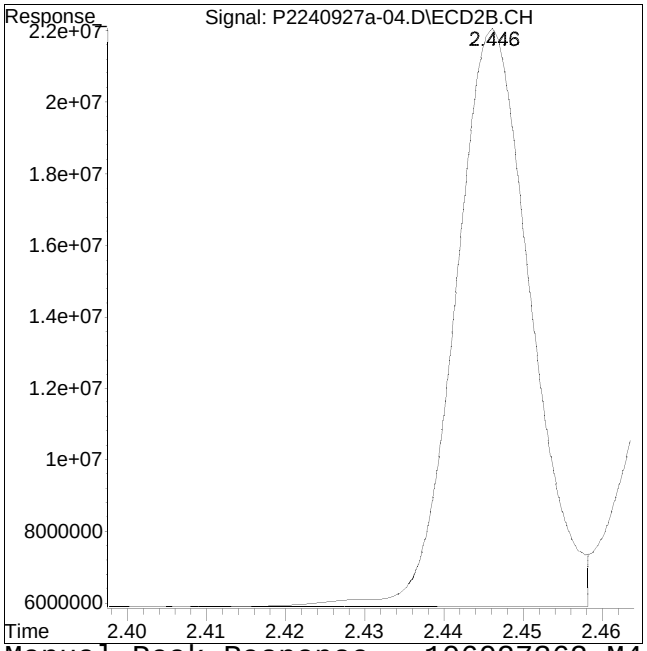
Original Peak Response = 129071684 Manual Peak Response = 119867578 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #59: 1016-5 #2



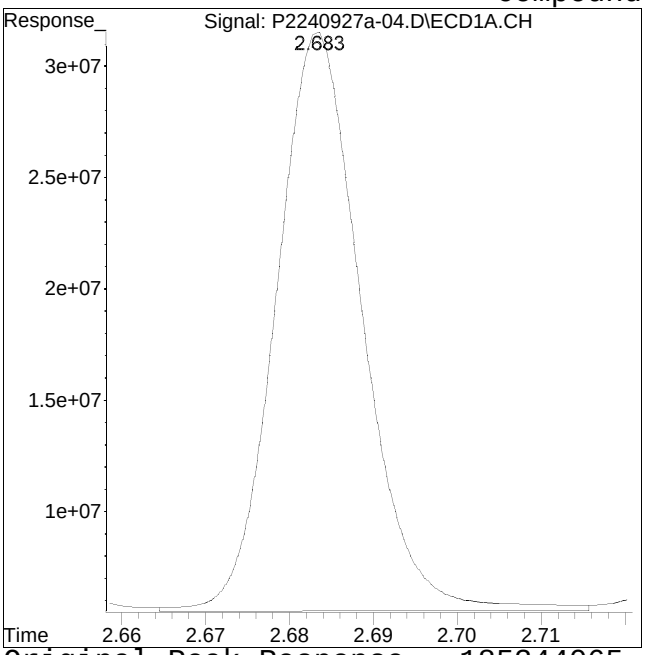


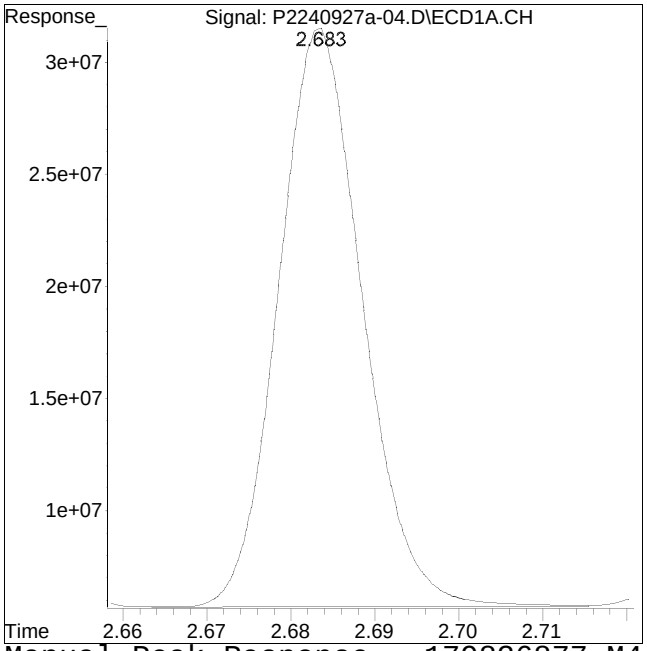
Original Peak Response = 128188280 Manual Peak Response = 106027362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #9: 1260-1



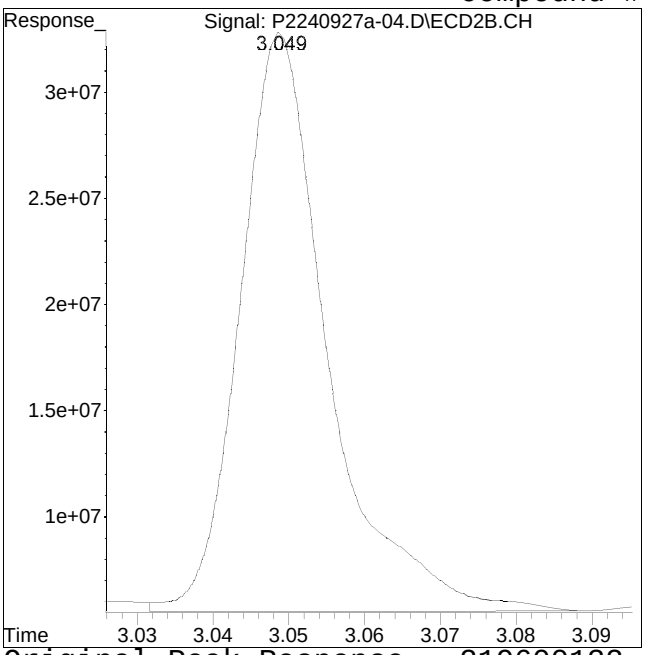


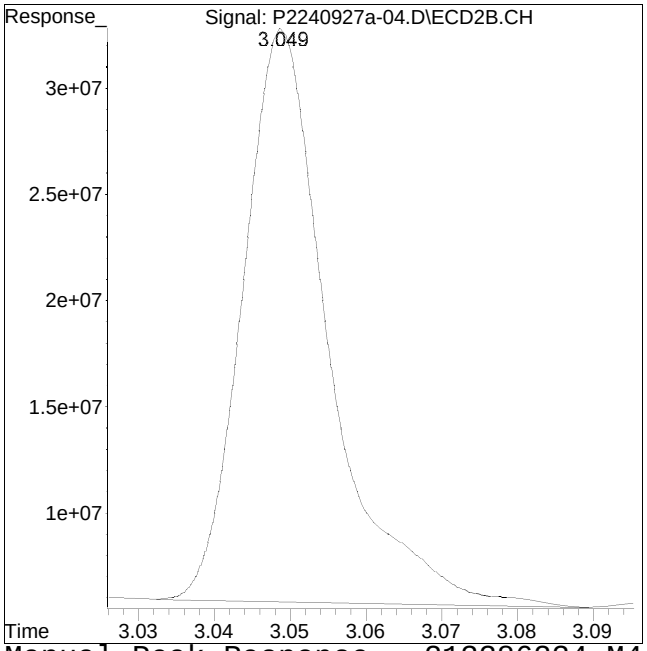
Original Peak Response = 185344065 Manual Peak Response = 179836877 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #60: 1260-1 #2



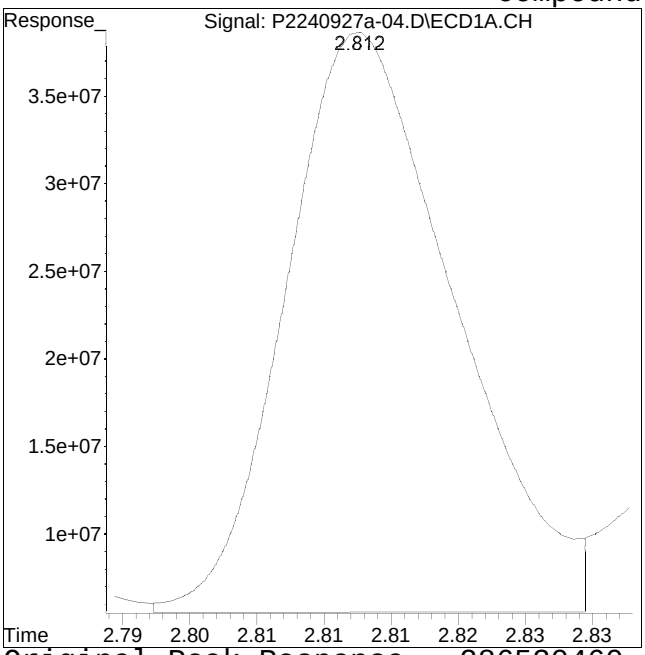


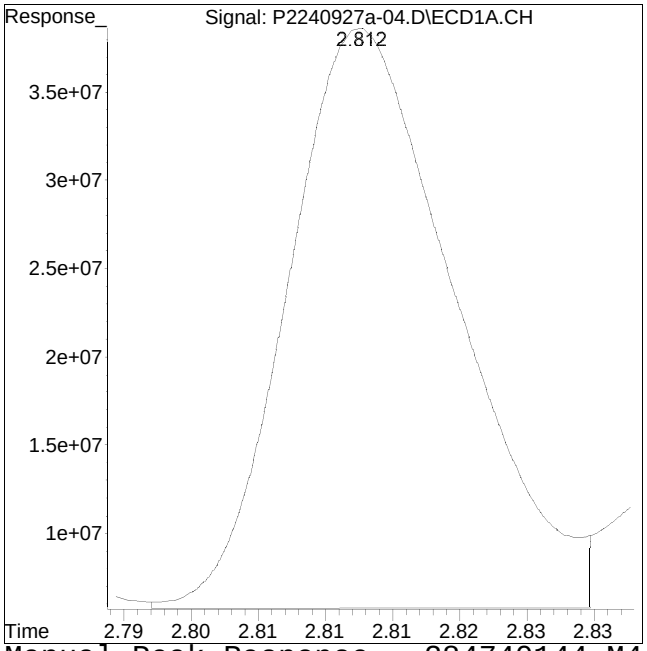
Original Peak Response = 219600132 Manual Peak Response = 213386234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #10: 1260-2



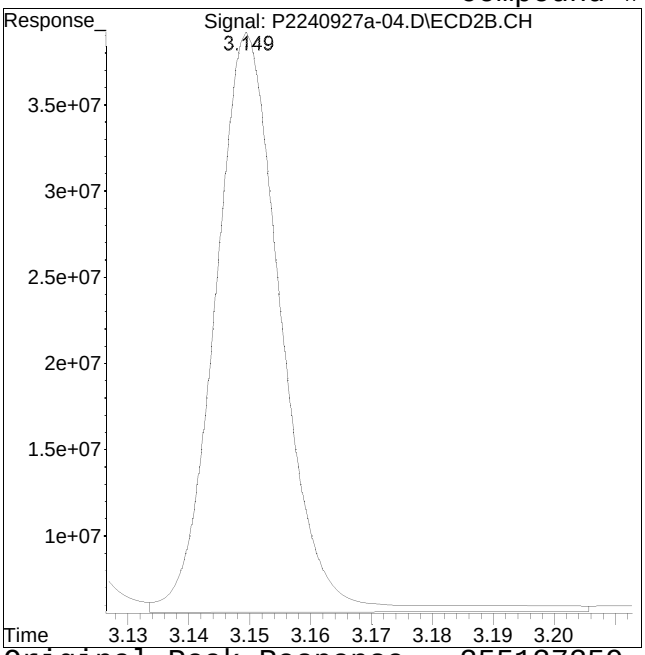


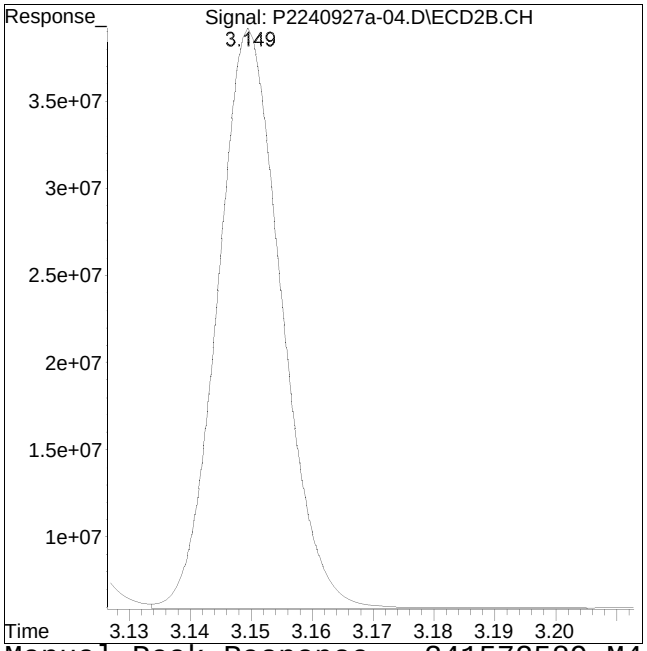
Original Peak Response = 286530460 Manual Peak Response = 284740144 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #61: 1260-2 #2



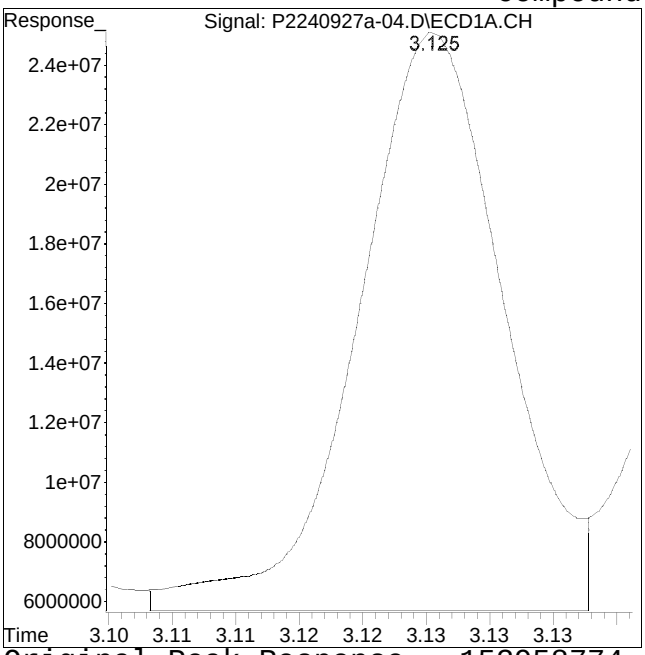


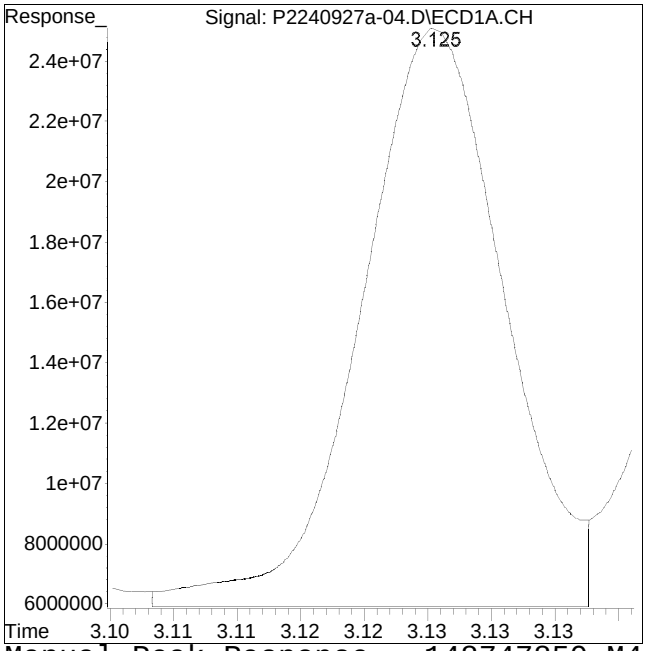
Original Peak Response = 255137359 Manual Peak Response = 241572589 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #11: 1260-3



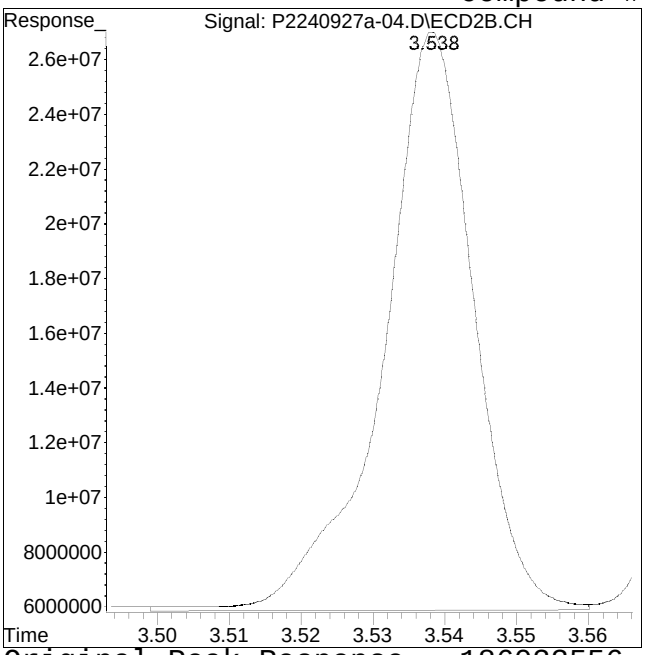


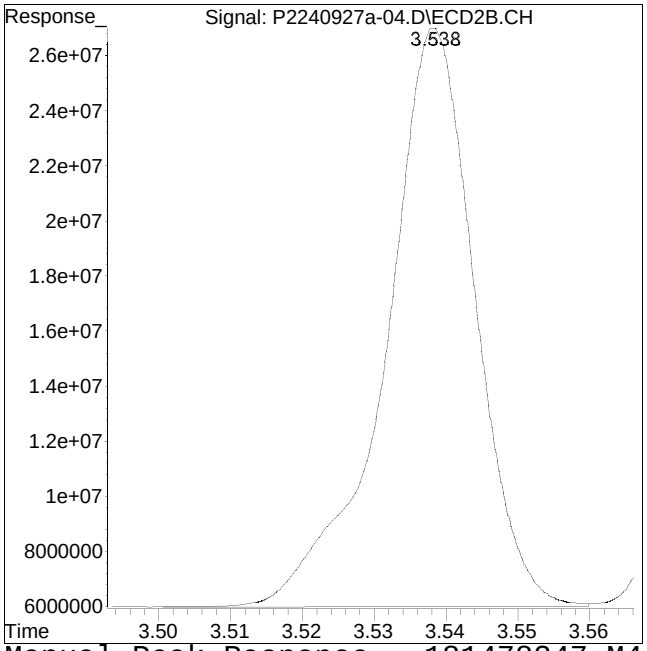
Original Peak Response = 153958774 Manual Peak Response = 148747850 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #62: 1260-3 #2



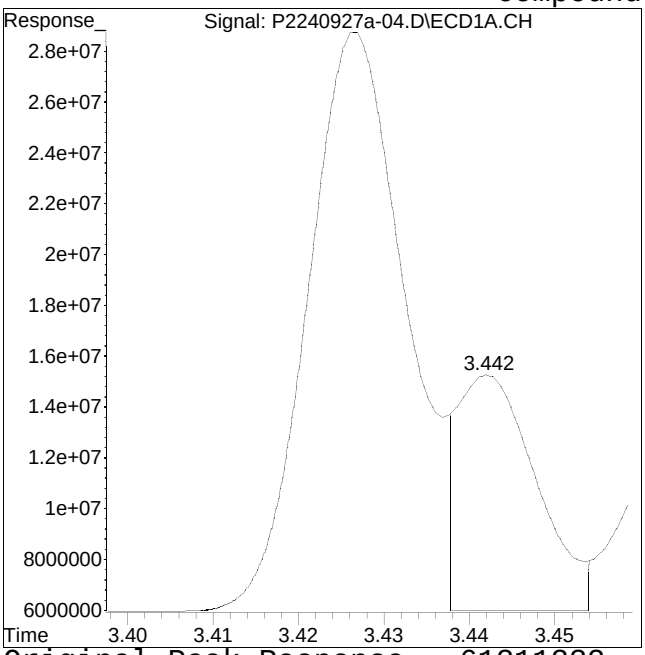


Original Peak Response = 186033556 Manual Peak Response = 181478247 M4
M4 = Poor automated baseline construction.

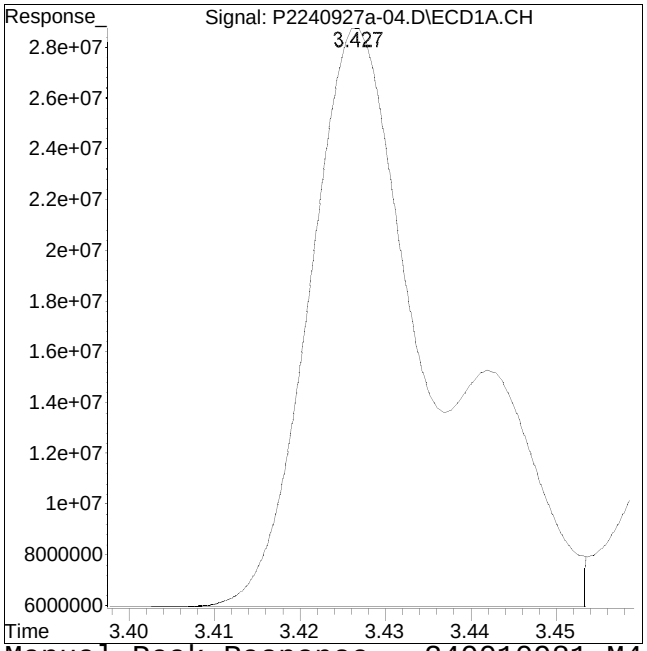
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #13: 1260-5



Original Peak Response = 61311232



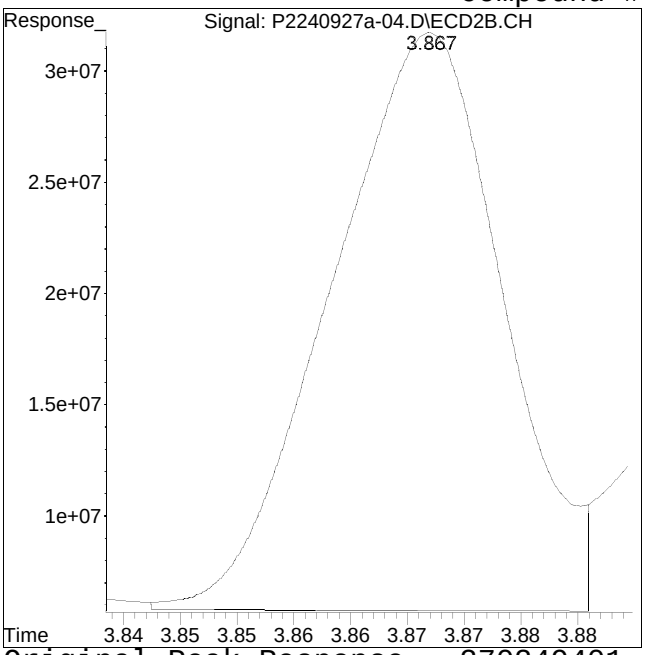
Manual Peak Response = 240010981 M4

M4 = Poor automated baseline construction.

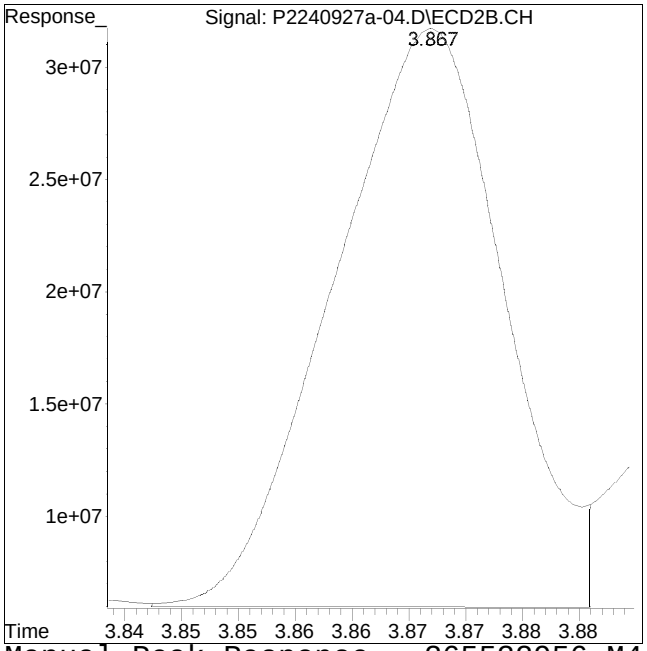
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #64: 1260-5 #2



Original Peak Response = 270249401



Manual Peak Response = 265532956 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	87	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.743	-20.1#	105	0.00
3	s	Decachlorobiphenyl		1.154	1.357	-17.6	112	-0.02
4	l1	1016-1		0.027	0.030	-11.1	104	0.00
5	l1	1016-2		0.059	0.058	1.7	95	0.00
6	l1	1016-3		0.117	0.153	-30.8#	118	0.00
7	l1	1016-4		0.049	0.065	-32.7#	119	0.00
8	l1	1016-5		0.054	0.064	-18.5	111	0.00
9	l2	1260-1		0.075	0.094	-25.3#	118	0.00
10	l2	1260-2		0.113	0.148	-31.0#	122	0.00
11	l2	1260-3		0.069	0.079	-14.5	103	-0.01
12	l2	1260-4		0.151	0.151	0.0	90	-0.01
13	l2	1260-5		0.108	0.125	-15.7	107	-0.01
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	115	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.638	1.475	10.0	110	0.00
54	s	Decachlorobiphenyl #2		1.101	1.041	5.4	128	-0.03
55	l1	1016-1 #2		0.030	0.025	16.7	107	0.00
56	l1	1016-2 #2		0.065	0.064	1.5	123	-0.01
57	l1	1016-3 #2		0.131	0.123	6.1	120	-0.01
58	l1	1016-4 #2		0.053	0.049	7.5	120	-0.01
59	l1	1016-5 #2		0.042	0.040	4.8	119	-0.02
60	l2	1260-1 #2		0.082	0.084	-2.4	133	-0.02
61	l2	1260-2 #2		0.097	0.096	1.0	130	-0.02
62	l2	1260-3 #2		0.079	0.071	10.1	118	-0.02
63	l2	1260-4 #2		0.155	0.112	27.7#	92	-0.02
64	l2	1260-5 #2		0.111	0.106	4.5	125	-0.03

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample   : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc   : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.183	1.248	187.1E6	283.1E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.616	208.7E6	267.2E6	19.222	14.402
	Spiked Amount	20.000	Range 30 - 150		Recovery =	96.11%	72.01%
3) s	Decachlorobi	4.011	4.514f	325.0E6	377.3E6	37.632	30.265
	Spiked Amount	20.000	Range 30 - 150		Recovery =	188.16%#	151.32%#
	Target Compounds						
4) l1	1016-1	1.600	1.813	55705811	70819702	275.182M3	207.214M4
5) l1	1016-2	1.740	1.982	109.2E6	180.5E6	247.829M4	244.027M4
6) l1	1016-3	1.926	2.182	285.4E6	347.8E6	326.755M4	234.630M4
7) l1	1016-4	1.980	2.241	121.2E6	139.8E6	329.361M4	233.739M4
8) l1	1016-5	2.148	2.449f	118.9E6	114.4E6	293.306M4	239.871M4
	Sum 1016-1			690.5E6	853.3E6	1472.434	1159.481
	Average 1016-1					294.487	231.896
9) l2	1260-1	2.687	3.053f	175.3E6	237.3E6	314.303	254.988
10) l2	1260-2	2.816	3.153f	276.5E6	272.3E6	326.211	247.716
11) l2	1260-3	3.130	3.542f	148.6E6	201.2E6	289.545	223.914
12) l2	1260-4	3.284	3.671f	282.4E6	316.4E6	250.628	179.876
13) l2	1260-5	3.431	3.871f	233.4E6	301.1E6	290.017	240.532M2
	Sum 1260-1			1116.1E6	1328.3E6	1470.704	1147.026
	Average 1260-1					294.141	229.405

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

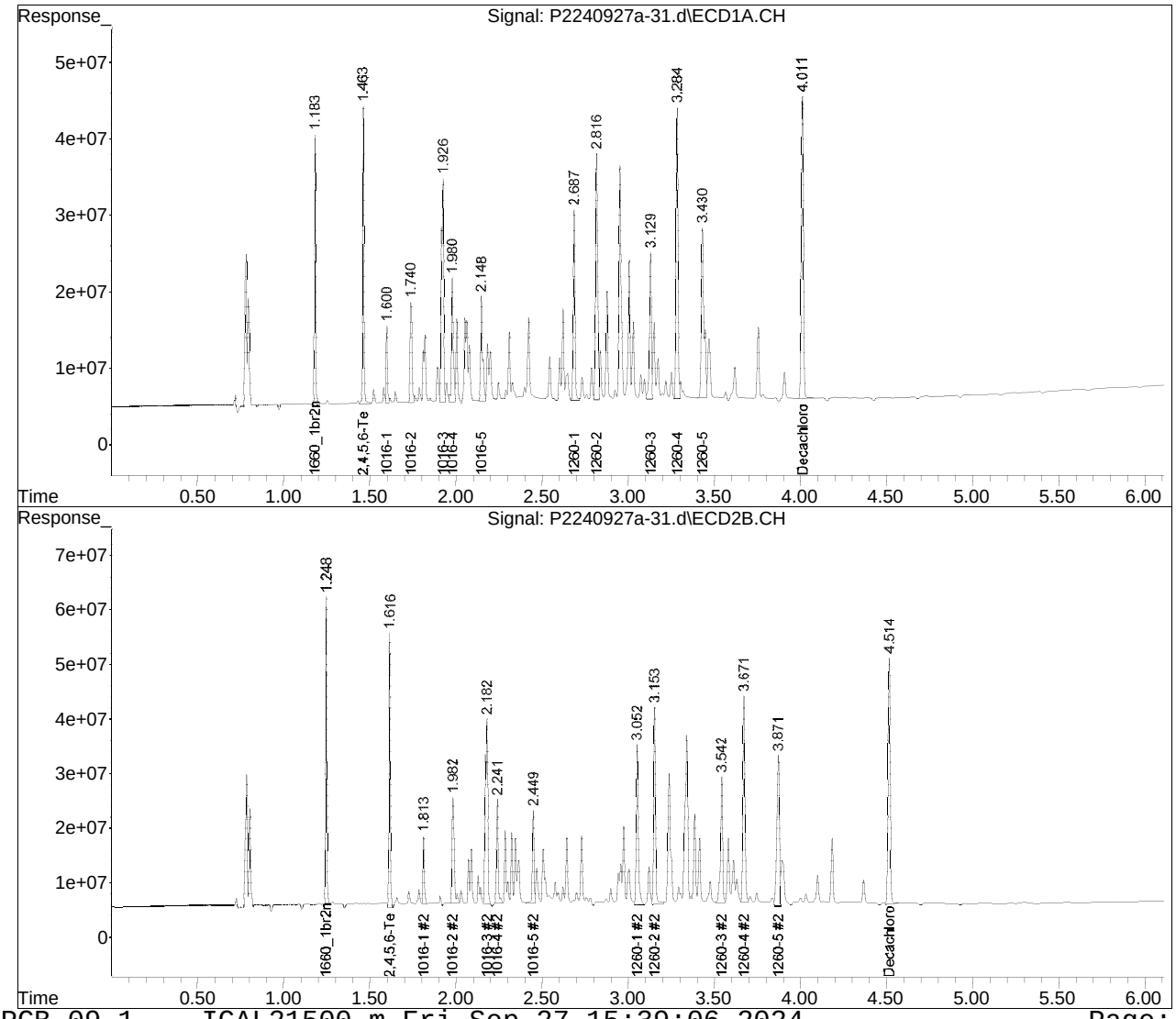
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,,
Misc : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

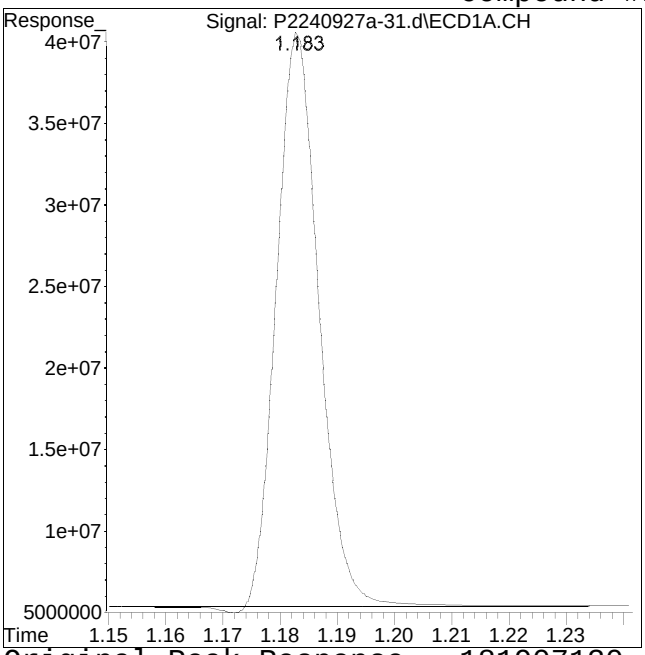
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

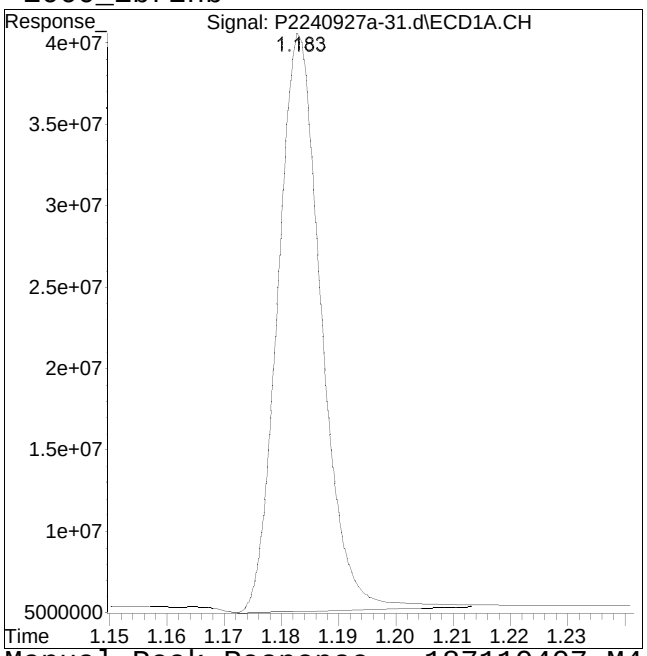


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #1: 1660_1br2nb



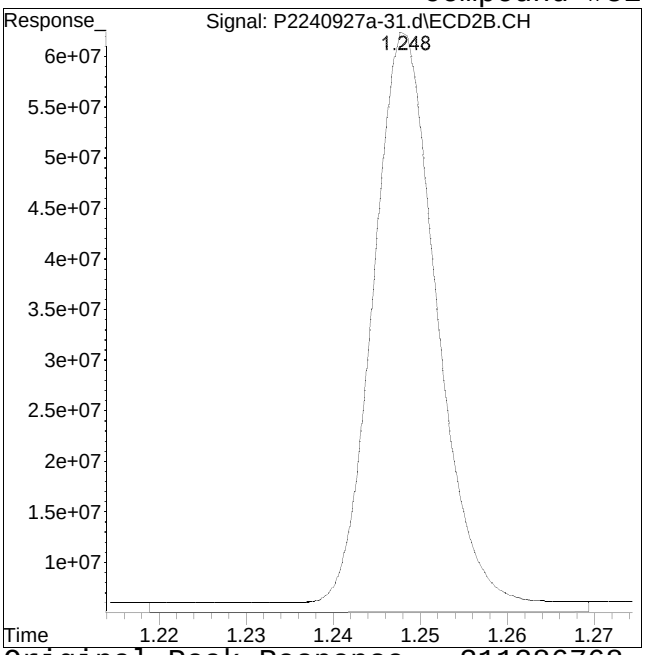


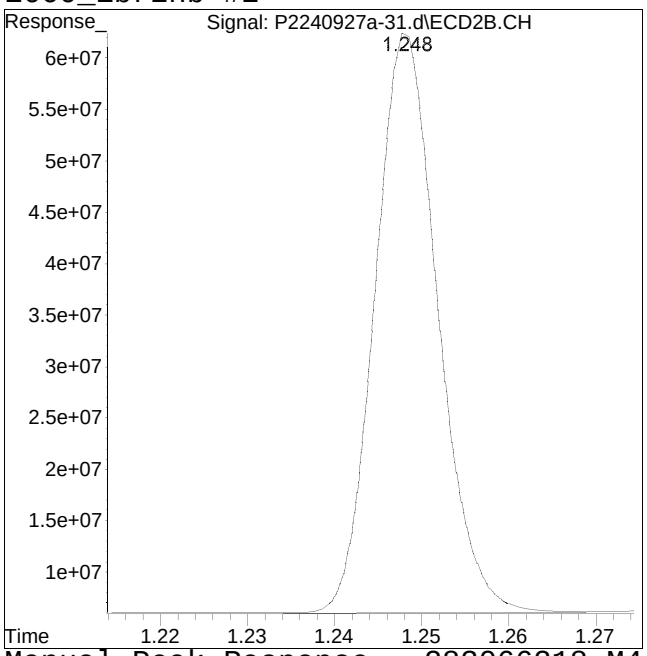
Original Peak Response = 181907130 Manual Peak Response = 187110407 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #52: 1660_1br2nb #2



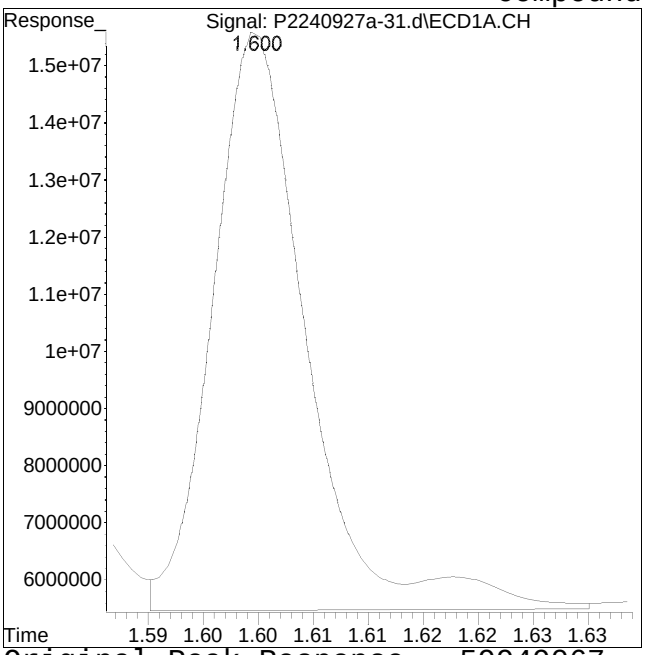


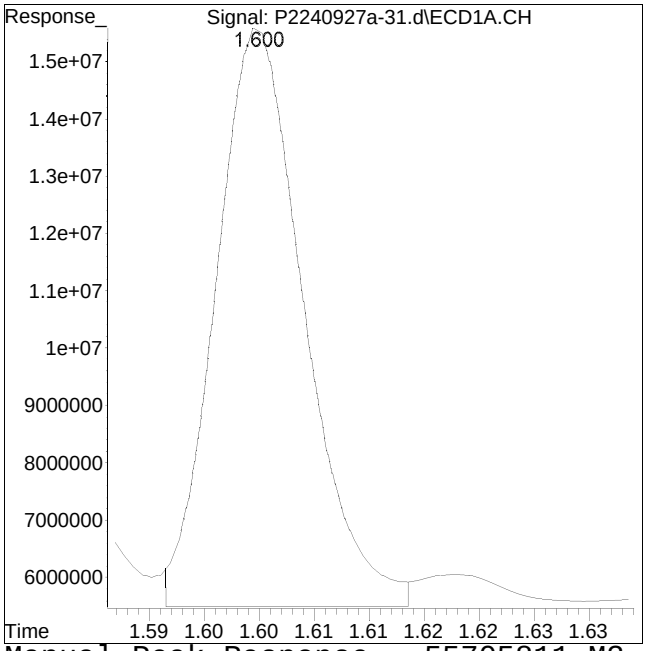
Original Peak Response = 311286768 Manual Peak Response = 283066218 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #4: 1016-1



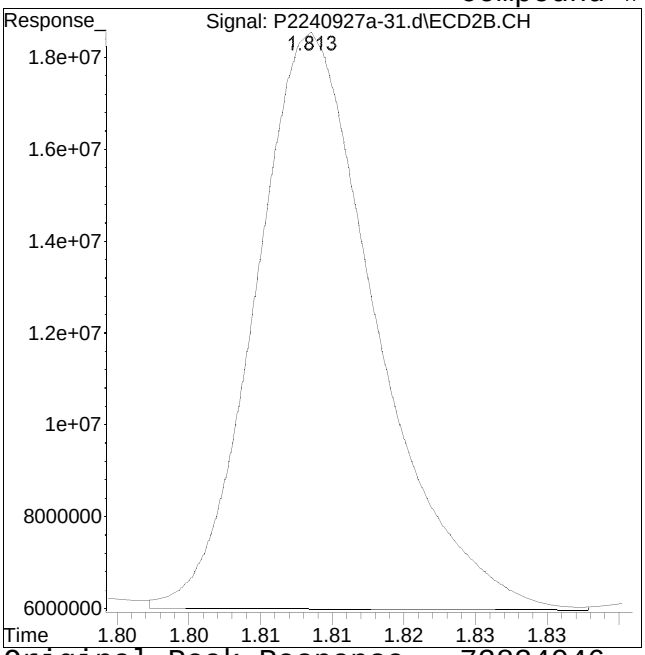


Original Peak Response = 59949067 Manual Peak Response = 55705811 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

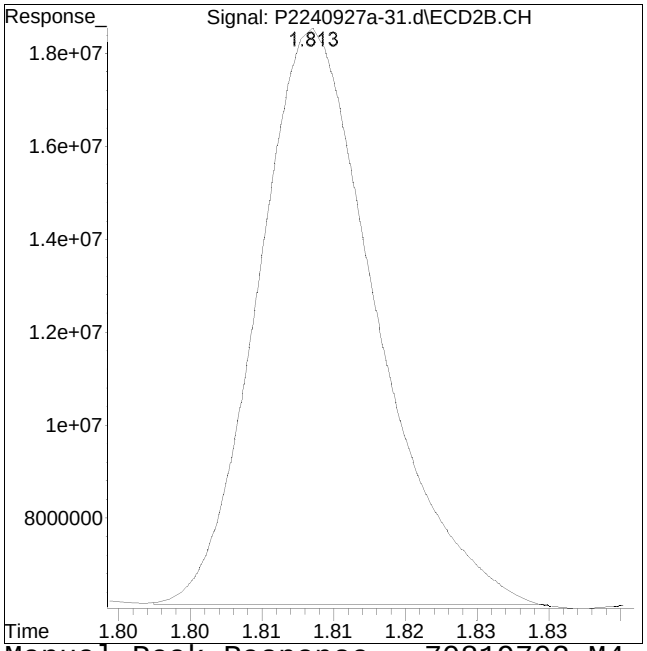
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\Q Method : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4 Quant Date : 9/27/2024 12:45 pm

Compound #55: 1016-1 #2



Original Peak Response = 73834046



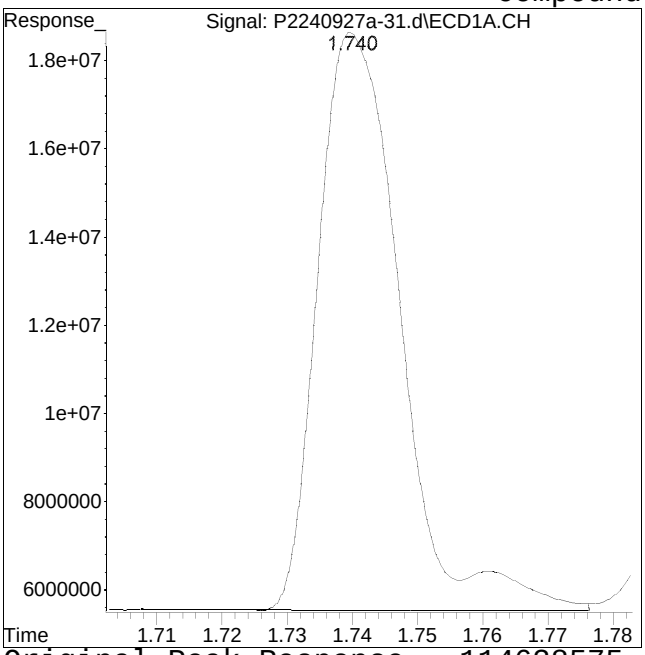
Manual Peak Response = 70819702 M4

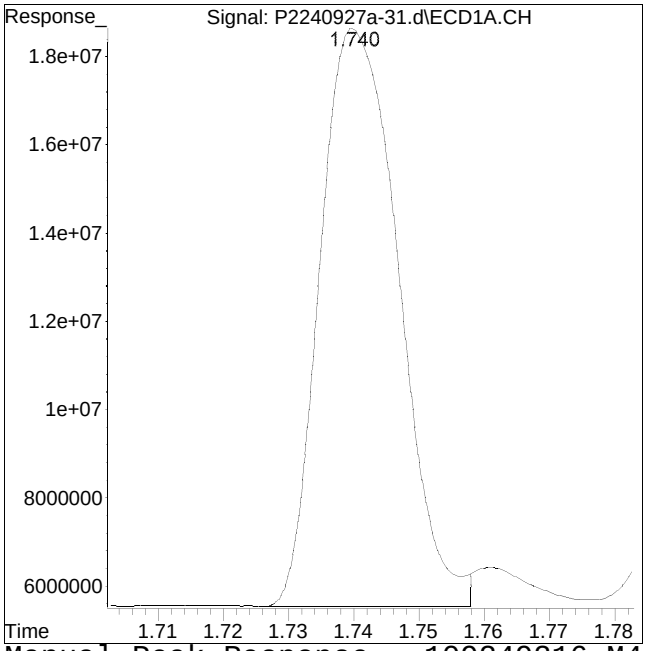
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #5: 1016-2



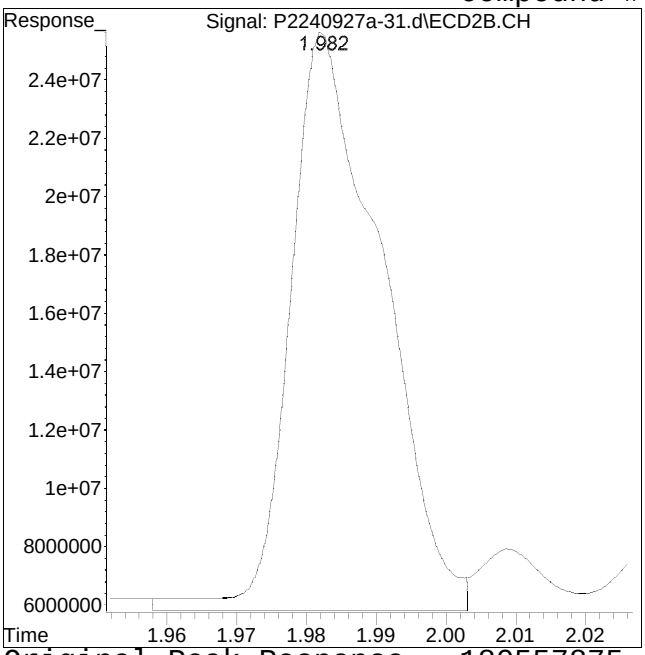


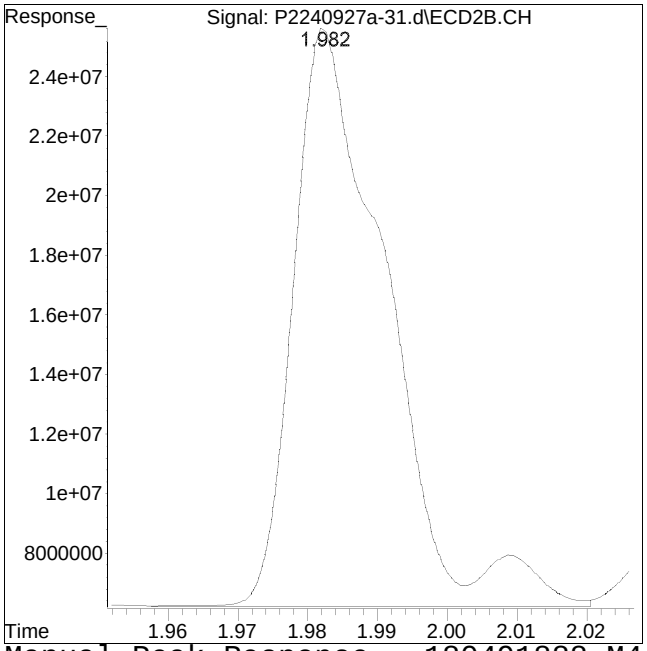
Original Peak Response = 114638575 Manual Peak Response = 109249216 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #56: 1016-2 #2



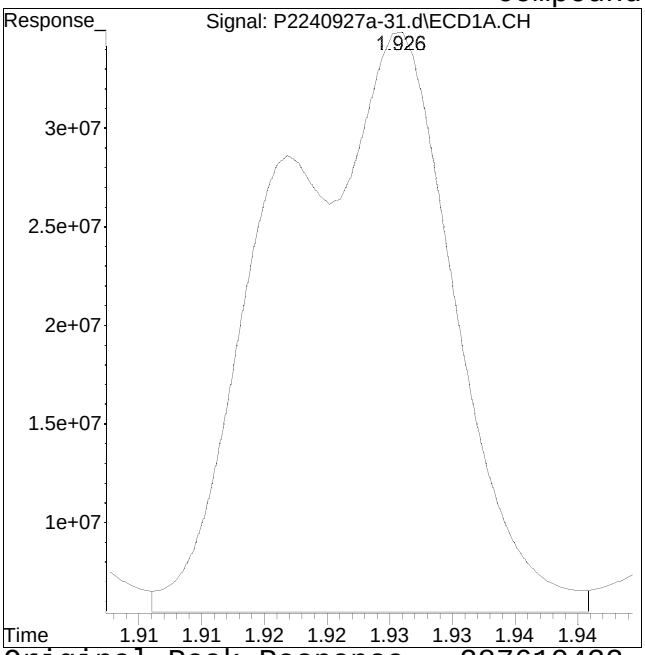


Original Peak Response = 180557875 Manual Peak Response = 180491888 M4
M4 = Poor automated baseline construction.

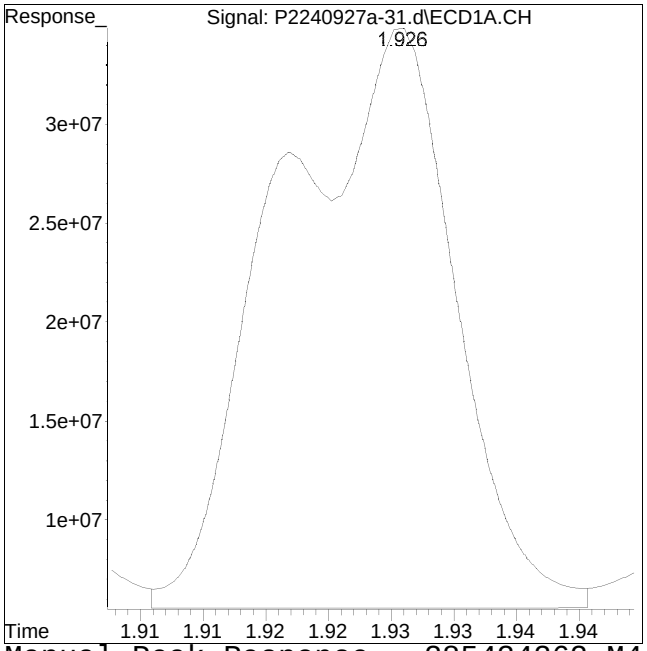
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #6: 1016-3



Original Peak Response = 287610432



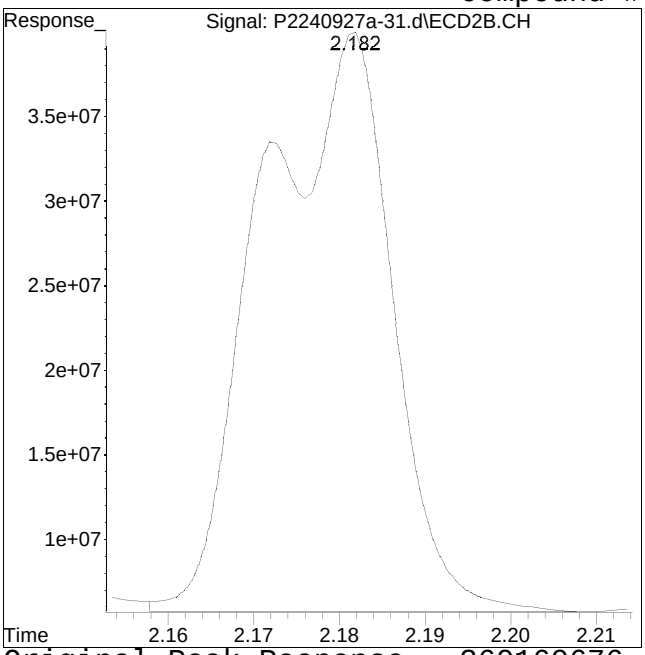
Manual Peak Response = 285434262 M4

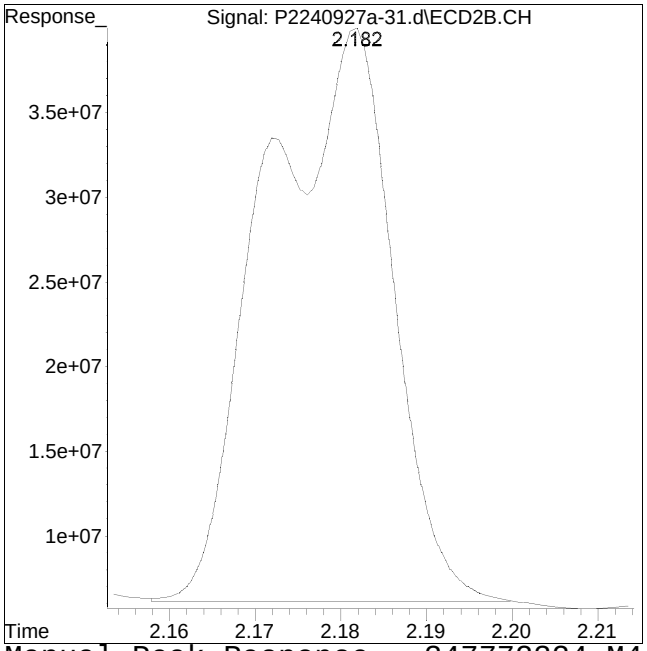
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #57: 1016-3 #2



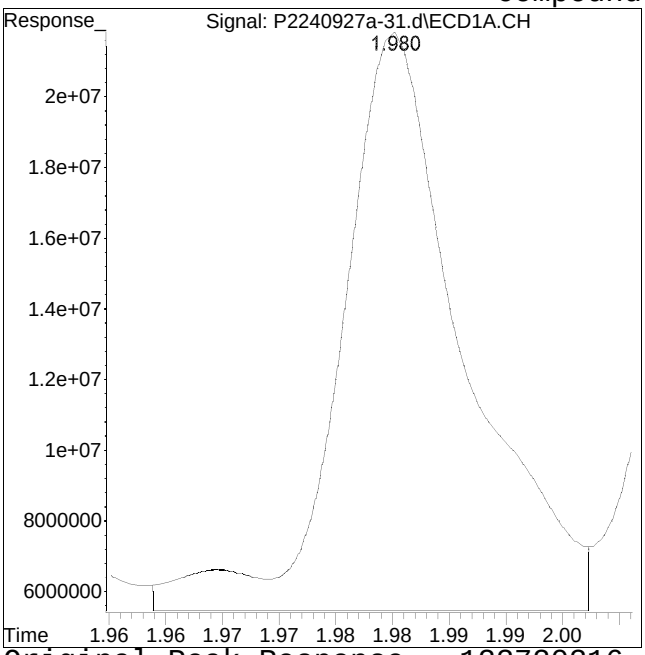


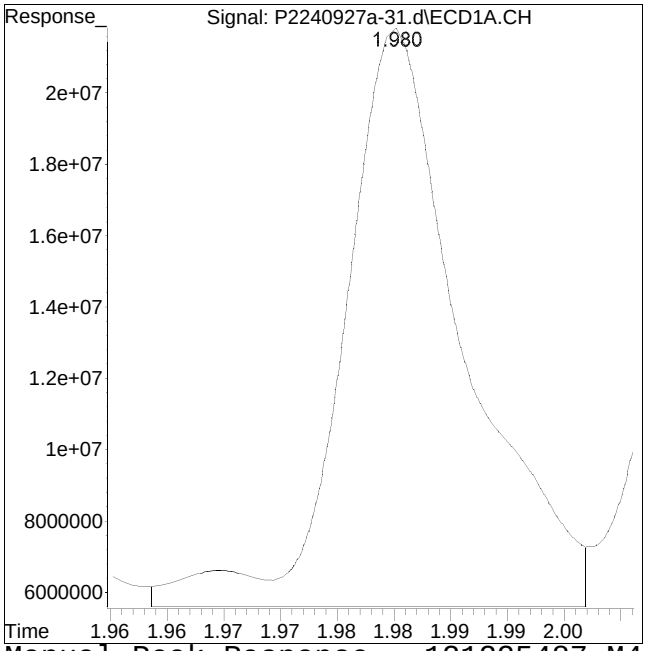
Original Peak Response = 360160676 Manual Peak Response = 347772324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #7: 1016-4



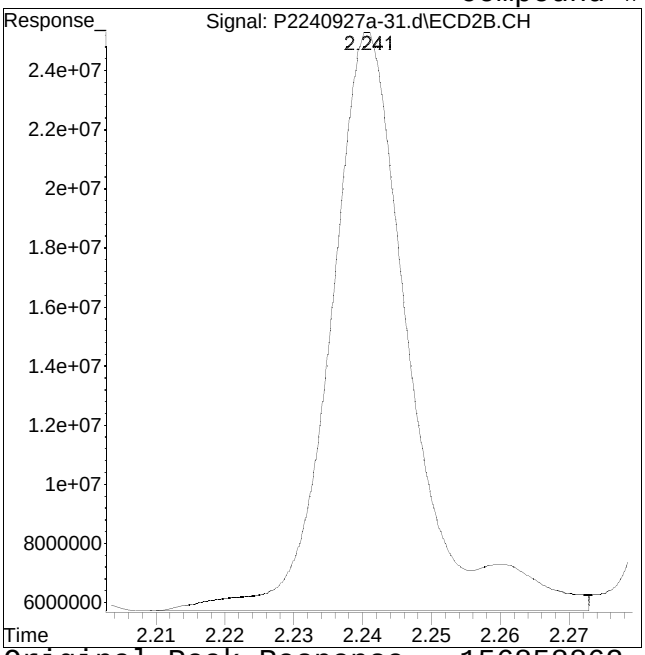


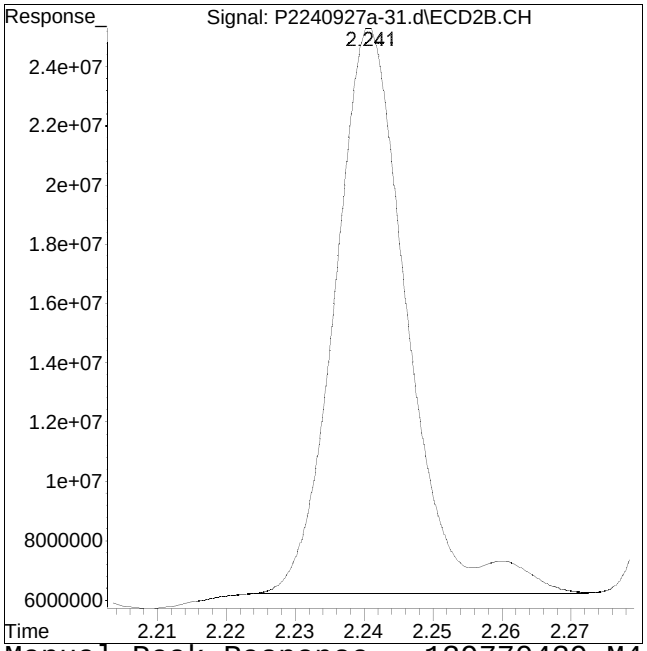
Original Peak Response = 123720316 Manual Peak Response = 121225487 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #58: 1016-4 #2



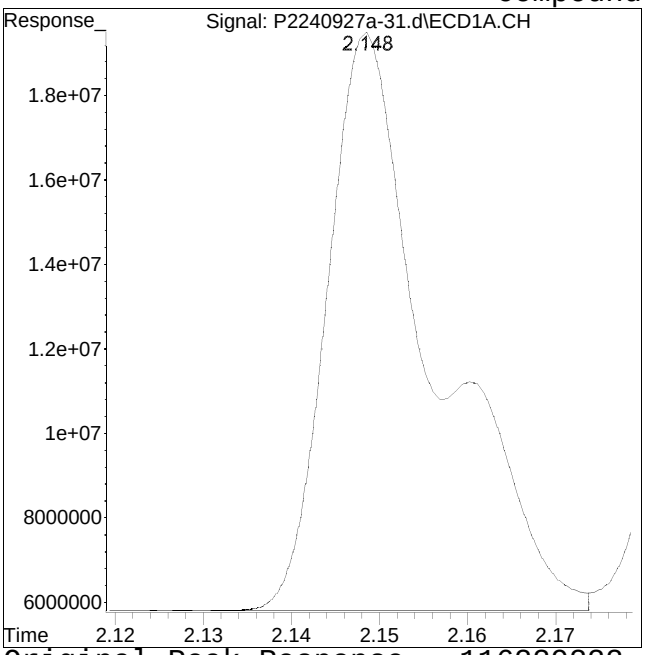


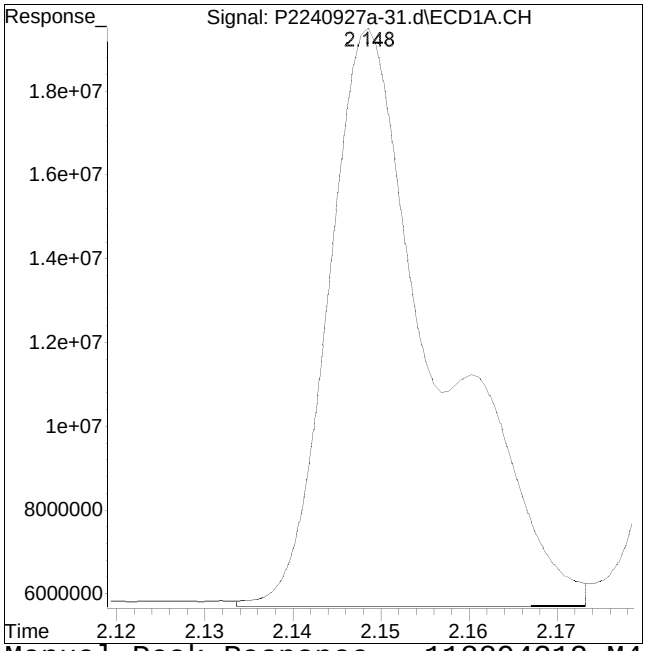
Original Peak Response = 156858862 Manual Peak Response = 139770439 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #8: 1016-5



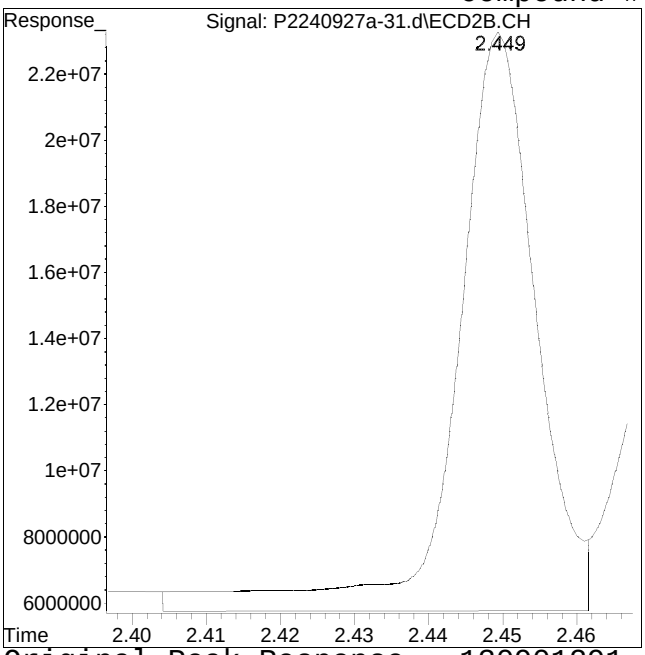


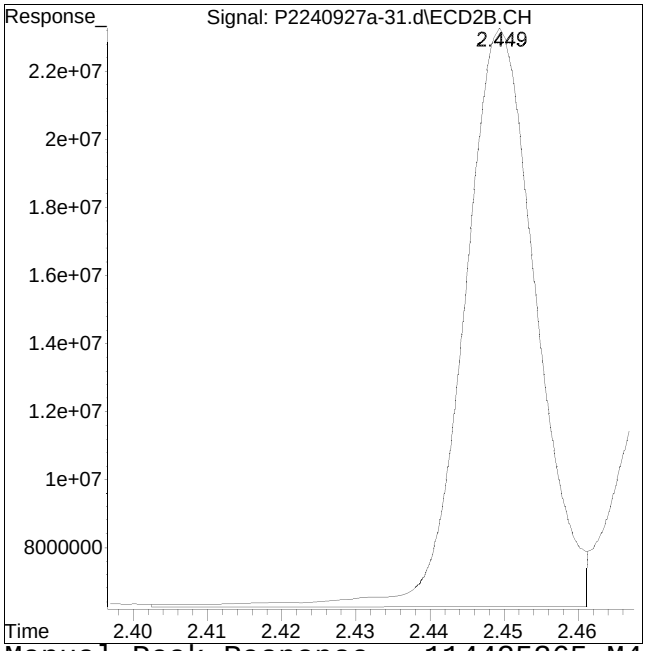
Original Peak Response = 116229222 Manual Peak Response = 118894212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #59: 1016-5 #2



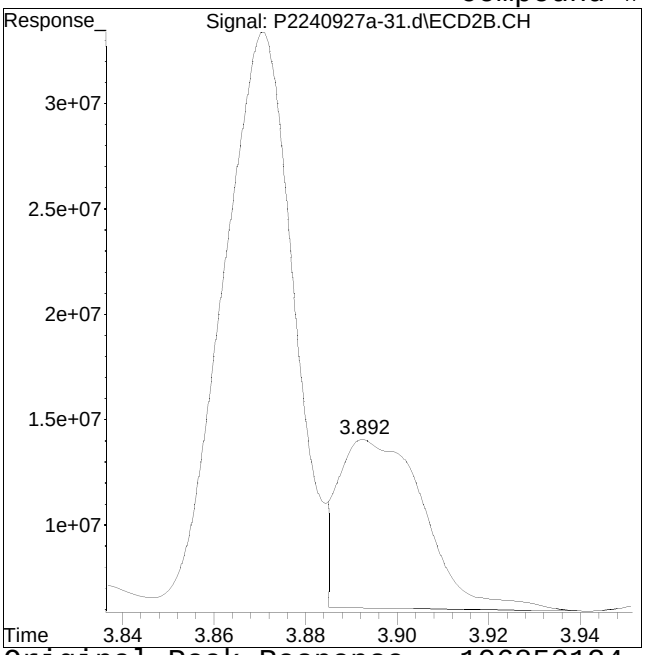


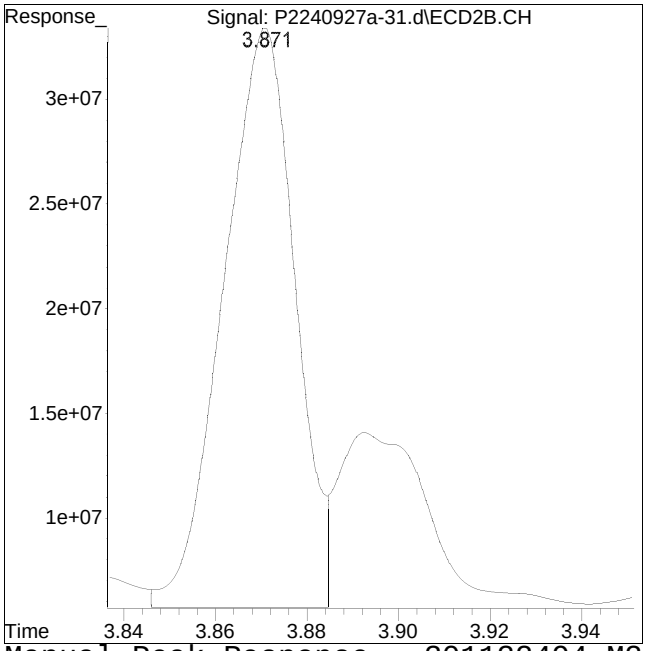
Original Peak Response = 130901291 Manual Peak Response = 114425365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\Q Method : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4 Quant Date : 9/27/2024 12:45 pm

Compound #64: 1260-5 #2





Original Peak Response = 106850124 Manual Peak Response = 301132494 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	112	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.412	2.7	109	0.00
3	s	Decachlorobiphenyl		1.154	1.072	7.1	114	-0.02
14	i	2154_1br2nb	^	1.000	1.000	0.0	111	0.00
15	l3	1221-1		0.015	0.014	6.7	104	0.00
16	l3	1221-2		0.00922	0.00820	11.1	99	0.00
17	l3	1221-3		0.037	0.034	8.1	103	0.00
18	l4	1254-1		0.052	0.052	0.0	111	0.00
19	l4	1254-2		0.093	0.098	-5.4	117	0.00
20	l4	1254-3		0.101	0.106	-5.0	116	0.00
21	l4	1254-4		0.071	0.074	-4.2	114	-0.01
22	l4	1254-5		0.099	0.094	5.1	106	-0.01
23	i	4268_1br2nb	^	1.000	1.000	0.0	118	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	116	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	115	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	125	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.314	19.8	106	0.00
3	s	Decachlorobiphenyl		1.101	0.878	20.3#	117	-0.03
14	i	2154_1br2nb	^	1.000	1.000	0.0	124	0.00
15	l3	1221-1		0.017	0.014	17.6	102	-0.01
16	l3	1221-2		0.01103	0.00912	17.3	103	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	l3	1221-3		0.040	0.033	17.5	101	-0.01
18	l4	1254-1		0.062	0.057	8.1	114	-0.02
19	l4	1254-2		0.073	0.063	13.7	107	-0.02
20	l4	1254-3		0.109	0.098	10.1	112	-0.02
21	l4	1254-4		0.073	0.065	11.0	112	-0.02
22	l4	1254-5		0.101	0.085	15.8	105	-0.03
23	i	4268_1br2nb	^	1.000	1.000	0.0	123	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	124	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	126	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.99#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2	0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#
Signal #2							
4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
11 l2	1260-3	0.079	0.000	100.0#	0#	-3.57#
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.46#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.19#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.25#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.17#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample   : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc   : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
14) i	2154_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
23) i	4268_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
34) i	1248_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
40) i	3262_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.462	1.615	216.6E6	257.9E6	15.567	12.834
	Spiked Amount 20.000	Range 30 - 150		Recovery =		77.83%	64.17%
3) s	Decachlorobi	4.011	4.513f	329.0E6	344.7E6	29.727	25.520
	Spiked Amount 20.000	Range 30 - 150		Recovery =		148.64%	127.60%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	1.524	1.728	33527799	43912935	233.887	205.450
16) l3	1221-2	1.582	1.786	19654447	27964564	222.269	206.667M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.599	1.813	81463741	100.0E6	230.356M3	203.886
Sum	1221-1			134.6E6	171.9E6	686.512	616.003
Average	1221-1					228.837	205.334
18) l4	1254-1	2.310	2.643f	125.8E6	174.9E6	249.912	229.140
19) l4	1254-2	2.422	2.728f	234.5E6	192.5E6	261.867	215.117
20) l4	1254-3	2.603	2.956f	253.6E6	299.4E6	261.158M1	224.876
21) l4	1254-4	2.732	3.066f	176.2E6	200.3E6	257.281	225.069
22) l4	1254-5	2.952	3.338f	226.4E6	260.8E6	239.301	210.923
Sum	1254-1			1016.5E6	1127.9E6	1269.518	1105.125
Average	1254-1					253.904	221.025
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

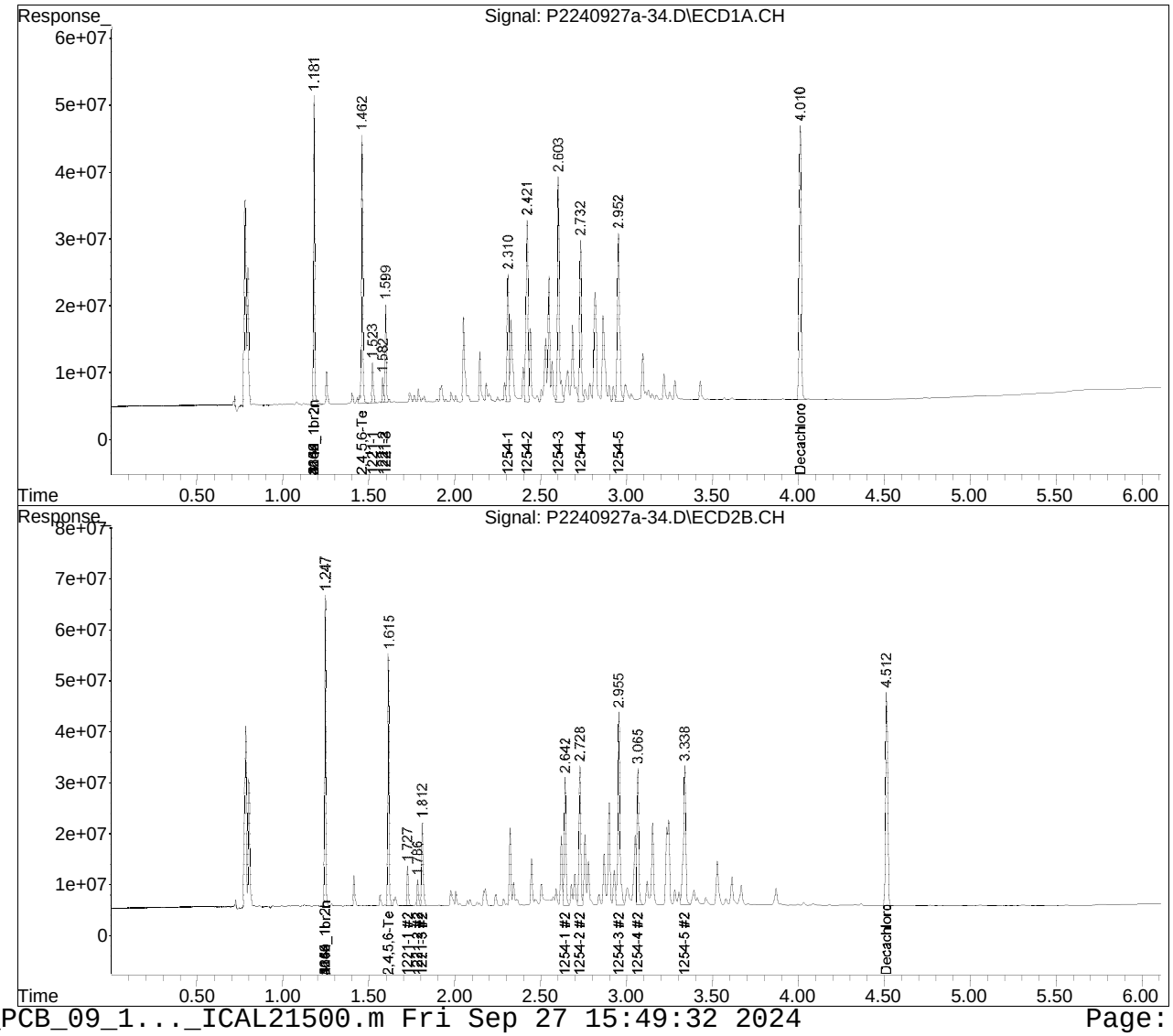
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,,
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

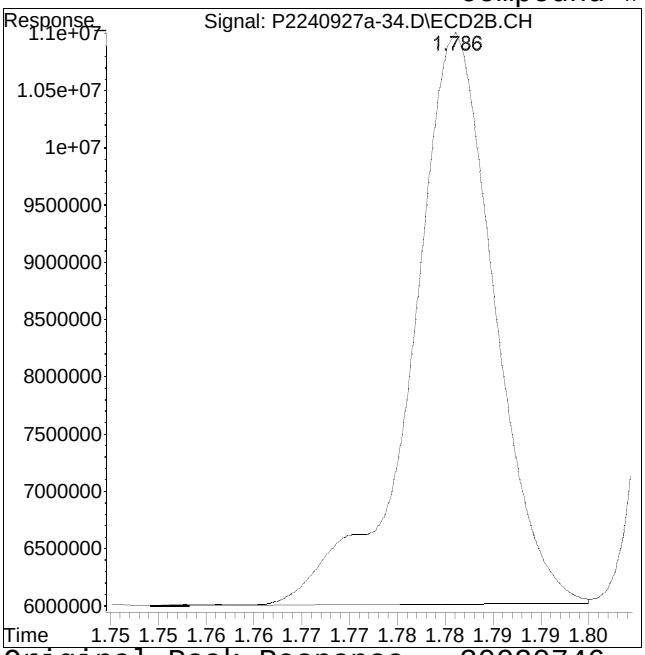
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

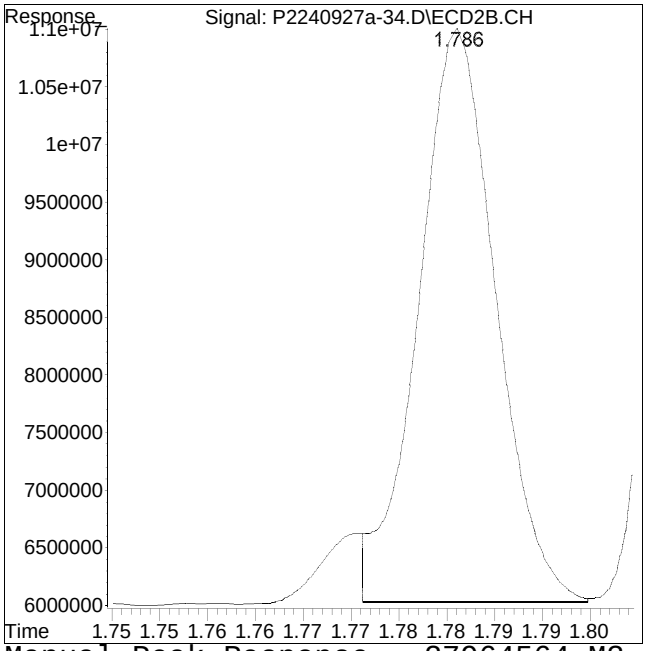


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-34.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 13:29 Instrument : Pest 2
Sample : WG1977023-6,42,,cicv2154,4Quant Date : 9/27/2024 1:42 pm

Compound #67: 1221-2 #2



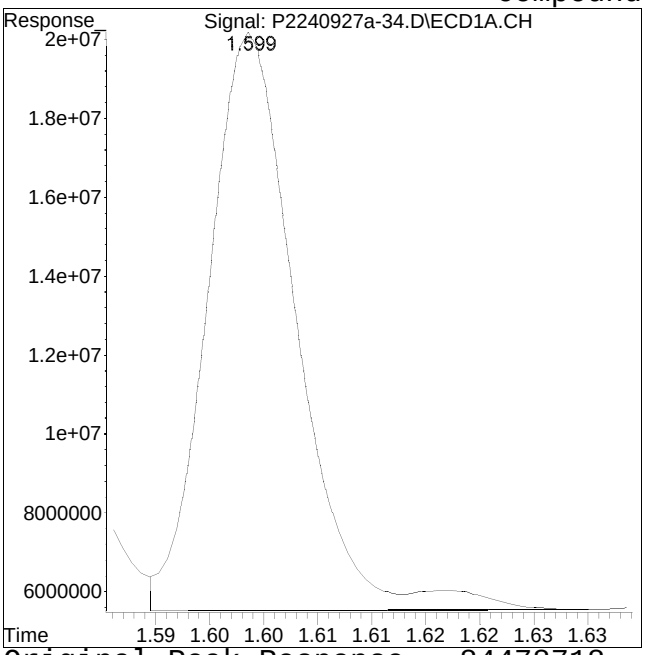


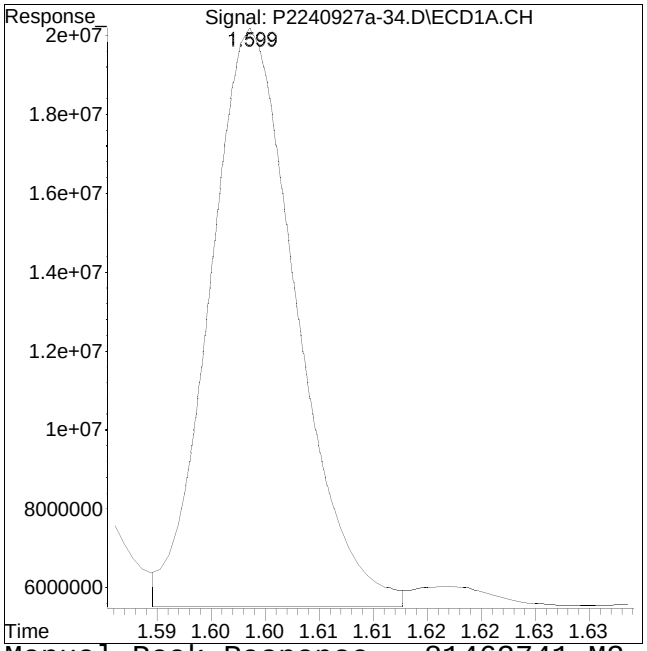
Original Peak Response = 30020746 Manual Peak Response = 27964564 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-34.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 13:29 Instrument : Pest 2
Sample : WG1977023-6,42,,cicv2154,4Quant Date : 9/27/2024 1:42 pm

Compound #17: 1221-3



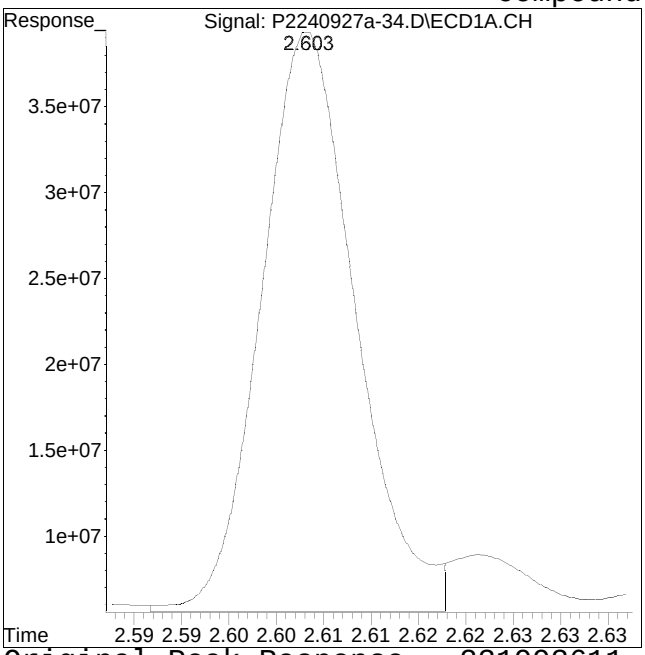


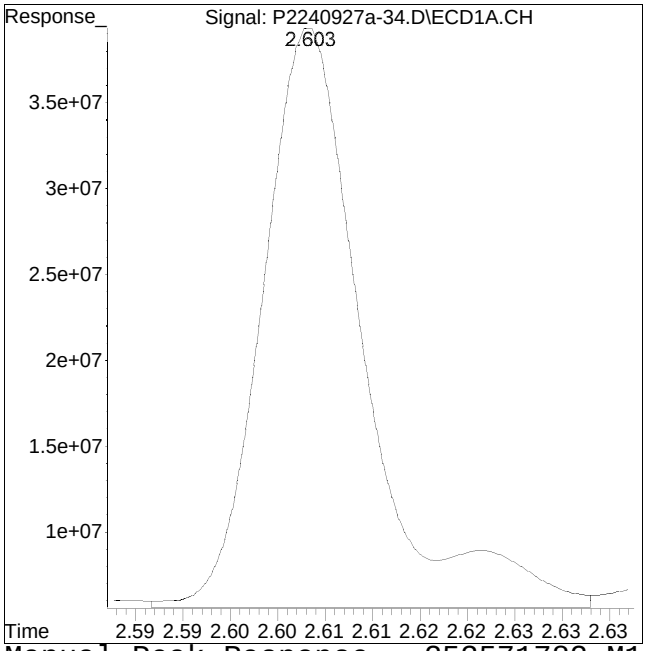
Original Peak Response = 84478718 Manual Peak Response = 81463741 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-34.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 13:29 Instrument : Pest 2
Sample : WG1977023-6,42,,cicv2154,4Quant Date : 9/27/2024 1:42 pm

Compound #20: 1254-3





Original Peak Response = 231993611 Manual Peak Response = 253571782 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 15:17
Operator : pest2:rmp
Sample : WG1976835-1,42,, rr
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:40:00 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
	Standard Area 1 : #1 = 187110407				Recovery =	129.18%	
	Standard Area 1 : #2 = 283066218				Recovery =	104.28%	
14) i	2154_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
23) i	4268_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
34) i	1248_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
40) i	3262_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.617	211.5E6	253.4E6	15.080	13.101
	Spiked Amount 20.000	Range 30 - 150			Recovery =	75.40%	65.50%
3) s	Decachlorobi	4.011	4.515	166.7E6	178.7E6	14.945M4	13.743
	Spiked Amount 20.000	Range 30 - 150			Recovery =	74.72%	68.72%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 15:17
Operator : pest2:rmp
Sample : WG1976835-1,42,, rr
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:40:00 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	2.312	2.645f	8757947	11192730	17.259	15.235
19) l4 1254-2	2.423	2.730f	13732903	12721808	15.215M4	14.770M3
20) l4 1254-3	2.604	2.958f	10780245	16533629	11.014M1	12.902
21) l4 1254-4	2.733	3.068f	6764075	8929425	9.795	10.428
22) l4 1254-5	2.953	3.341f	25564057	14220927	26.800	11.952M4
Sum 1254-1			65599227	63598518	80.083	65.287
Average 1254-1					16.017	13.057
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 15:17
Operator : pest2:rmp
Sample : WG1976835-1,42,, rr
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:40:00 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

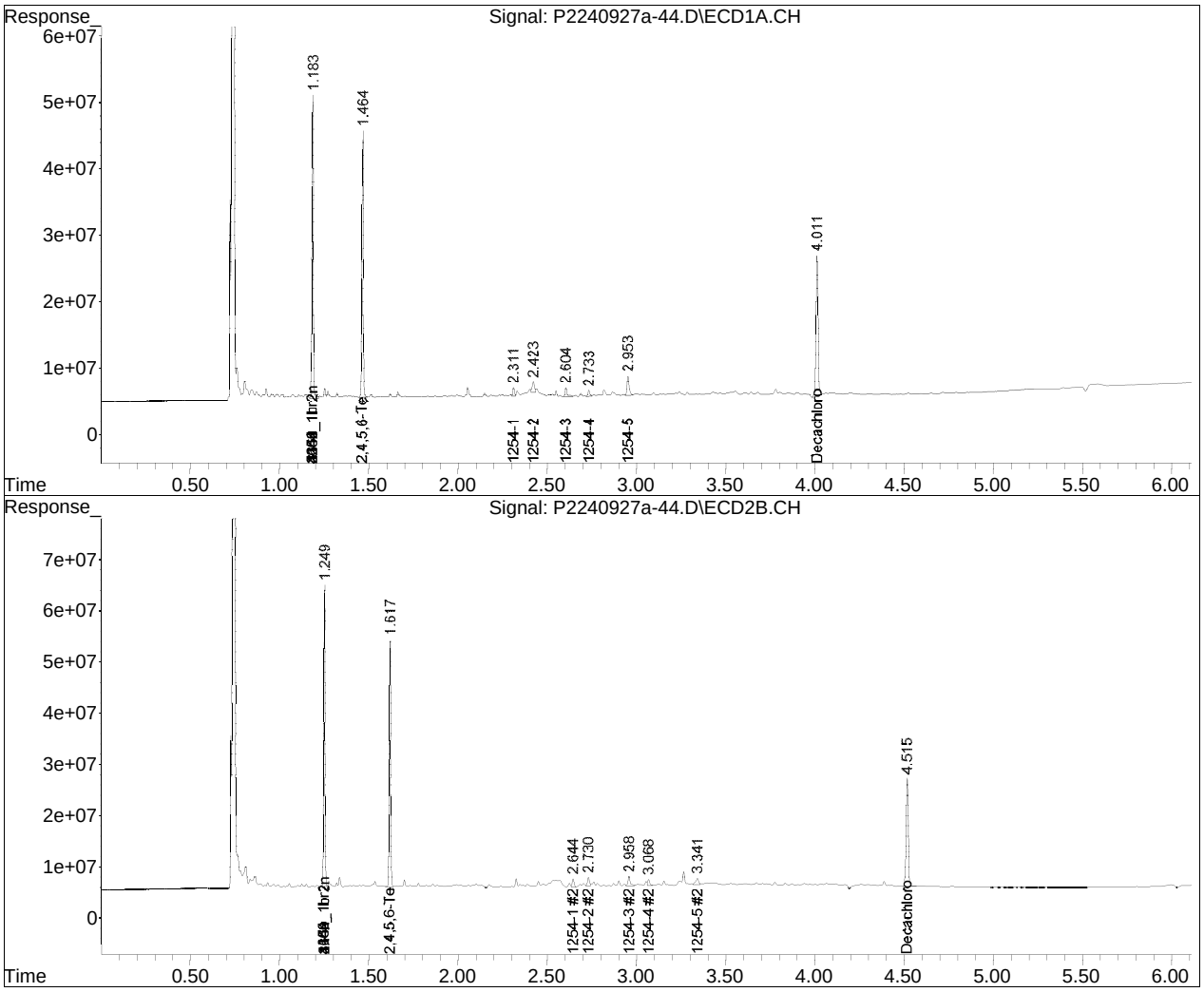
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240927a-31.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 15:17
Operator : pest2:rmp
Sample : WG1976835-1,42,, rr
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:40:00 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

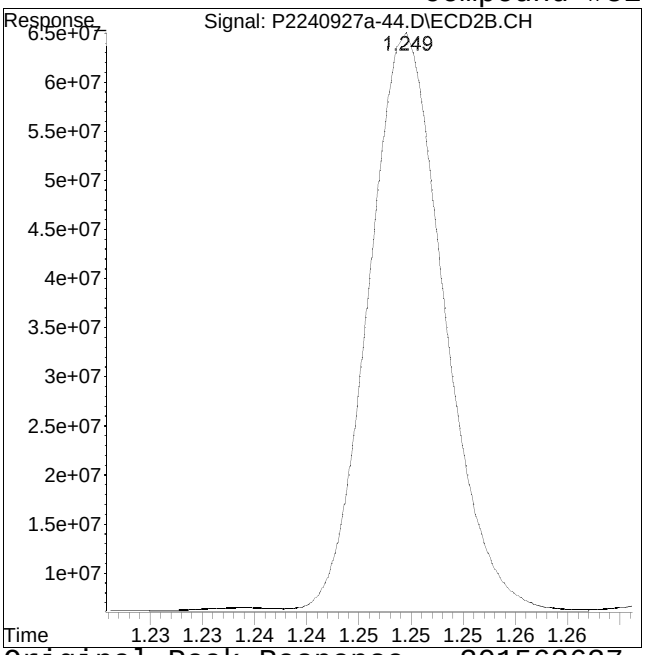
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

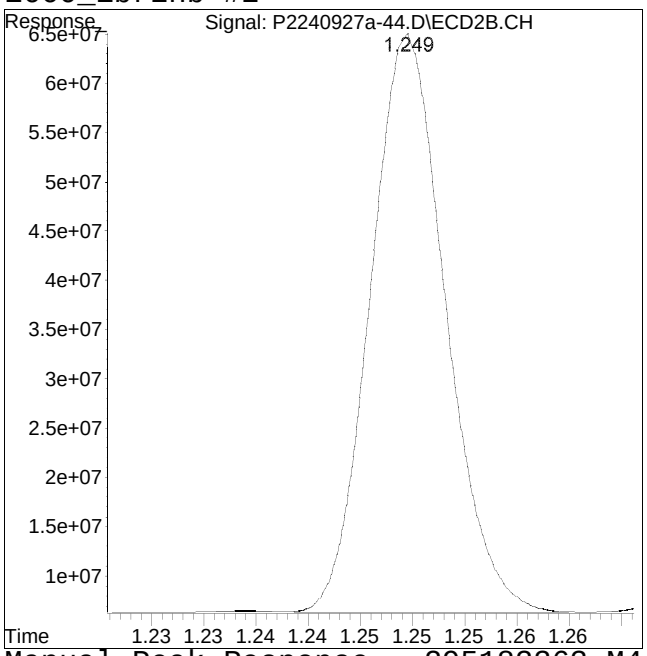


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #52: 1660_1br2nb #2



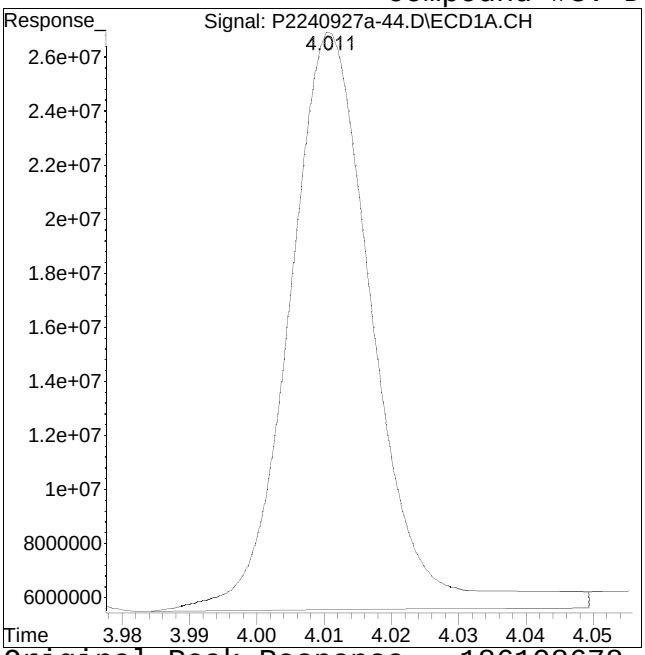


Original Peak Response = 301563637 Manual Peak Response = 295183363 M4
M4 = Poor automated baseline construction.

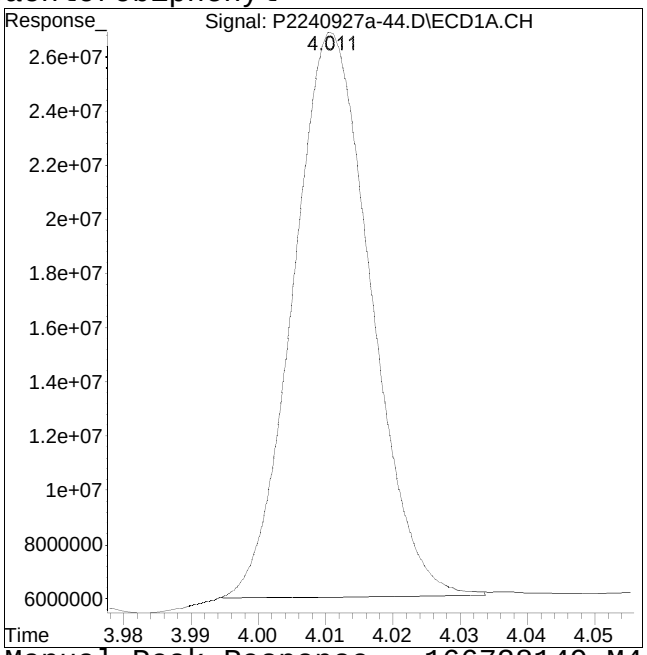
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 186108678



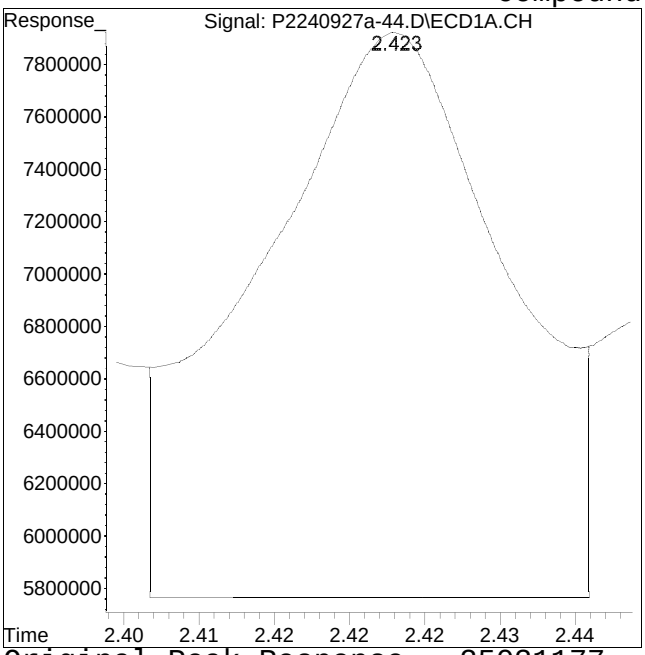
Manual Peak Response = 166728149 M4

M4 = Poor automated baseline construction.

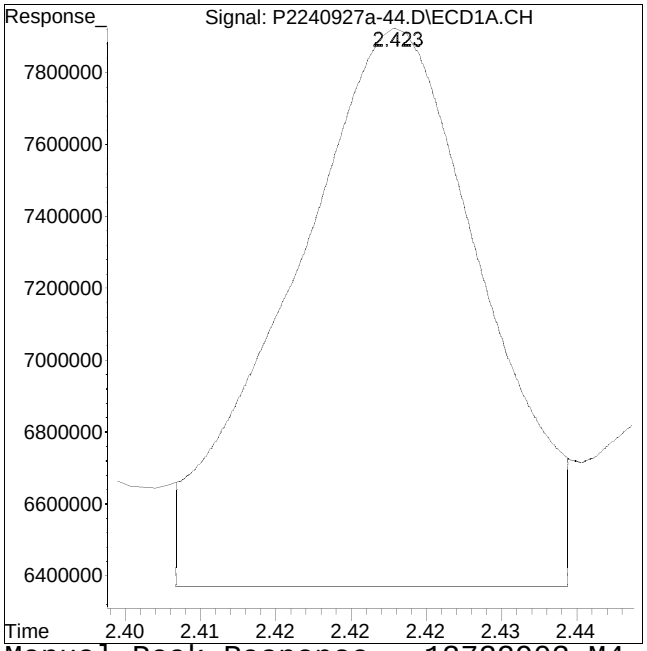
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #19: 1254-2



Original Peak Response = 25031177



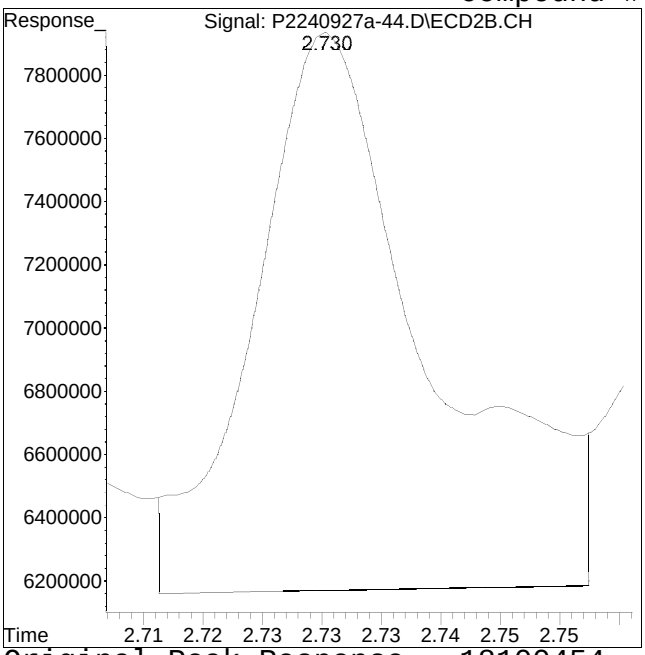
Manual Peak Response = 13732903 M4

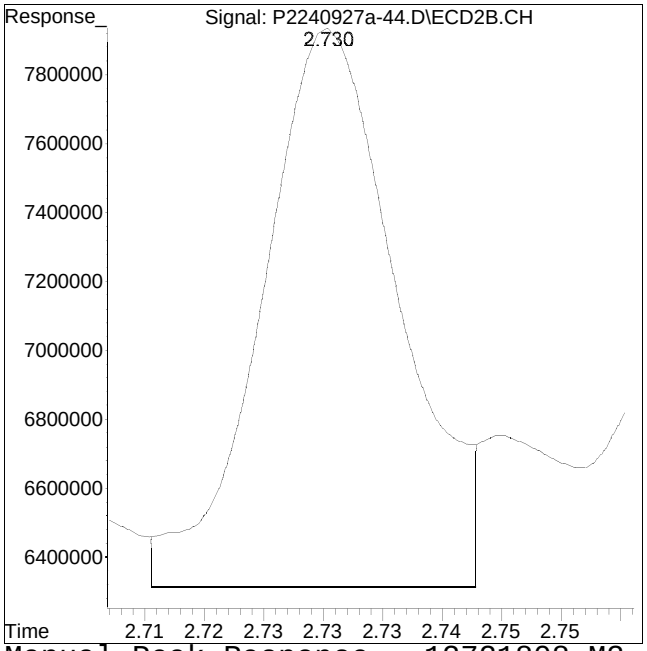
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #70: 1254-2 #2



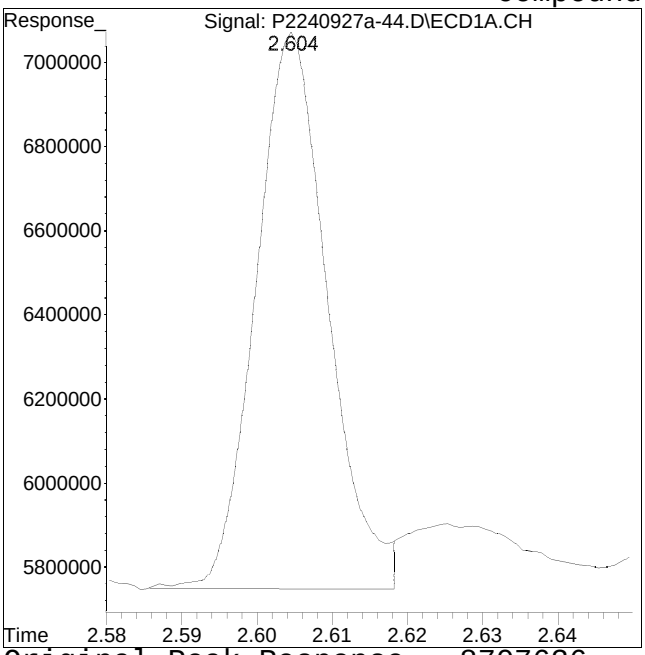


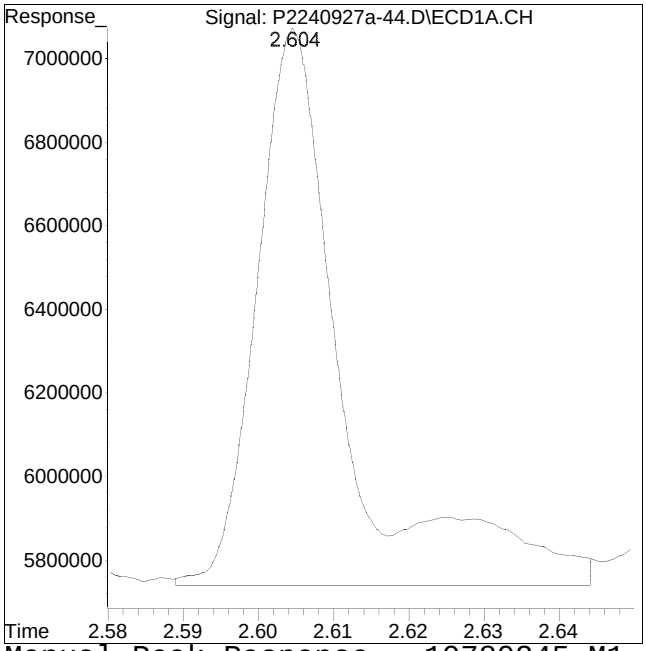
Original Peak Response = 18100454 Manual Peak Response = 12721808 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #20: 1254-3



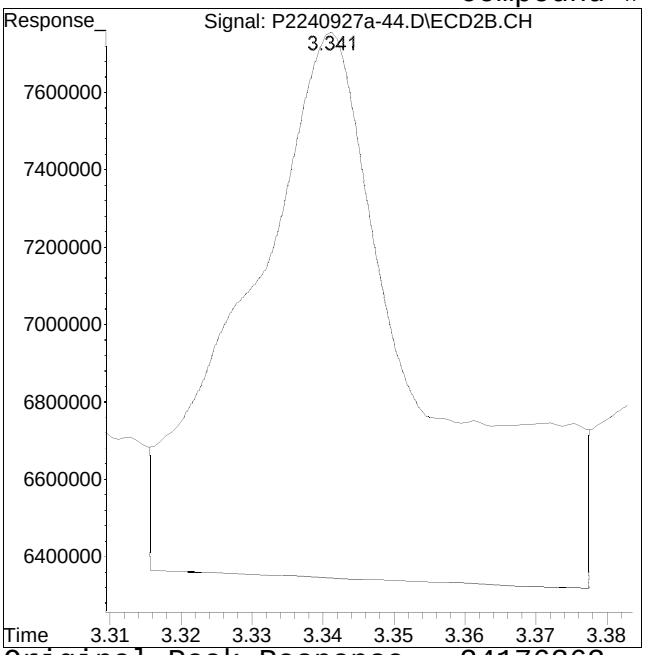


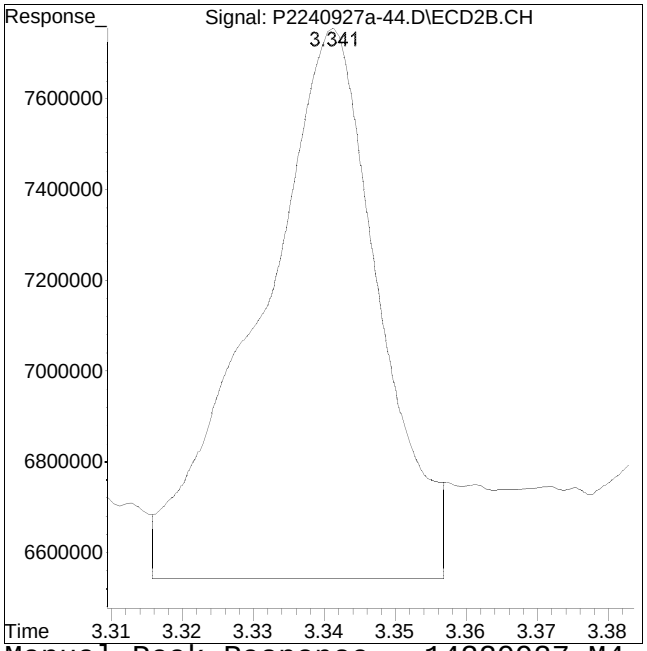
Original Peak Response = 8707636 Manual Peak Response = 10780245 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #73: 1254-5 #2





Original Peak Response = 24176363 Manual Peak Response = 14220927 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:23
Operator : pest2:mhg
Sample : WG1976835-2,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:22 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.181	1.246	238.3E6	291.4E6	25.000M3	25.000M3
Standard Area 1 : #1 = 197115243				Recovery = 120.87%		
Standard Area 1 : #2 = 286726193				Recovery = 101.64%		
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.461	1.614	220.2E6	256.3E6	15.926	13.420
Spiked Amount 20.000	Range 30 - 150		Recovery = 79.63%		67.10%	
3) s Decachlorobi	4.010	4.511f	186.9E6	192.5E6	16.992	14.998
Spiked Amount 20.000	Range 30 - 150		Recovery = 84.96%		74.99%	
Target Compounds						
4) l1 1016-1	1.598	1.812	47948085	58796928	186.010	167.097
5) l1 1016-2	1.737	1.980	110.0E6	133.7E6	196.027M3	175.602
6) l1 1016-3	1.924	2.178f	225.4E6	270.2E6	202.637	177.067
7) l1 1016-4	1.978	2.238f	95514174	107.9E6	203.794M1	175.279
8) l1 1016-5	2.147	2.446f	100.3E6	92524247	194.385	188.392
Sum 1016-1			579.2E6	663.2E6	982.853	883.437
Average 1016-1					196.571	176.687
9) l2 1260-1	2.685	3.049f	138.2E6	191.3E6	194.623	199.666
10) l2 1260-2	2.814	3.150f	216.1E6	202.3E6	200.260	178.774
11) l2 1260-3	3.128	3.538f	133.6E6	171.2E6	204.427	185.082
12) l2 1260-4	3.281	3.667f	301.1E6	338.4E6	209.903M3	186.818
13) l2 1260-5	3.428	3.866f	220.0E6	243.5E6	214.689M1	188.896
Sum 1260-1			1009.0E6	1146.6E6	1023.902	939.235
Average 1260-1					204.780	187.847
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:23
Operator : pest2:mhg
Sample : WG1976835-2,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:22 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

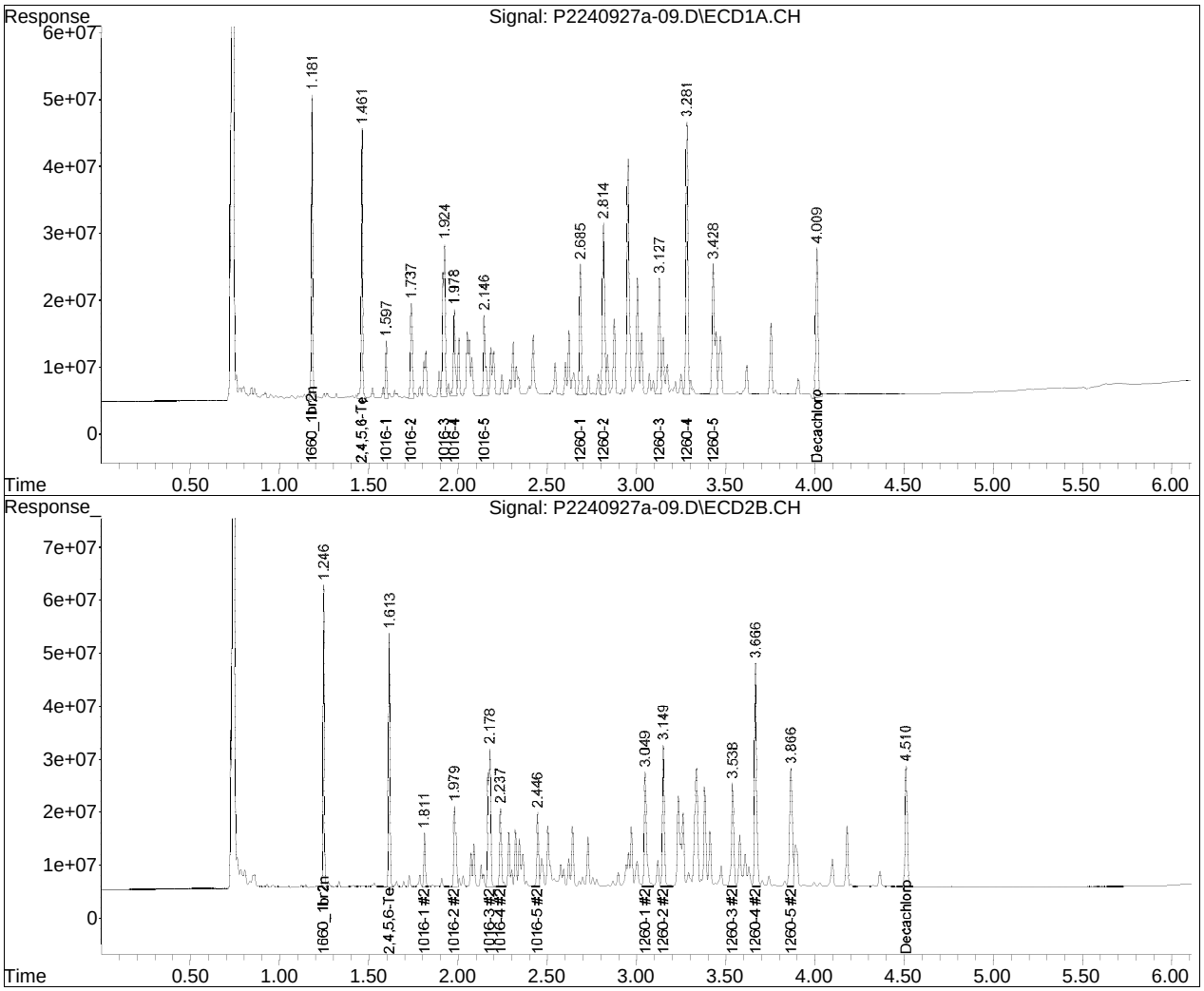
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240927A\P2240927a-04.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:23
Operator : pest2:mhg
Sample : WG1976835-2,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:22 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

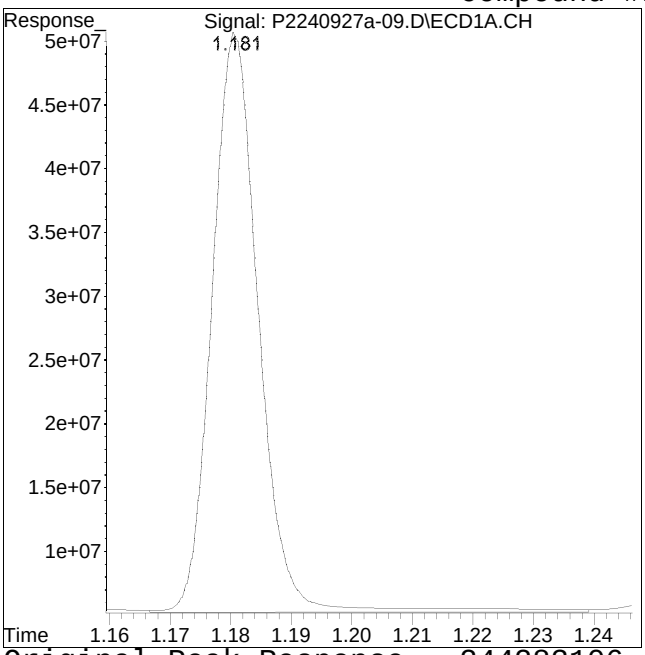
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

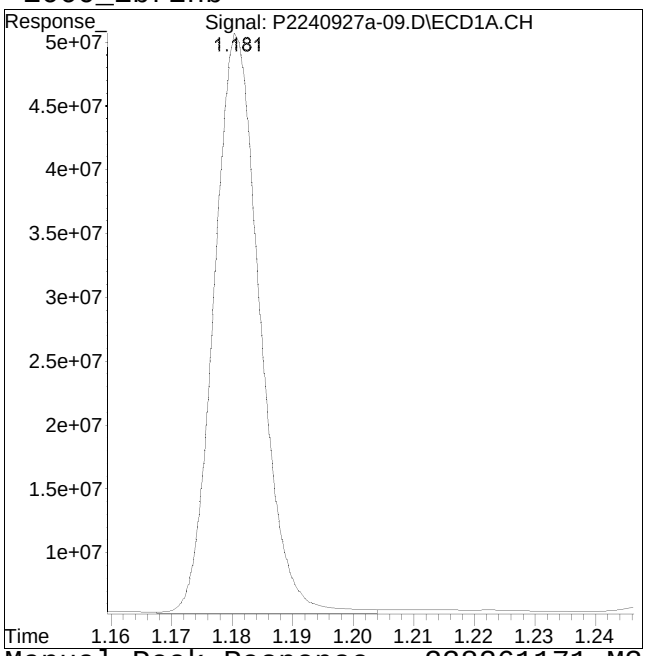


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #1: 1660_1br2nb



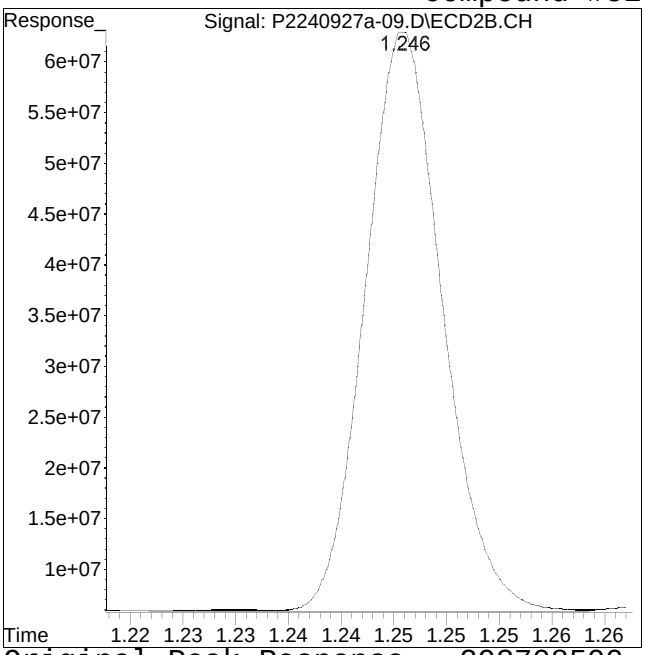


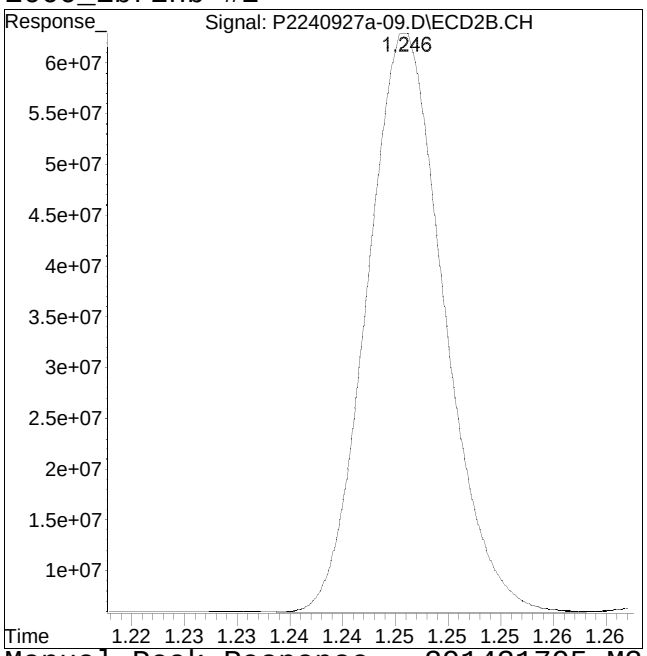
Original Peak Response = 244283106 Manual Peak Response = 238261171 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #52: 1660_1br2nb #2





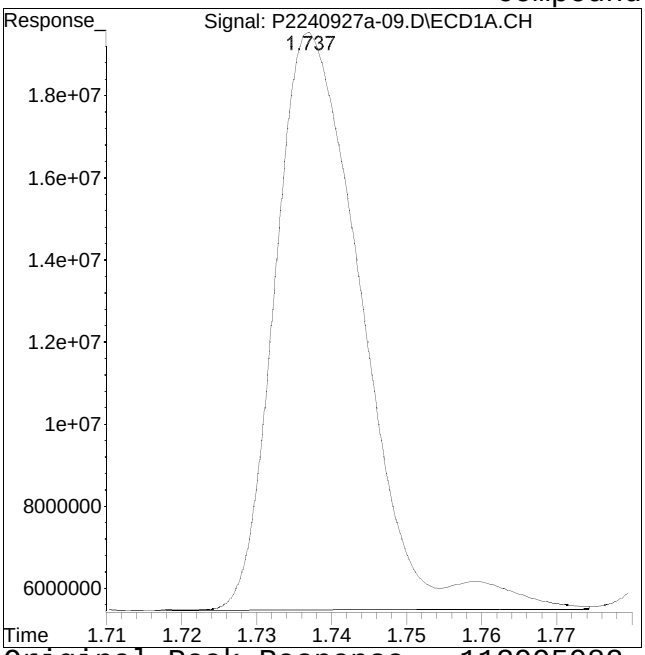
Original Peak Response = 293708500 Manual Peak Response = 291431795 M3

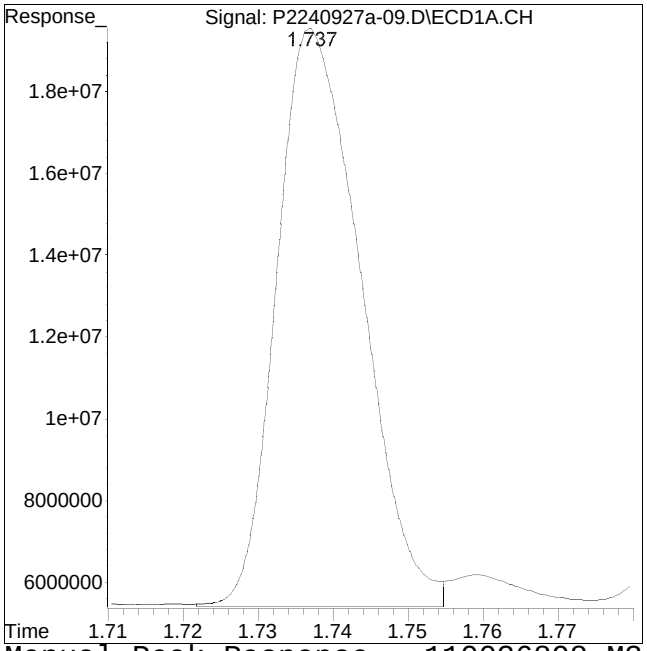
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #5: 1016-2



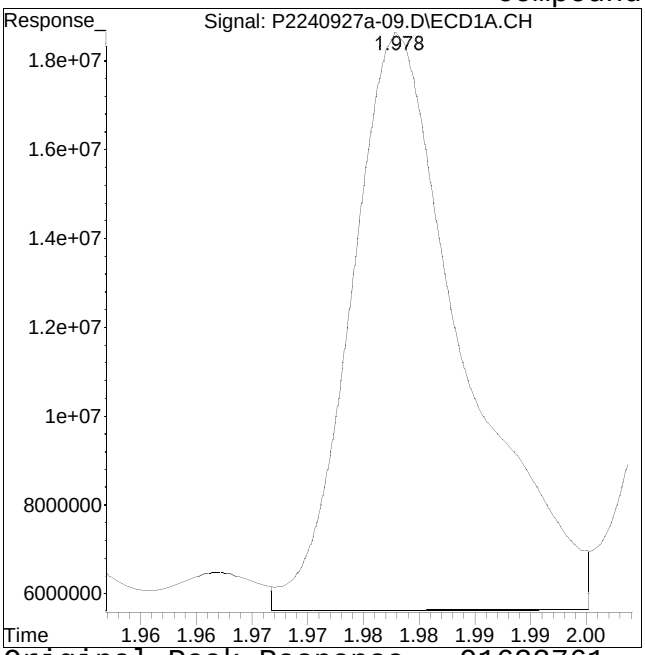


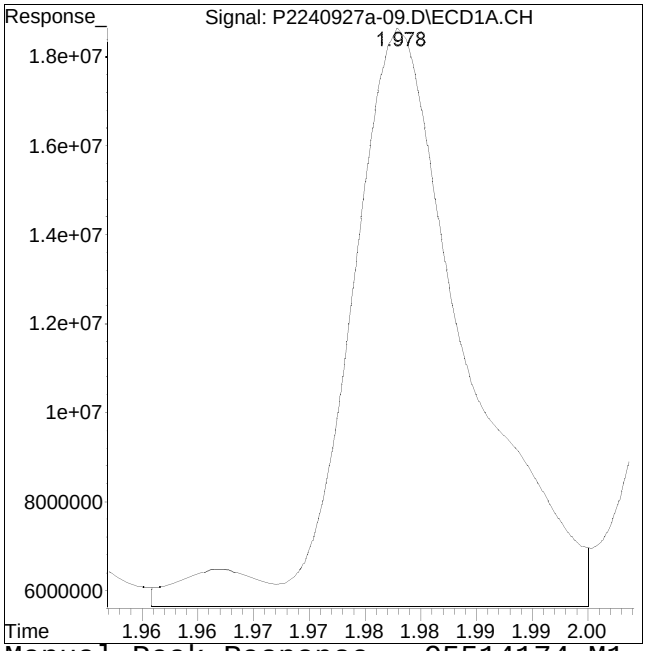
Original Peak Response = 112995982 Manual Peak Response = 110036898 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #7: 1016-4



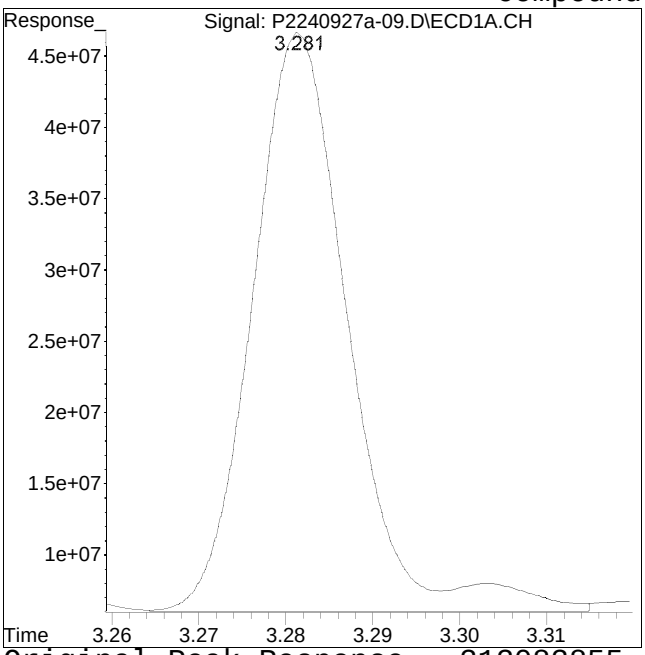


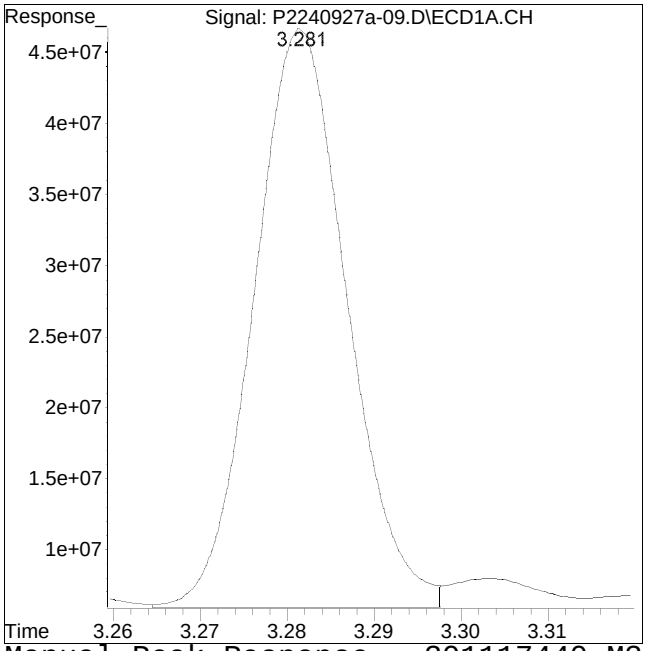
Original Peak Response = 91632761 Manual Peak Response = 95514174 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #12: 1260-4



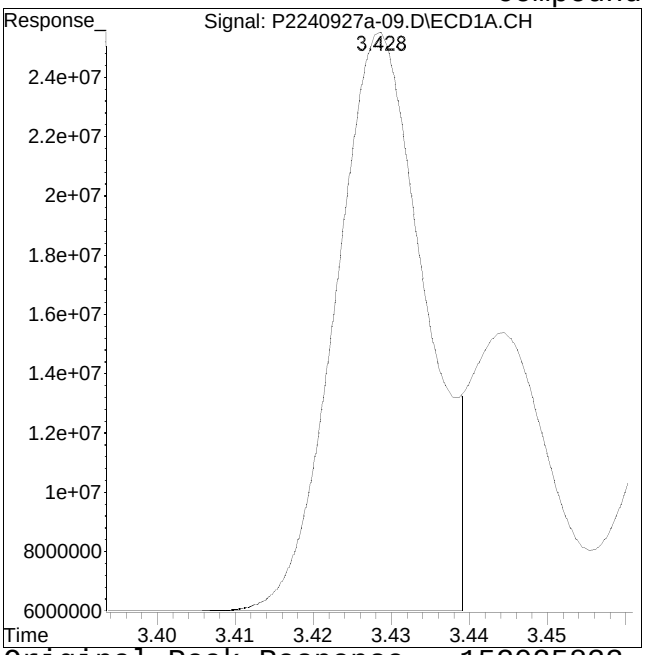


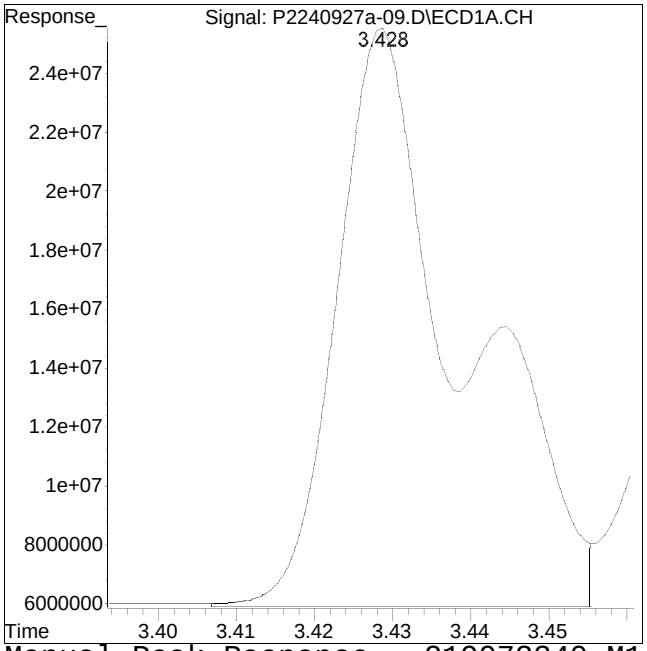
Original Peak Response = 313083855 Manual Peak Response = 301117440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #13: 1260-5





Original Peak Response = 152025833 Manual Peak Response = 219973340 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:32
Operator : pest2:mhg
Sample : WG1976835-3,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:26 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.182	1.247	235.8E6	285.5E6	25.000	25.000
Standard Area 1 : #1 = 197115243				Recovery =	119.64%	
Standard Area 1 : #2 = 286726193				Recovery =	99.57%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.462	1.615	218.9E6	252.5E6	15.997	13.494
Spiked Amount 20.000	Range 30 - 150		Recovery =	79.98%	67.47%	
3) s Decachlorobi	4.009	4.512f	183.8E6	185.1E6	16.883	14.719
Spiked Amount 20.000	Range 30 - 150		Recovery =	84.41%	73.59%	
Target Compounds						
4) l1 1016-1	1.598	1.812	48855268	60239345	191.478	174.751
5) l1 1016-2	1.737	1.981	109.7E6	137.4E6	197.482	184.178
6) l1 1016-3	1.924	2.180	228.8E6	273.2E6	207.810	182.745
7) l1 1016-4	1.978	2.239f	100.8E6	105.4E6	217.327	174.822
8) l1 1016-5	2.146	2.447f	107.8E6	90999275	210.966	189.134
Sum 1016-1			596.0E6	667.3E6	1025.062	905.629
Average 1016-1					205.012	181.126
9) l2 1260-1	2.685	3.050f	138.0E6	183.9E6	196.311	195.993
10) l2 1260-2	2.814	3.151f	216.3E6	194.2E6	202.458	175.177
11) l2 1260-3	3.127	3.540f	132.8E6	166.3E6	205.325	183.497
12) l2 1260-4	3.281f	3.668f	295.4E6	325.7E6	208.057	183.545
13) l2 1260-5	3.428f	3.868f	218.8E6	254.3E6	215.756M1	201.382M2
Sum 1260-1			1001.3E6	1124.4E6	1027.906	939.594
Average 1260-1					205.581	187.919
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:32
Operator : pest2:mhg
Sample : WG1976835-3,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:26 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

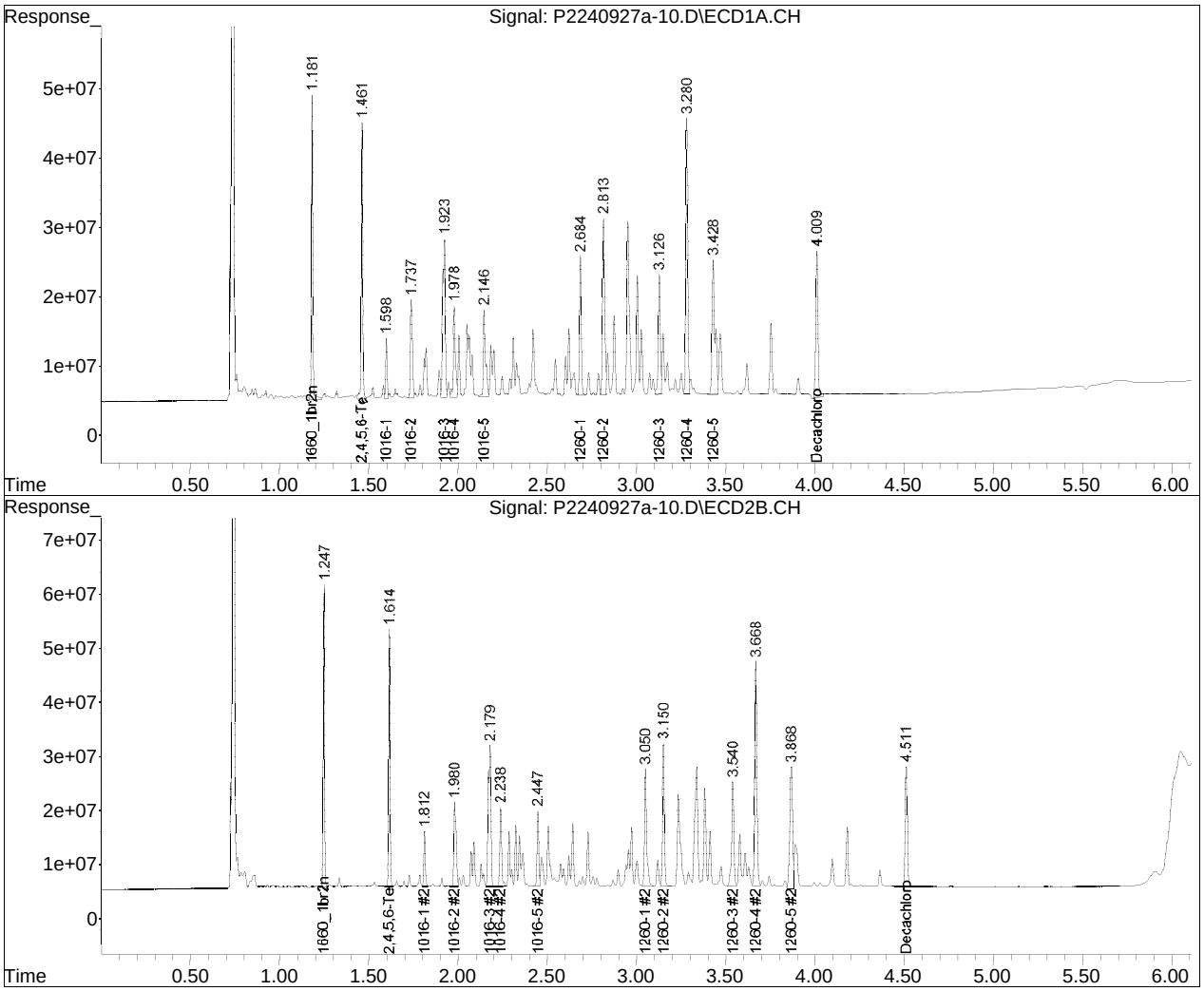
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240927A\P2240927a-04.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:32
Operator : pest2:mhg
Sample : WG1976835-3,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:26 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

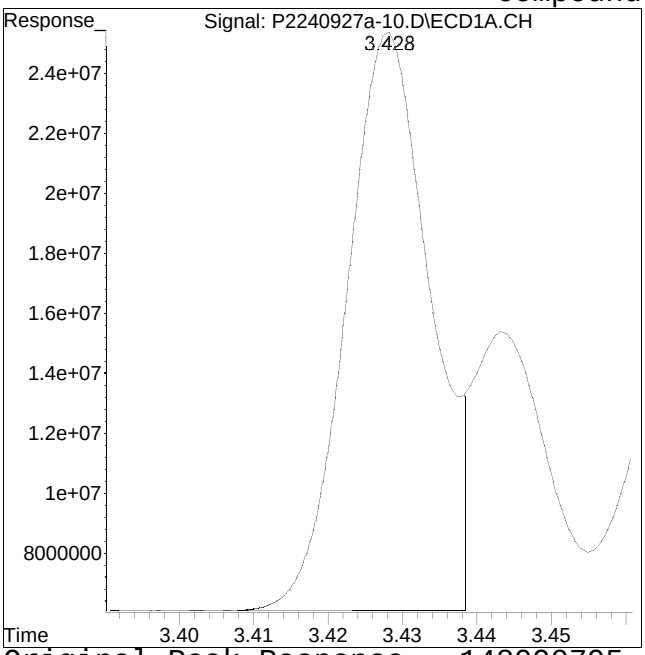
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

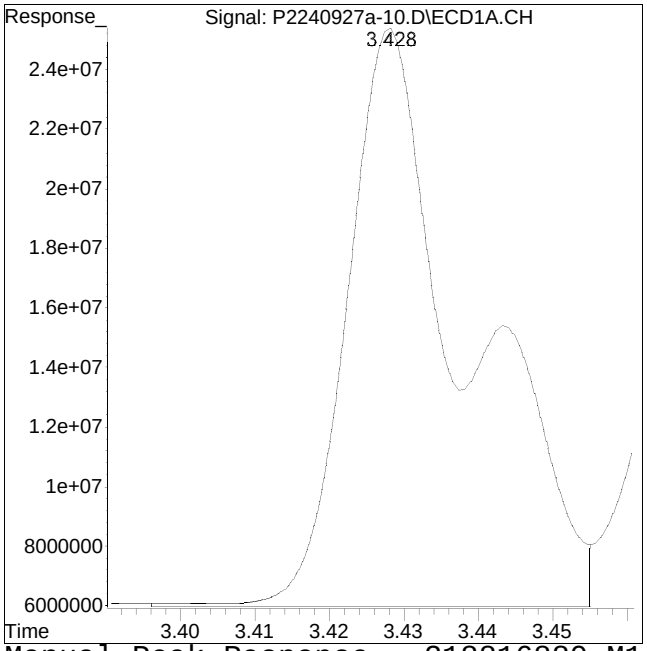


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-10.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:32 Instrument : Pest 2
Sample : WG1976835-3,42,, Quant Date : 9/27/2024 8:10 am

Compound #13: 1260-5



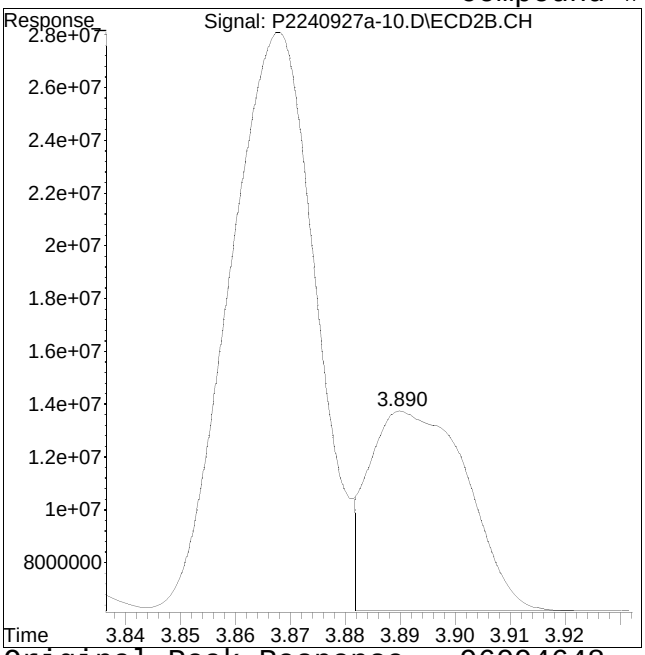


Original Peak Response = 148090795 Manual Peak Response = 218816880 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

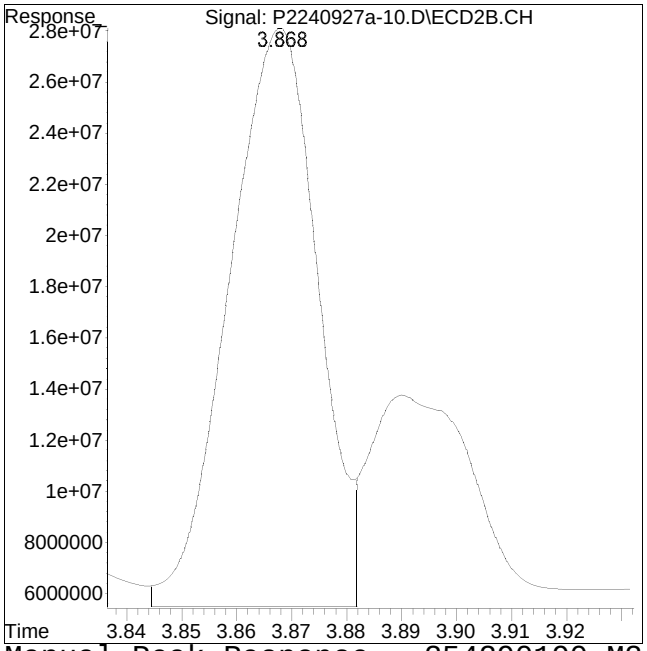
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-10.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:32 Instrument : Pest 2
Sample : WG1976835-3,42,, Quant Date : 9/27/2024 8:10 am

Compound #64: 1260-5 #2



Original Peak Response = 96094648



Manual Peak Response = 254290190 M2

M2 = Peak not found by automatic integration algorithm.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **09/16/24**
Run: I

Method: 8082
GC: PCB RVT

Seq: ICAL21500
IS: pp11660
WG1972777

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240916i-01	blk				
1	P2240916i-02	blk				
1	P2240916i-03	blk				
1	P2240916i-04	blk				
1	P2240916i-05	blk				
2	P2240916i-06	il11660,42,,pp11790 4PPB				kab/sdc 9/17
3	P2240916i-07	il21660,42,,pp11790 10PPB				kab/sdc 9/17
4	P2240916i-08	il31660,42,,pp11790 20PPB				kab/sdc 9/17
5	P2240916i-09	il41660,42,,pp11790 30PPB				kab/sdc 9/17
6	P2240916i-10	il51660,42,,pp11790 40PPB				kab/sdc 9/17
7	P2240916i-11	il61660,42,,pp11790 50PPB				kab/sdc 9/17
8	P2240916i-12	il71660,42,,pp11790 100PPB				kab/sdc 9/17
9	P2240916i-13	il81660,42,,pp11790 250PPB				kab/sdc 9/17
10	P2240916i-14	il91660,42,,pp11790 500PPB				kab/sdc 9/17
11	P2240916i-15	il101660,42,,pp11790 1000PPB				kab/sdc 9/17
12	P2240916i-16	cicv1660,42,, ICV 250 pp11765				kab/sdc 9/17
1	P2240916i-17	instrument blank				kab/sdc 9/17
31	P2240916i-18	L8 RVT 2154 250 pp11766				kab/sdc 9/17
32	P2240916i-19	L8 RVT 1248 250 pp11767				kab/sdc 9/17
33	P2240916i-20	L8 RVT 3262 250 pp11768				kab/sdc 9/17
34	P2240916i-21	L8 RVT 4268 250 pp11769				kab/sdc 9/17
41	P2240916i-22	2154 ICV 250 pp11770				kab/sdc 9/17
42	P2240916i-23	1248 ICV 250 pp11771				kab/sdc 9/17
43	P2240916i-24	3262 ICV 250 pp11773				kab/sdc 9/17
44	P2240916i-25	4268 ICV 250 pp11772				kab/sdc 9/17

Dep.: PCB
Inst: Pest_2
Date: **09/27/24**
Run: a

Method: 8082
GC: PCB RVT

Seq: WG1977023
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240927a-01	blk				
1	P2240927a-02	blk				
1	P2240927a-03	blk				
4	P2240927a-04	cicv1660,42,, lvi pp11776	20% 5:57 023-1 akm			mhg 9/27
5	P2240927a-05	cicv2154,42,, lvi pp11761	low			
6	P2240927a-06	cicv1248,42,, lvi pp11740	15%.			
7	P2240927a-07	cicv4268,42,, lvi pp11775	15%.			
8	P2240927a-08	WG1976835-1,42,,	hit of 54 rr for 54	mhg		
9	P2240927a-09	WG1976835-2,42,,				rmp 9/27
10	P2240927a-10	WG1976835-3,42,,				rmp 9/27
11	P2240927a-11	L2454092-01,42,, p				rmp 9/27
12	P2240927a-12	WG1976835-4,42,, ms				rmp 9/27
13	P2240927a-13	WG1976835-5,42,, msd				rmp 9/27
14	P2240927a-14	L2454092-02,42,,	hit of 54 rex			
15	P2240927a-15	L2454092-03,42,,				rmp 9/27
16	P2240927a-16	L2454092-05,42,,				rmp 9/27
17	P2240927a-17	L2453869-04,42,,	hit of 54 rr			
18	P2240927a-18	L2454087-01,42,,			akm	mhg 9/27
19	P2240927a-19	blk				
19	P2240927a-20	blk				
20	P2240927a-21	blk				
21	P2240927a-22	cicv1660,42,, lvi pp11776				
22	P2240927a-23	blk				
23	P2240927a-24	cicv2154,42,, lvi pp11761				
24	P2240927a-25	cicv1248,42,, lvi pp11740				
25	P2240927a-26	cicv4268,42,, lvi pp11775				
26	P2240927a-27	cicv4268,42,, lvi pp11775 rr				
27	P2240927a-28	blk				
27	P2240927a-29	blk				
27	P2240927a-30	blk				
30	P2240927a-31	cicv1660,42,, lvi pp11776	20% 12:25 rmp			rmp 9/27
31	P2240927a-32	blank				
31	P2240927a-33	blank				
33	P2240927a-34	cicv2154,42,, lvi pp11761	pass			rmp 9/27
34	P2240927a-35	cicv1248,42,, lvi pp11740	pass			
35	P2240927a-36	cicv4268,42,, lvi pp11775	fail			
37	P2240927a-37	WG1977038-1,42,,	hit of 54			rmp 9/27
38	P2240927a-38	WG1977038-2,42,,				rmp 9/27
39	P2240927a-39	WG1977038-3,42,,				rmp 9/27
40	P2240927a-40	L2454153-81,42,,,R3B	54, re-ex			
41	P2240927a-41	L2454153-82,42,,,R3B				rmp 9/27
42	P2240927a-42	L2454153-83,42,,,R3B	54, re-ex			
43	P2240927a-43	L2454153-84,42,,,R3B	54, re-ex			
44	P2240927a-44	WG1976835-1,42,, rr				rmp 9/27

Dep.: PCB
Inst: Pest_2
Date: **09/27/24**
Run: a

Method: 8082
GC: PCB RVT

Seq: WG1977023
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
45	P2240927a-45	L2455026-01,42,,,R1C				rmp 9/27
46	P2240927a-46	L2455026-02,42,,,R1C				rmp 9/27
47	P2240927a-47	L2453869-04,42,, rr				
48	P2240927a-48	L2453915-02,42,,				
49	P2240927a-49	L2454059-01,42,,				
50	P2240927a-50	L2454059-02,42,,				
51	P2240927a-51	L2454352-01,42,,				
52	P2240927a-52	L2454402-01,42,,				
53	P2240927a-53	L2454402-02,42,,				
54	P2240927a-54	L2454402-03,42,,				
55	P2240927a-55	L2454402-05,42,,			rmp	

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 12:07 pm

Work Group: WG1976835 for Department: 2 Organic Preparation

Created: 26-SEP-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453915-02	WC-02	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454059-01	MW-4S	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454059-02	MW-4D2	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454092-01	HA-MW-04	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454092-03	DUP01-20240919	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454092-05	FB-20240919	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454352-01	SCDOH-DR	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2454402-01	HA-MW-06	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2454402-02	HA-MW-02	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2454402-03	HA-MW-01	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2454402-05	FB-20240920	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2455026-01	MW-19	S	NYTCL-8082-LVI	WATER	DONE	U	0924	0927	1C	Amber-A.120
L2455026-02	FB 2024-09-24	S	NYTCL-8082-LVI	WATER	DONE	U	0924	0927	1C	Amber-A.120
WG1976835-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1976835-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1976835-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1976835-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1976835-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1976835-3	WG1976835-2
WG1976835-4	L2454092-01
WG1976835-5	L2454092-01

ORGANIC ELN REPORT

Workgroup: WG1976835

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: Pesticide/PCB **Lot #:** PP11735bd,02/06/2025,7c,5,1
Spike Type: PCB **Lot #:** PP11722ab,01/12/2025,6l,5,4
Spike Verify by: LJO
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	241169

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EJ061

Additional Reagents/Stds

H2SO4	2024071607

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EJ061

Additional Reagents/Stds

Copper	2406cpg002

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453915-02 WATER	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454059-01 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454059-02 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454092-01 SAMP	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3

Reported: 30-SEP-24 12:07 PM

ORGANIC ELN REPORT

Workgroup: WG1976835

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2454092-02 SAMP	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
L2454092-03 SAMP	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
L2454092-05 SAMP	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
L2454352-01 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454402-01 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454402-02 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454402-03 SAMP	09/27/24 01:01	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454402-05 SAMP	09/27/24 01:01	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1

ORGANIC ELN REPORT

Workgroup: WG1976835

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2455026-01 SAMP	09/27/24 01:01	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2455026-02 SAMP	09/27/24 01:01	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
WG1976835-1 BLANK	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
WG1976835-2 LCS	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1	.1	09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
WG1976835-3 LCSD	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1	.1	09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
WG1976835-4 MS	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1	.1	09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
WG1976835-5 MSD	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1	.1	09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3

ORGANIC ELN REPORT

Workgroup: WG1976835

Reported: 30-SEP-24 12:07 PM

ORGANIC ELN REPORT

Workgroup: WG1976835

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2453915-02 WATER	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454059-01 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454059-02 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454092-01 SAMP	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
L2454092-02 SAMP	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
L2454092-03 SAMP	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
L2454092-05 SAMP	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
L2454352-01 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454402-01 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454402-02 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454402-03 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong

ORGANIC ELN REPORT

Workgroup: WG1976835

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2454402-05 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2455026-01 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2455026-02 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
WG1976835-1 BLANK	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
WG1976835-2 LCS	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
WG1976835-3 LCSD	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
WG1976835-4 MS	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
WG1976835-5 MSD	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

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

Lab Number: L2454059
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-4S (L2454059-01)	76	69	72	67			0
MW-4D2 (L2454059-02)	63	52	68	62			0
WG1976222-1BLANK	65	58	55	50			0
WG1976222-2LCS	79	72	70	62			0
WG1976222-3LCSD	59	52	64	55			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8081

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976222-2 **Analysis Date** : 09/26/24 08:25	**File ID**	: 11240926a-08
LCSD Sample ID	: WG1976222-3 **Analysis Date** : 09/26/24 08:37	**File ID**	: 11240926a-09

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
Delta-BHC	0.357	0.274	77	0.357	0.211	59	26	Q	30-150	20
Lindane	0.357	0.293	82	0.357	0.251	70	15		30-150	20
Alpha-BHC	0.357	0.300	84	0.357	0.260	73	14		30-150	20
Beta-BHC	0.357	0.281	79	0.357	0.249	70	12		30-150	20
Heptachlor	0.357	0.306	86	0.357	0.264	74	15		30-150	20
Aldrin	0.357	0.277	78	0.357	0.244	68	13		30-150	20
Heptachlor epoxide	0.357	0.283	79	0.357	0.252	71	11		30-150	20
Endrin	0.357	0.302	85	0.357	0.261	73	15		30-150	20
Endrin aldehyde	0.357	0.257	72	0.357	0.187	52	32	Q	30-150	20
Endrin ketone	0.357	0.300	84	0.357	0.246	69	20		30-150	20
Dieldrin	0.357	0.323	90	0.357	0.279	78	15		30-150	20
4,4'-DDE	0.357	0.283	79	0.357	0.246	69	14		30-150	20
4,4'-DDD	0.357	0.311	87	0.357	0.269	75	15		30-150	20
4,4'-DDT	0.357	0.298	83	0.357	0.262	73	13		30-150	20
Endosulfan I	0.357	0.289	81	0.357	0.247	69	16		30-150	20
Endosulfan II	0.357	0.302	85	0.357	0.236	66	25	Q	30-150	20
Endosulfan sulfate	0.357	0.304	85	0.357	0.228	64	29	Q	30-150	20
Methoxychlor	0.357	0.304	85	0.357	0.267	75	13		30-150	20
cis-Chlordane	0.357	0.266	75	0.357	0.226	63	16		30-150	20
trans-Chlordane	0.357	0.325	91	0.357	0.285	80	13		30-150	20

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976222-1	**Lab File ID**	: 11240926a-07
Matrix	: WATER	**Extraction Date**	: 09/25/24
Analysis Date (1)	: 09/26/24 08:13	**Analysis Date (2)**	: 09/26/24 08:13
Instrument ID (1)	: PEST11	**Instrument ID (2)**	: PEST11

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1976222-2LCS	WG1976222-2	09/26/24 08:25	09/26/24 08:25
WG1976222-3LCSD	WG1976222-3	09/26/24 08:37	09/26/24 08:37
MW-4S	L2454059-01	09/26/24 22:24	09/26/24 22:24
MW-4D2	L2454059-02	09/30/24 13:00	09/30/24 13:00

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Initial Calib. Date(s)**	: 08/01/24 08/01/24

Client ID	Lab ID	Date/Time Analyzed
R1860455-1 PEM	R1860455-1	08/01/24 18:25
Pesticides L1 (0.5ug/L)	R1860455-2	08/01/24 18:37
Pesticides L2 (1.0ug/L)	R1860455-3	08/01/24 18:49
Pesticides L3 (2.0ug/L)	R1860455-4	08/01/24 19:01
Pesticides L4 (3.0ug/L)	R1860455-5	08/01/24 19:13
Pesticides L5 (4.0ug/L)	R1860455-6	08/01/24 19:25
Pesticides L7 (10.0ug/L)	R1860455-7	08/01/24 19:37
Pesticides L8 (50.0ug/L)	R1860455-8	08/01/24 19:49
Pesticides L9 (100ug/L)	R1860455-9	08/01/24 20:01
Pesticides L10 (200ug/L)	R1860455-10	08/01/24 20:12
Pesticides L11 (400ug/L)	R1860455-11	08/01/24 20:25
R1860455-12 ICV	R1860455-12	08/01/24 20:36
Chlordane L3 (10ug/L)	R1860455-13	08/01/24 20:48
Chlordane L4 (20ug/L)	R1860455-14	08/01/24 21:00
Chlordane L5 (100ug/L)	R1860455-15	08/01/24 21:12
Chlordane L7 (500ug/L)	R1860455-16	08/01/24 21:24
Chlordane L8 (1000ug/L)	R1860455-18	08/01/24 21:36
Chlordane L9 (2000ug/L)	R1860455-17	08/01/24 21:48
Chlordane L10 (5000ug/L)	R1860455-19	08/01/24 22:00
R1860455-20 ICV	R1860455-20	08/01/24 22:12
Toxaphene L3 (20.0ug/L)	R1860455-21	08/01/24 22:24
Toxaphene L4 (100ug/L)	R1860455-22	08/01/24 22:36
Toxaphene L7 (1000ug/L)	R1860455-23	08/01/24 22:47
Toxaphene L8 (2000ug/L)	R1860455-24	08/01/24 22:59
Toxaphene L9 (5000ug/L)	R1860455-25	08/01/24 23:11
R1860455-26 ICV	R1860455-26	08/01/24 23:23
R1880713-1 PEM	R1880713-1	09/26/24 06:23
WG1976509-1 CCAL	WG1976509-1	09/26/24 06:35
WG1976509-2 CCAL	WG1976509-2	09/26/24 06:46
WG1976509-3 CCAL	WG1976509-3	09/26/24 06:58
WG1976222-1 BLANK	WG1976222-1	09/26/24 08:13
WG1976222-2 LCS	WG1976222-2	09/26/24 08:25
WG1976222-3 LCSD	WG1976222-3	09/26/24 08:37
R1881074-1 PEM	R1881074-1	09/26/24 20:11
WG1976911-1 CCAL	WG1976911-1	09/26/24 20:23
WG1976911-2 CCAL	WG1976911-2	09/26/24 20:35
WG1976911-3 CCAL	WG1976911-3	09/26/24 20:47
MW-4S	L2454059-01	09/26/24 22:24

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST20	**Initial Calib. Date(s)**	: 07/22/24 07/22/24

Client ID	Lab ID	Date/Time Analyzed
R1855973-8 PEM	R1855973-8	07/22/24 17:57
Pesticides L1 (0.5ug/L)	R1855973-9	07/22/24 18:09
Pesticides L2 (1.0ug/L)	R1855973-1	07/22/24 18:21
Pesticides L3 (2.0ug/L)	R1855973-2	07/22/24 18:34
Pesticides L4 (3.0ug/L)	R1855973-3	07/22/24 18:46
Pesticides L5 (4.0ug/L)	R1855973-4	07/22/24 18:59
Pesticides L7 (10.0ug/L)	R1855973-5	07/22/24 19:11
Pesticides L8 (50.0ug/L)	R1855973-6	07/22/24 19:24
Pesticides L9 (100ug/L)	R1855973-7	07/22/24 19:36
Pesticides L10 (200ug/L)	R1855973-10	07/22/24 19:48
Pesticides L11 (400ug/L)	R1855973-11	07/22/24 20:01
R1855973-12 ICV	R1855973-12	07/22/24 20:13
Chlordane L3 (10ug/L)	R1855973-13	07/22/24 20:26
Chlordane L4 (20ug/L)	R1855973-14	07/22/24 20:38
Chlordane L5 (100ug/L)	R1855973-16	07/22/24 20:51
Chlordane L7 (500ug/L)	R1855973-15	07/22/24 21:03
Chlordane L8 (1000ug/L)	R1855973-17	07/22/24 21:16
Chlordane L9 (2000ug/L)	R1855973-18	07/22/24 21:28
Chlordane L10 (5000ug/L)	R1855973-19	07/22/24 21:40
R1855973-20 ICV	R1855973-20	07/22/24 21:53
Toxaphene L3 (20.0ug/L)	R1855973-21	07/22/24 22:05
Toxaphene L4 (100ug/L)	R1855973-22	07/22/24 22:18
Toxaphene L7 (1000ug/L)	R1855973-23	07/22/24 22:30
Toxaphene L8 (2000ug/L)	R1855973-24	07/22/24 22:42
Toxaphene L9 (5000ug/L)	R1855973-26	07/22/24 22:55
R1855973-25 ICV	R1855973-25	07/22/24 23:07
R1881817-1 PEM	R1881817-1	09/30/24 05:57
WG1977952-2 CCAL	WG1977952-2	09/30/24 06:22
WG1977952-3 CCAL	WG1977952-3	09/30/24 06:35
WG1977952-4 CCAL	WG1977952-4	09/30/24 07:49
MW-4D2	L2454059-02	09/30/24 13:00

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
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Pesticides - EPA 8081B (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 22:24
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240926b-10	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	0.007	0.029	0.003	J
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/30/24 13:00
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240930a-34	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976222-1	**Date Collected**	: NA
Client ID	: WG1976222-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 08:13
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240926a-07	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 22:24
Operator : PEST11:mmg
Sample : L2454059-01,42,,
Misc : wg1976911,WG1976222,ical21365
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 11:26:48 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240926B\11240926b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.187	1.260	309.8E6	200.3E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 331297489				Recovery =	93.50%	
	Standard Area 1 : #2 = 205942389				Recovery =	97.25%	
28) i	1-br-2-nb_Ch	1.187	1.260	309.8E6	200.3E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.187	1.260	309.8E6	200.3E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.514	1.706	490.7E6	307.0E6	38.114M3	34.415M3
	Spiked Amount 50.000	Range 30 - 150			Recovery =	76.23%	68.83%
27) s	Decachlorobi	6.116	6.748	518.7E6	283.3E6	35.996M4	33.362M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	71.99%	66.72%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 22:24
Operator : PEST11:mmg
Sample : L2454059-01,42,,
Misc : wg1976911,WG1976222,ical21365
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 11:26:48 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240926B\11240926b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	4.383	5.128	12070439	8110880	0.920M3	0.810M4
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

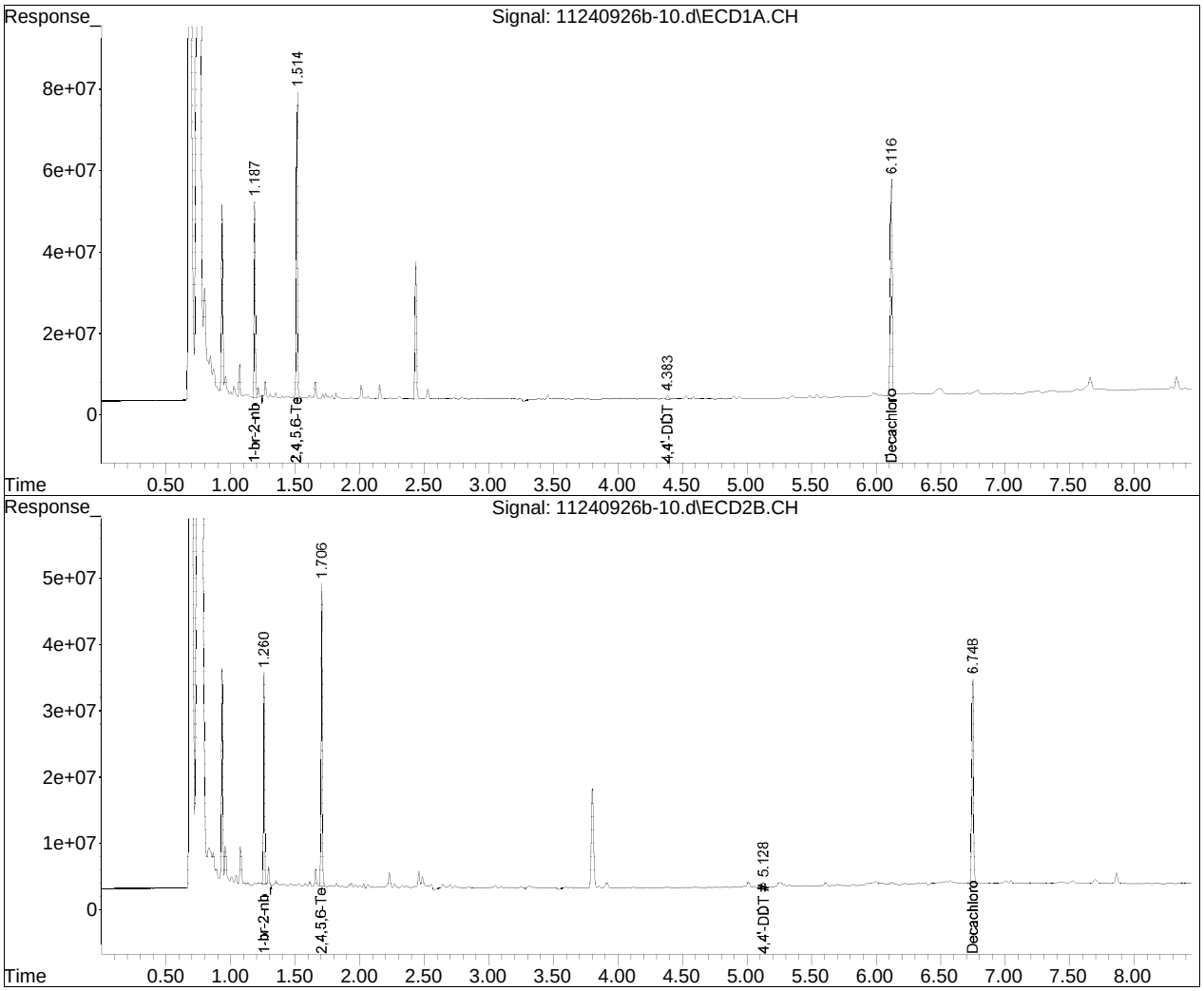
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240926b-03.d•

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 22:24
Operator : PEST11:mmg
Sample : L2454059-01,42,,
Misc : wg1976911,WG1976222,ical21365
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 11:26:48 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

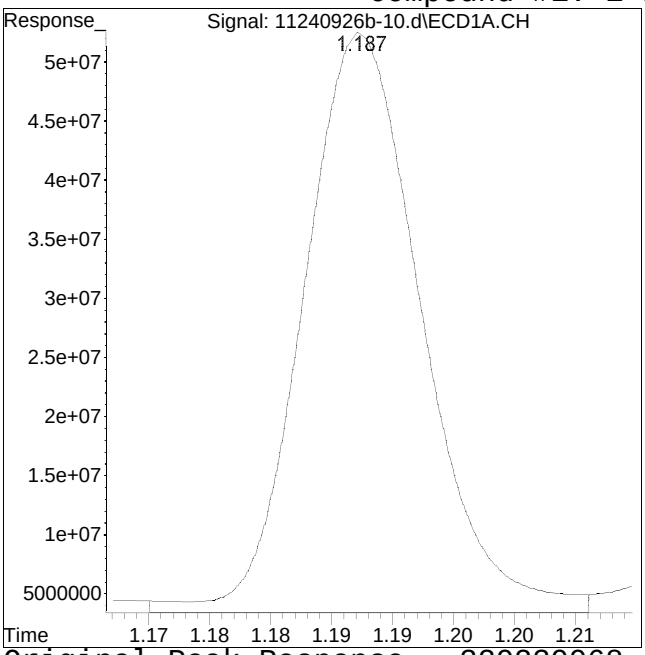
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

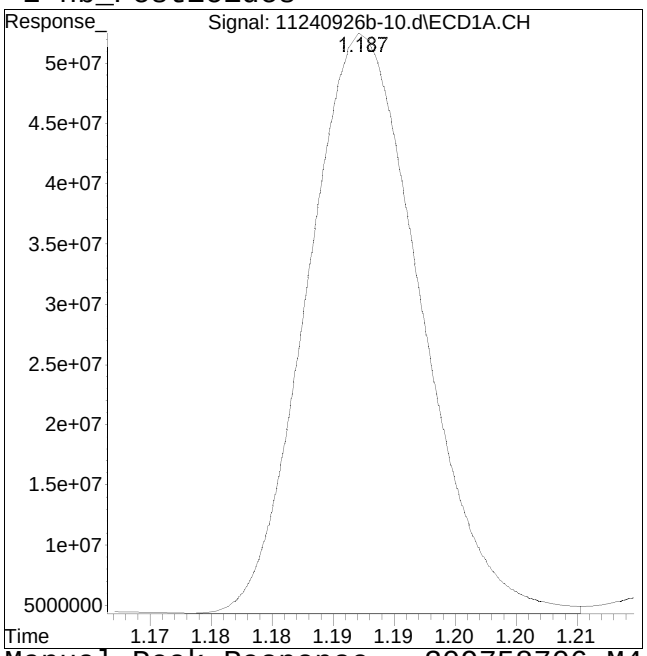


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #1: 1-br-2-nb_Pesticides



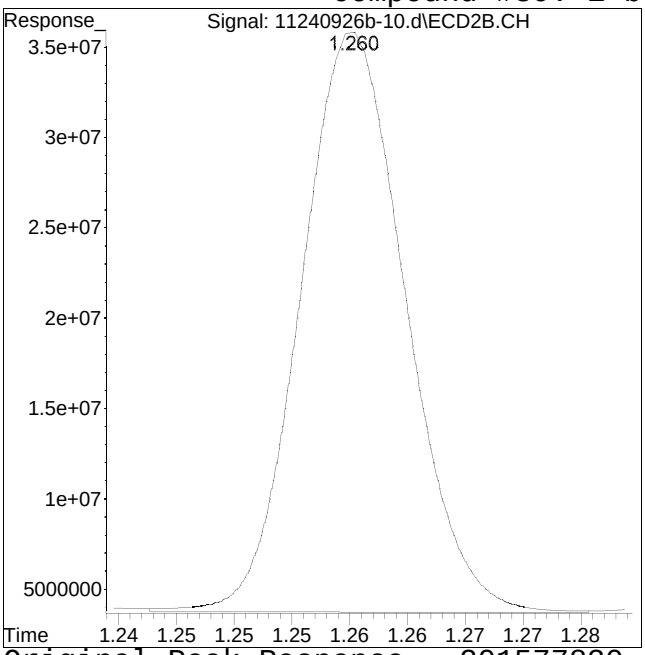


Original Peak Response = 329239968 Manual Peak Response = 309758706 M4
M4 = Poor automated baseline construction.

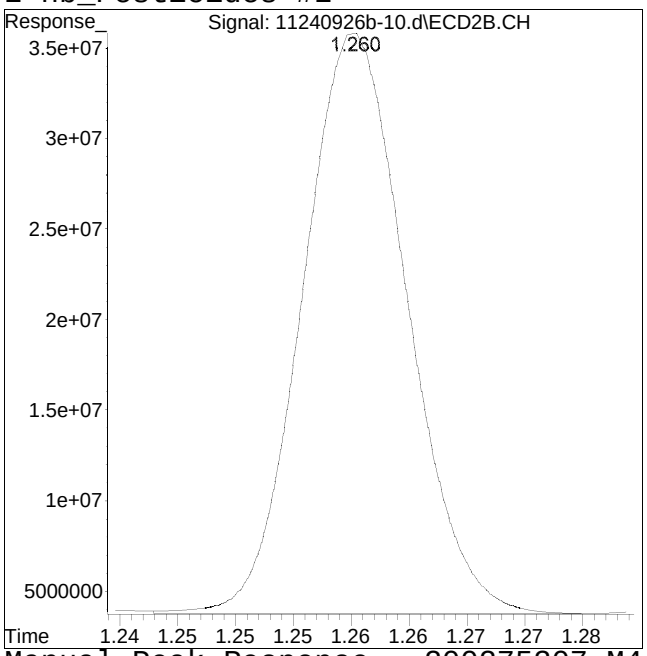
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 201577830



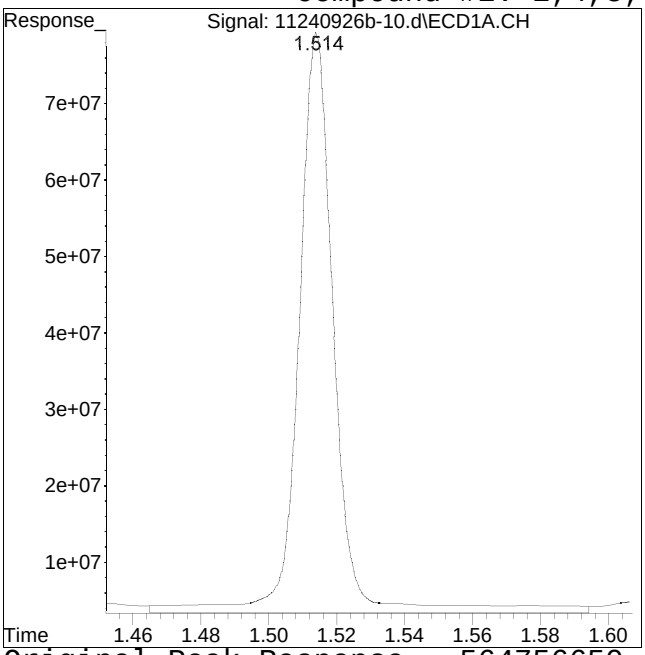
Manual Peak Response = 200275307 M4

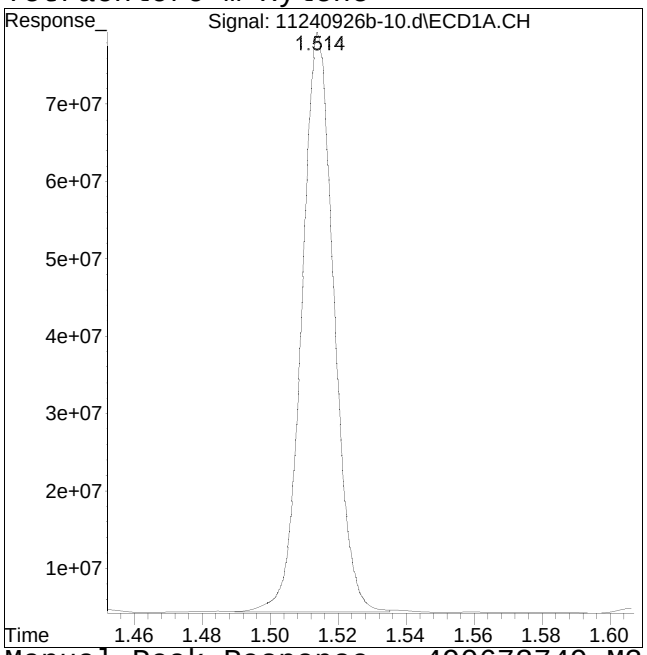
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



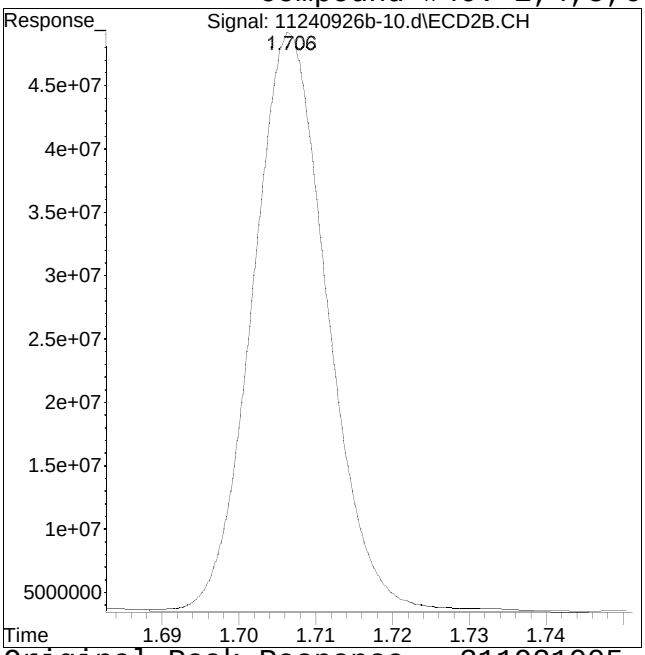


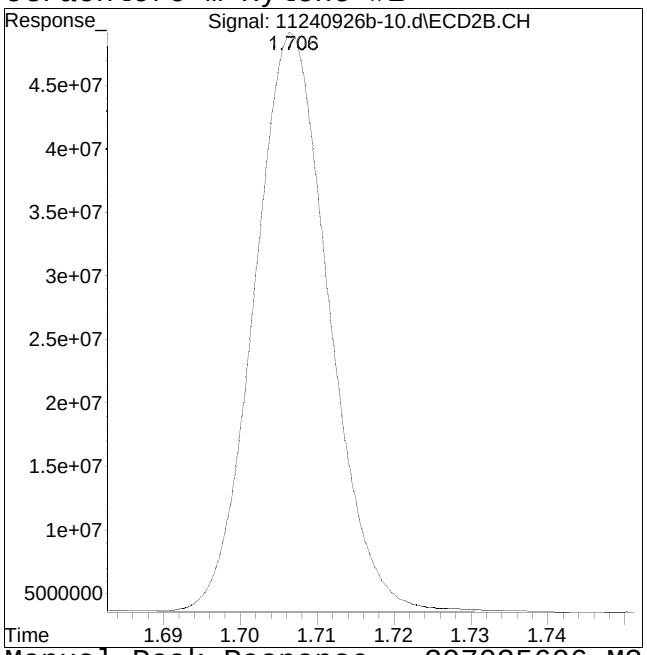
Original Peak Response = 564756650 Manual Peak Response = 490673749 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



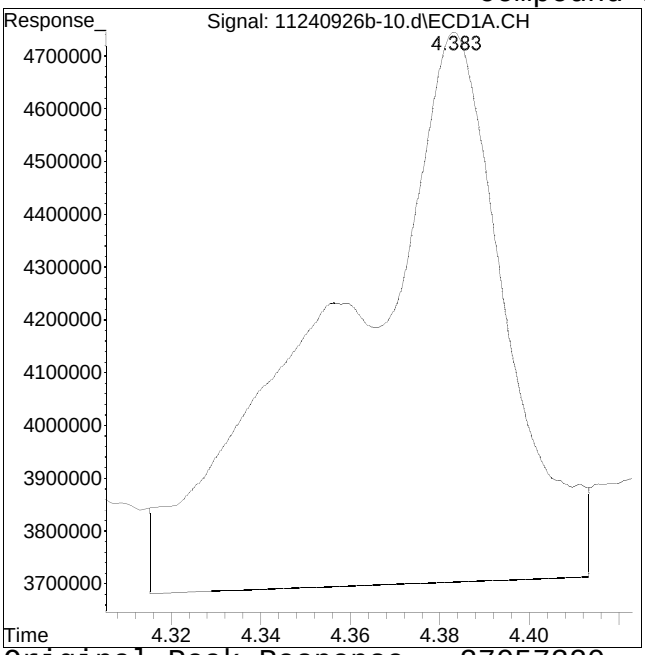


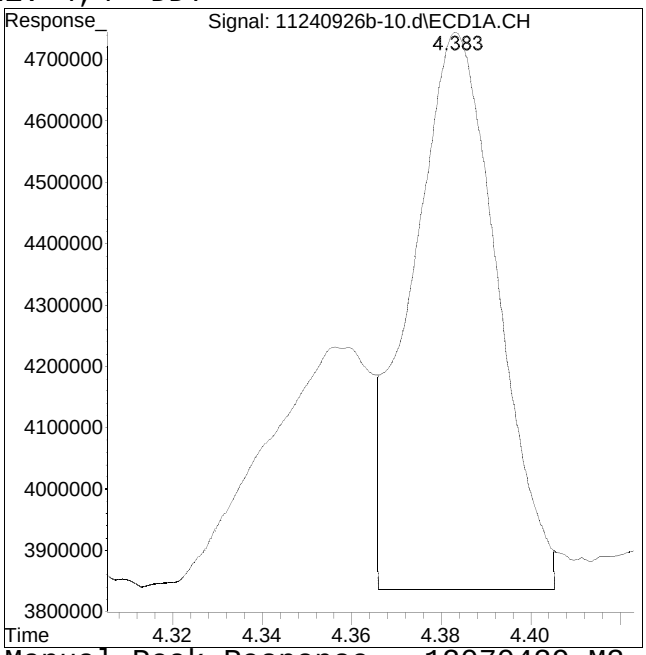
Original Peak Response = 311921905 Manual Peak Response = 307035606 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #21: 4,4'-DDT



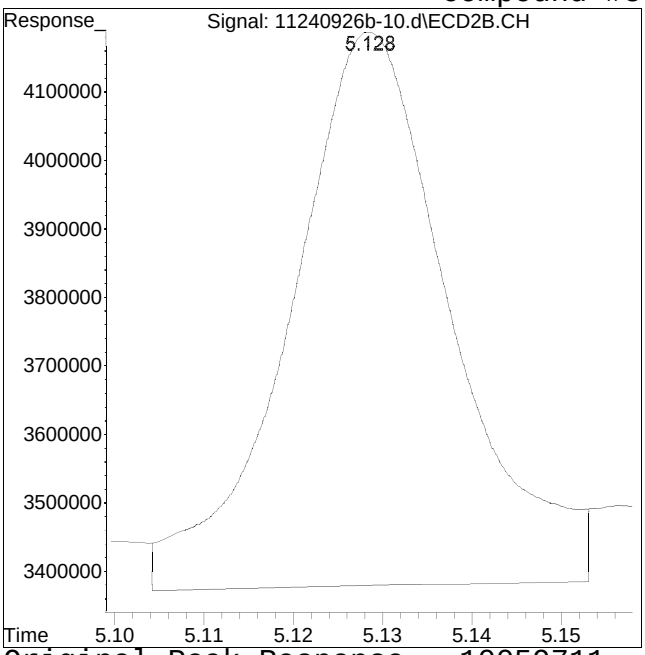


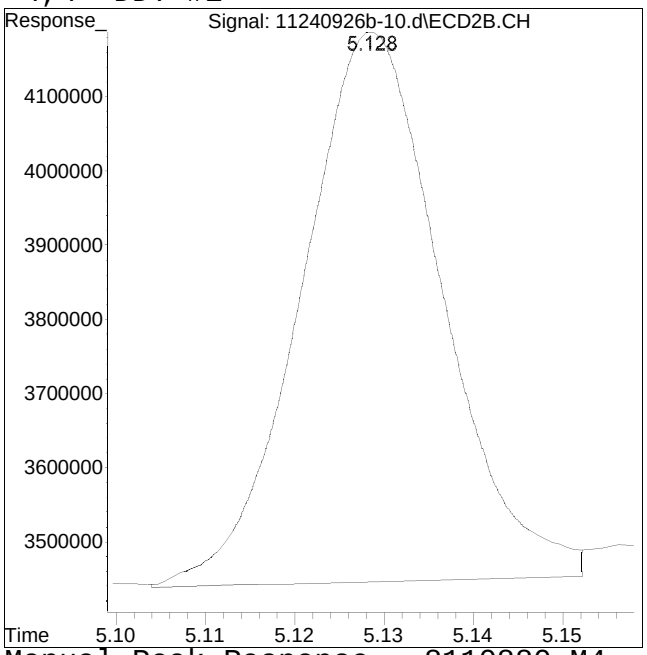
Original Peak Response = 27057320 Manual Peak Response = 12070439 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #59: 4,4'-DDT #2



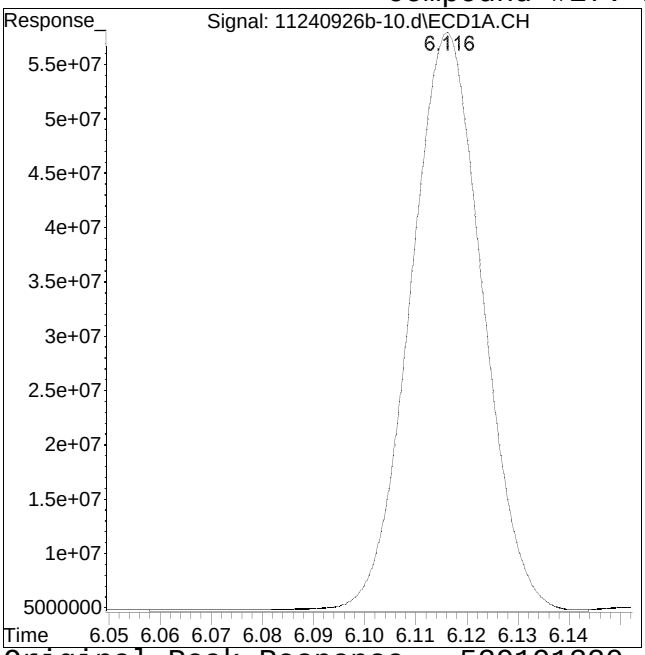


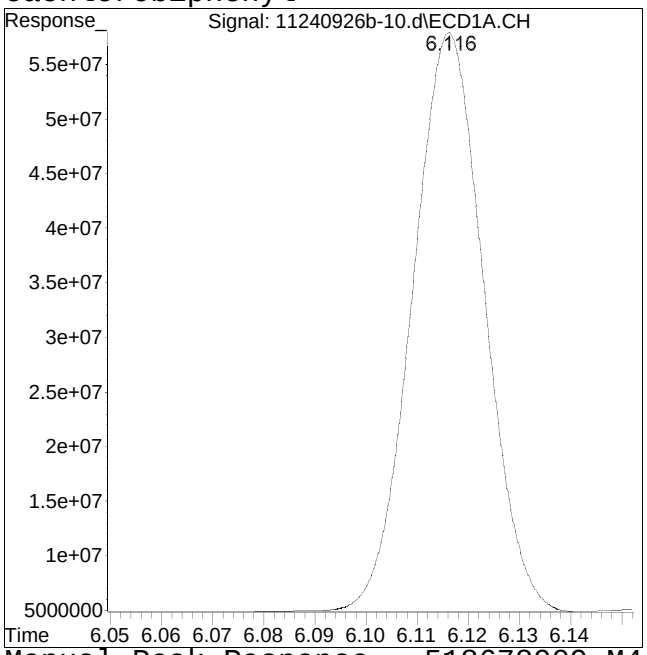
Original Peak Response = 10059711 Manual Peak Response = 8110880 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #27: Decachlorobiphenyl



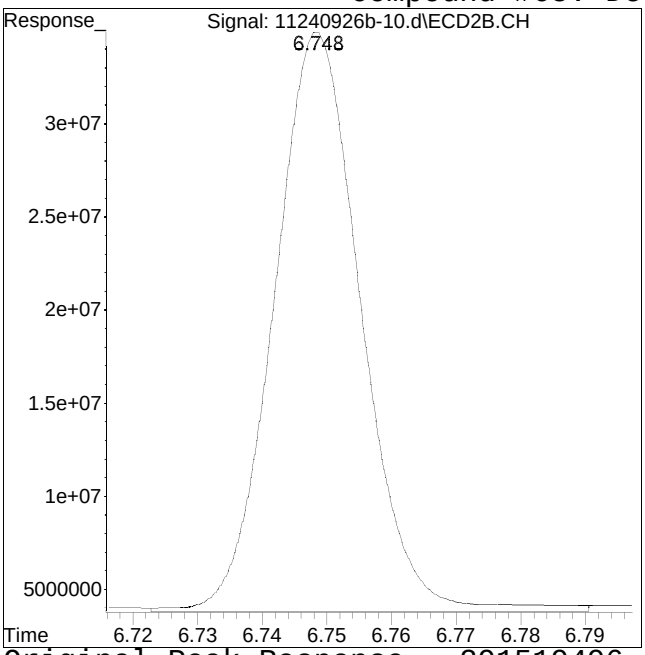


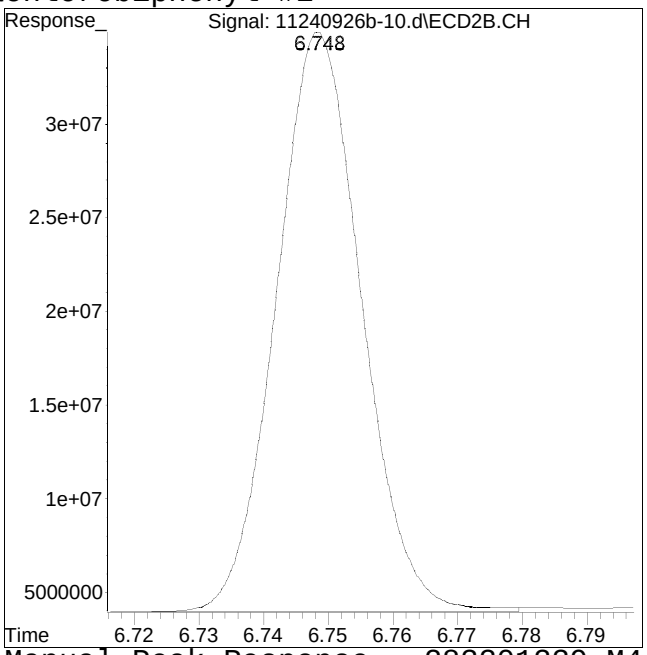
Original Peak Response = 529191320 Manual Peak Response = 518678909 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #65: Decachlorobiphenyl #2



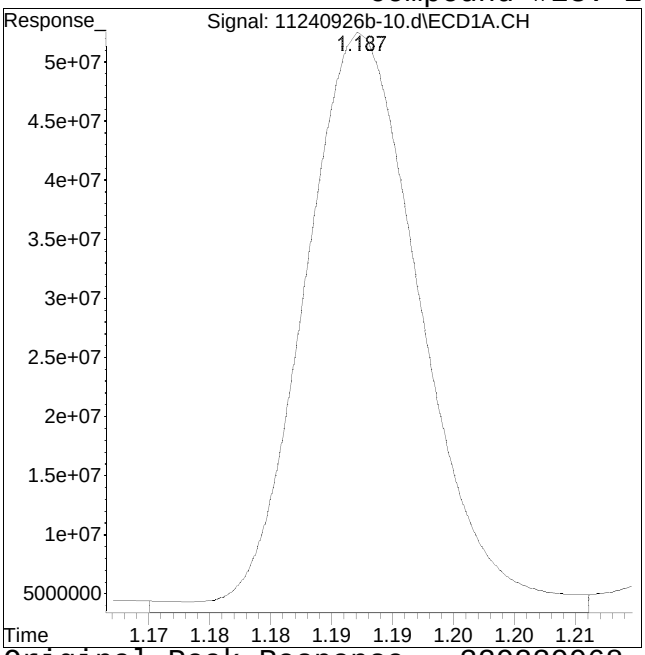


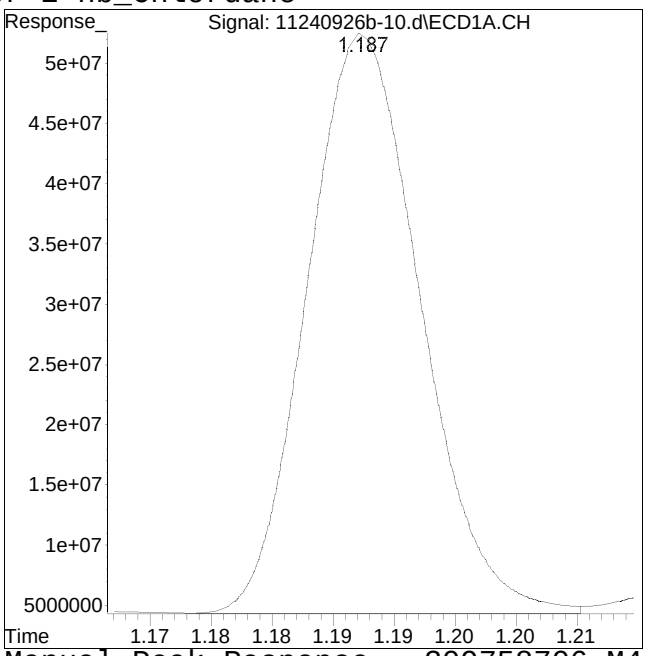
Original Peak Response = 291519496 Manual Peak Response = 283301339 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #28: 1-br-2-nb_Chlordane



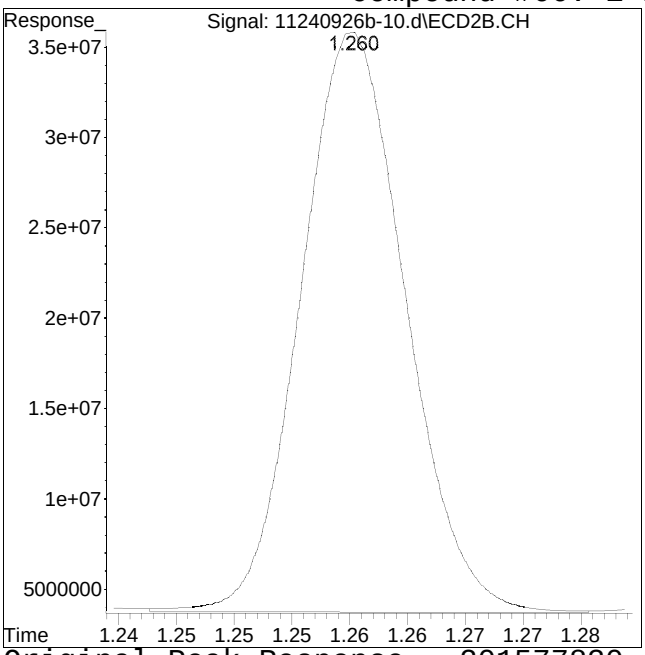


Original Peak Response = 329239968 Manual Peak Response = 309758706 M4
M4 = Poor automated baseline construction.

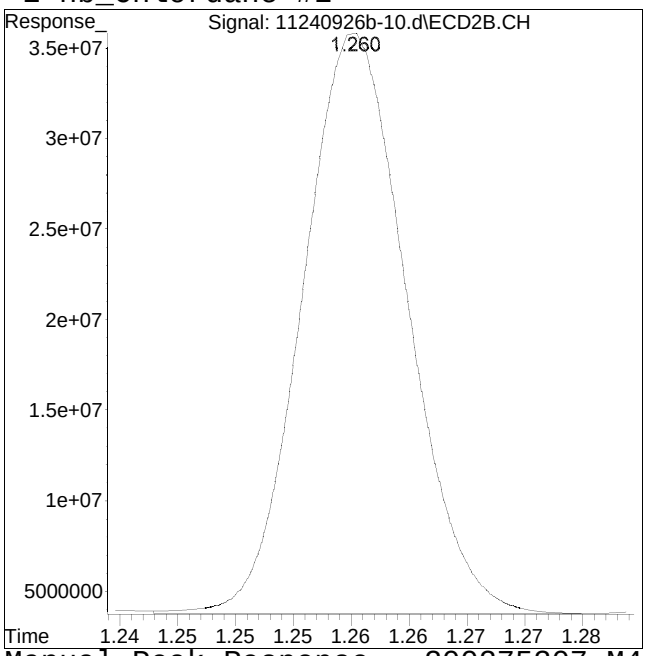
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 201577830



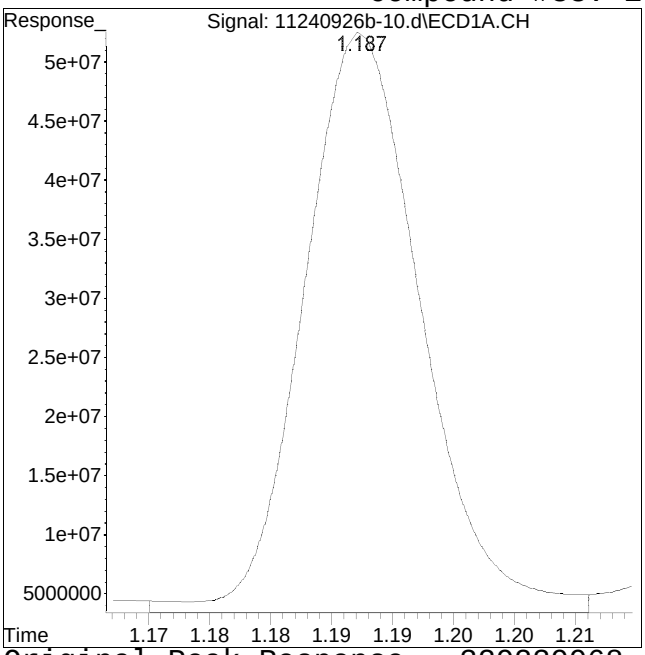
Manual Peak Response = 200275307 M4

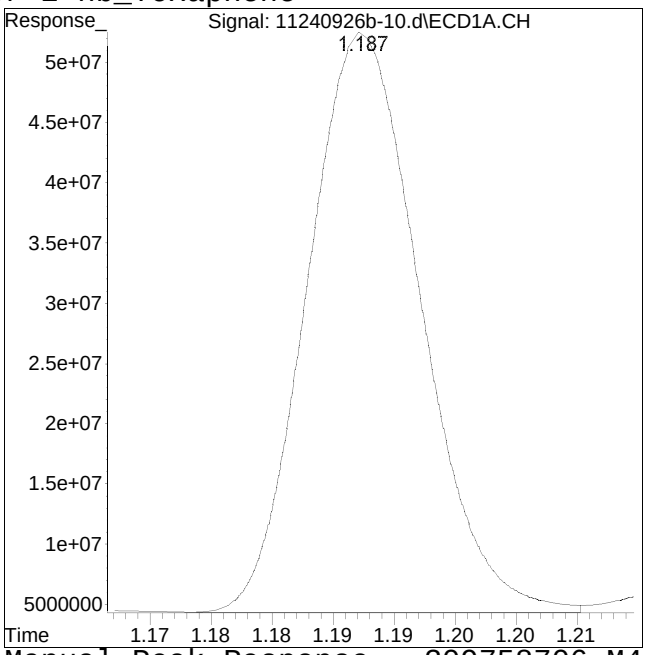
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #33: 1-br-2-nb_Toxaphene



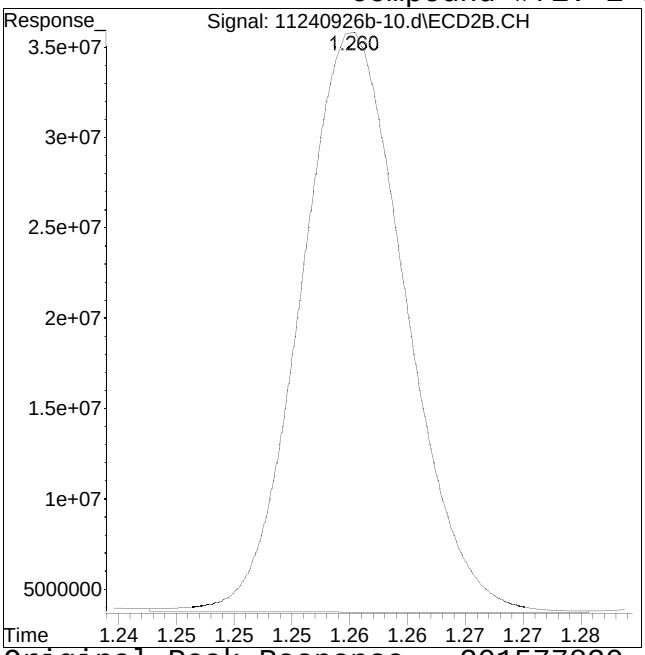


Original Peak Response = 329239968 Manual Peak Response = 309758706 M4
M4 = Poor automated baseline construction.

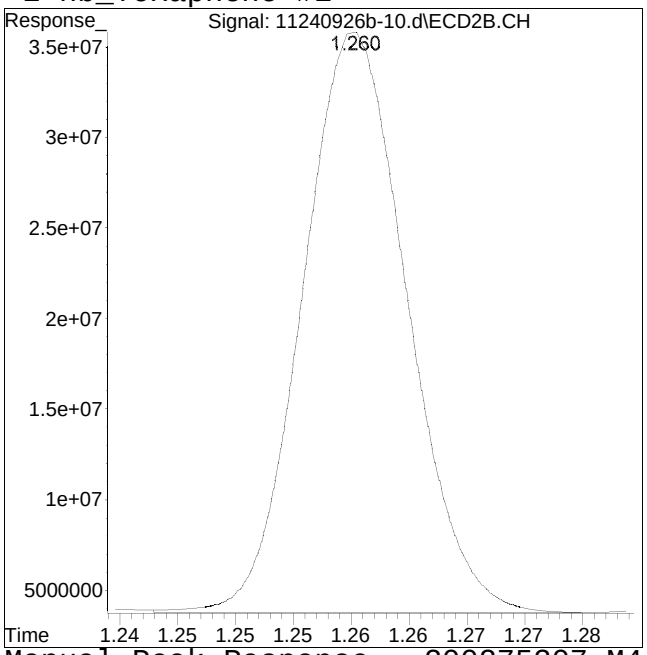
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-10.d Operator : PEST11:mmg
Date Inj'd : 9/26/2024 22:24 Instrument : Pest 11
Sample : L2454059-01,42,, Quant Date : 9/27/2024 11:26 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 201577830



Manual Peak Response = 200275307 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 13:00
Operator : pest20:mmg
Sample : L2454059-02,42,, rv
Misc : wg1977952,WG1976222,ical21322
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 13:26:51 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240930a\20240930a-11.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.893	1.947	63914035	110.1E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 66465495				Recovery = 96.16%		
	Standard Area 1 : #2 = 115096723				Recovery = 95.66%		
28) i	1-br-2-nb_Ch	1.893	1.947	63914035	110.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.893	1.947	63914035	110.1E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.366	2.551	88421873	140.0E6	31.275M3	25.994M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 62.55%		51.99%
27) s	Decachlorobi	7.268	7.828	94370778	122.9E6	33.784M4	30.843M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 67.57%		61.69%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 13:00
Operator : pest20:mmg
Sample : L2454059-02,42,, rv
Misc : wg1977952,WG1976222,ical21322
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 13:26:51 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240930a\20240930a-11.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D.	N.D.
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

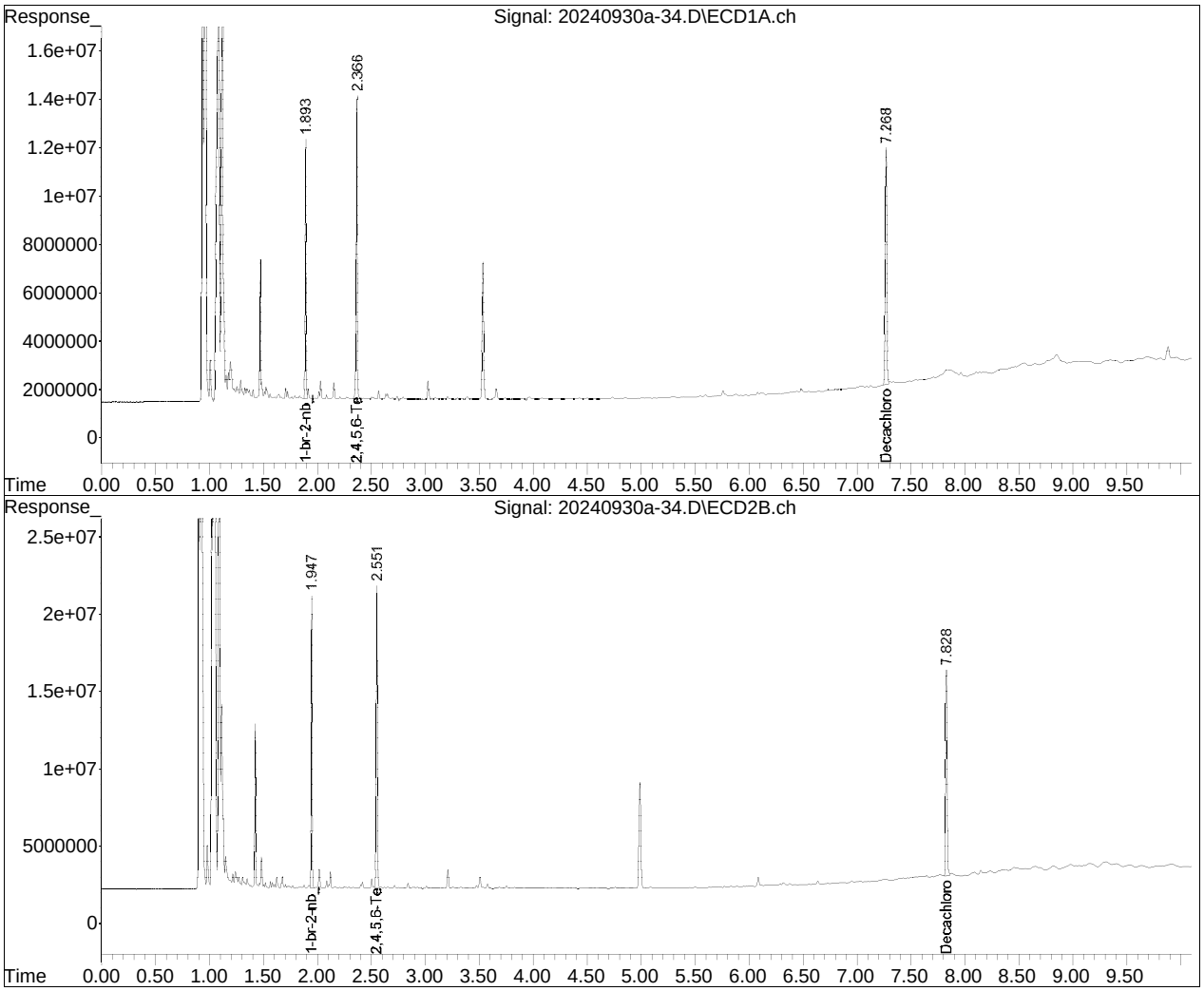
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\20240930a-11.D•

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 13:00
Operator : pest20:mmg
Sample : L2454059-02,42,, rv
Misc : wg1977952,WG1976222,ical21322
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 13:26:51 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

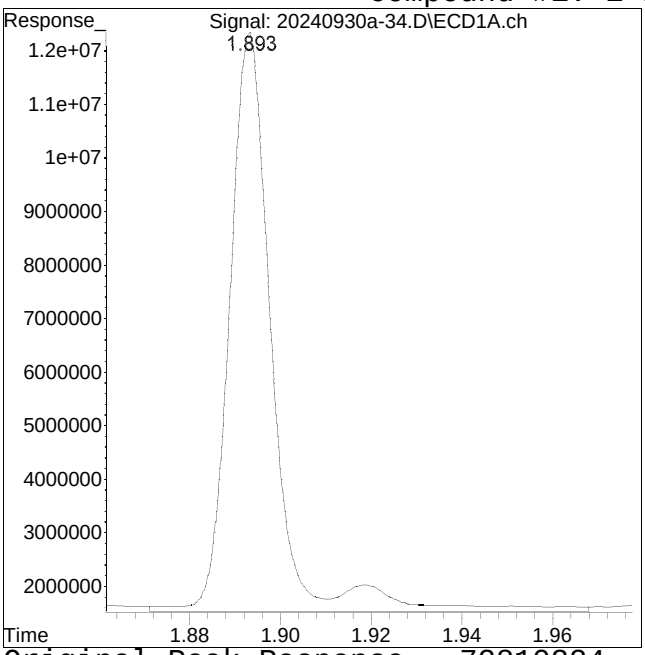
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



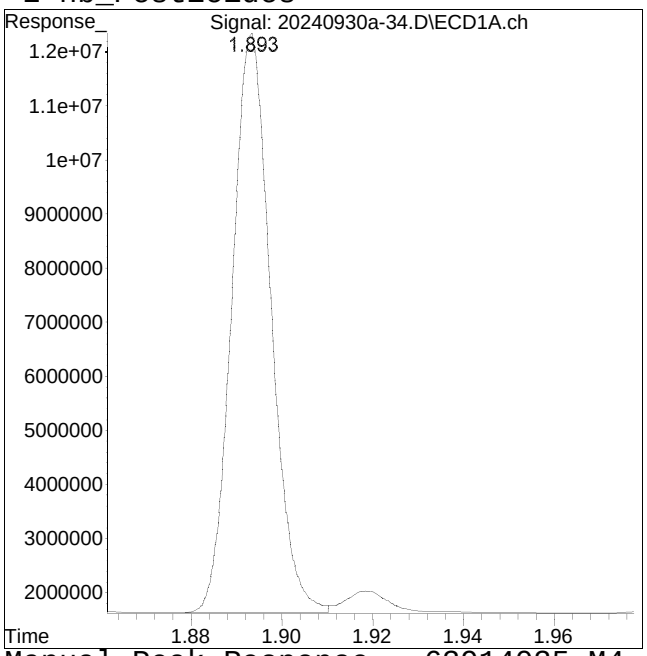
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 72810224



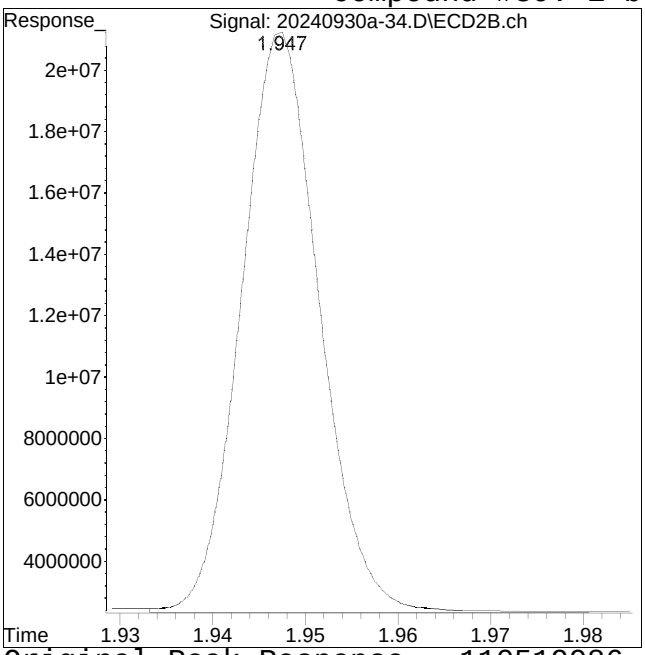
Manual Peak Response = 63914035 M4

M4 = Poor automated baseline construction.

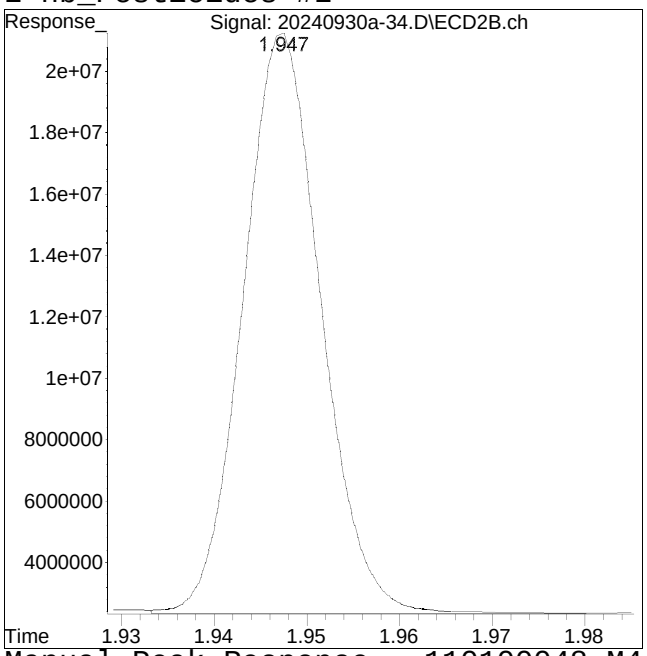
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 110519986



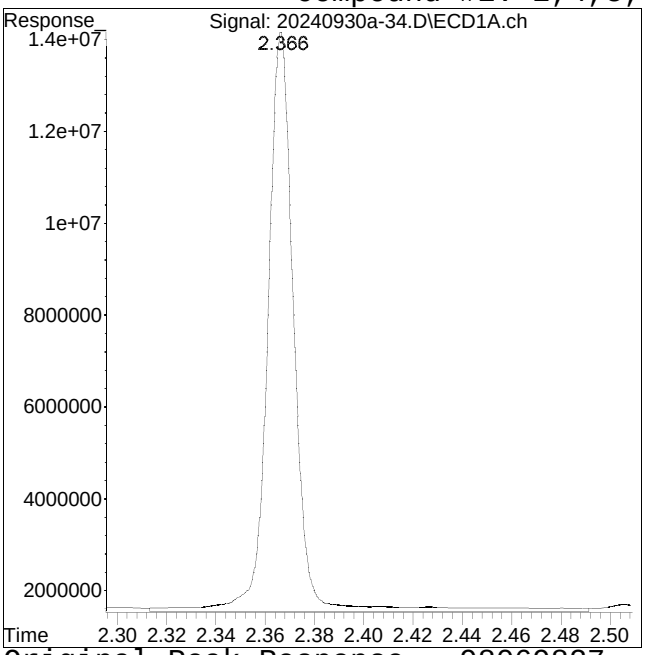
Manual Peak Response = 110100048 M4

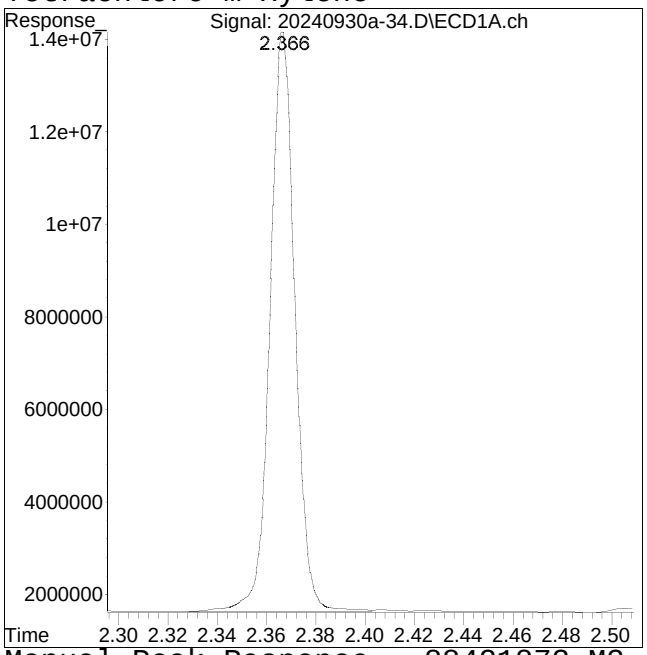
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



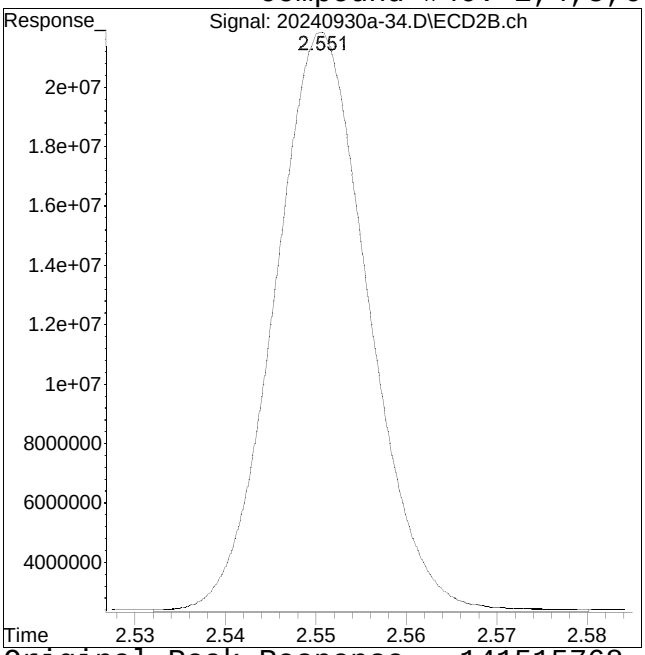


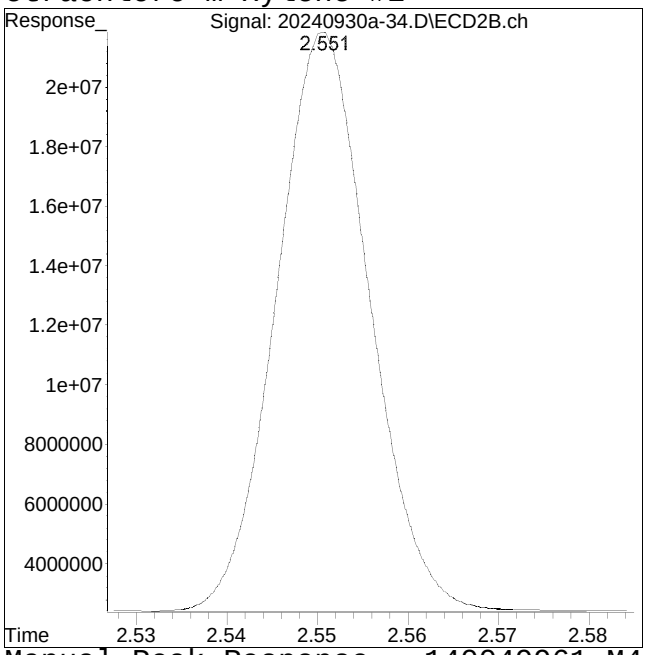
Original Peak Response = 98069827 Manual Peak Response = 88421873 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



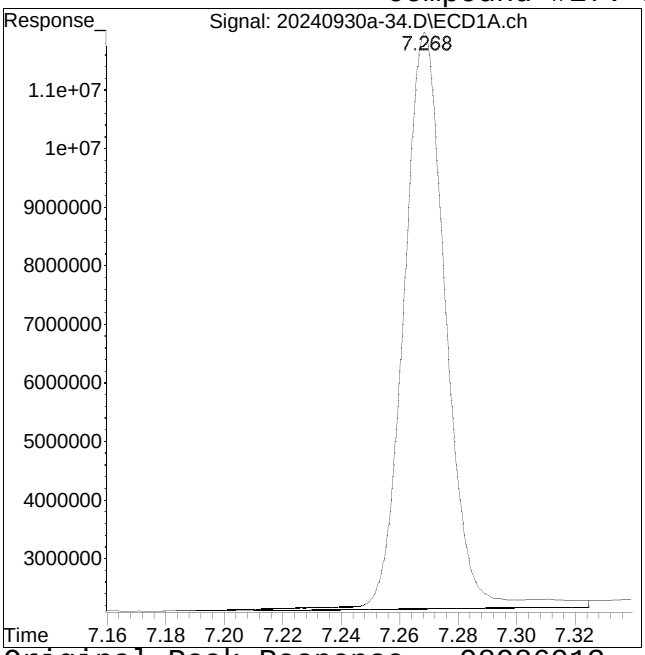


Original Peak Response = 141515768 Manual Peak Response = 140049961 M4
M4 = Poor automated baseline construction.

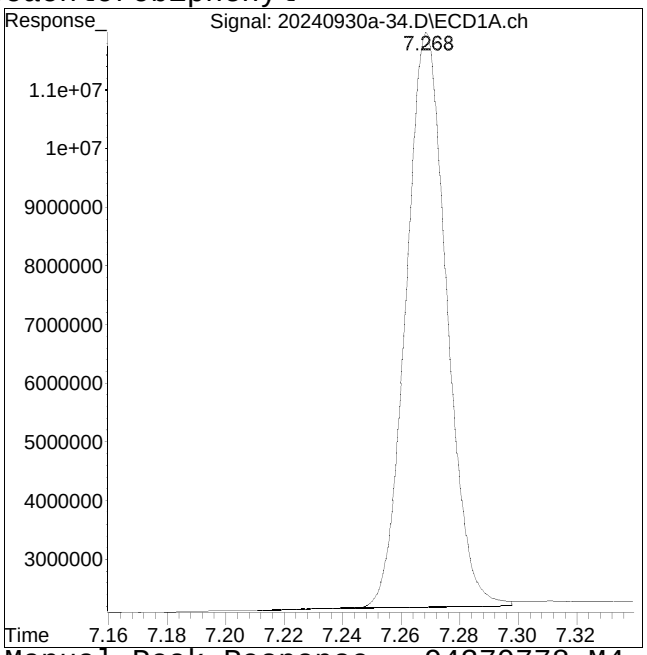
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 98986913



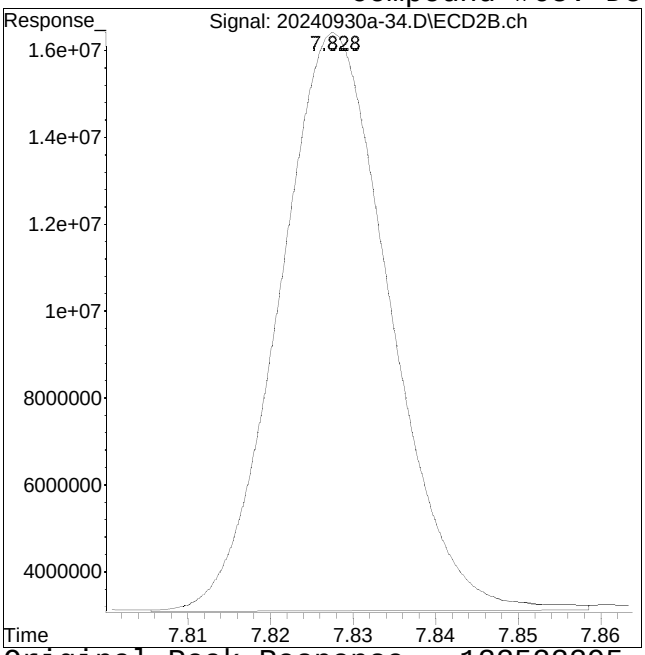
Manual Peak Response = 94370778 M4

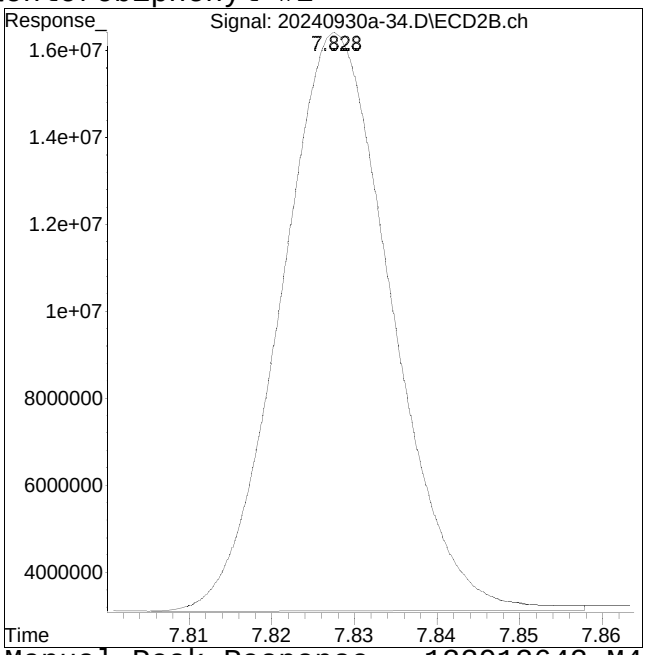
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #65: Decachlorobiphenyl #2



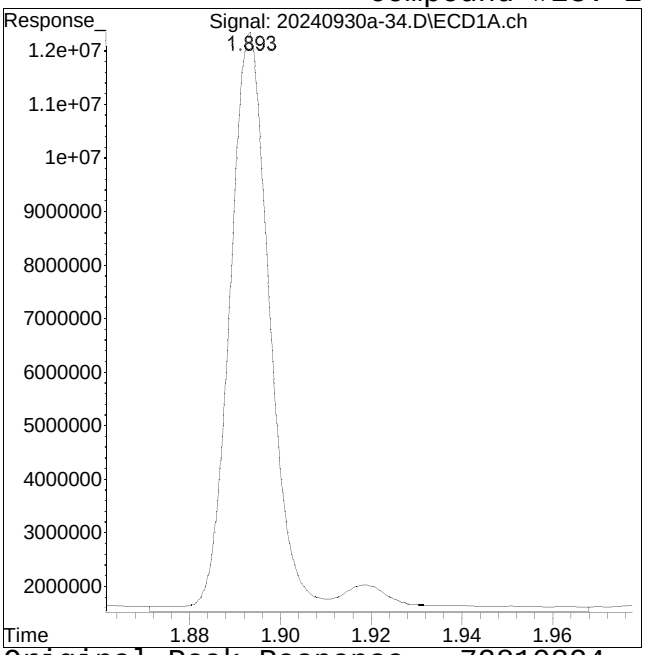


Original Peak Response = 123522395 Manual Peak Response = 122912642 M4
M4 = Poor automated baseline construction.

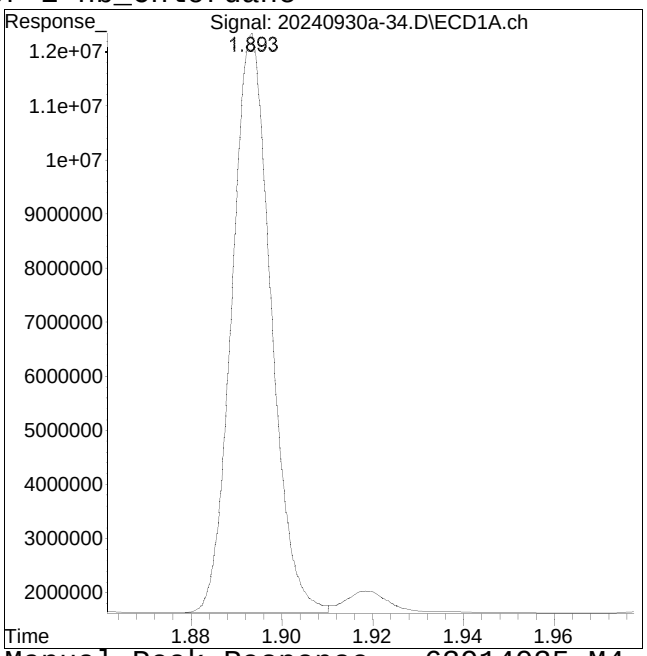
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 72810224



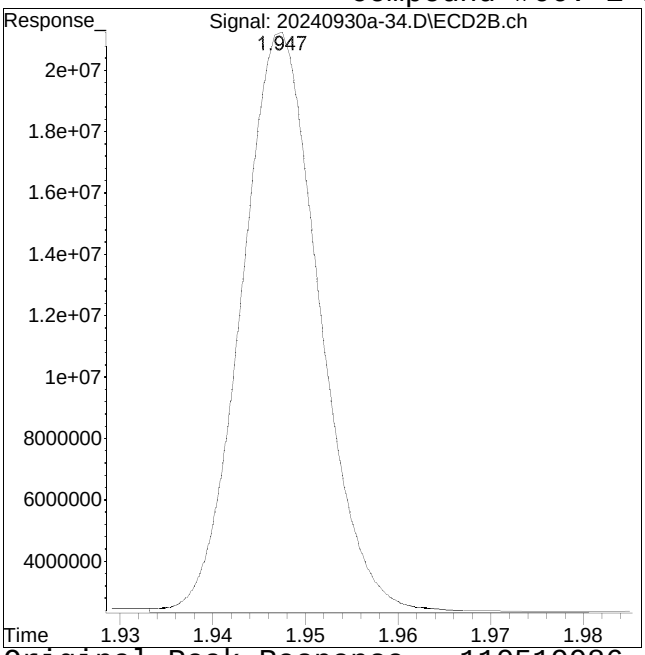
Manual Peak Response = 63914035 M4

M4 = Poor automated baseline construction.

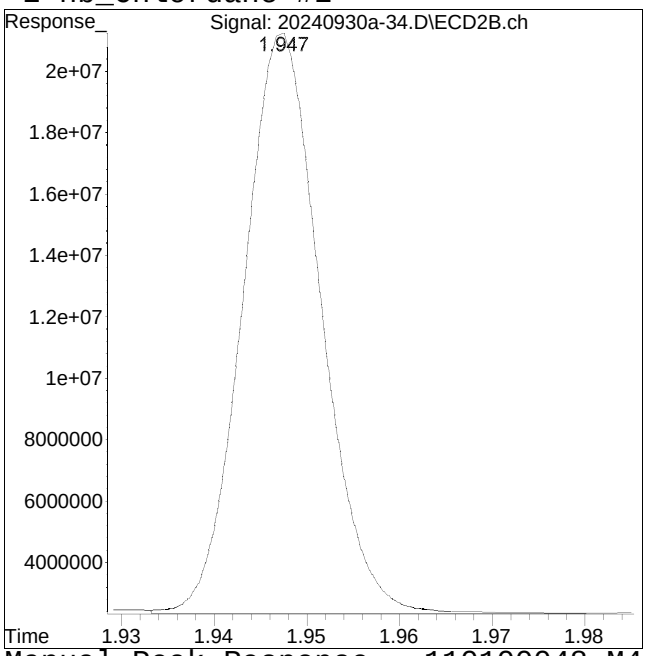
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 110519986



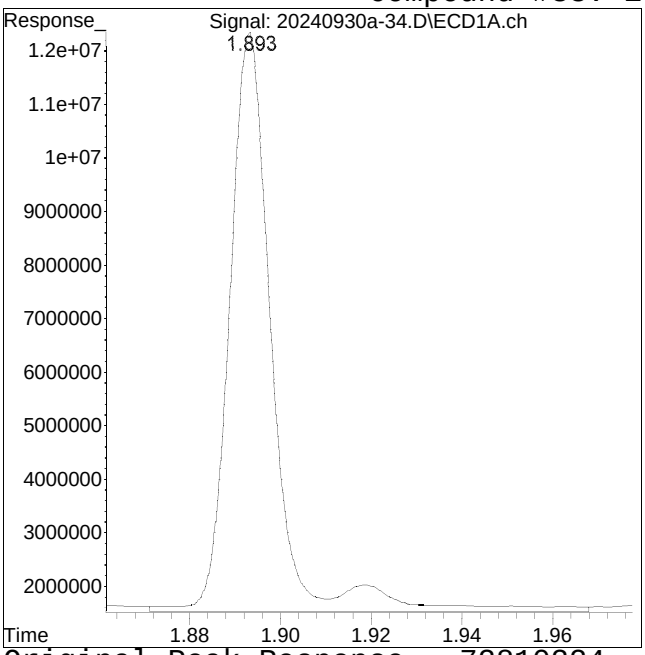
Manual Peak Response = 110100048 M4

M4 = Poor automated baseline construction.

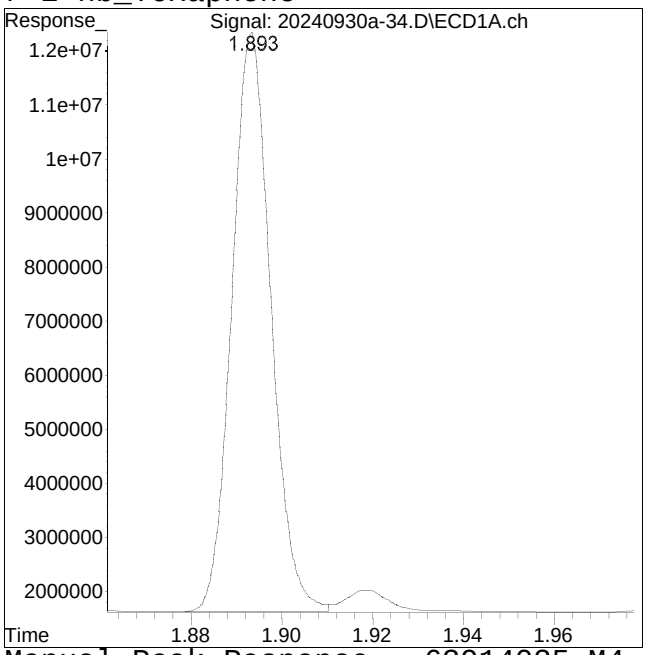
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 72810224



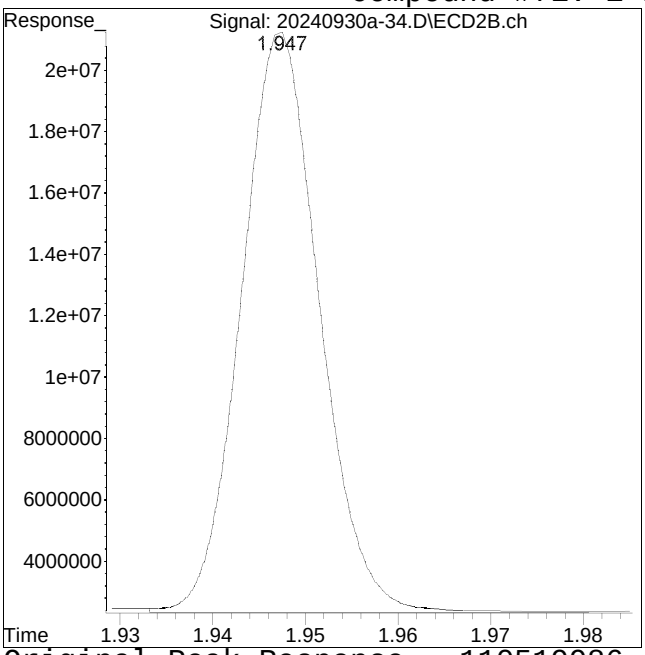
Manual Peak Response = 63914035 M4

M4 = Poor automated baseline construction.

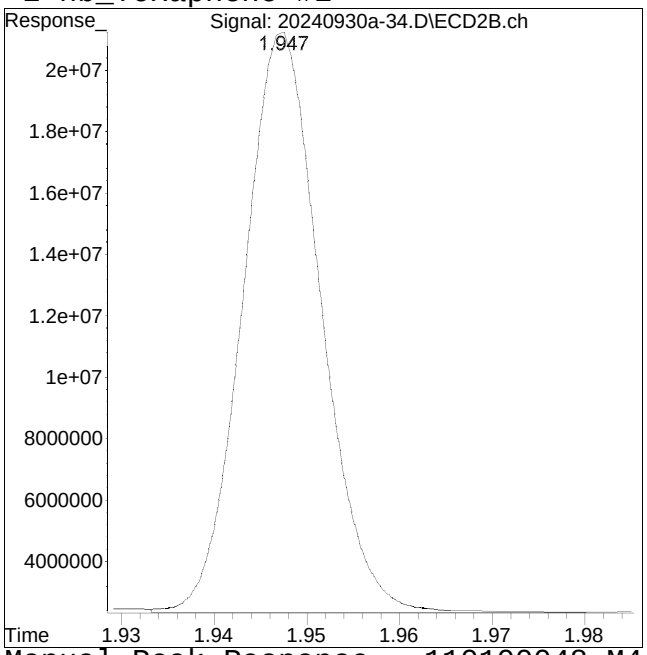
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-34.D Operator : pest20:mmg
Date Inj'd : 9/30/2024 13:00 Instrument : PEST 20
Sample : L2454059-02,42,, rv Quant Date : 9/30/2024 1:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 110519986



Manual Peak Response = 110100048 M4

M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL21322**
Calibration dates	**: 07/22/24 18:09 07/22/24 22:55**		

Calibration Files

1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetrachloro-m-xylene	1.644	1.499	1.427	1.363	1.265	1.143	1.147	1.086	1.055	*L		0.998
9)														
3)		Hexachlorobenzene	1.707	1.607	1.513	1.384	1.194	1.174	1.119	1.086		*L		0.999
0)														
4)		alpha-BHC	1.785	1.698	1.641	1.573	1.538	1.508	1.541	1.500	1.487		1.586	6.42
5)		gamma-BHC (li	1.895	1.736	1.660	1.586	1.512	1.448	1.371	1.389	1.355	1.336	1.529	12.25
6)		beta-BHC	0.941	0.888	0.849	0.769	0.651	0.639	0.609	0.596		*L		0.999
1)														
7)		delta-BHC	1.696	1.612	1.549	1.490	1.425	1.376	1.403	1.380	1.374		1.478	7.92
8)		Heptachlor	1.829	1.732	1.655	1.591	1.448	1.324	1.323	1.290	1.251		1.494	14.30
9)		Aldrin	1.619	1.546	1.494	1.427	1.353	1.284	1.299	1.278	1.249		1.394	9.56
10)		Alachlor	0.278	0.282	0.266	0.254	0.212	0.197	0.181			*L		0.995
5)														
11)		Chlorpyrifos	0.976	0.933	0.886	0.783	0.625	0.587	0.549			*L		0.996
8)														
12)		Heptachlor Ep	1.654	1.552	1.512	1.429	1.320	1.195	1.188	1.160	1.129		1.349	14.41
13)		gamma-Chlorda	1.497	1.403	1.502	1.193	1.085	1.083	1.067	1.049		*L		0.999
7)														
14)		alpha-Chlorda	1.706	1.615	1.553	1.477	1.352	1.227	1.220	1.198	1.173		*L	0.999
6)														
15)		4,4'-DDE	1.496	1.461	1.444	1.363	1.284	1.240	1.255	1.241	1.212		1.333	8.22
16)		Endosulfan I	1.514	1.437	1.405	1.327	1.228	1.130	1.125	1.102	1.078		1.261	13.01
17)		Dieldrin	1.575	1.491	1.423	1.431	1.241	1.175	1.182	1.172	1.143		1.315	12.52
18)		Endrin	1.496	1.460	1.411	1.335	1.257	1.181	1.184	1.169	1.134		1.292	10.64
19)		4,4'-DDD	1.243	1.219	1.191	1.115	1.048	0.999	1.005	0.992	0.964		1.086	9.96
20)		Endosulfan II	1.434	1.360	1.318	1.233	1.144	1.043	1.040	1.019	0.985		1.175	14.19
21)		4,4'-DDT	1.433	1.377	1.331	1.243	1.168	1.085	1.083	1.063	1.027		*L	0.999
4)														
22)		Endrin Aldehyde	1.122	1.121	1.093	1.031	0.955	0.899	0.900	0.878	0.841		*L	0.999
1)														
23)		Methoxychlor	0.899	0.858	0.804	0.745	0.620	0.597	0.564	0.529			*L	0.997
0)														
24)		Mirex	1.441	1.369	1.246	1.138	0.941	0.908	0.865	0.825			*L	0.998
2)														
25)		Endosulfan Su	1.493	1.383	1.352	1.238	1.128	0.990	0.982	0.951			*L	0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL21322**
Calibration dates	**: 07/22/24 18:09 07/22/24 22:55**		

Calibration Files

1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)														
26)		Endrin Ketone	1.545	1.499	1.445	1.328	1.257	1.138	1.129	1.093	1.046		1.275	14.69
27)	s	Decachlorobip			1.662	1.558	1.442	1.334	1.117	1.085	1.028		*L	0.998
6)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.057	0.055	0.048	0.042	0.040	0.039			*L	0.998
4)														
30)	l1	chlordane-3			0.075	0.072	0.062	0.053	0.048	0.046			*L	0.996
4)														
31)	l1	chlordane-4			0.295	0.236	0.183	0.171	0.165	0.161			*L	0.999
7)														
32)	l1	chlordane-5			0.358	0.335	0.280	0.264	0.255	0.248			*L	0.999
4)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.043	0.049		0.045	0.042	0.037			*L	0.992
4)														
35)	l2	toxaphene-2			0.047	0.044		0.044	0.041	0.037			*L	0.995
8)														
36)	l2	toxaphene-4			0.038	0.031		0.028	0.027	0.024			*L	0.995
7)														
37)	l2	toxaphene-5			0.053	0.048		0.043	0.041	0.037			*L	0.996
4)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL21322**
Calibration dates	**: 07/22/24 18:09 07/22/24 22:55**		

Signal #2 Calibration Files

1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetra		1.450	1.362	1.318	1.260	1.198	1.124	1.131	1.094	1.074	1.223	10.77
3)		Hexachloroben			1.539	1.464	1.388	1.290	1.153	1.145	1.108	1.086	*L	0.999
6)														
4)		alpha-BHC		1.634	1.553	1.526	1.475	1.468	1.505	1.556	1.539	1.546	1.533	3.23
5)		gamma-BHC (li	1.792	1.617	1.525	1.471	1.414	1.384	1.370	1.407	1.395	1.393	1.477	9.14
6)		beta-BHC			0.872	0.823	0.780	0.730	0.643	0.637	0.617	0.611	*L	0.999
7)														
7)		delta-BHC		1.608	1.490	1.451	1.394	1.369	1.380	1.427	1.428	1.441	1.443	5.02
8)		Heptachlor		1.675	1.555	1.505	1.433	1.351	1.278	1.299	1.280	1.249	1.403	10.58
9)		Aldrin		1.432	1.352	1.311	1.253	1.210	1.199	1.228	1.226	1.205	1.268	6.32
10)		Alachlor			0.254	0.243	0.234	0.219	0.181	0.170	0.160		*L	0.997
0)														
11)		Chlorpyrifos			0.921	0.889	0.834	0.752	0.624	0.595	0.565		*L	0.998
1)														
12)		Heptachlor Ep		1.532	1.419	1.363	1.305	1.219	1.149	1.157	1.147	1.123	1.268	11.39
13)		gamma-Chlorda			1.247	1.195	1.156	1.065	1.008	1.021	1.020	1.009	1.090	8.75
14)		alpha-Chlorda		1.463	1.371	1.327	1.271	1.195	1.126	1.136	1.129	1.112	1.237	10.31
15)		4,4'-DDE		1.326	1.256	1.223	1.230	1.121	1.130	1.158	1.161	1.132	1.193	5.86
16)		Endosulfan I		1.357	1.282	1.227	1.179	1.113	1.054	1.066	1.060	1.037	1.153	9.97
17)		Dieldrin		1.316	1.244	1.210	1.152	1.103	1.089	1.115	1.120	1.099	1.161	6.78
18)		Endrin		1.345	1.280	1.239	1.174	1.131	1.111	1.136	1.139	1.111	1.185	7.05
19)		4,4'-DDD		1.110	1.054	1.015	0.958	0.932	0.924	0.946	0.947	0.927	0.979	6.73
20)		Endosulfan II		1.313	1.231	1.188	1.118	1.059	0.996	1.006	0.999	0.969	1.098	11.11
21)		4,4'-DDT		1.288	1.206	1.173	1.103	1.070	1.037	1.052	1.043	1.014	1.110	8.37
22)		Endrin Aldehyde		1.027	0.993	0.959	0.910	0.859	0.848	0.861	0.853	0.824	*L	0.999
7)														
23)		Methoxychlor			0.820	0.775	0.708	0.661	0.573	0.560	0.538	0.506	*L	0.998
1)														
24)		Mirex			1.230	1.171	1.087	0.989	0.833	0.812	0.776	0.752	*L	0.998
9)														
25)		Endosulfan Su		1.311	1.244	1.196	1.109	1.043	0.963	0.966	0.953		*L	0.999
8)														
26)		Endrin Ketone		1.393	1.333	1.297	1.209	1.171	1.097	1.101	1.082	1.042	1.192	10.45
27)	s	Decachlorobip			1.277	1.205	1.140	1.071	0.916	0.898	0.859		*L	0.999
1)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL21322**
Calibration dates	**: 07/22/24 18:09 07/22/24 22:55**		

Signal #2 Calibration Files

1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.050	0.049	0.043	0.037	0.035	0.032			*L	0.996
3)														
30)	l1	chlordane-3			0.064	0.065	0.053	0.045	0.042	0.037			*L	0.992
9)														
31)	l1	chlordane-4			0.189	0.175	0.150	0.141	0.137	0.126			*L	0.997
6)														
32)	l1	chlordane-5			0.150	0.139	0.119	0.111	0.107	0.098			*L	0.997
2)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.022	0.026		0.022	0.022	0.021			*L	0.998
7)														
35)	l2	toxaphene-2			0.035	0.038		0.033	0.032	0.031			*L	0.999
1)														
36)	l2	toxaphene-4			0.042	0.043		0.038	0.037	0.036			*L	0.999
4)														
37)	l2	toxaphene-5			0.045	0.042		0.036	0.035	0.034			*L	0.999
5)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.070	1.052	1.075	1.017	1.028	1.042	1.068	1.019	0.980	1.039	3.00
3)	t	Hexachlorobenzene		1.537	1.511	1.518	1.421	1.398	1.344	1.370	1.302	1.253	1.406	7.13
4)	t	alpha-BHC		1.293	1.326	1.375	1.322	1.428	1.579	1.657	1.604	1.561	1.461	9.59
5)	t	gamma-BHC (li	1.464	1.305	1.312	1.356	1.278	1.355	1.457	1.524	1.473	1.430	1.395	6.06
6)	t	beta-BHC		0.665	0.662	0.666	0.624	0.626	0.607	0.622	0.597	0.580	0.628	4.95
7)	t	delta-BHC		1.249	1.257	1.303	1.246	1.337	1.470	1.546	1.502	1.457	1.374	8.70
8)	t	Heptachlor		1.313	1.322	1.357	1.281	1.318	1.358	1.400	1.323	1.217	1.321	3.91
9)	t	Aldrin		1.175	1.189	1.221	1.154	1.205	1.287	1.348	1.300	1.220	1.233	5.24
10)	t	Alachlor			0.247	0.248	0.233	0.238	0.226	0.221	0.199		0.230	7.42
11)	t	Chlorpyrifos			0.674	0.682	0.634	0.615	0.538	0.520	0.466		0.590	14.01
12)	t	Heptachlor Epoxide		1.181	1.208	1.238	1.159	1.186	1.202	1.236	1.175	1.082	1.185	3.96
13)	t	gamma-Chlordane (trans)		1.079	1.070	1.097	1.026	1.044	1.078	1.133	1.110	1.057	1.077	3.07
14)	t	alpha-Chlordane (cis)		1.192	1.207	1.248	1.181	1.200	1.223	1.275	1.242	1.178	1.216	2.74
15)	t	4,4'-DDE		1.107	1.137	1.186	1.119	1.167	1.226	1.298	1.275	1.207	1.192	5.61
16)	t	Endosulfan I		1.109	1.123	1.156	1.085	1.112	1.130	1.172	1.121	1.038	1.116	3.49
17)	t	Dieldrin		1.070	1.103	1.138	1.067	1.113	1.174	1.234	1.196	1.123	1.135	4.98
18)	t	Endrin		1.098	1.132	1.175	1.100	1.144	1.192	1.239	1.188	1.107	1.153	4.25
19)	t	4,4'-DDD		0.857	0.879	0.918	0.859	0.900	0.956	1.015	1.002	0.960	0.927	6.36
20)	t	Endosulfan II		1.034	1.062	1.094	1.026	1.054	1.071	1.111	1.052	0.964	1.052	4.03
21)	t	4,4'-DDT		0.969	1.034	1.071	0.998	1.036	1.083	1.139	1.124	1.071	1.058	5.22
22)	t	Endrin Aldehyde		0.906	0.889	0.917	0.869	0.878	0.877	0.913	0.888	0.841	0.886	2.70
23)	t	Methoxychlor		0.656	0.635	0.675	0.610	0.607	0.565	0.567	0.527	0.485	0.592	10.43
24)	t	Mirex			1.027	1.066	0.980	0.964	0.880	0.899	0.864	0.822	0.938	9.06
25)	t	Endosulfan Sulfate		1.084	1.035	1.065	0.986	1.001	0.988	1.026	0.981	0.922	1.010	4.83
26)	t	Endrin Ketone		1.166	1.200	1.247	1.167	1.200	1.196	1.227	1.160	1.085	1.183	3.94
27)	s	Decachlorobiphenyl		1.355	1.316	1.321	1.208	1.146	1.036	1.055	1.020	1.010	1.163	12.13
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.038	0.036	0.037	0.037	0.038	0.037	0.036		*L	0.999
3)														
30)	l1	chlordane-3			0.049	0.052	0.049	0.046	0.045	0.044	0.040		*L	0.997
4)														
31)	l1	chlordane-4			0.164	0.158	0.156	0.160	0.165	0.162	0.151		*L	0.998
6)														
32)	l1	chlordane-5			0.243	0.244	0.245	0.250	0.255	0.249	0.230		*L	0.998
2)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33) i	1-br-2-nb_Toxaphene	----------ISTD----------											
34) l2	toxaphene-2			0.038	0.046		0.055	0.055	0.056			*L	0.999
8)													
35) l2	toxaphene-3			0.032	0.035		0.042	0.043	0.044			*L	0.999
5)													
36) l2	toxaphene-4			0.041	0.040		0.042	0.043	0.045			*L	0.999
2)													
37) l2	toxaphene-5			0.053	0.041		0.039	0.039	0.040			*L	0.999
9)													

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Signal #2 Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra			1.206	1.206	1.141	1.107	1.082	1.085	1.067	1.091	1.038	1.114	5.33
3)	t	Hexachloroben			1.451	1.390	1.323	1.249	1.197	1.146	1.145	1.144	1.106	1.239	9.92
4)	t	alpha-BHC			1.558	1.563	1.526	1.479	1.547	1.686	1.736	1.764	1.719	1.620	6.53
5)	t	gamma-BHC (li		1.777	1.551	1.516	1.480	1.413	1.442	1.525	1.563	1.584	1.540	1.539	6.46
6)	t	beta-BHC			0.854	0.824	0.779	0.737	0.692	0.642	0.639	0.637	0.614	*L	0.999
6)															
7)	t	delta-BHC			1.529	1.507	1.460	1.411	1.443	1.548	1.598	1.627	1.582	1.523	4.86
8)	t	Heptachlor			1.786	1.721	1.657	1.575	1.545	1.553	1.565	1.548	1.427	1.598	6.72
9)	t	Aldrin			1.511	1.468	1.436	1.367	1.367	1.434	1.469	1.478	1.382	1.435	3.65
10)	t	Alachlor			0.293	0.281	0.264	0.241	0.197	0.183	0.172		*L	0.996	
7)															
11)	t	Chlorpyrifos			1.095	1.043	0.969	0.877	0.736	0.700	0.666		*L	0.998	
3)															
12)	t	Heptachlor Ep		1.616	1.577	1.520	1.425	1.372	1.353	1.362	1.352	1.252	1.425	8.44	
13)	t	gamma-Chlorda		1.483	1.457	1.376	1.298	1.234	1.224	1.252	1.275	1.205	1.312	7.85	
14)	t	alpha-Chlorda		1.641	1.577	1.521	1.435	1.382	1.359	1.381	1.400	1.318	1.446	7.54	
15)	t	4,4'-DDE		1.377	1.359	1.330	1.263	1.272	1.348	1.390	1.418	1.327	1.343	3.82	
16)	t	Endosulfan I		1.515	1.476	1.419	1.334	1.284	1.260	1.269	1.263	1.167	1.332	8.59	
17)	t	Dieldrin		1.415	1.389	1.352	1.281	1.267	1.305	1.334	1.344	1.257	1.327	4.11	
18)	t	Endrin		1.442	1.411	1.375	1.305	1.290	1.326	1.350	1.356	1.265	1.347	4.25	
19)	t	4,4'-DDD		1.118	1.104	1.084	1.022	1.026	1.071	1.106	1.134	1.088	1.084	3.57	
20)	t	Endosulfan II		1.364	1.341	1.298	1.220	1.180	1.154	1.164	1.150	1.053	1.214	8.39	
21)	t	4,4'-DDT		1.293	1.294	1.271	1.196	1.196	1.227	1.262	1.290	1.222	1.250	3.26	
22)	t	Endrin Aldehyde		1.156	1.131	1.093	1.025	0.982	0.941	0.951	0.957	0.906	*L	0.999	
3)															
23)	t	Methoxychlor		0.848	0.816	0.797	0.739	0.695	0.630	0.620	0.614	0.581	0.704	14.13	
24)	t	Mirex			1.298	1.250	1.156	1.061	0.921	0.910	0.914	0.867	*L	0.999	
3)															
25)	t	Endosulfan Su		1.382	1.336	1.302	1.218	1.159	1.107	1.116	1.118	1.054	1.199	9.68	
26)	t	Endrin Ketone		1.378	1.372	1.340	1.264	1.245	1.205	1.207	1.200	1.136	1.261	6.75	
27)	s	Decachlorobip		1.252	1.219	1.185	1.105	1.040	0.936	0.932	0.943	0.929	1.060	12.61	
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.054	0.052	0.044	0.039	0.040	0.040	0.035		*L	0.996	
3)															
30)	l1	chlordane-3			0.070	0.064	0.055	0.047	0.046	0.044	0.037		*L	0.991	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454059**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Signal #2 Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
2)														
31)	l1	chlordane-4			0.208	0.191	0.166	0.163	0.167	0.169	0.147		*L	0.995
9)														
32)	l1	chlordane-5			0.162	0.149	0.130	0.126	0.128	0.129	0.113		*L	0.996
1)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.028	0.028		0.023	0.023	0.024			*L	0.999
7)														
35)	l2	toxaphene-3			0.042	0.040		0.035	0.035	0.035			*L	0.999
8)														
36)	l2	toxaphene-4			0.049	0.047		0.041	0.041	0.042			*L	0.999
7)														
37)	l2	toxaphene-5			0.050	0.045		0.038	0.038	0.039			*L	0.999
7)														

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2024\240722ical\
Method File : pest20_2024_07_22_ugL_ICAL.m
Title : pest
Last Update : Tue Jul 23 14:34:40 2024
Response Via : Initial Calibration

Calibration Files
1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------												
2)	s	2,4,5,6-Tetra...		1.644	1.499	1.427	1.363	1.265	1.143	1.147	1.086	1.055	*L		0.998
3)		Hexachloroben...			1.707	1.607	1.513	1.384	1.194	1.174	1.119	1.086	*L		0.999
4)		alpha-BHC		1.785	1.698	1.641	1.573	1.538	1.508	1.541	1.500	1.487	1.586		6.42
5)		gamma-BHC (li...	1.895	1.736	1.660	1.586	1.512	1.448	1.371	1.389	1.355	1.336	1.529		12.25
6)		beta-BHC			0.941	0.888	0.849	0.769	0.651	0.639	0.609	0.596	*L		0.999
7)		delta-BHC		1.696	1.612	1.549	1.490	1.425	1.376	1.403	1.380	1.374	1.478		7.92
8)		Heptachlor		1.829	1.732	1.655	1.591	1.448	1.324	1.323	1.290	1.251	1.494		14.30
9)		Aldrin		1.619	1.546	1.494	1.427	1.353	1.284	1.299	1.278	1.249	1.394		9.56
10)		Alachlor			0.278	0.282	0.266	0.254	0.212	0.197	0.181		*L		0.995
11)		Chlorpyrifos			0.976	0.933	0.886	0.783	0.625	0.587	0.549		*L		0.996
12)		Heptachlor Ep...		1.654	1.552	1.512	1.429	1.320	1.195	1.188	1.160	1.129	1.349		14.41
13)		gamma-Chlorda...			1.497	1.403	1.502	1.193	1.085	1.083	1.067	1.049	*L		0.999
14)		alpha-Chlorda...		1.706	1.615	1.553	1.477	1.352	1.227	1.220	1.198	1.173	*L		0.999
15)		4,4'-DDE		1.496	1.461	1.444	1.363	1.284	1.240	1.255	1.241	1.212	1.333		8.22
16)		Endosulfan I		1.514	1.437	1.405	1.327	1.228	1.130	1.125	1.102	1.078	1.261		13.01

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2024\240722ical\
Method File : pest20_2024_07_22_ugL_ICAL.m
Title : pest
Last Update : Tue Jul 23 14:34:40 2024
Response Via : Initial Calibration

Calibration Files
1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)		Dieldrin		1.575	1.491	1.423	1.431	1.241	1.175	1.182	1.172	1.143	1.315	12.52
18)		Endrin		1.496	1.460	1.411	1.335	1.257	1.181	1.184	1.169	1.134	1.292	10.64
19)		4,4'-DDD		1.243	1.219	1.191	1.115	1.048	0.999	1.005	0.992	0.964	1.086	9.96
20)		Endosulfan II		1.434	1.360	1.318	1.233	1.144	1.043	1.040	1.019	0.985	1.175	14.19
21)		4,4'-DDT		1.433	1.377	1.331	1.243	1.168	1.085	1.083	1.063	1.027	*L	0.999
4														
22)		Endrin Aldehyde		1.122	1.121	1.093	1.031	0.955	0.899	0.900	0.878	0.841	*L	0.999
1														
23)		Methoxychlor			0.899	0.858	0.804	0.745	0.620	0.597	0.564	0.529	*L	0.997
0														
24)		Mirex			1.441	1.369	1.246	1.138	0.941	0.908	0.865	0.825	*L	0.998
2														
25)		Endosulfan Su...		1.493	1.383	1.352	1.238	1.128	0.990	0.982	0.951		*L	0.999
1														
26)		Endrin Ketone		1.545	1.499	1.445	1.328	1.257	1.138	1.129	1.093	1.046	1.275	14.69
27)	s	Decachlorobip...			1.662	1.558	1.442	1.334	1.117	1.085	1.028		*L	0.998
6														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.057	0.055	0.048	0.042	0.040	0.039			*L	0.998
4														
30)	l1	chlordane-3			0.075	0.072	0.062	0.053	0.048	0.046			*L	0.996
4														
31)	l1	chlordane-4			0.295	0.236	0.183	0.171	0.165	0.161			*L	0.999
7														
32)	l1	chlordane-5			0.358	0.335	0.280	0.264	0.255	0.248			*L	0.999
4														

Method Path : I:\PEST\Pest20\2024\240722ical\
Method File : pest20_2024_07_22_ugL_ICAL.m
Title : pest
Last Update : Tue Jul 23 14:34:40 2024
Response Via : Initial Calibration

Calibration Files
1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.043	0.049		0.045	0.042	0.037			*L	0.9924
35)	l2	toxaphene-2			0.047	0.044		0.044	0.041	0.037			*L	0.9958
36)	l2	toxaphene-4			0.038	0.031		0.028	0.027	0.024			*L	0.9957
37)	l2	toxaphene-5			0.053	0.048		0.043	0.041	0.037			*L	0.9964

Signal #2 Calibration Files
1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...			1.450	1.362	1.318	1.260	1.198	1.124	1.131	1.094	1.074	1.223	10.77
3)		Hexachloroben...			1.539	1.464	1.388	1.290	1.153	1.145	1.108	1.086	*L	0.9996
4)		alpha-BHC			1.634	1.553	1.526	1.475	1.468	1.505	1.556	1.539	1.546	1.533	3.23
5)		gamma-BHC (li...		1.792	1.617	1.525	1.471	1.414	1.384	1.370	1.407	1.395	1.393	1.477	9.14
6)		beta-BHC			0.872	0.823	0.780	0.730	0.643	0.637	0.617	0.611	*L	0.9997
7)		delta-BHC			1.608	1.490	1.451	1.394	1.369	1.380	1.427	1.428	1.441	1.443	5.02
8)		Heptachlor			1.675	1.555	1.505	1.433	1.351	1.278	1.299	1.280	1.249	1.403	10.58
9)		Aldrin			1.432	1.352	1.311	1.253	1.210	1.199	1.228	1.226	1.205	1.268	6.32

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2024\240722ical\
Method File : pest20_2024_07_22_ugL_ICAL.m
Title : pest
Last Update : Tue Jul 23 14:34:40 2024
Response Via : Initial Calibration

Calibration Files
1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	Alachlor			0.254	0.243	0.234	0.219	0.181	0.170	0.160		*L	0.997
11)	Chlorpyrifos			0.921	0.889	0.834	0.752	0.624	0.595	0.565		*L	0.998
12)	Heptachlor Ep...		1.532	1.419	1.363	1.305	1.219	1.149	1.157	1.147	1.123	1.268	11.39
13)	gamma-Chlorda...			1.247	1.195	1.156	1.065	1.008	1.021	1.020	1.009	1.090	8.75
14)	alpha-Chlorda...		1.463	1.371	1.327	1.271	1.195	1.126	1.136	1.129	1.112	1.237	10.31
15)	4,4'-DDE		1.326	1.256	1.223	1.230	1.121	1.130	1.158	1.161	1.132	1.193	5.86
16)	Endosulfan I		1.357	1.282	1.227	1.179	1.113	1.054	1.066	1.060	1.037	1.153	9.97
17)	Dieldrin		1.316	1.244	1.210	1.152	1.103	1.089	1.115	1.120	1.099	1.161	6.78
18)	Endrin		1.345	1.280	1.239	1.174	1.131	1.111	1.136	1.139	1.111	1.185	7.05
19)	4,4'-DDD		1.110	1.054	1.015	0.958	0.932	0.924	0.946	0.947	0.927	0.979	6.73
20)	Endosulfan II		1.313	1.231	1.188	1.118	1.059	0.996	1.006	0.999	0.969	1.098	11.11
21)	4,4'-DDT		1.288	1.206	1.173	1.103	1.070	1.037	1.052	1.043	1.014	1.110	8.37
22)	Endrin Aldehyde		1.027	0.993	0.959	0.910	0.859	0.848	0.861	0.853	0.824	*L	0.999
23)	Methoxychlor			0.820	0.775	0.708	0.661	0.573	0.560	0.538	0.506	*L	0.998
24)	Mirex			1.230	1.171	1.087	0.989	0.833	0.812	0.776	0.752	*L	0.998
25)	Endosulfan Su...		1.311	1.244	1.196	1.109	1.043	0.963	0.966	0.953		*L	0.999

Method Path : I:\PEST\Pest20\2024\240722ical\
Method File : pest20_2024_07_22_ugL_ICAL.m
Title : pest
Last Update : Tue Jul 23 14:34:40 2024
Response Via : Initial Calibration

Calibration Files
1 =20240722i-03.D 2 =20240722i-04.D 3 =20240722i-22.D 4 =20240722i-23.D 5 =20240722i-16.D
7 =20240722i-24.D 8 =20240722i-25.D 9 =20240722i-26.D 10 =20240722i-20.D 11 =20240722i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
26)		Endrin Ketone	1.393	1.333	1.297	1.209	1.171	1.097	1.101	1.082	1.042		1.192		10.45
27)	s	Decachlorobip...			1.277	1.205	1.140	1.071	0.916	0.898	0.859			*L	0.999
1															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1			0.050	0.049	0.043	0.037	0.035	0.032				*L	0.996
3															
30)	l1	chlordane-3			0.064	0.065	0.053	0.045	0.042	0.037				*L	0.992
9															
31)	l1	chlordane-4			0.189	0.175	0.150	0.141	0.137	0.126				*L	0.997
6															
32)	l1	chlordane-5			0.150	0.139	0.119	0.111	0.107	0.098				*L	0.997
2															
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1			0.022	0.026		0.022	0.022	0.021				*L	0.998
7															
35)	l2	toxaphene-2			0.035	0.038		0.033	0.032	0.031				*L	0.999
1															
36)	l2	toxaphene-4			0.042	0.043		0.038	0.037	0.036				*L	0.999
4															
37)	l2	toxaphene-5			0.045	0.042		0.036	0.035	0.034				*L	0.999
5															

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 17:57
Operator : pest20:ejl
Sample : pem20240722i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1950439,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:37:13 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:34:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.009	2.064	51188141	81824613	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.804	5.475	370747	550393	0.136	0.141
18)	Endrin	5.353	5.913	110.2E6	171.9E6	41.654	44.313
19)	4,4'-DDD	5.444	6.020	466697	574327	0.210	0.179
21)	4,4'-DDT	5.712	6.288	196.4E6	316.8E6	91.145	87.225
22)	Endrin Aldeh	5.966	6.390	287216	248230	N.D.	N.D.
26)	Endrin Keton	6.566	7.031	1458392	2156015	0.559	0.553
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

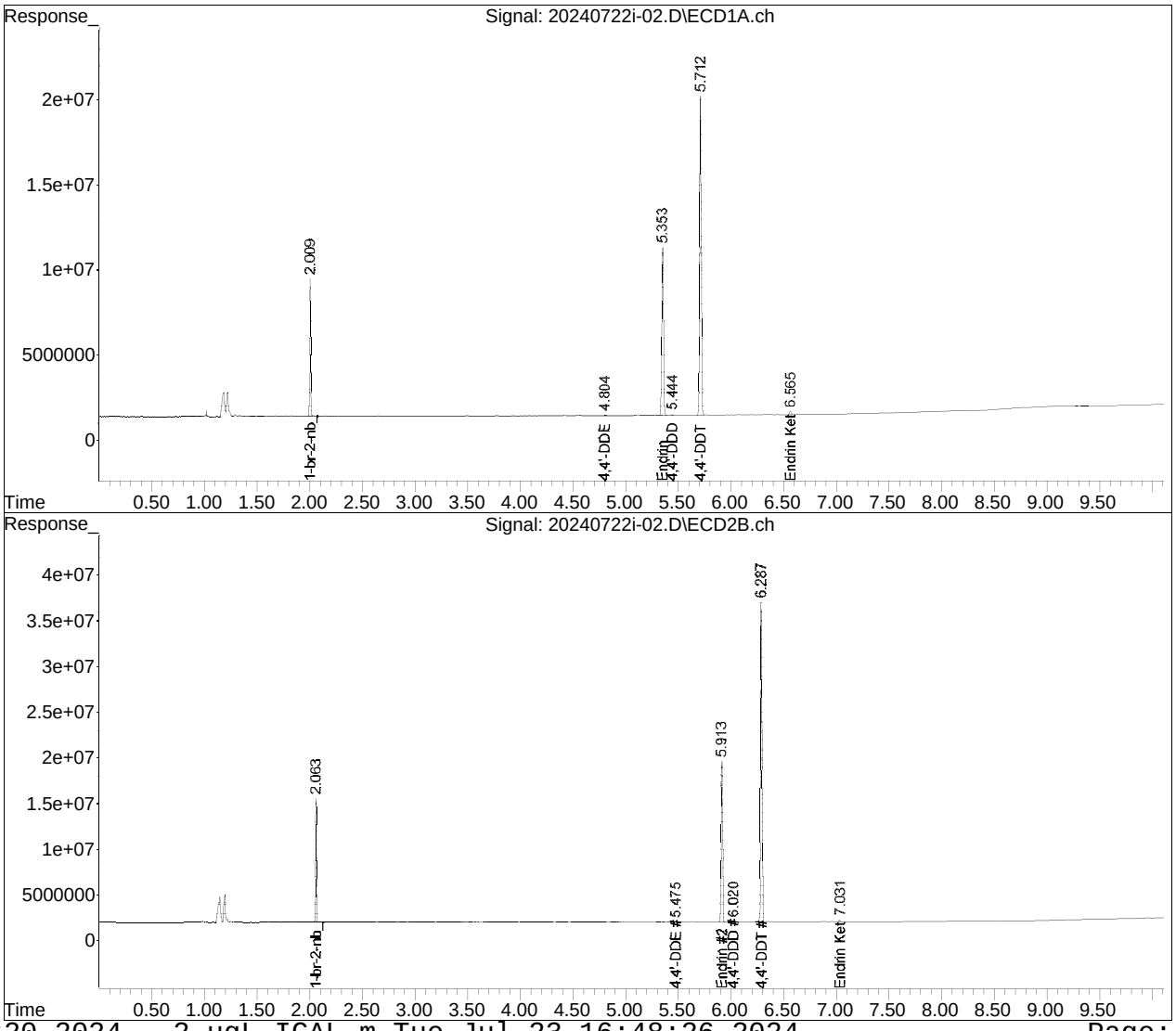
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 17:57
Operator : pest20:ejl
Sample : pem20240722i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (
Misc : WG1950439,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:37:13 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:34:40 2024
Response via : Initial Calibration
Integrator: ChemStation

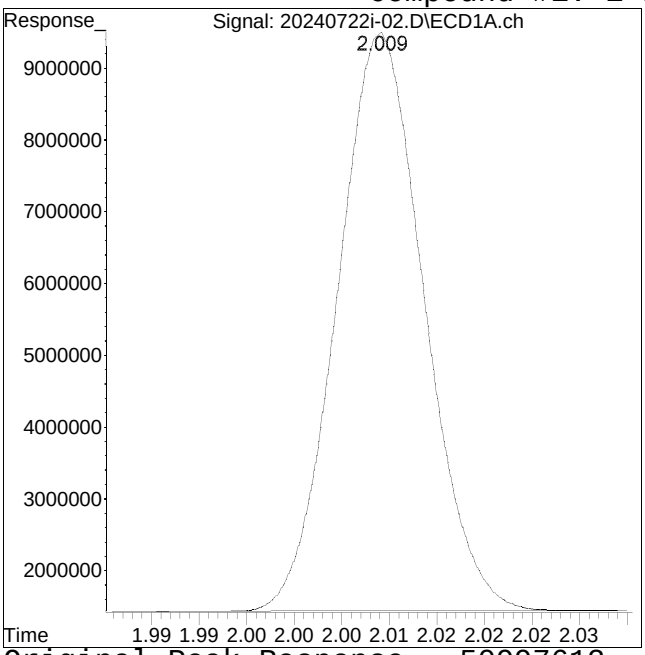
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



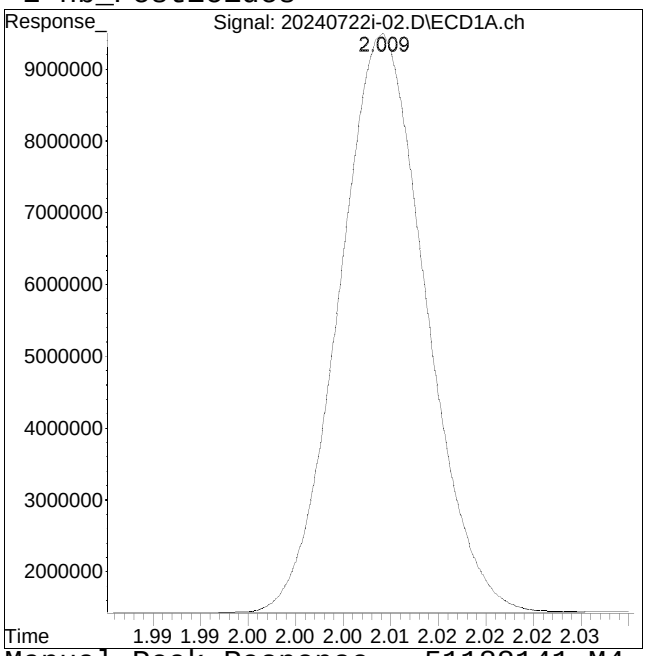
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-02.D
Date Inj'd : 7/22/2024 17:57
Sample : pem20240722i-01,42e,,pp 11
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:37 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 50997612



Manual Peak Response = 51188141 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:09
Operator : pest20:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:53:09 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:52:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.006	2.062	52058251	82759009	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	3.107	3.476	1972592	2965760	0.637M3	0.621M4
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:09
Operator : pest20:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:53:09 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:52:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

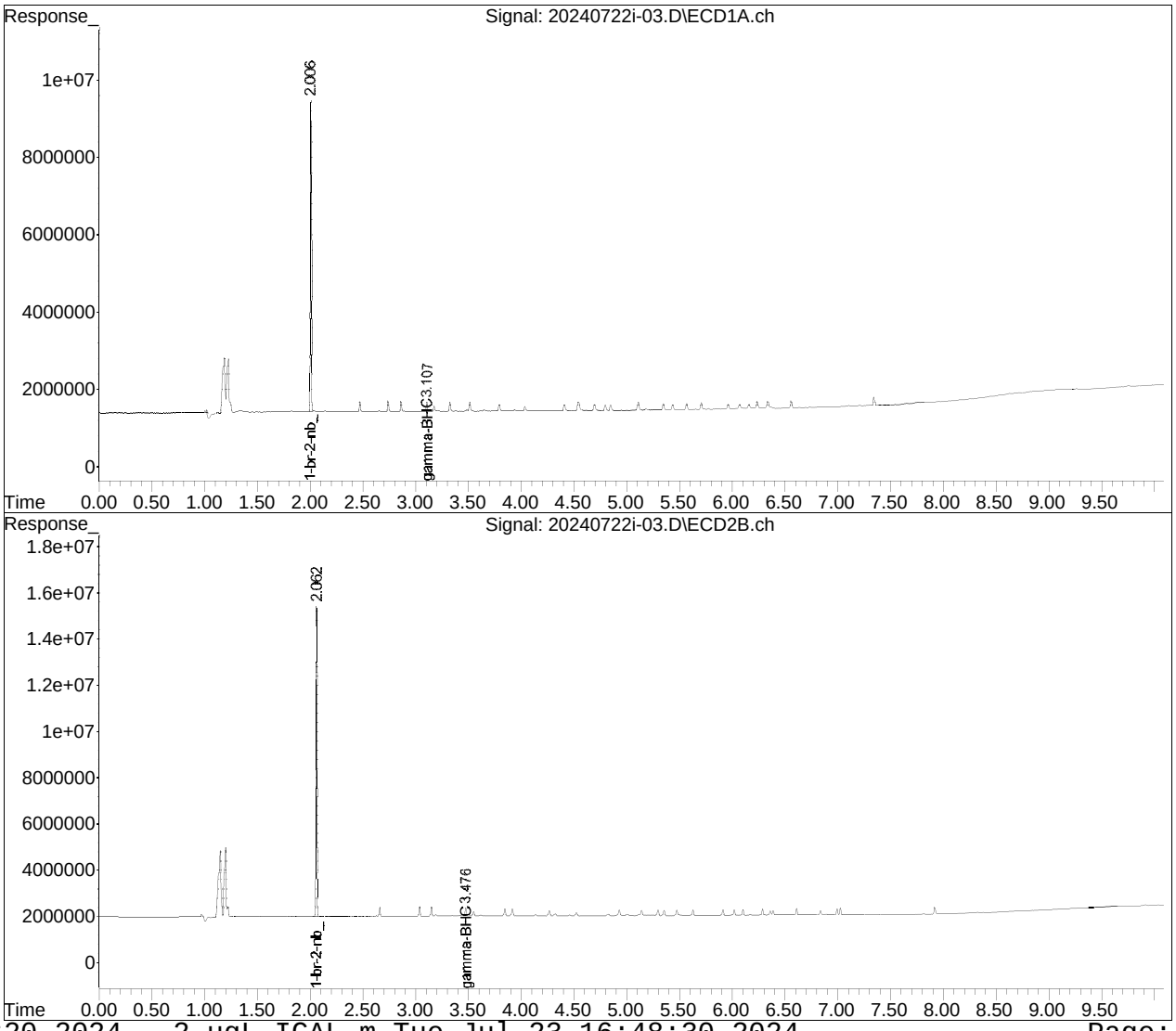
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:09
Operator : pest20:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:53:09 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:52:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

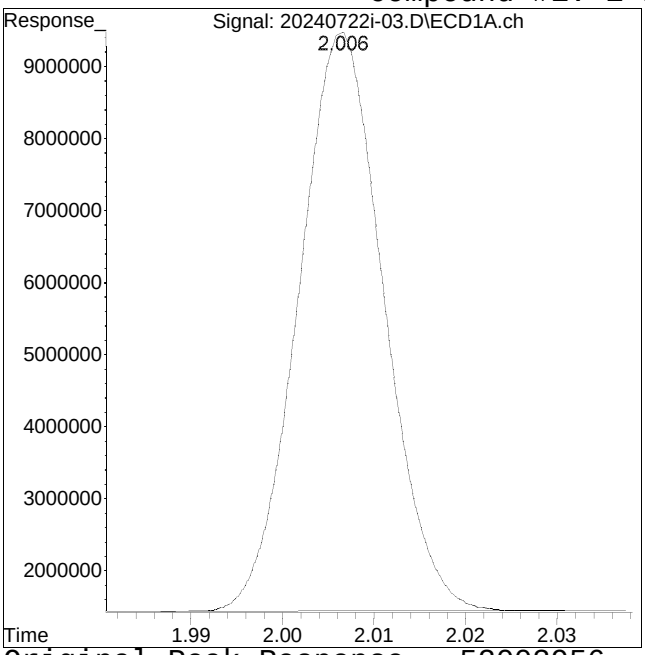


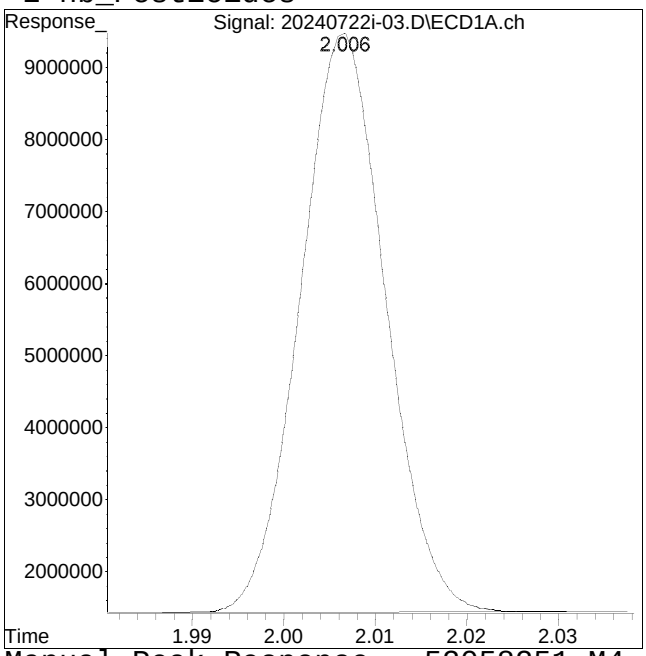
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-03.D
Date Inj'd : 7/22/2024 18:09
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:53 pm

Compound #1: 1-br-2-nb_Pesticides



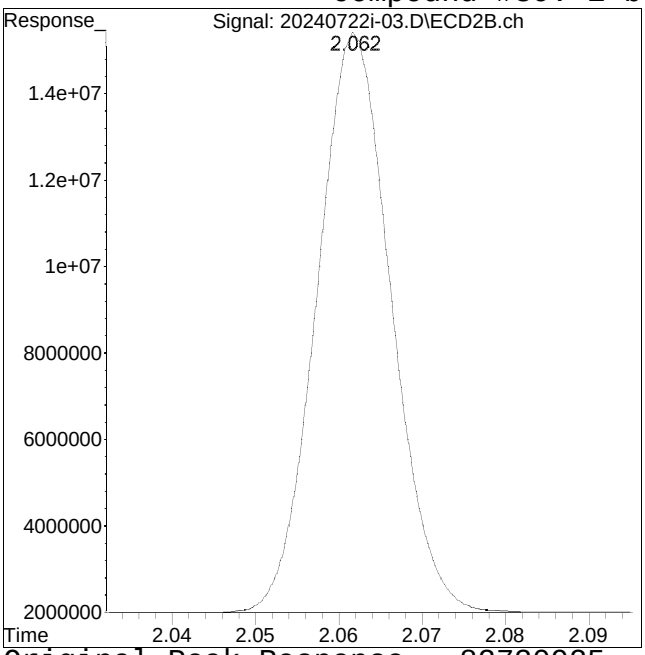


Original Peak Response = 52003956 Manual Peak Response = 52058251 M4
M4 = Poor automated baseline construction.

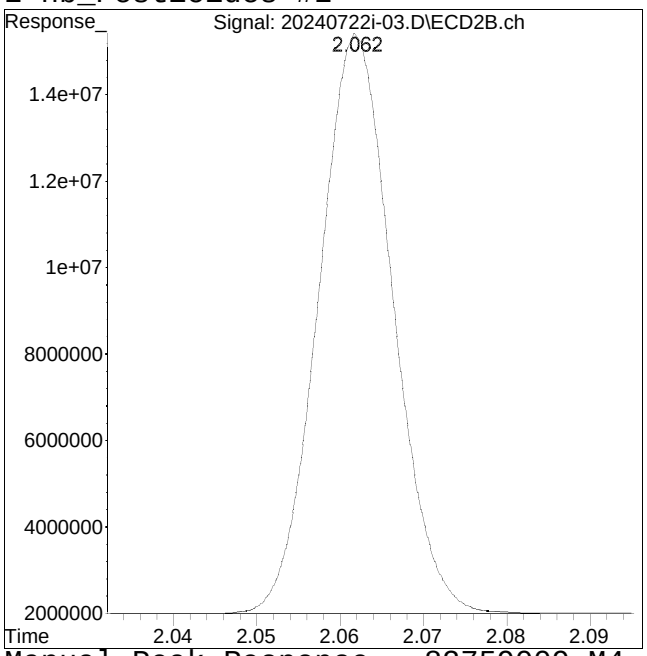
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-03.D
Date Inj'd : 7/22/2024 18:09
Sample : il1pest,42e,,pp 11687 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:53 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 82730925



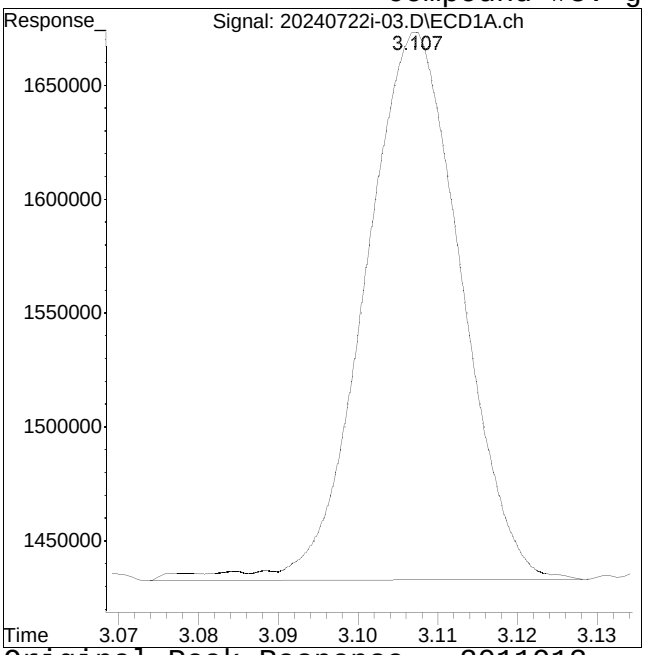
Manual Peak Response = 82759009 M4

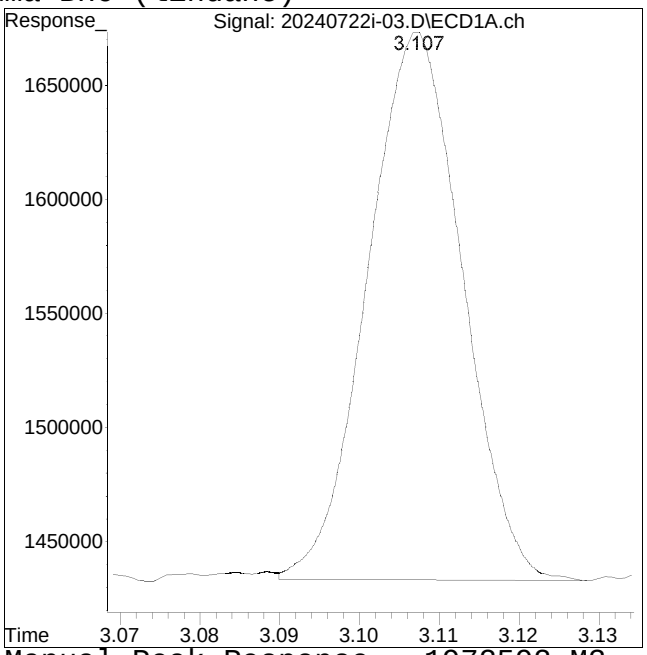
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-03.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:09 Instrument : PEST 20
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 7/23/2024 1:53 pm

Compound #5: gamma-BHC (lindane)



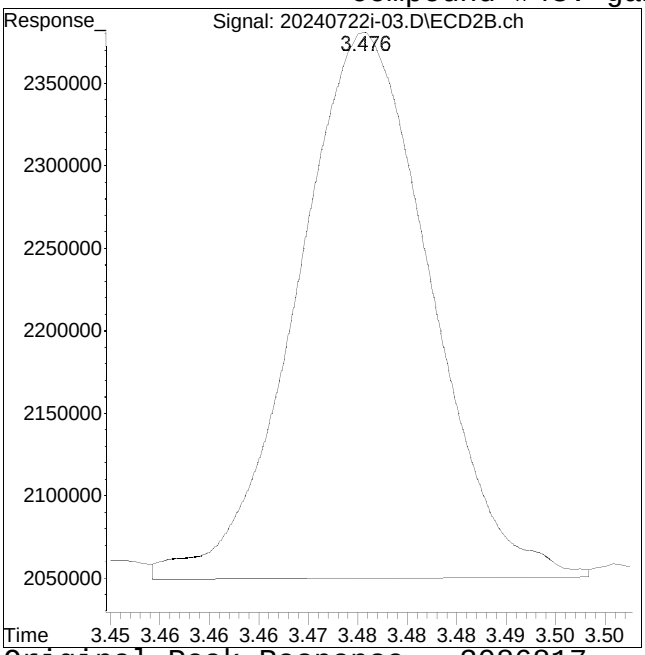


Original Peak Response = 2011913 Manual Peak Response = 1972592 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

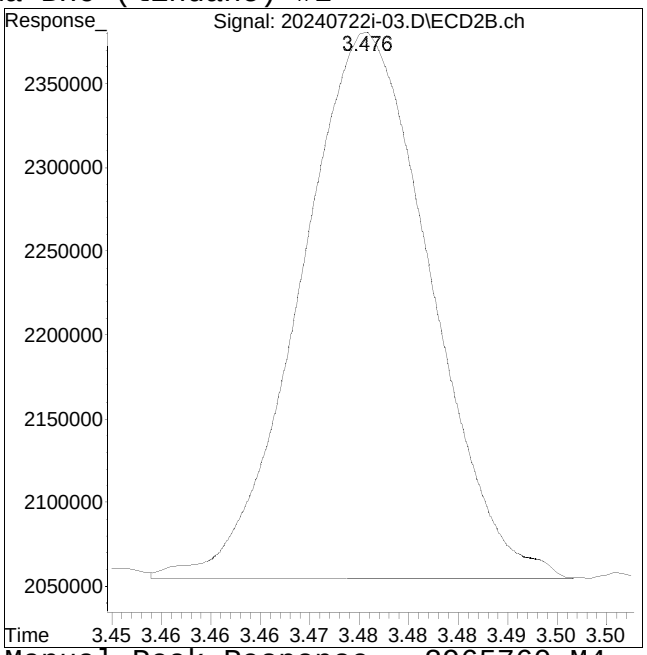
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-03.D
Date Inj'd : 7/22/2024 18:09
Sample : il1pest,42e,,pp 11687 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:53 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 3086817



Manual Peak Response = 2965760 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:21
Operator : pest20:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:37:56 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:34:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.007	2.063	52121802	83371117	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.473	2.663	3428155	4836518	1.317	1.214M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.63%#	2.43%#
27) s	Decachlorobi	7.340	7.912	3509553	4320496	1.320	1.266
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.64%#	2.53%#
	Target Compounds						
3)	Hexachlorobe	2.740	3.040	3838035	5553450	1.366	1.310
4)	alpha-BHC	2.863	3.152	3721675	5447511	1.144	1.074
5)	gamma-BHC (l	3.107	3.476	3620042	5392963	1.192	1.139
6)	beta-BHC	3.175	3.551	2064185	3101821	1.333	1.303
7)	delta-BHC	3.325	3.848	3535125	5363108	1.169	1.131
8)	Heptachlor	3.513	3.917	3812261	5585182	1.260	1.224M4
9)	Aldrin	3.792	4.267	3375781	4775686	1.185	1.148
10)	Alachlor	3.934	4.141	563696	844073	1.134M3	1.212M4
11)	Chlorpyrifos	4.035	4.524	2202614	3333449	1.385	1.351
12)	Heptachlor E	4.408	4.929	3448784	5108150	1.262M4	1.240M4
13)	gamma-Chlord	4.544	5.141	3405851	4467567	1.323	1.229M4
14)	alpha-Chlord	4.694	5.296	3557567	4880439	1.262	1.211M4
15)	4,4'-DDE	4.795	5.474	3118656	4422257	1.140	1.127
16)	Endosulfan I	4.846	5.354	3156206	4525446	1.232	1.204

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:21
Operator : pest20:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:37:56 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:34:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)	Dieldrin	5.109	5.627	3284413	4389875	1.228	1.153
18)	Endrin	5.346	5.911	3119178	4484121	1.181	1.154M3
19)	4,4'-DDD	5.434	6.018	2592078	3702948	1.166	1.153M4
20)	Endosulfan I	5.566	6.100	2990654	4377543	1.255M4	1.226M4
21)	4,4'-DDT	5.705	6.286	2987173	4295916	1.222M4	1.185M4
22)	Endrin Aldeh	5.959	6.386	2338904	3425673	1.163M4	1.157M4
23)	Methoxychlor	6.155	6.833	1954955	2812414	1.336M4	1.312M4
24)	Mirex	6.235	6.990	3110523	4422850	1.367	1.387
25)	Endosulfan S	6.334	6.608	3112962	4372639	1.336M3	1.249
26)	Endrin Keton	6.557	7.022	3220376	4644190	1.244M4	1.194
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:21
Operator : pest20:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:37:56 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:34:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

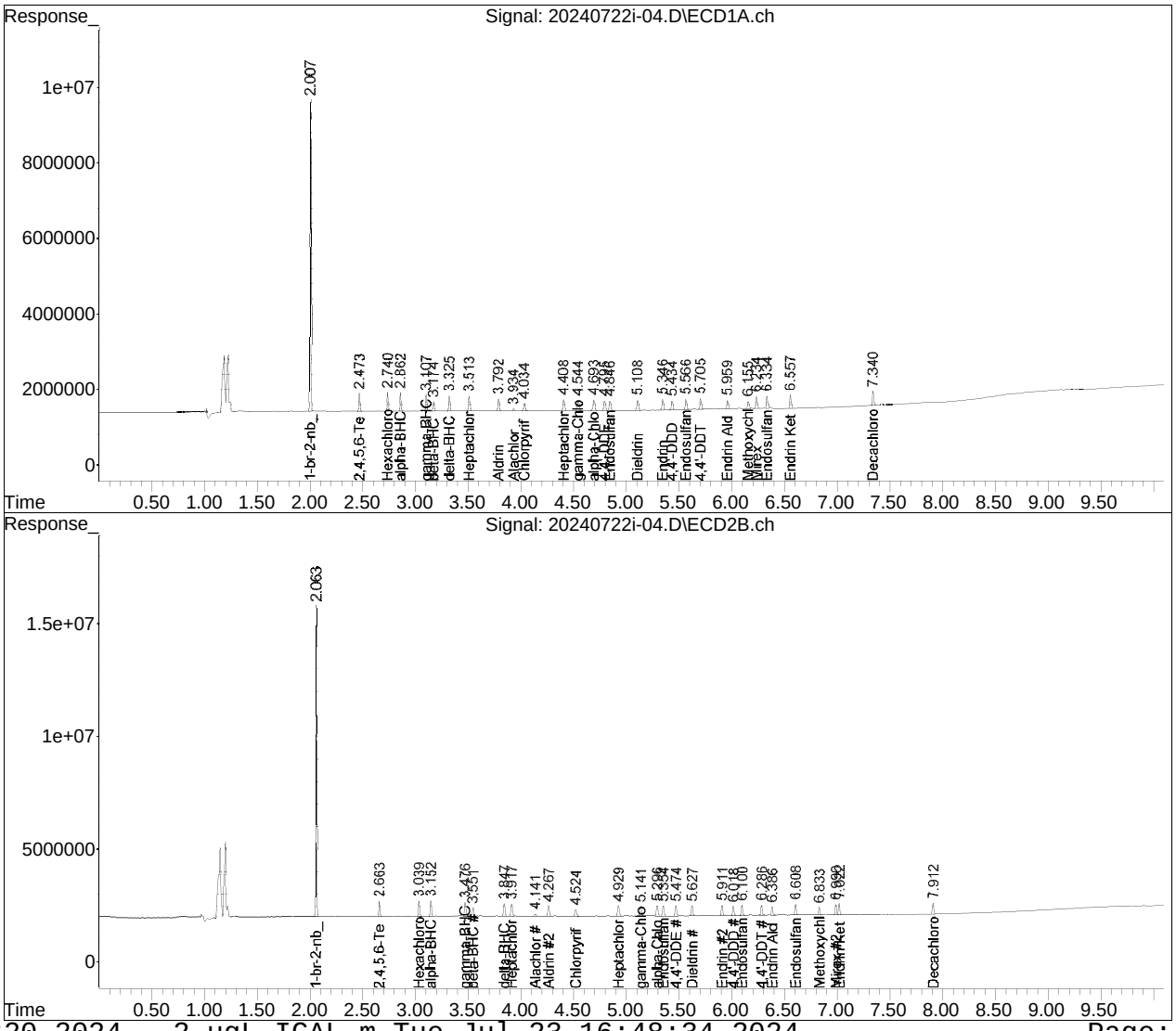
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:21
Operator : pest20:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:37:56 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:34:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

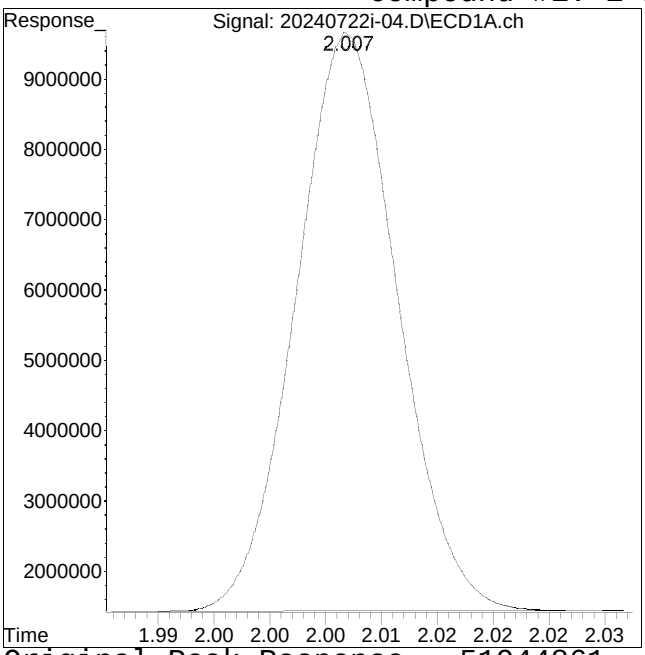


Manual Integration Report

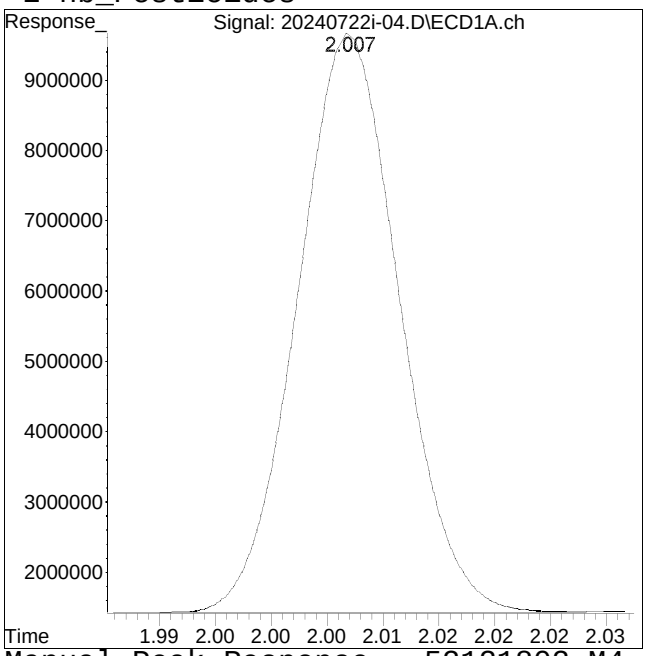
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 51944861



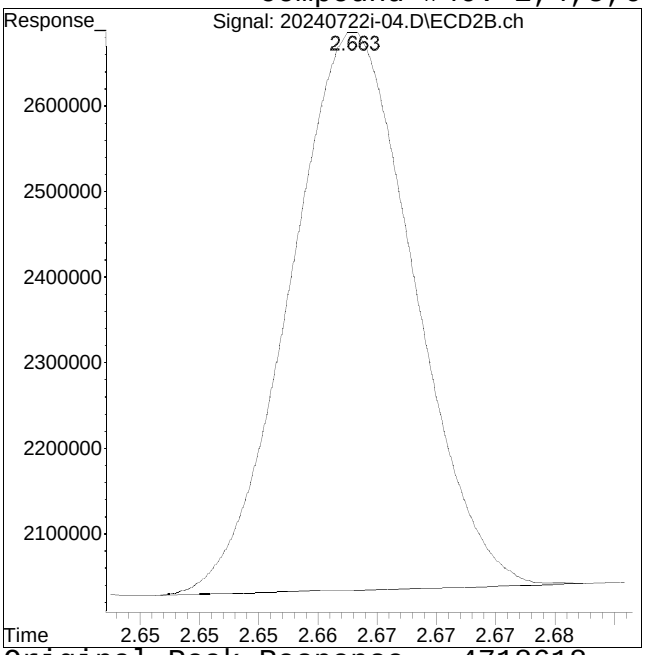
Manual Peak Response = 52121802 M4

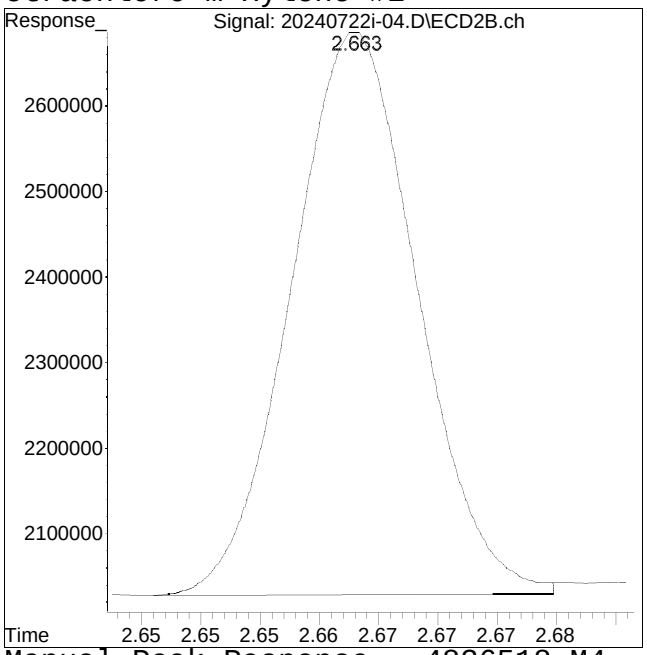
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



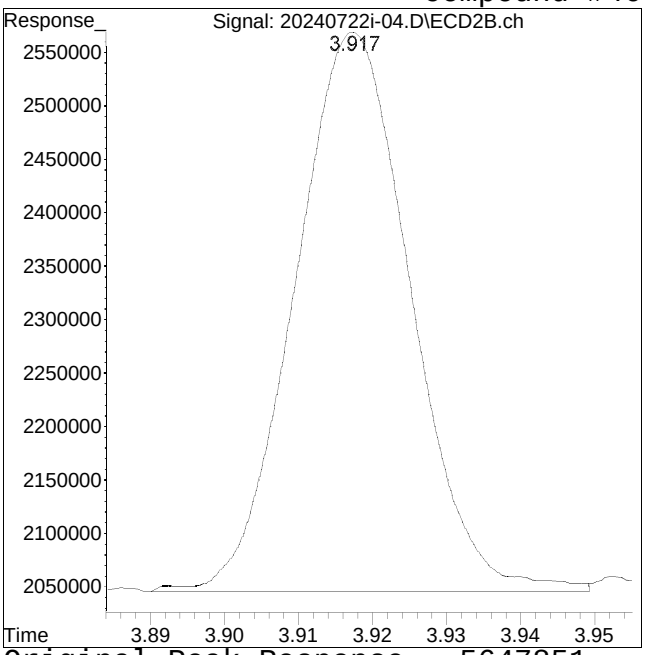


Original Peak Response = 4718618 Manual Peak Response = 4836518 M4
M4 = Poor automated baseline construction.

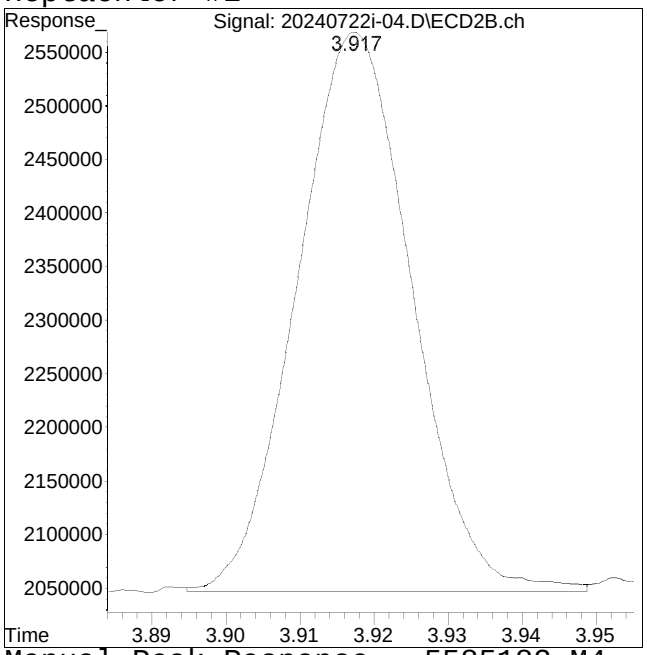
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #46: Heptachlor #2



Original Peak Response = 5647851



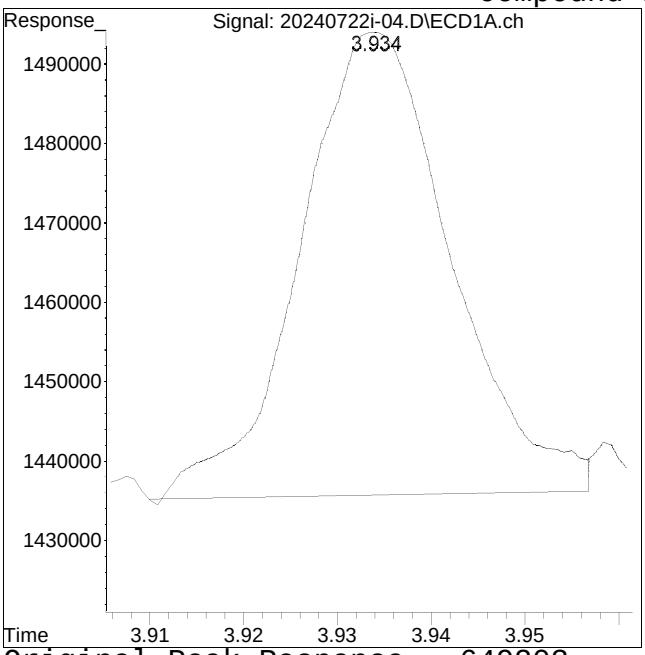
Manual Peak Response = 5585182 M4

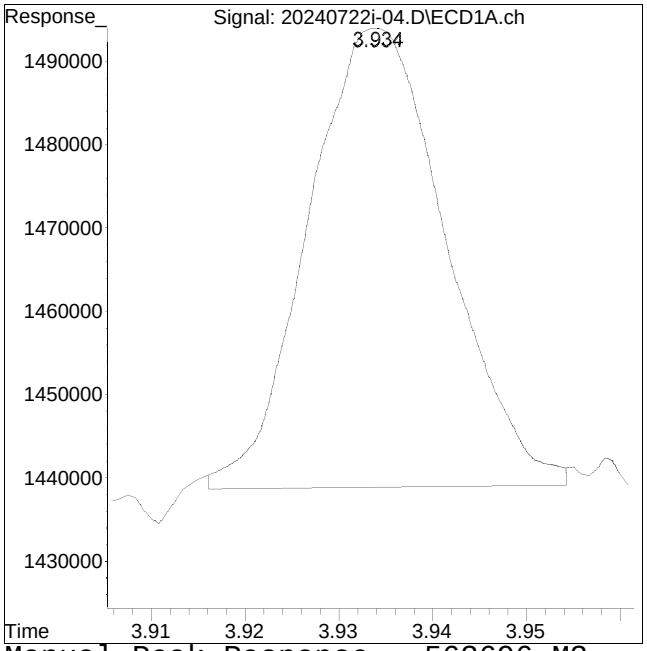
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #10: Alachlor





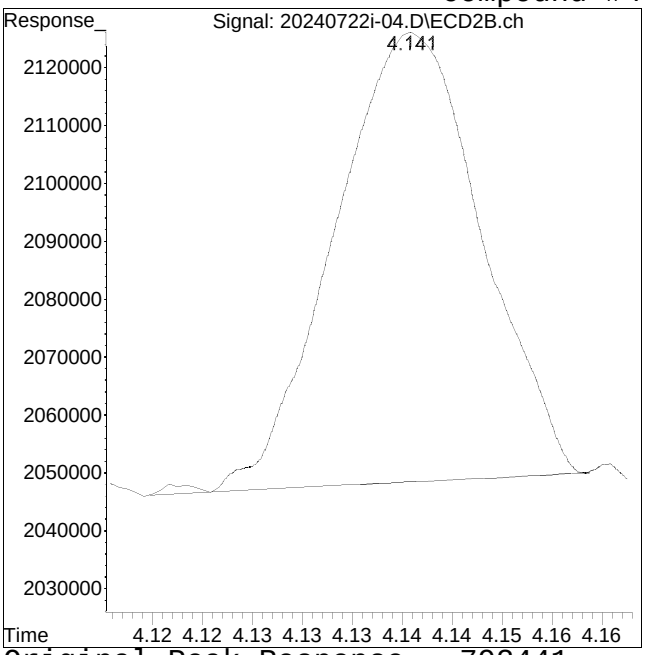
Original Peak Response = 649203 Manual Peak Response = 563696 M3

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

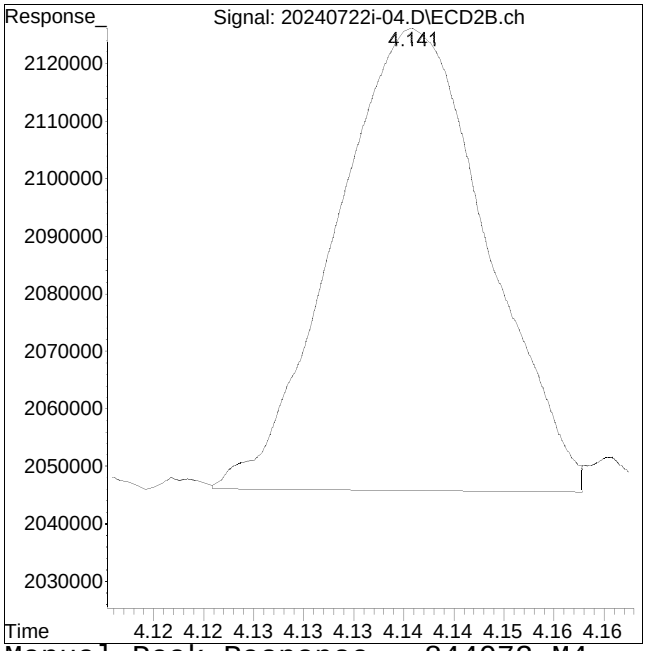
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #48: Alachlor #2



Original Peak Response = 792441



Manual Peak Response = 844073 M4

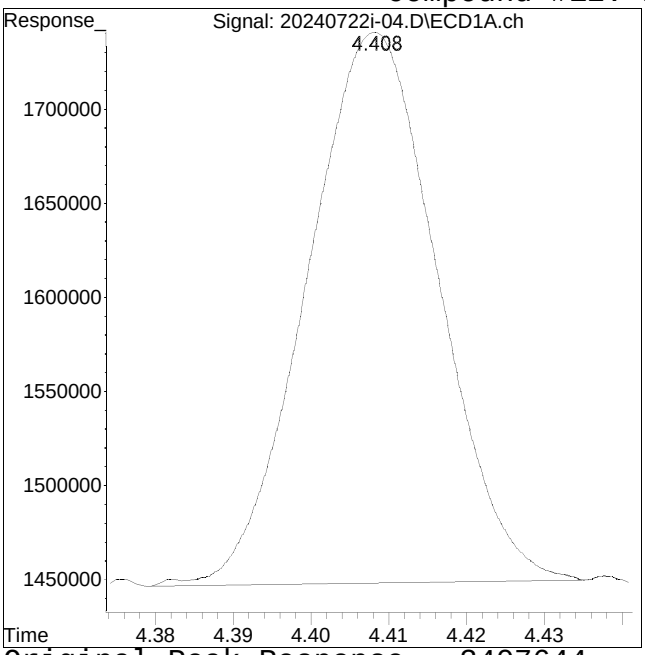
M4 = Poor automated baseline construction.

Manual Integration Report

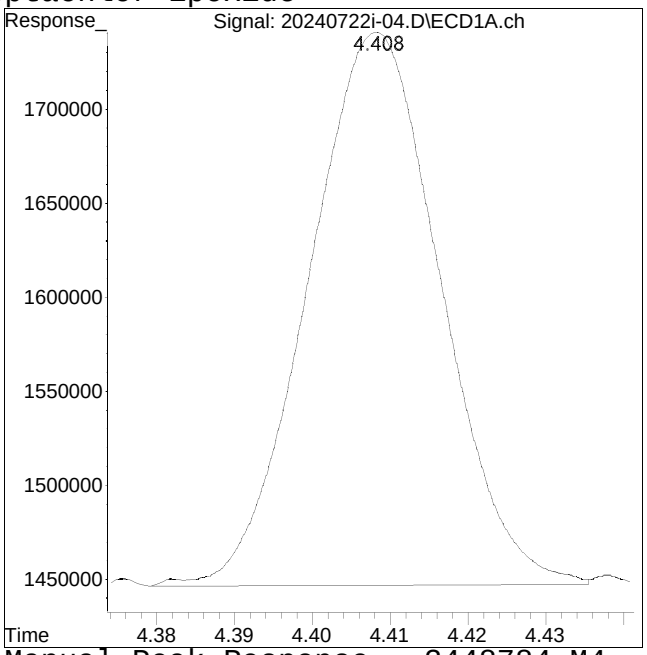
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 3407644



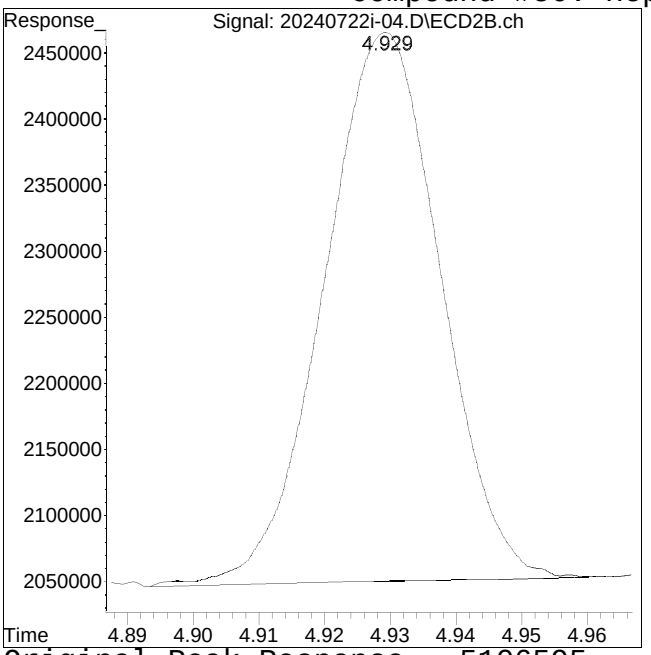
Manual Peak Response = 3448784 M4

M4 = Poor automated baseline construction.

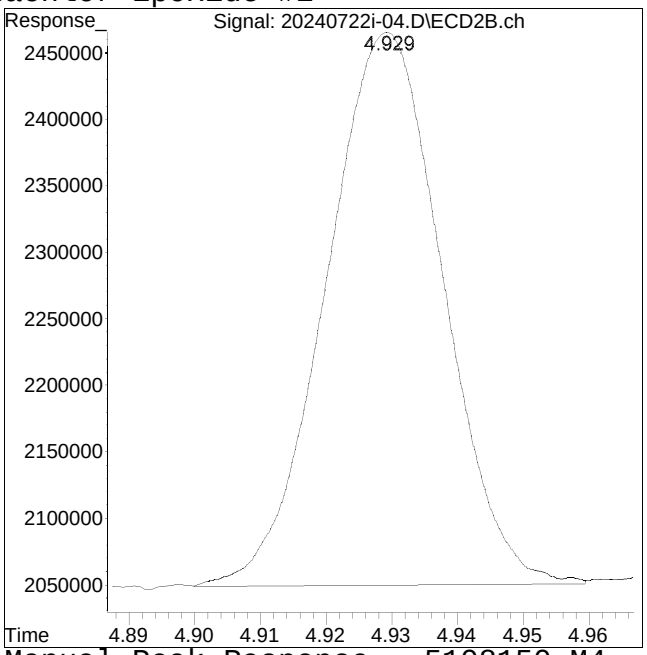
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 5106595



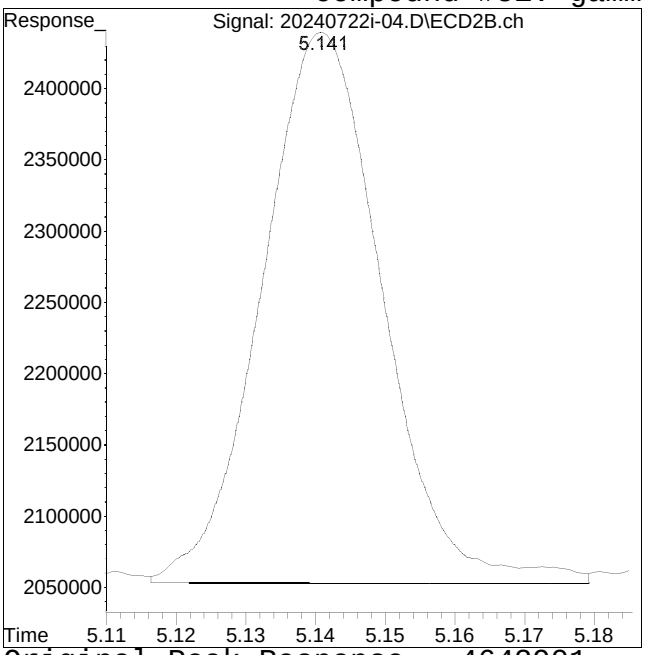
Manual Peak Response = 5108150 M4

M4 = Poor automated baseline construction.

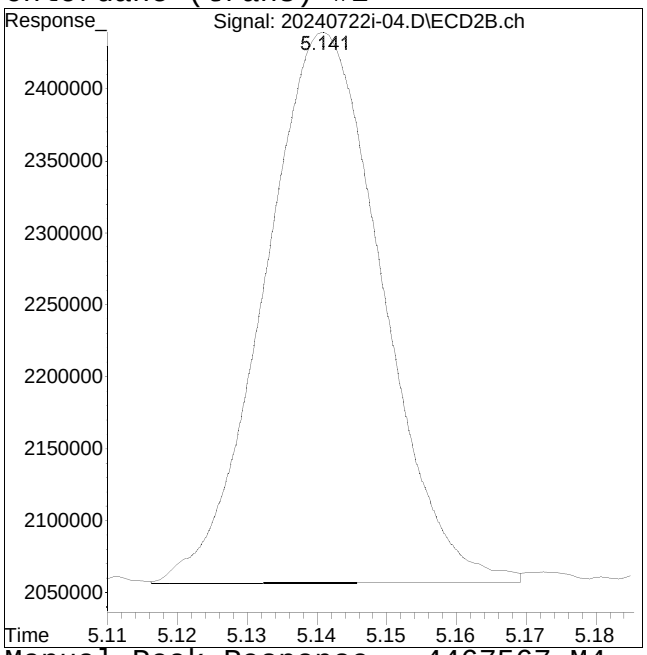
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 4642901



Manual Peak Response = 4467567 M4

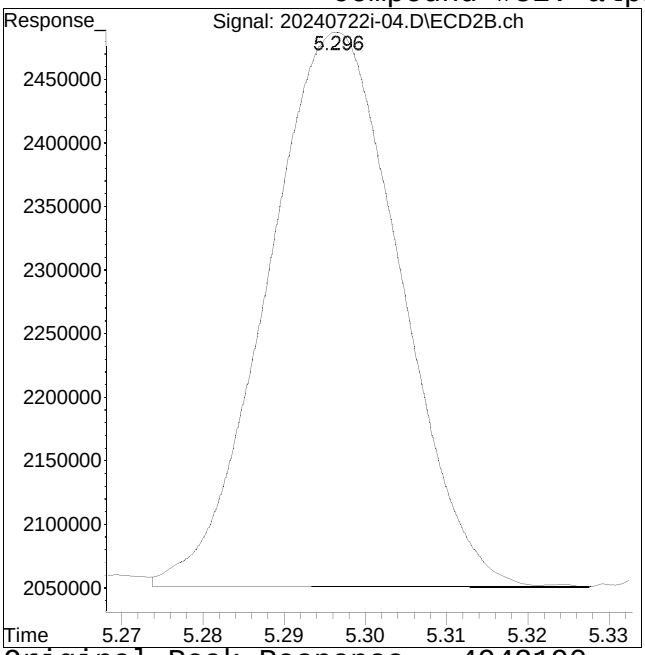
M4 = Poor automated baseline construction.

Manual Integration Report

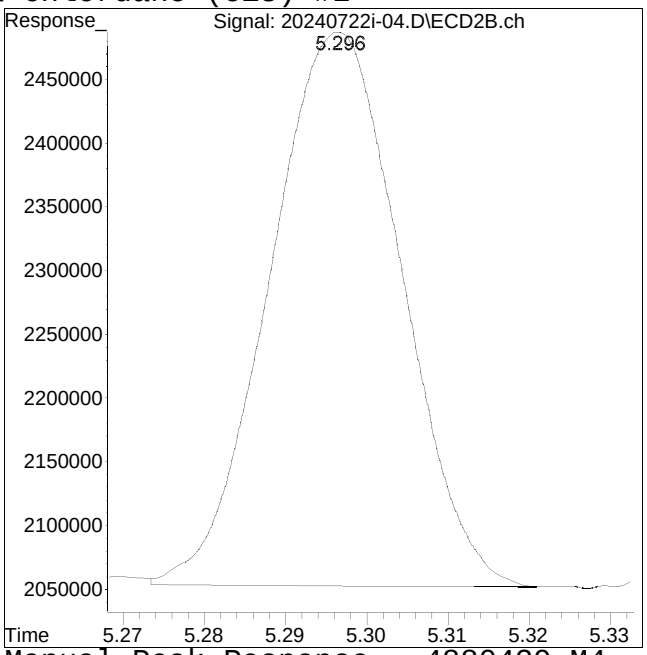
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 4942190



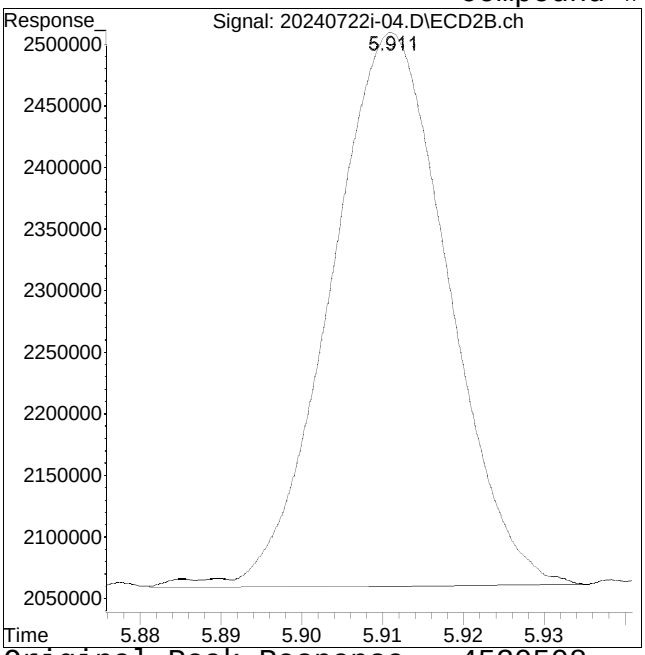
Manual Peak Response = 4880439 M4

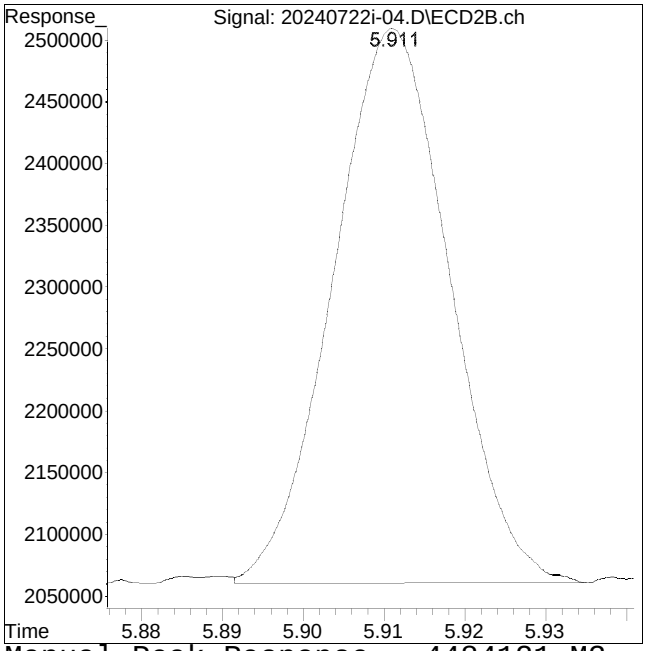
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #56: Endrin #2



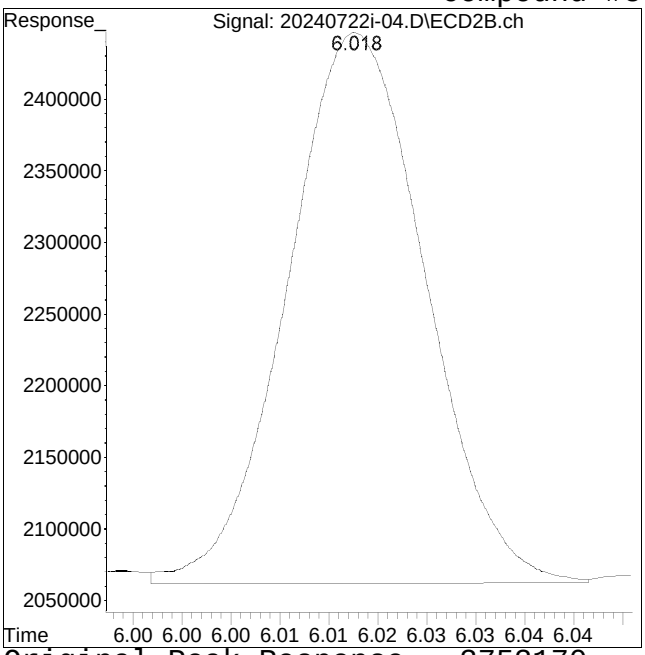


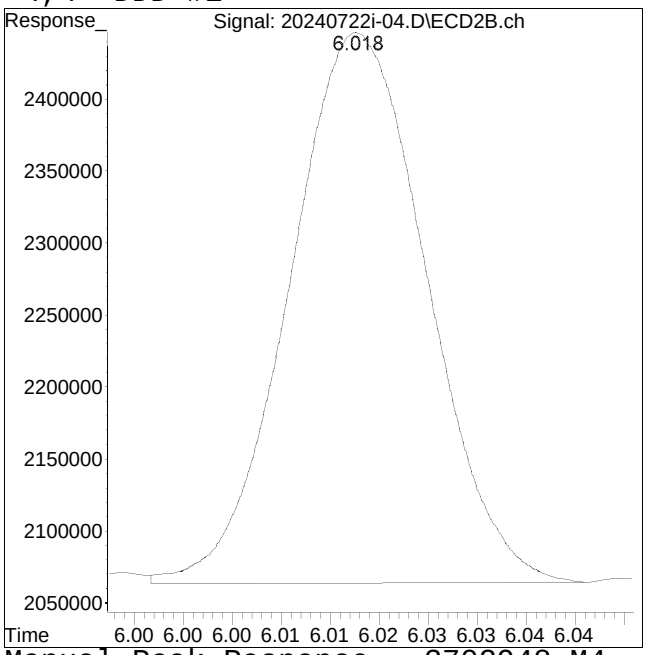
Original Peak Response = 4530508 Manual Peak Response = 4484121 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #57: 4,4'-DDD #2





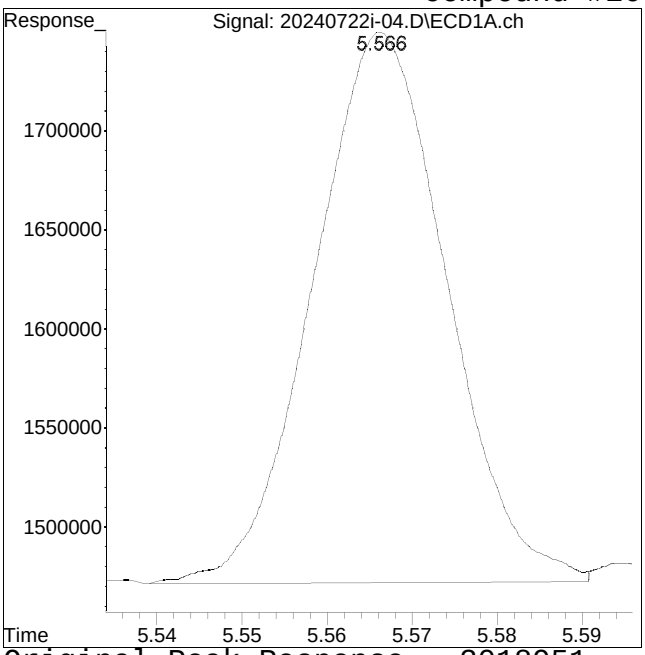
Original Peak Response = 3753170 Manual Peak Response = 3702948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

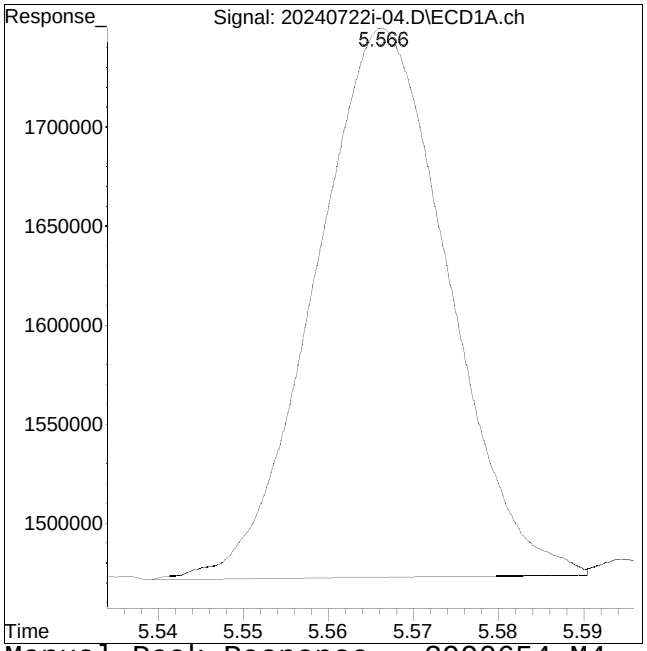
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #20: Endosulfan II



Original Peak Response = 3018951



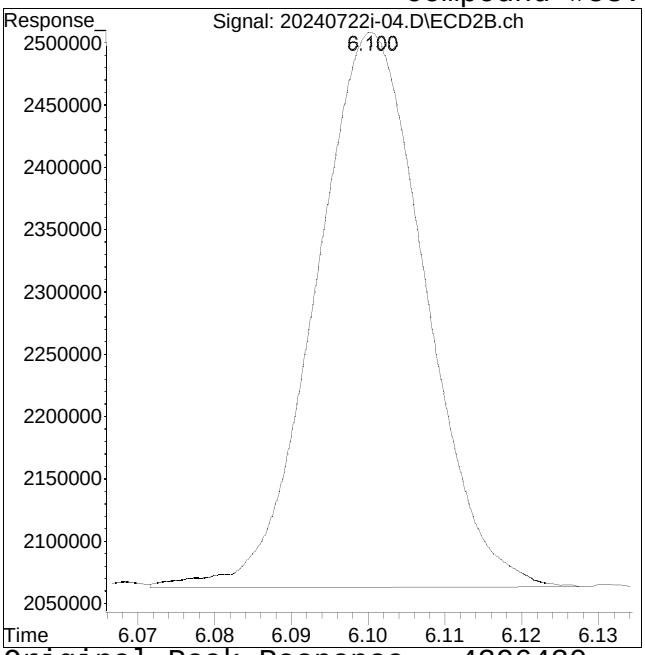
Manual Peak Response = 2990654 M4

M4 = Poor automated baseline construction.

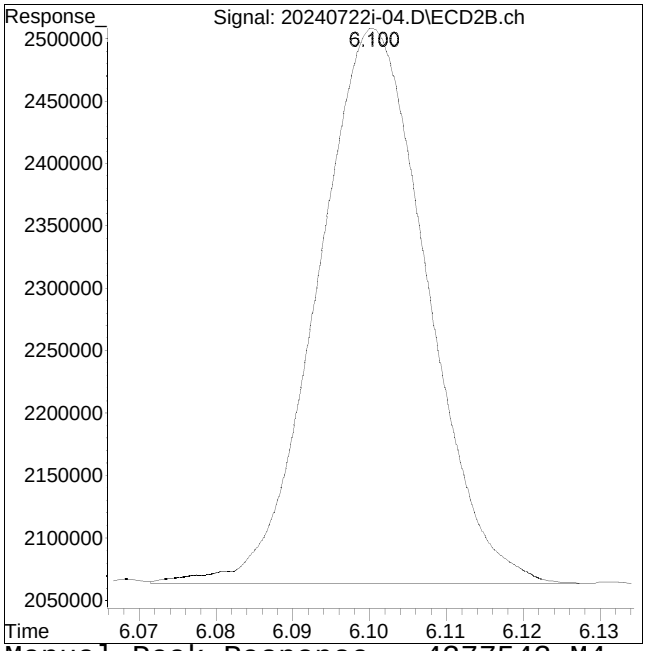
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #58: Endosulfan II #2



Original Peak Response = 4396430



Manual Peak Response = 4377543 M4

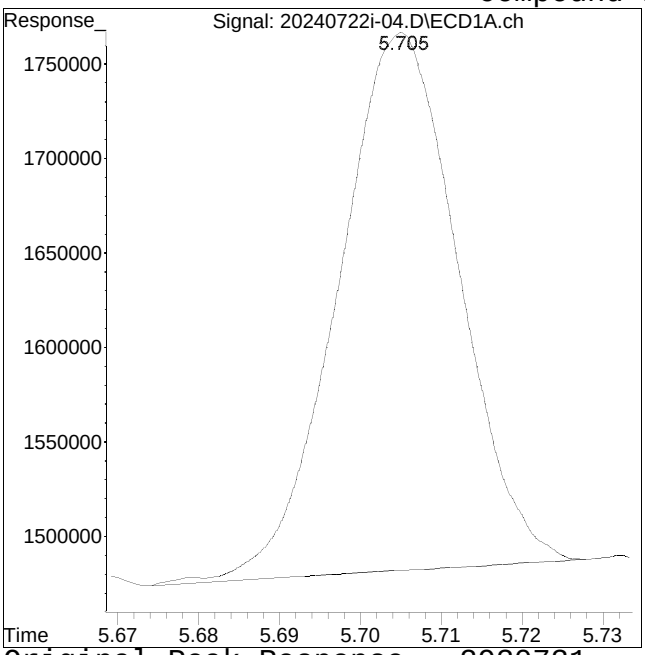
M4 = Poor automated baseline construction.

Manual Integration Report

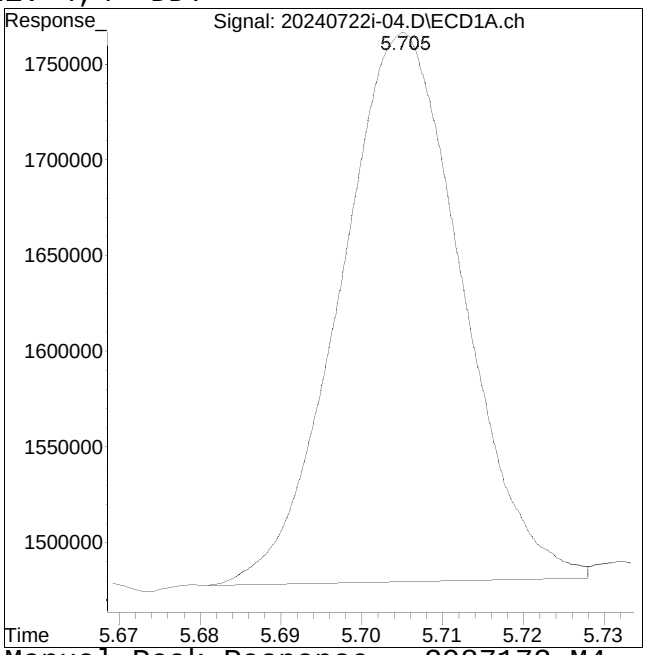
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #21: 4,4'-DDT



Original Peak Response = 2930731



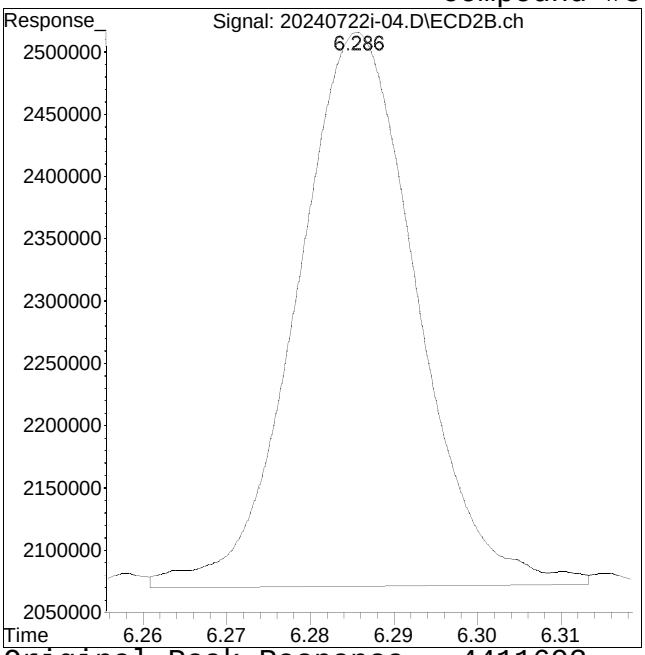
Manual Peak Response = 2987173 M4

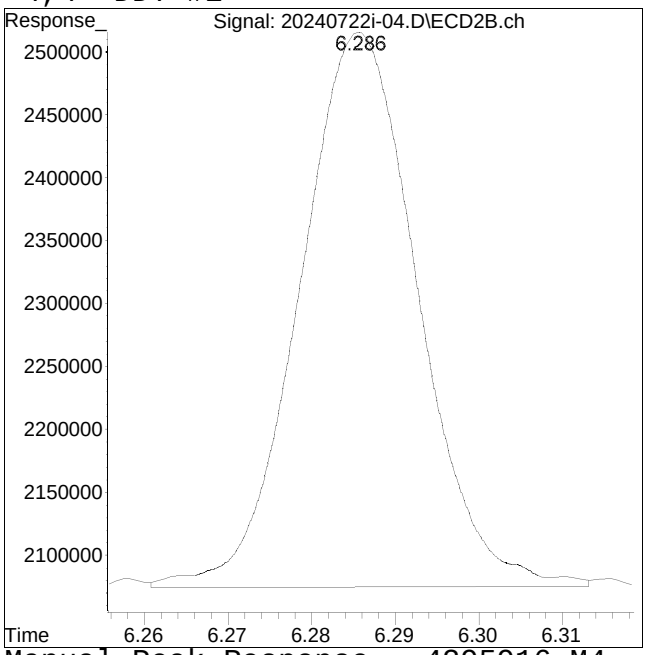
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #59: 4,4'-DDT #2



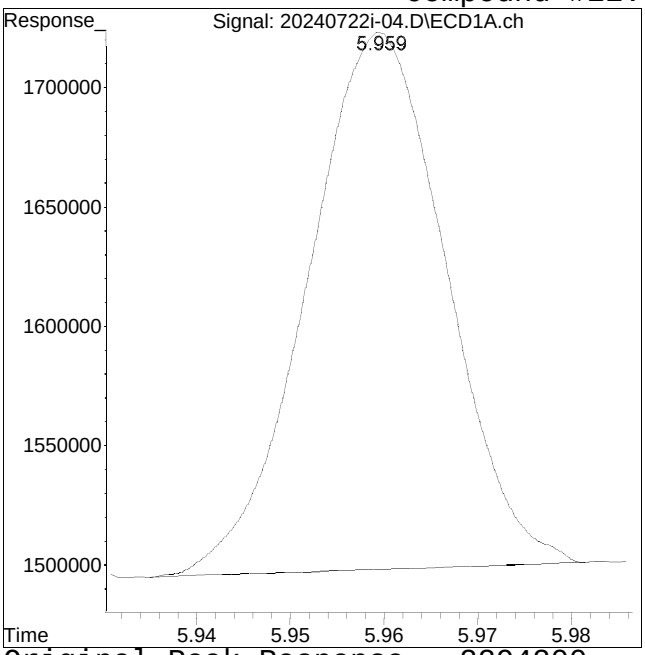


Original Peak Response = 4411693 Manual Peak Response = 4295916 M4
M4 = Poor automated baseline construction.

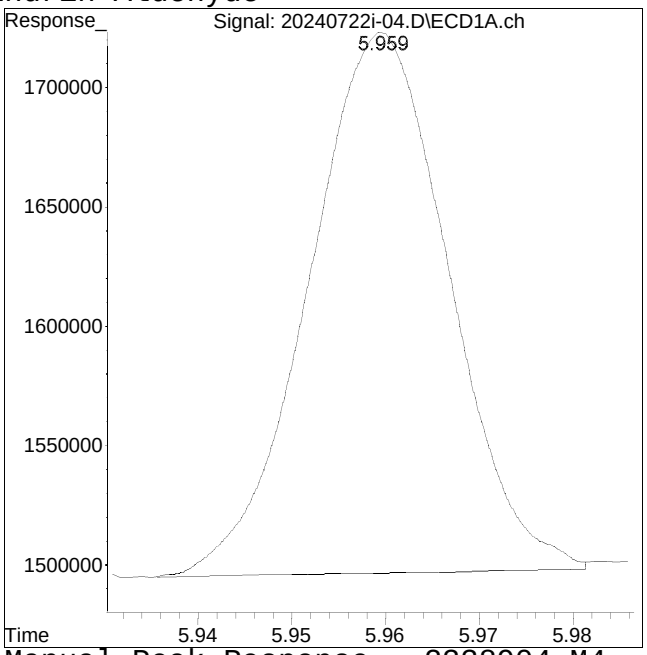
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 2294200



Manual Peak Response = 2338904 M4

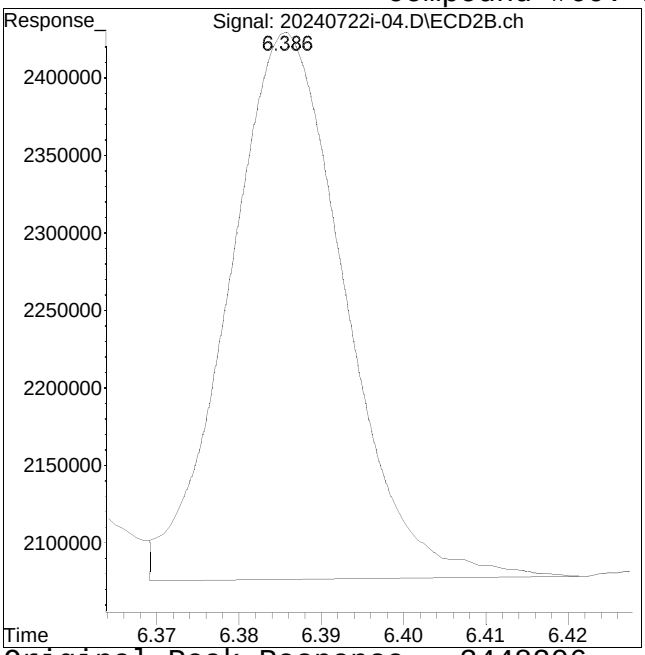
M4 = Poor automated baseline construction.

Manual Integration Report

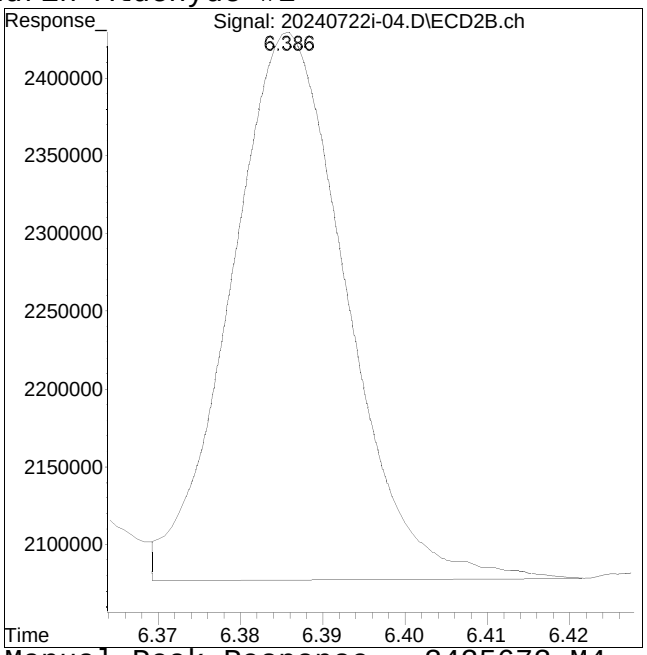
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-04.D
Date Inj'd : 7/22/2024 18:21
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:37 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 3448206



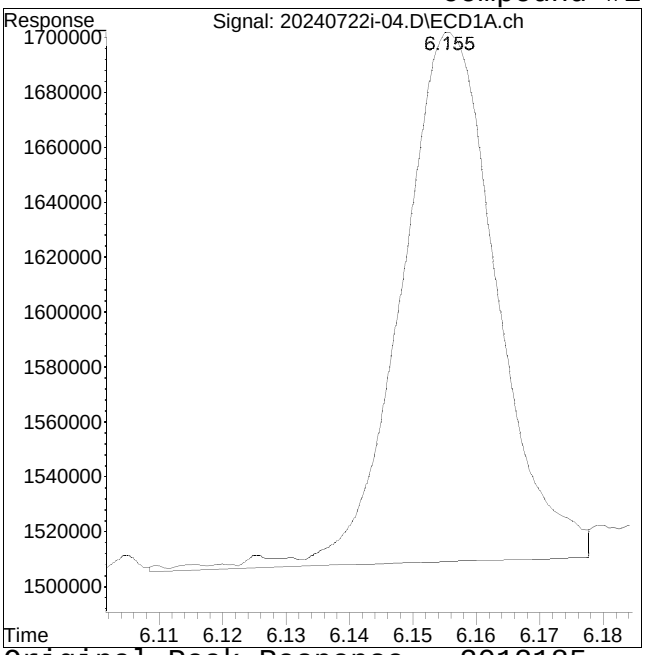
Manual Peak Response = 3425673 M4

M4 = Poor automated baseline construction.

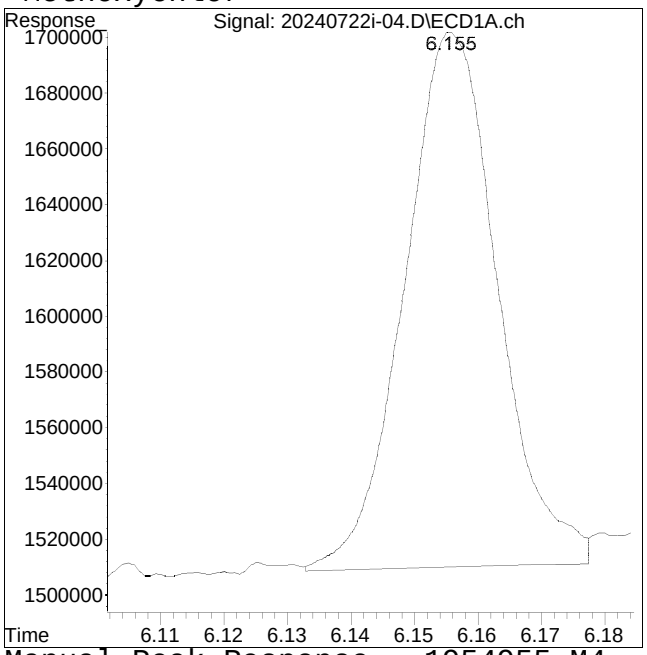
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #23: Methoxychlor



Original Peak Response = 2012185



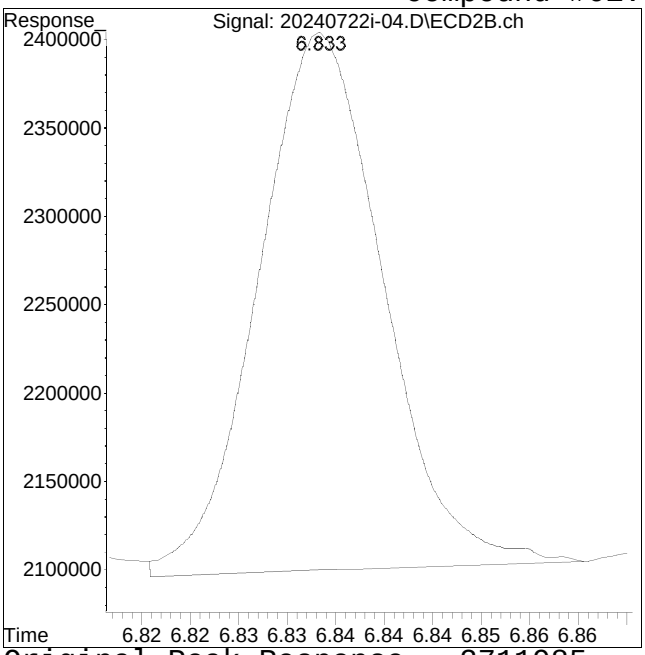
Manual Peak Response = 1954955 M4

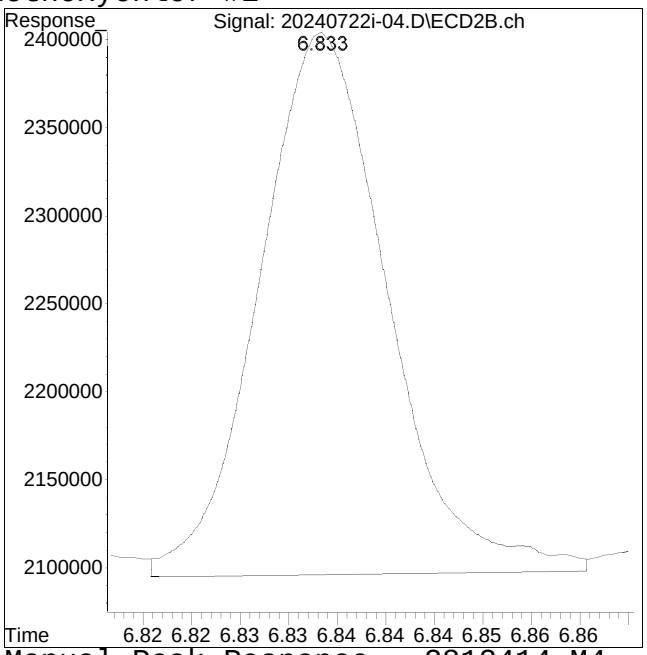
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #61: Methoxychlor #2



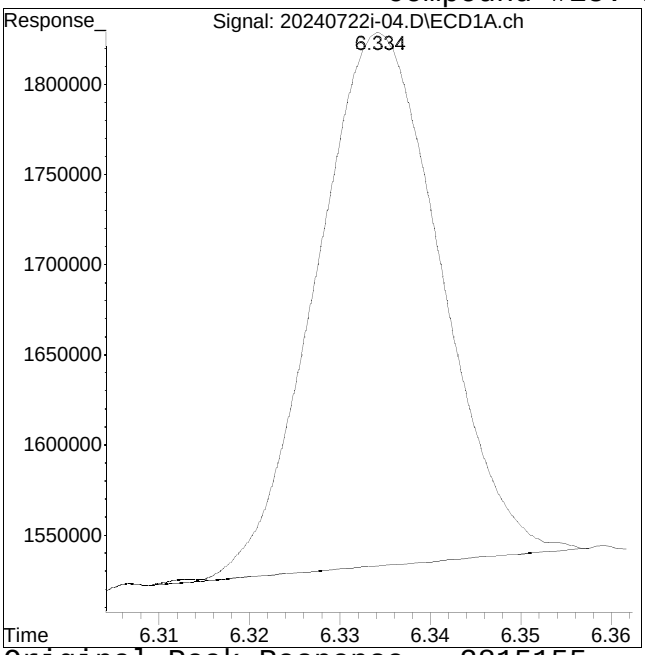


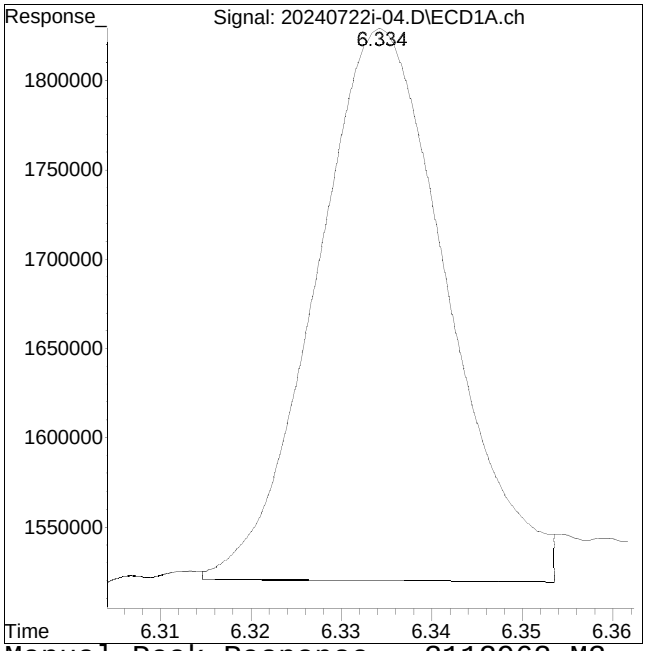
Original Peak Response = 2711985 Manual Peak Response = 2812414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #25: Endosulfan Sulfate



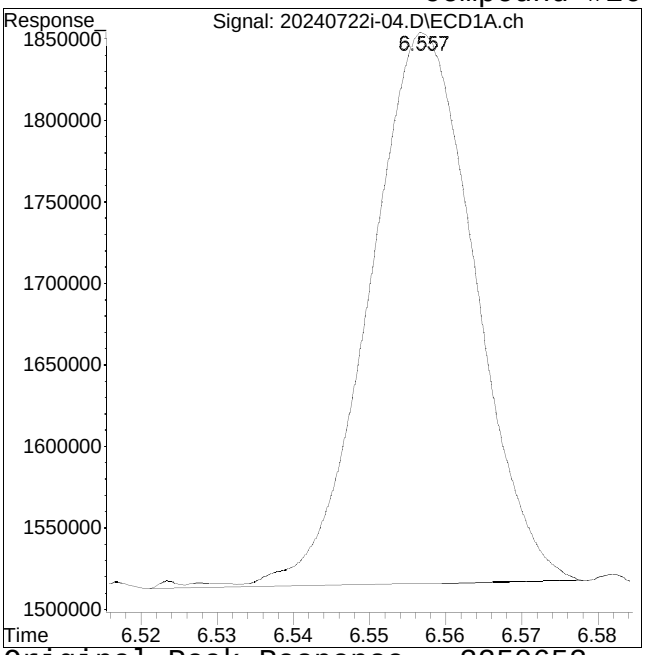


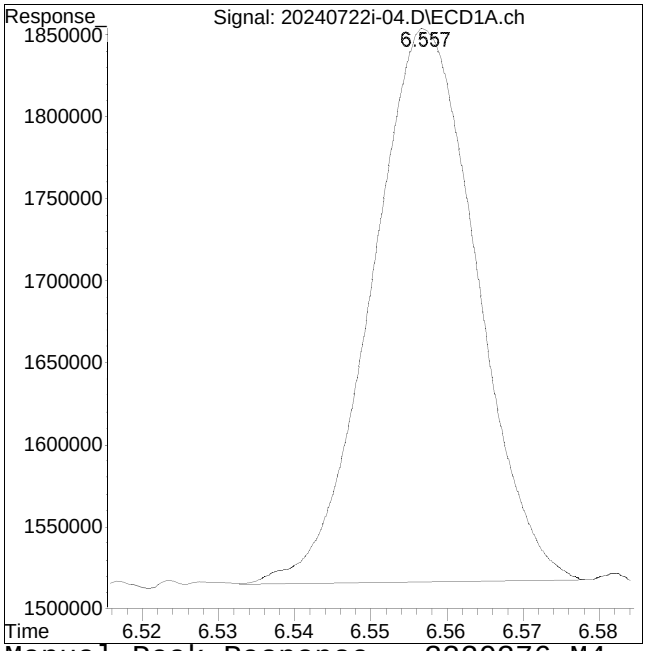
Original Peak Response = 2815155 Manual Peak Response = 3112962 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-04.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:21 Instrument : PEST 20
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 7/23/2024 1:37 pm

Compound #26: Endrin Ketone





Original Peak Response = 3250653 Manual Peak Response = 3220376 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:34
Operator : pest20:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:27:40 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:25:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.005	2.062	48735044	76957213	25.000M3	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.472	2.662	5844317	8382939	2.473M4	2.325M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.95%#	4.65%#
27) s	Decachlorobi	7.338	7.908	6481426	7862368	2.725M4	2.588M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		5.45%#	5.18%#
	Target Compounds						
3)	Hexachlorobe	2.740	3.039	6654660	9475395	2.633	2.496
4)	alpha-BHC	2.862	3.152	6621036	9558533	2.204	2.048
5)	gamma-BHC (l	3.106	3.476	6471039	9388924	2.324M4	2.171M4
6)	beta-BHC	3.174	3.551	3669214	5366541	2.635M4	2.521
7)	delta-BHC	3.325	3.847	6284417	9171184	2.257	2.109
8)	Heptachlor	3.512	3.917	6751099	9575269	2.453M4	2.318M4
9)	Aldrin	3.791	4.267	6025953	8321220	2.306	2.192
10)	Alachlor	3.933	4.141	1082527	1563529	2.394M4	2.524
11)	Chlorpyrifos	4.034	4.524	3806182	5668465	2.686	2.595
12)	Heptachlor E	4.408	4.930	6052397	8733768	2.433	2.347
13)	gamma-Chlord	4.543	5.141	5835288	7677533	2.500M4	2.336M4
14)	alpha-Chlord	4.693	5.296	6295575	8438766	2.458M4	2.313M4

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:34
Operator : pest20:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:27:40 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:25:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15)	4,4'-DDE	4.795	5.474	5694960	7733237	2.262	2.156M4
16)	Endosulfan I	4.846	5.354	5601683	7892738	2.396	2.320
17)	Dieldrin	5.108	5.627	5814648	7656818	2.381M4	2.207M4
18)	Endrin	5.345	5.911	5693177	7879108	2.357M4	2.228
19)	4,4'-DDD	5.434	6.018	4752942	6488630	2.333	2.219
20)	Endosulfan I	5.565	6.100	5300800	7578215	2.446M4	2.349M4
21)	4,4'-DDT	5.704	6.285	5368584	7423759	2.410	2.253M4
22)	Endrin Aldeh	5.959	6.386	4371536	6111741	2.380	2.274M3
23)	Methoxychlor	6.155	6.833	3504721	5050153	2.668M4	2.658M4
24)	Mirex	6.234	6.990	5619624	7574288	2.768	2.683
25)	Endosulfan S	6.333	6.609	5390130	7658485	2.561M3	2.434
26)	Endrin Keton	6.556	7.021	5843067	8209384	2.488M4	2.334
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:34
Operator : pest20:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:27:40 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:25:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

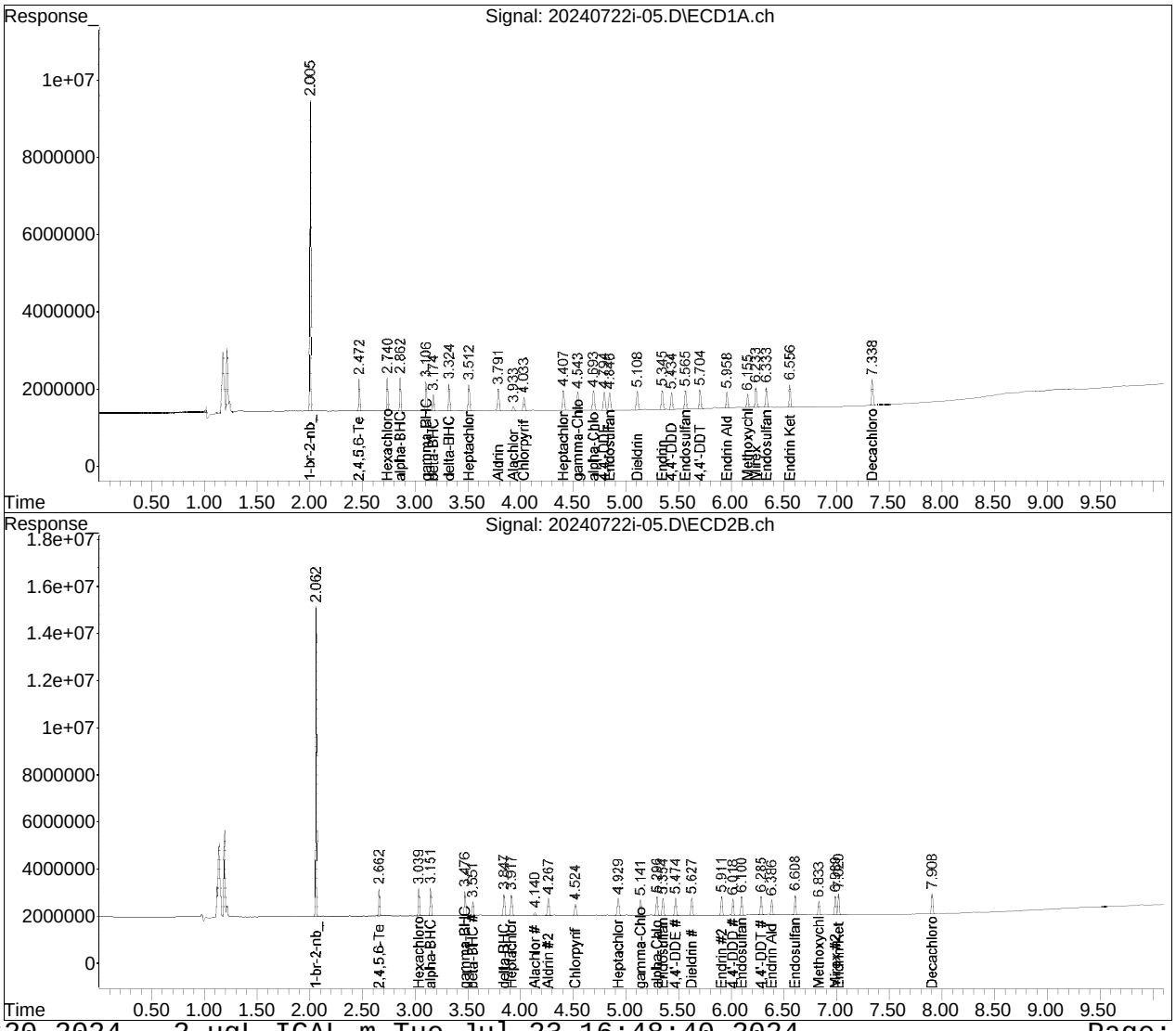
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:34
Operator : pest20:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:27:40 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:25:14 2024
Response via : Initial Calibration
Integrator: ChemStation

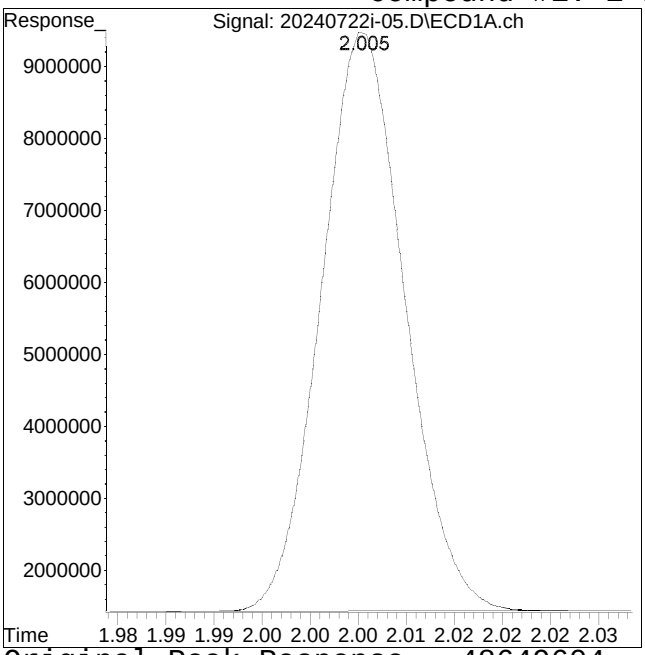
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

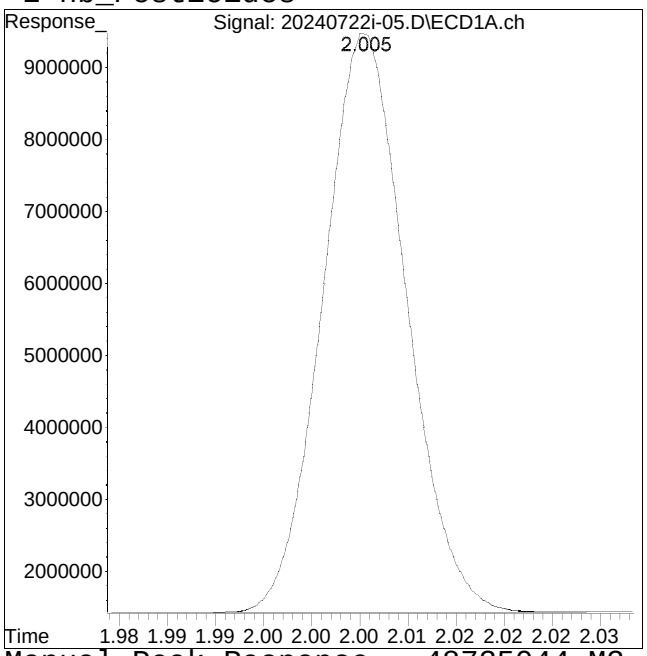


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #1: 1-br-2-nb_Pesticides



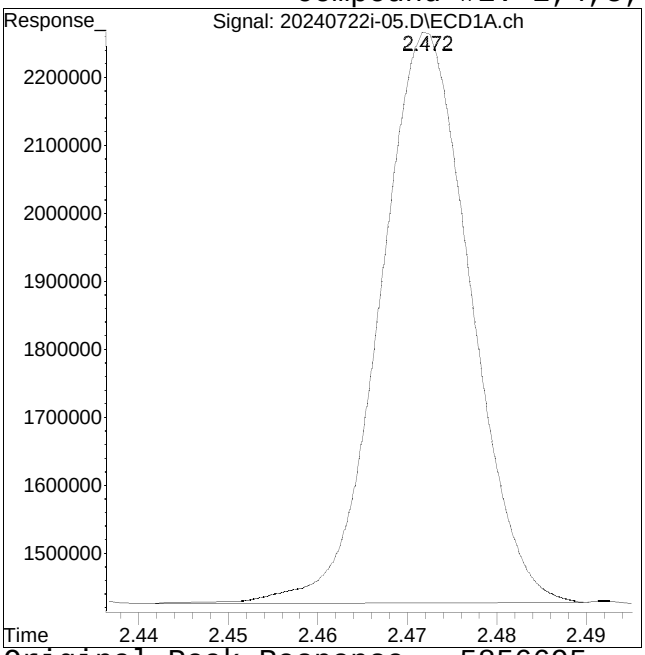


Original Peak Response = 48649604 Manual Peak Response = 48735044 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

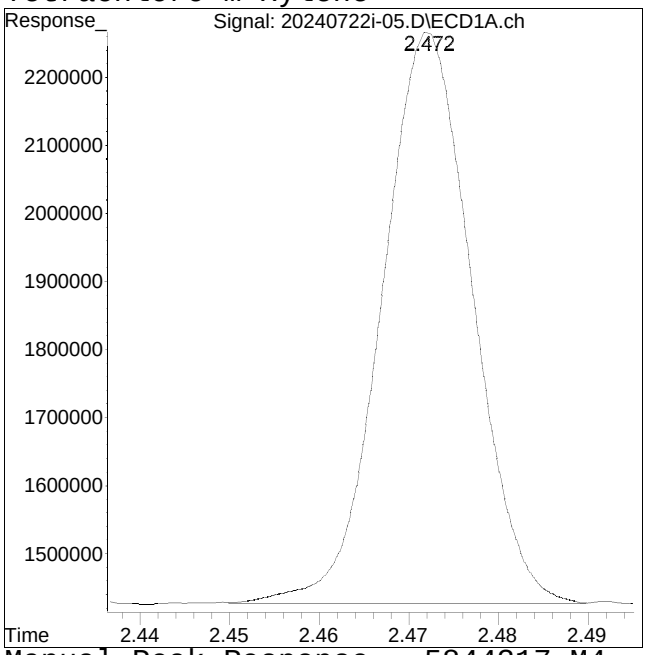
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 5856695



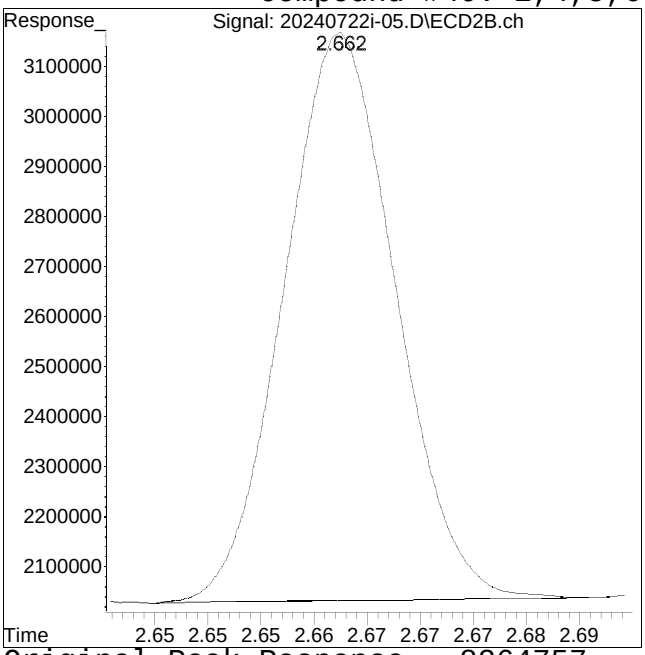
Manual Peak Response = 5844317 M4

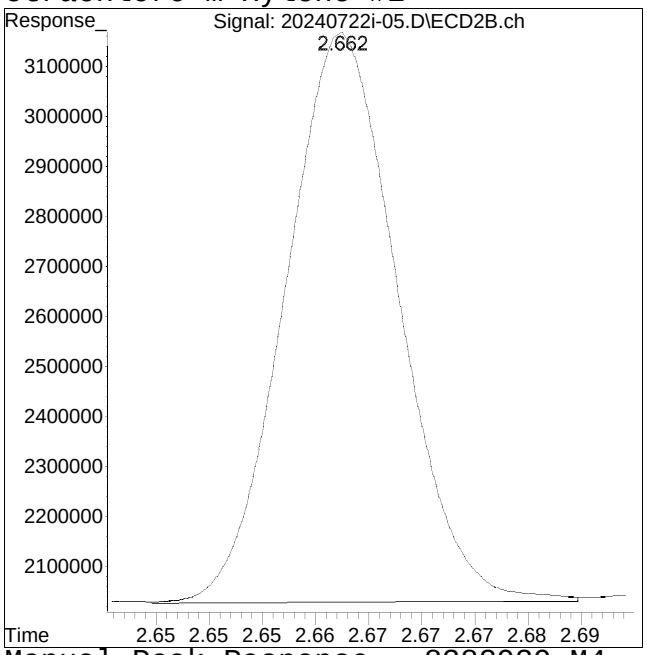
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



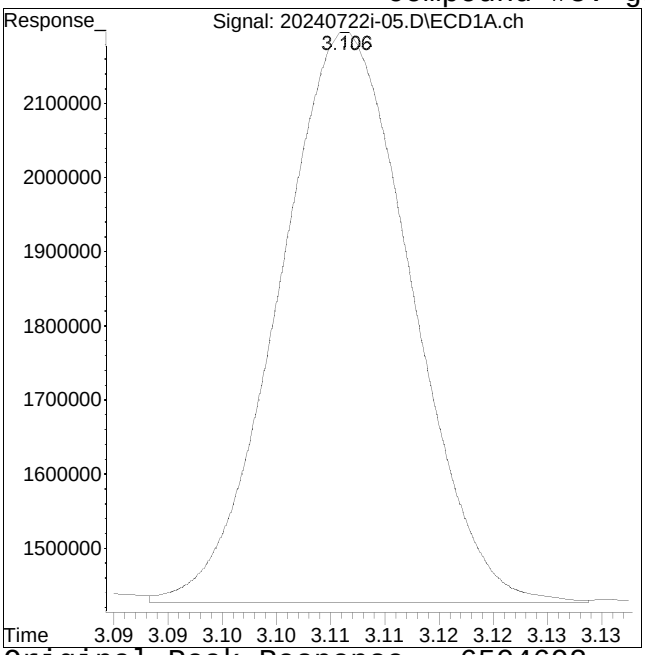


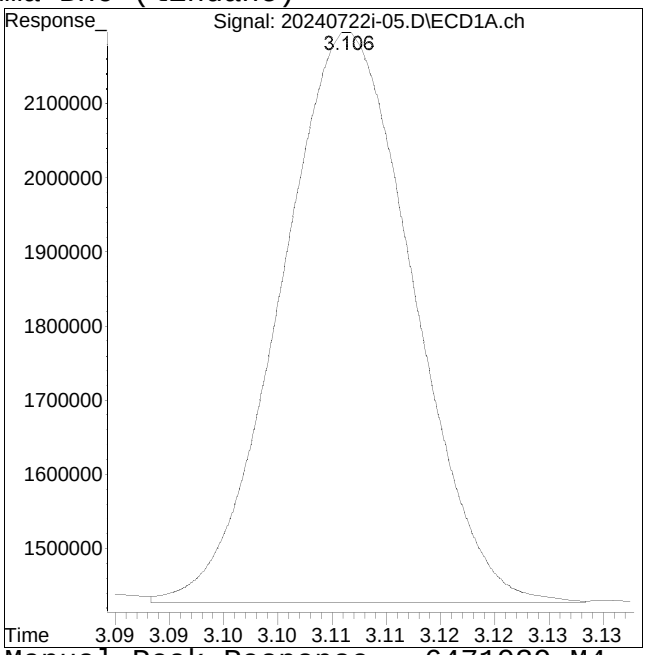
Original Peak Response = 8264757 Manual Peak Response = 8382939 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #5: gamma-BHC (lindane)





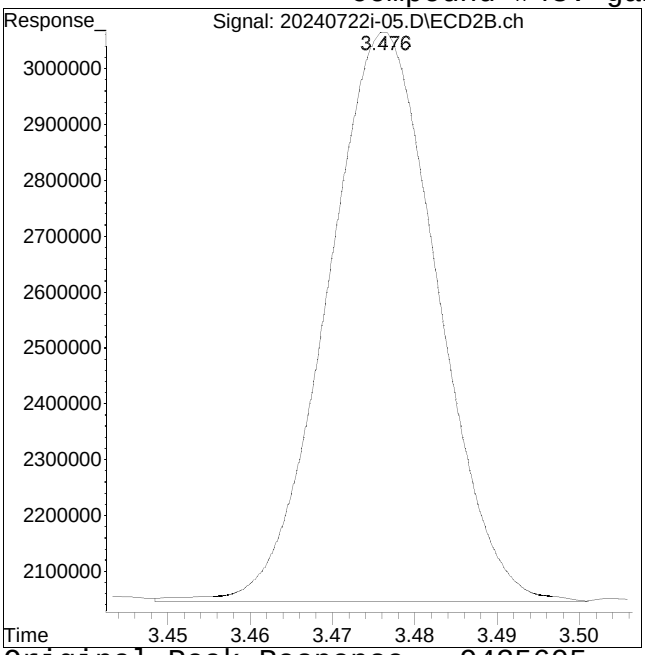
Original Peak Response = 6504692 Manual Peak Response = 6471039 M4
M4 = Poor automated baseline construction.

Manual Integration Report

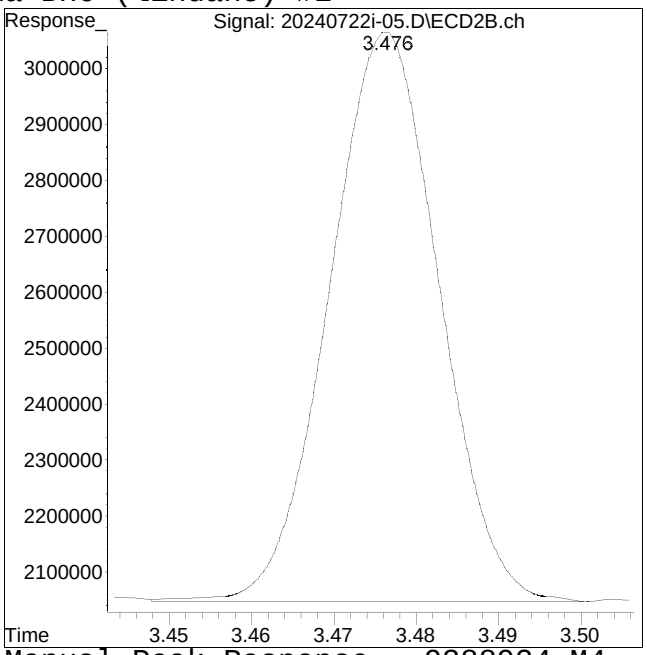
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 9435605



Manual Peak Response = 9388924 M4

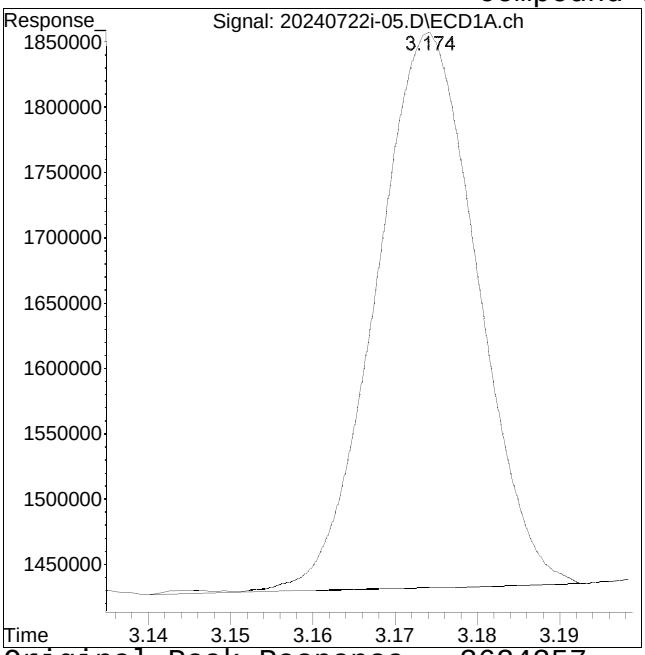
M4 = Poor automated baseline construction.

Manual Integration Report

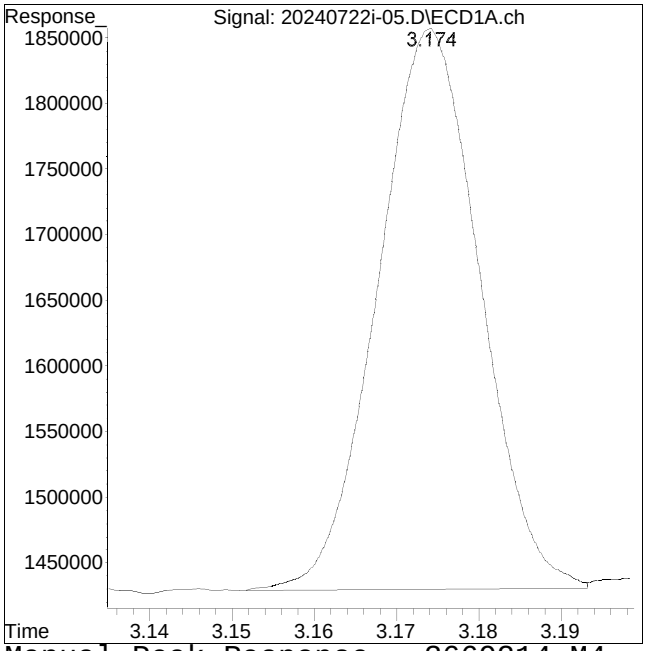
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #6: beta-BHC



Original Peak Response = 3624357



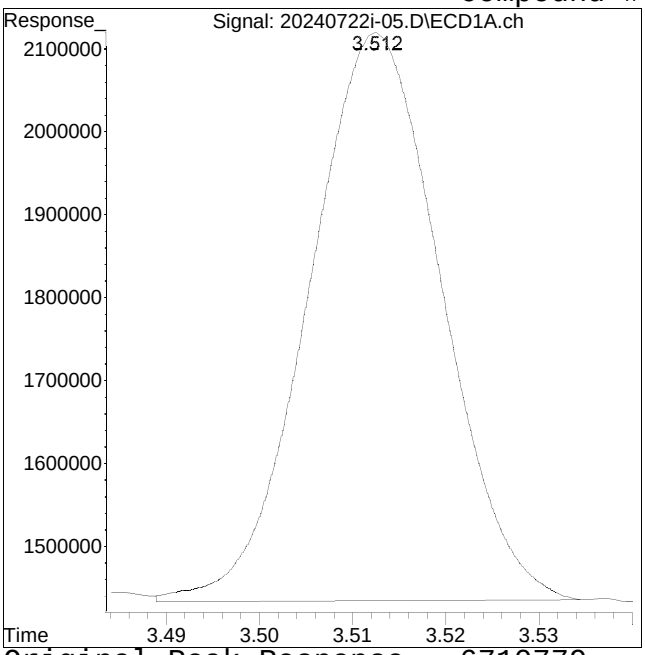
Manual Peak Response = 3669214 M4

M4 = Poor automated baseline construction.

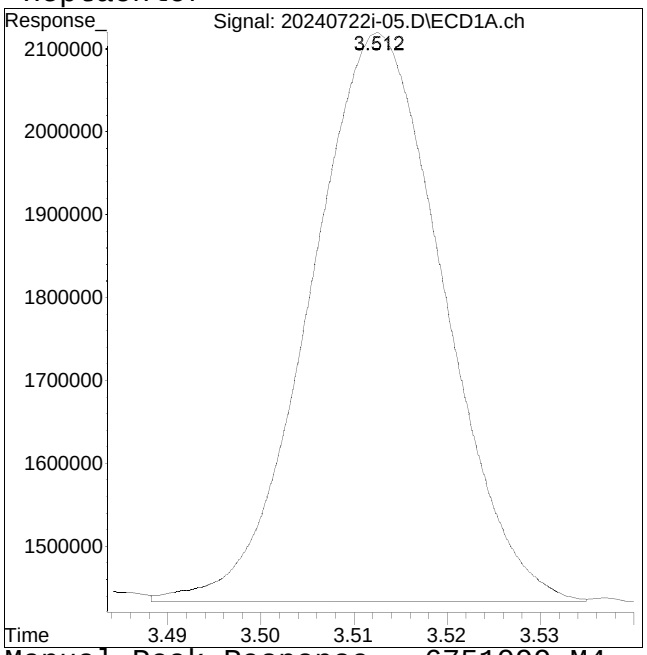
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #8: Heptachlor



Original Peak Response = 6710779



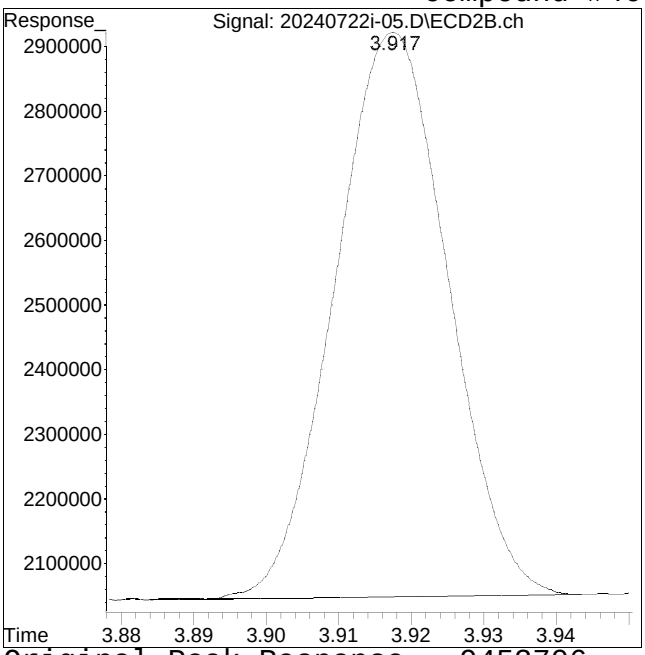
Manual Peak Response = 6751099 M4

M4 = Poor automated baseline construction.

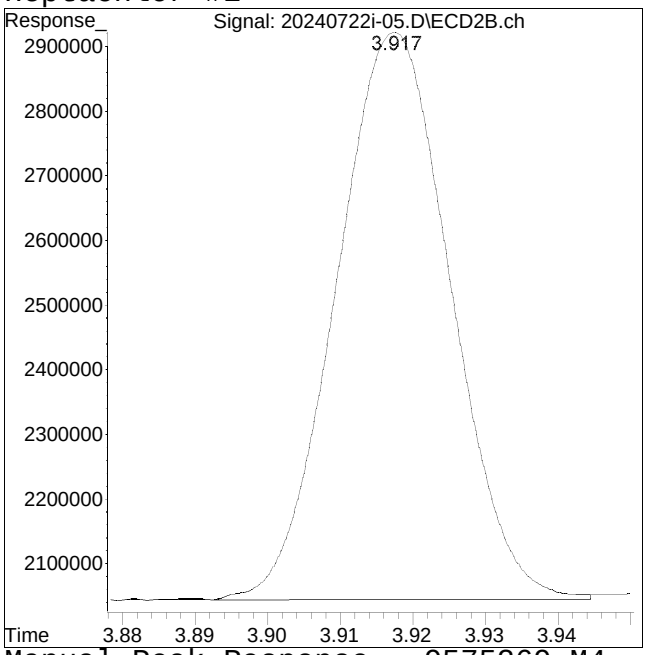
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #46: Heptachlor #2



Original Peak Response = 9453706



Manual Peak Response = 9575269 M4

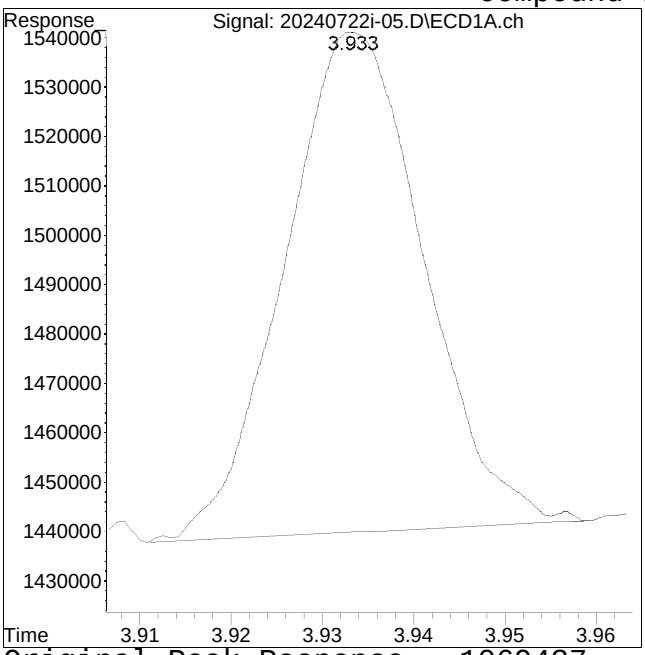
M4 = Poor automated baseline construction.

Manual Integration Report

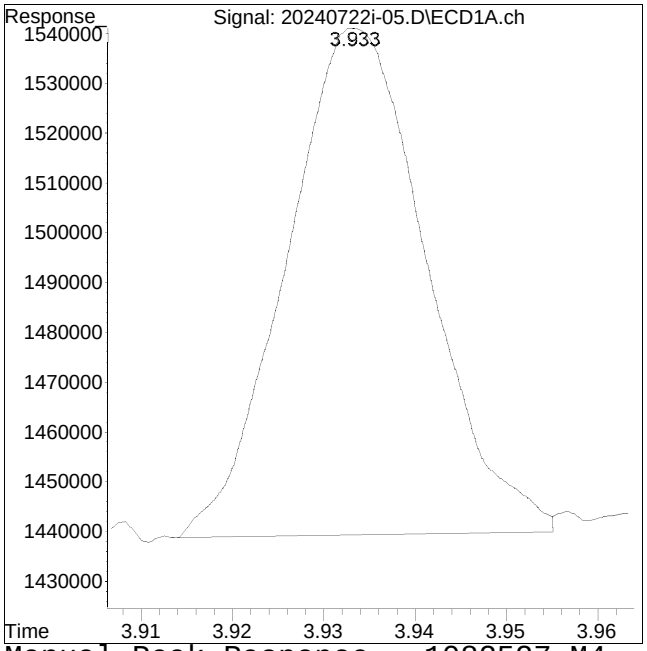
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #10: Alachlor



Original Peak Response = 1069437



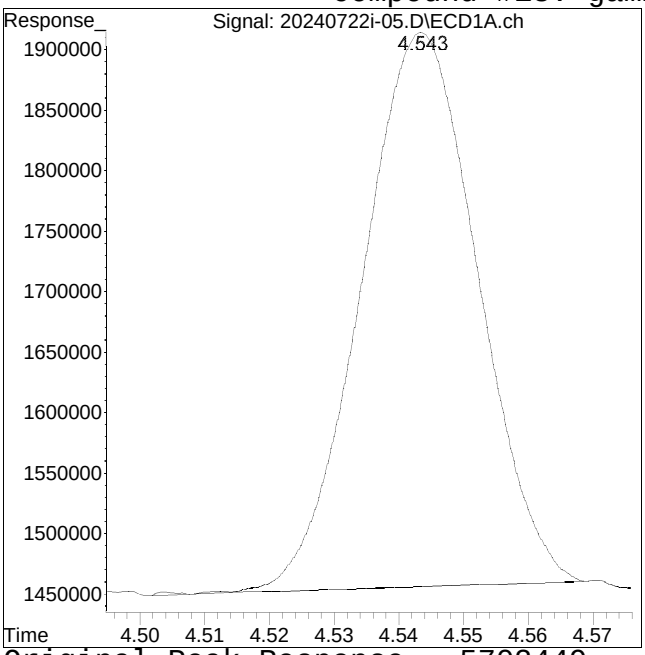
Manual Peak Response = 1082527 M4

M4 = Poor automated baseline construction.

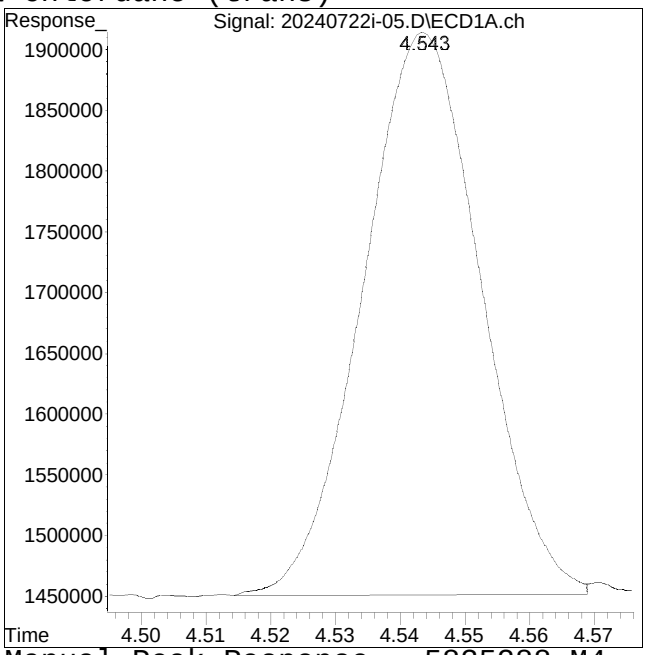
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 5702449



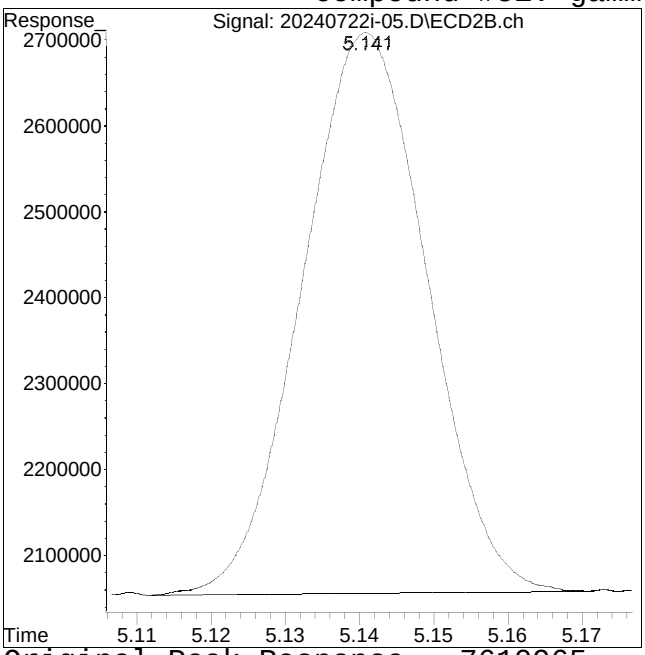
Manual Peak Response = 5835288 M4

M4 = Poor automated baseline construction.

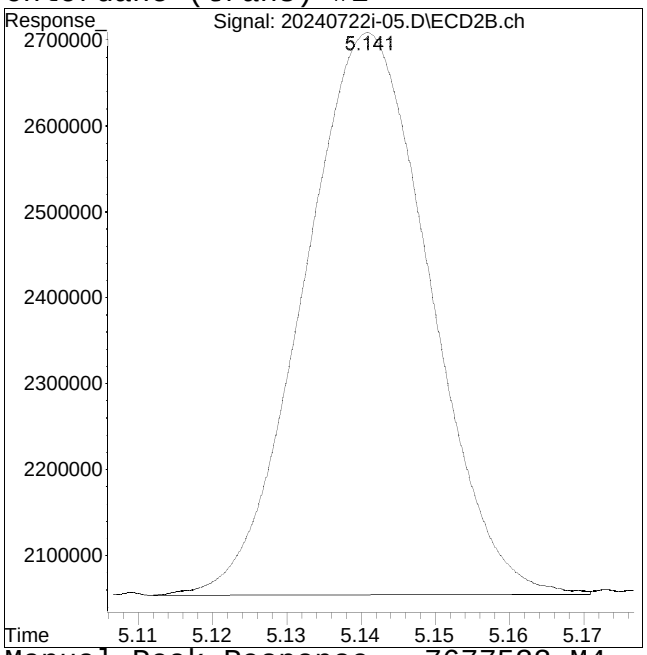
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 7610965



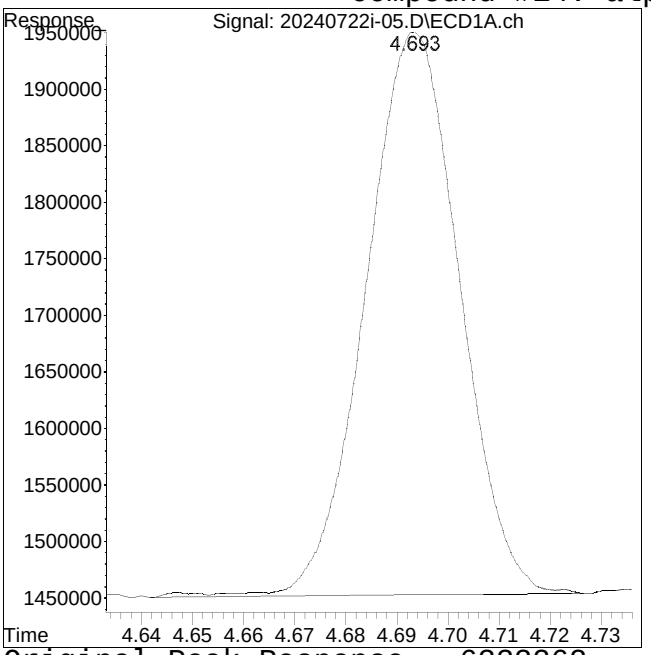
Manual Peak Response = 7677533 M4

M4 = Poor automated baseline construction.

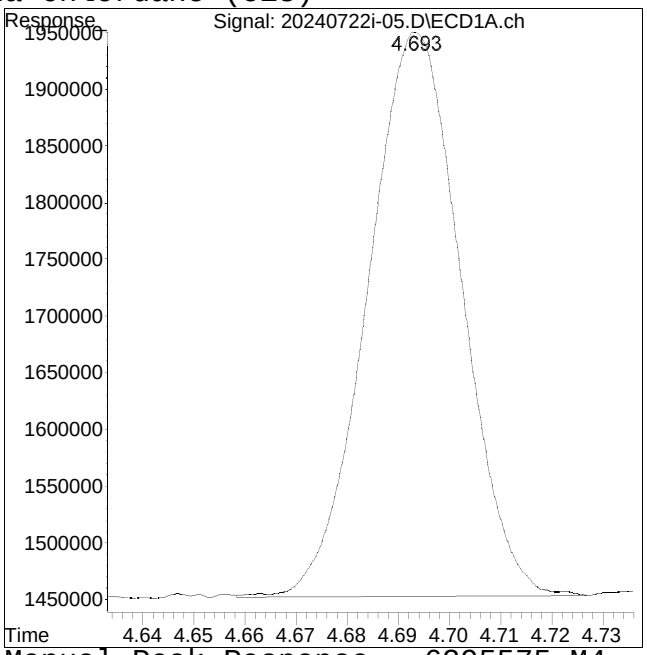
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 6333262



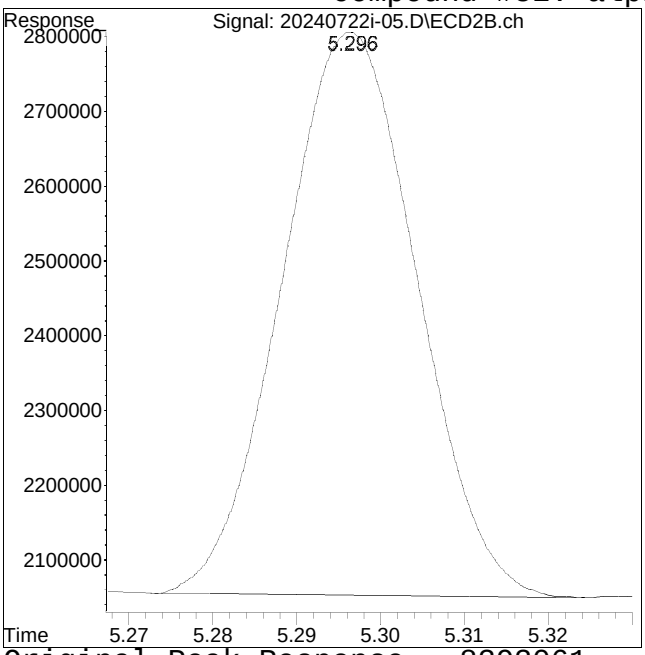
Manual Peak Response = 6295575 M4

M4 = Poor automated baseline construction.

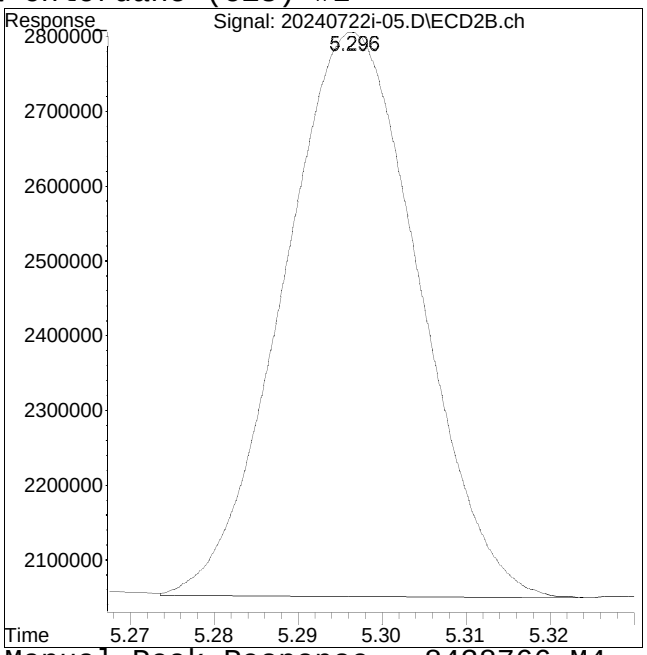
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 8393061



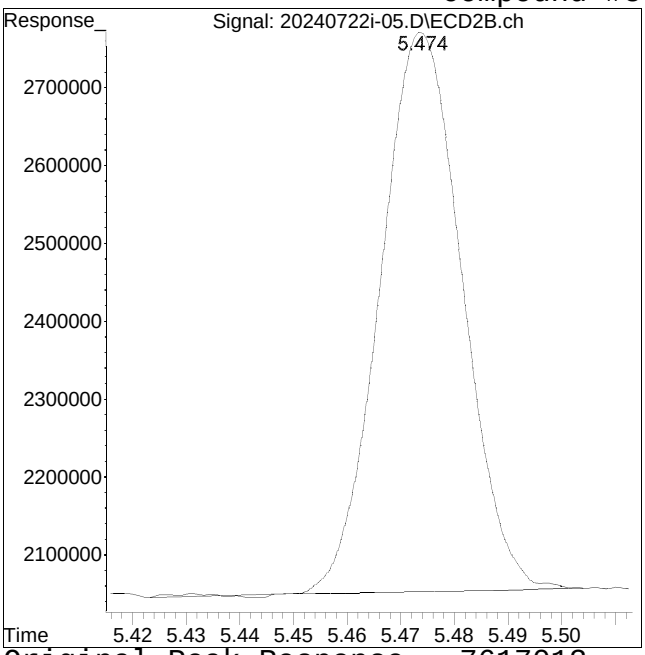
Manual Peak Response = 8438766 M4

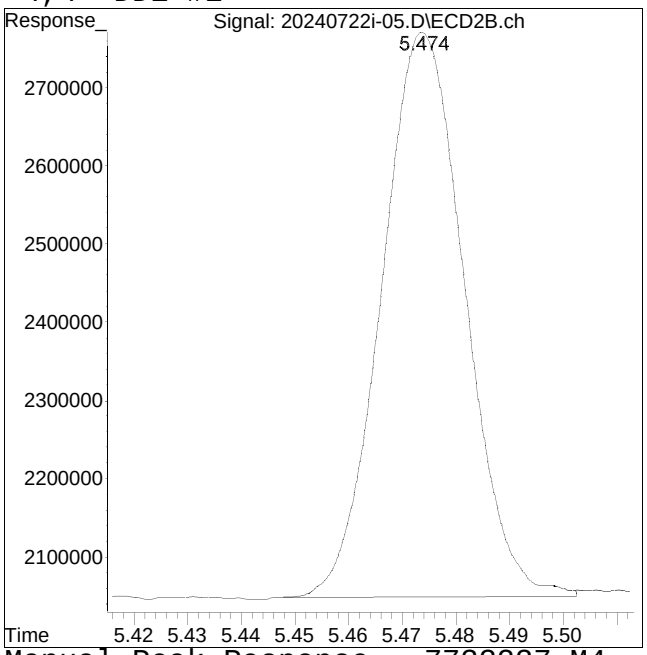
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #53: 4,4'-DDE #2





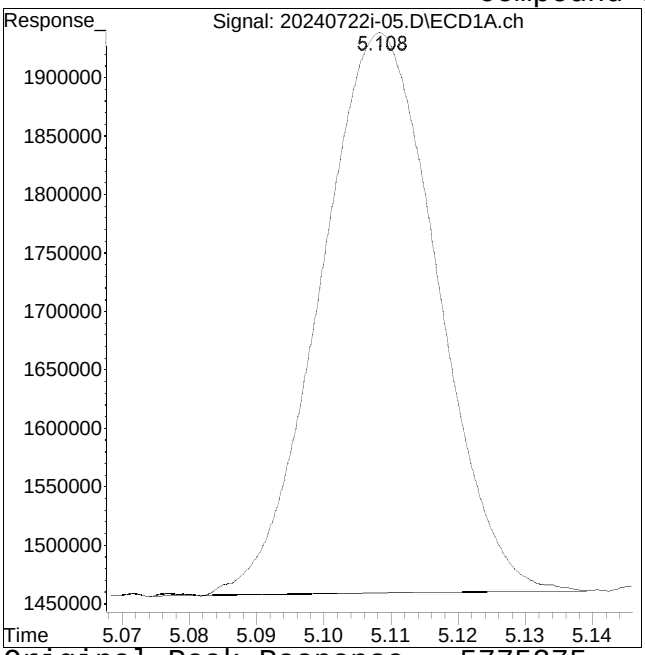
Original Peak Response = 7617013 Manual Peak Response = 7733237 M4
M4 = Poor automated baseline construction.

Manual Integration Report

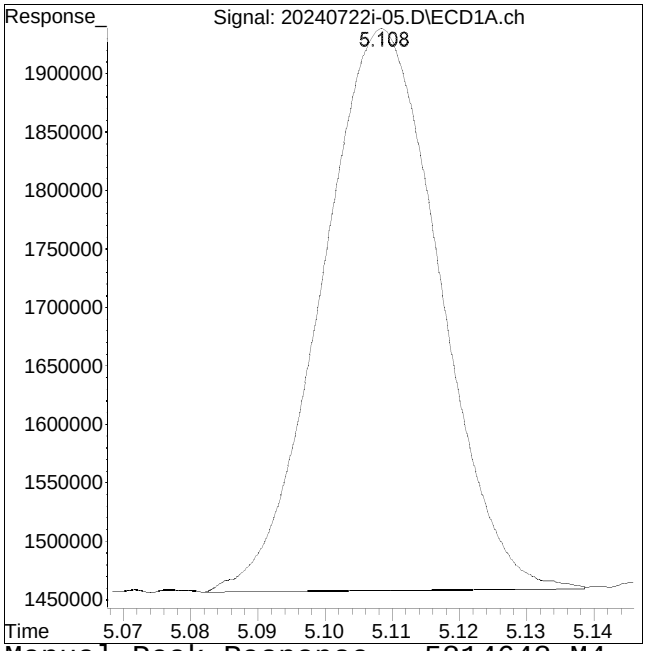
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #17: Dieldrin



Original Peak Response = 5775275



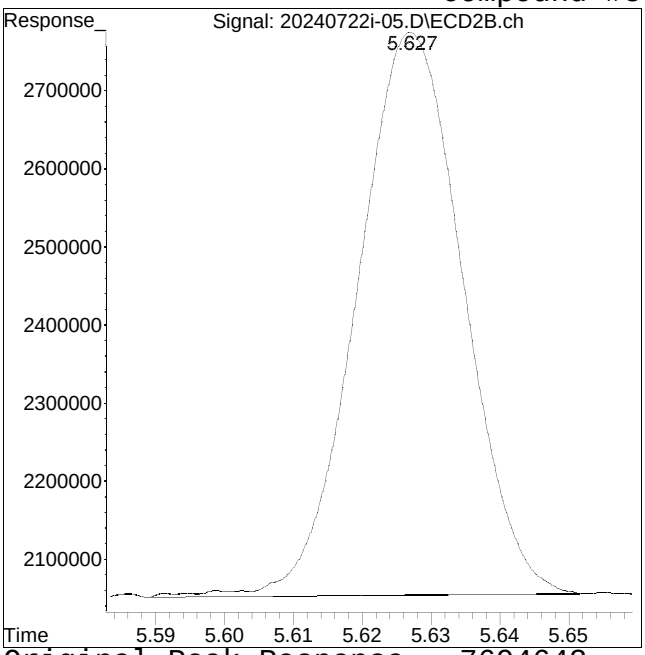
Manual Peak Response = 5814648 M4

M4 = Poor automated baseline construction.

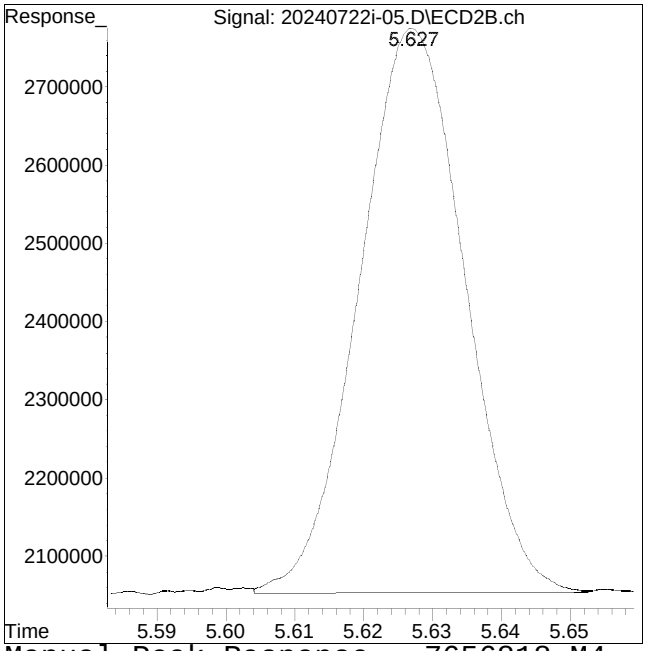
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #55: Dieldrin #2



Original Peak Response = 7694643



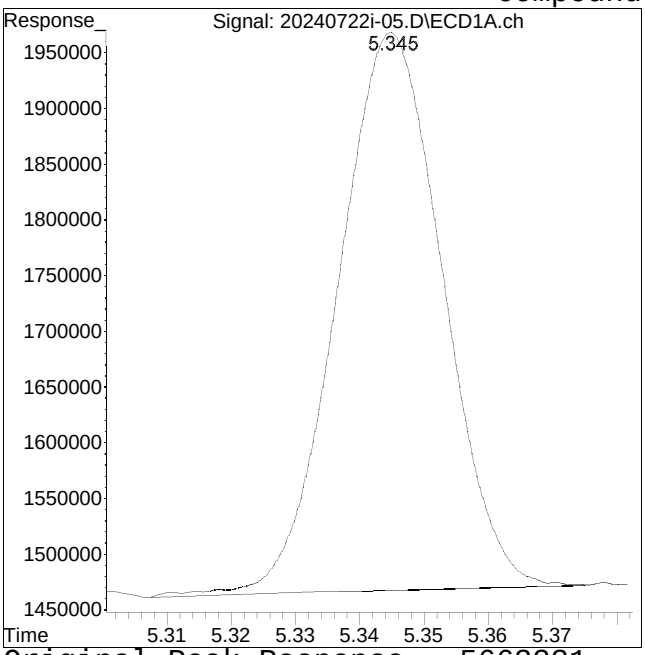
Manual Peak Response = 7656818 M4

M4 = Poor automated baseline construction.

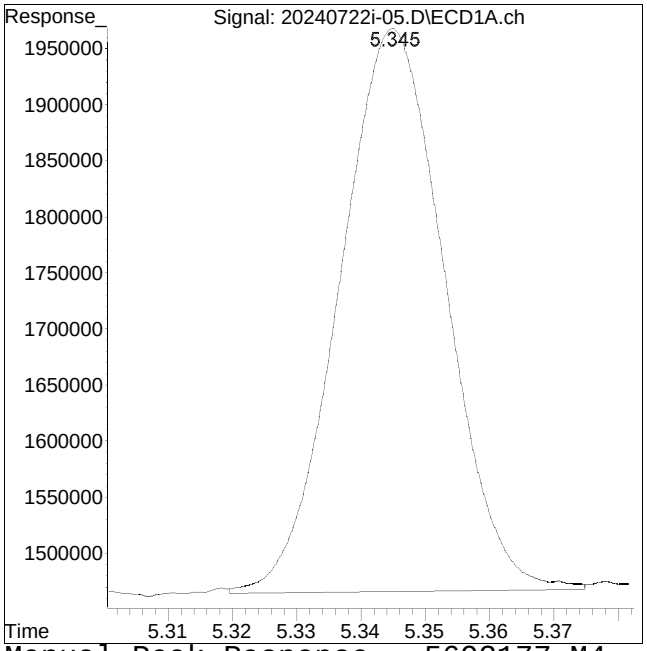
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #18: Endrin



Original Peak Response = 5663231



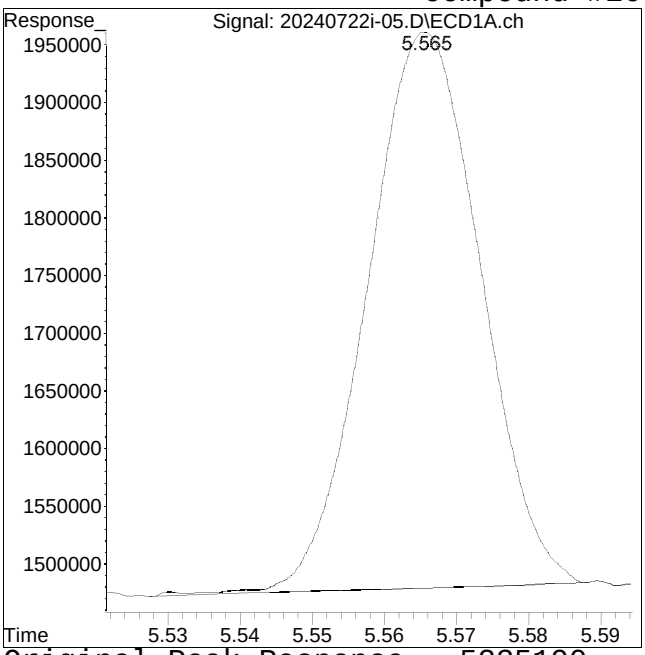
Manual Peak Response = 5693177 M4

M4 = Poor automated baseline construction.

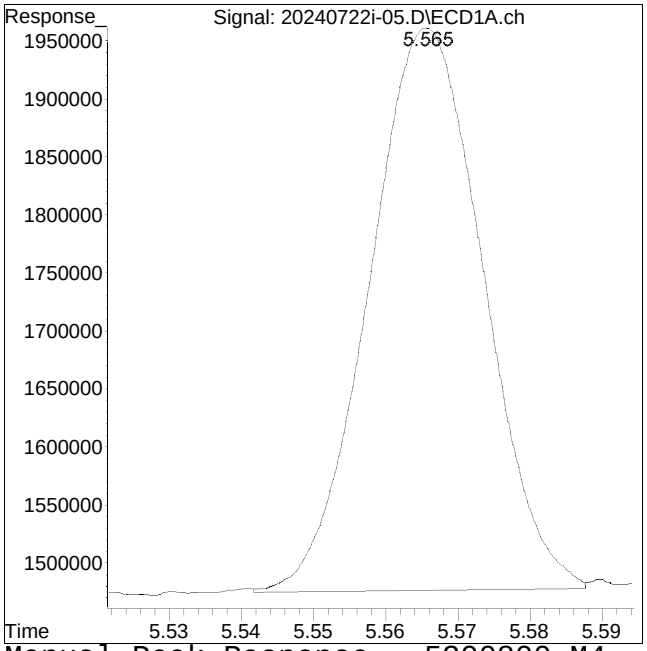
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #20: Endosulfan II



Original Peak Response = 5235190



Manual Peak Response = 5300800 M4

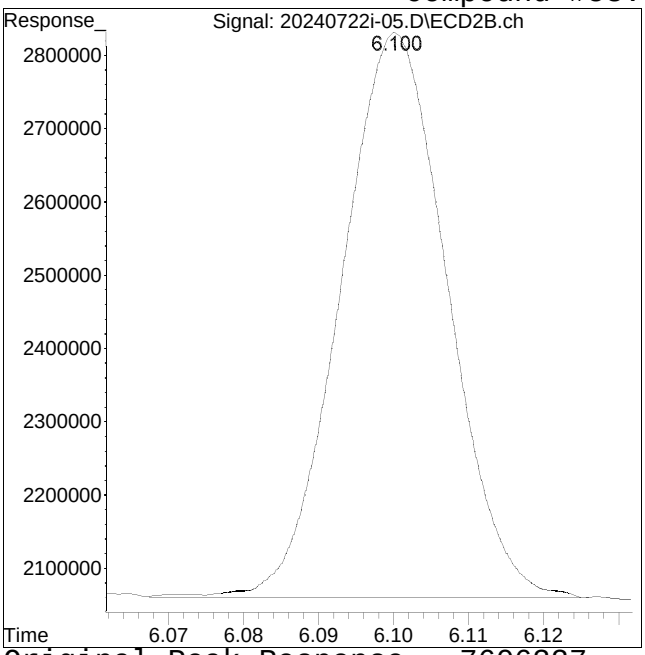
M4 = Poor automated baseline construction.

Manual Integration Report

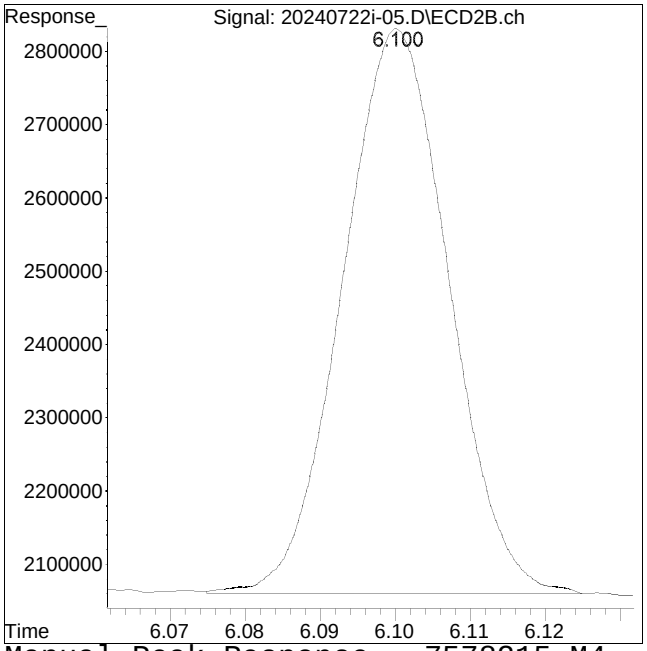
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #58: Endosulfan II #2



Original Peak Response = 7606327



Manual Peak Response = 7578215 M4

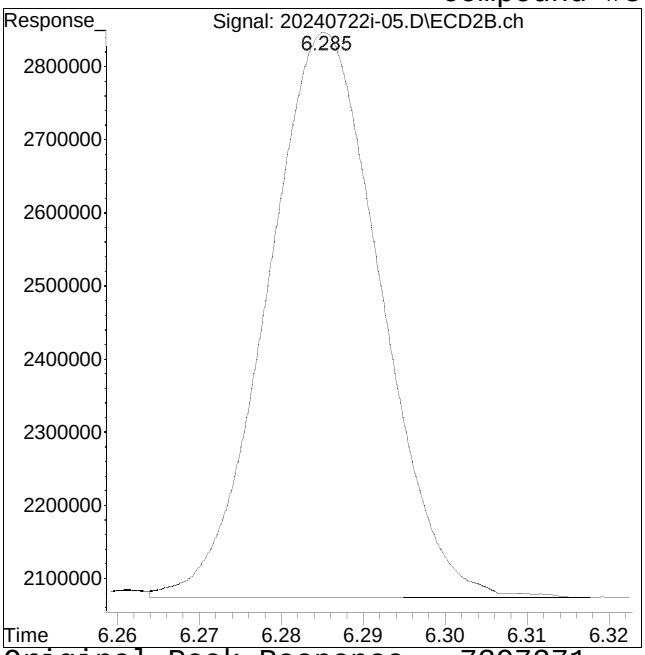
M4 = Poor automated baseline construction.

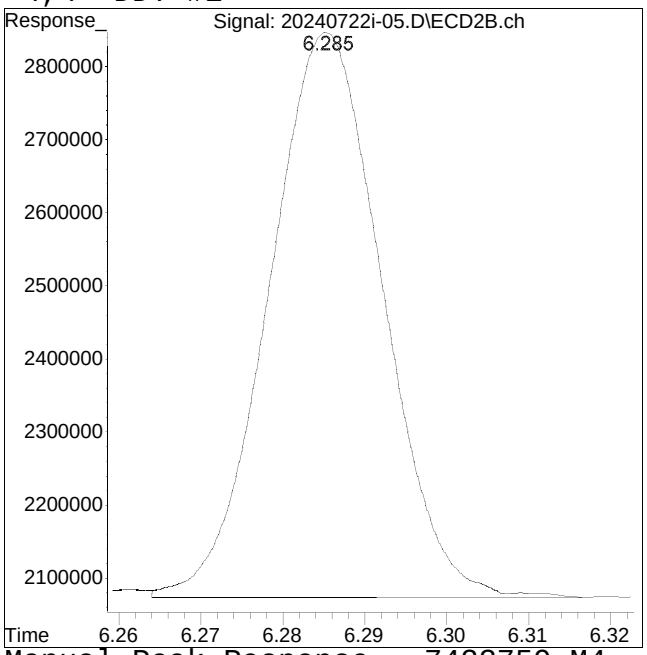
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #59: 4,4'-DDT #2



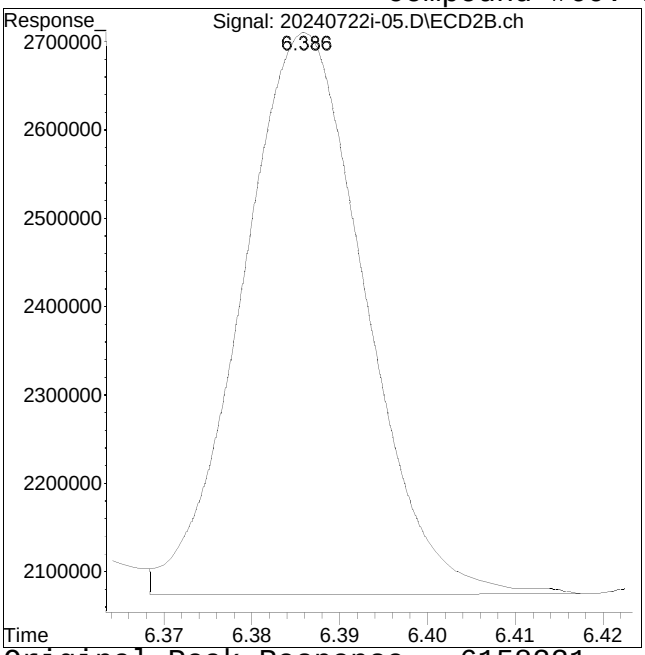


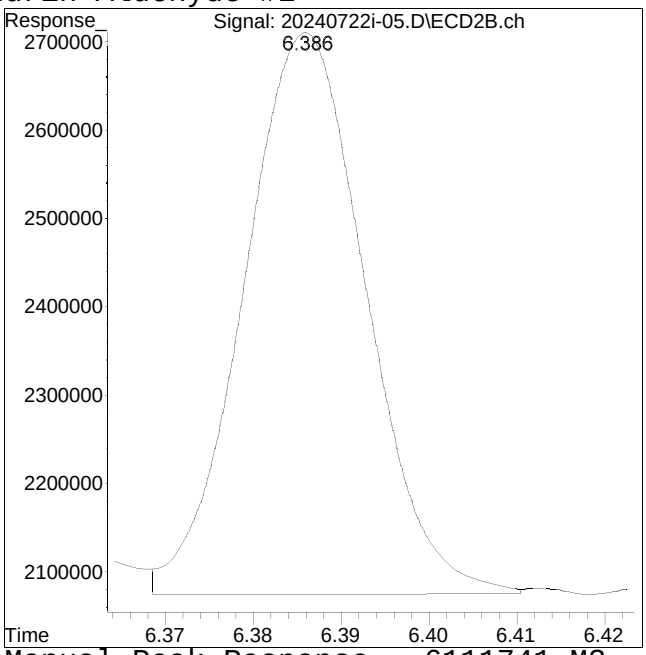
Original Peak Response = 7397271 Manual Peak Response = 7423759 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-05.D
Date Inj'd : 7/22/2024 18:34
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:27 pm

Compound #60: Endrin Aldehyde #2



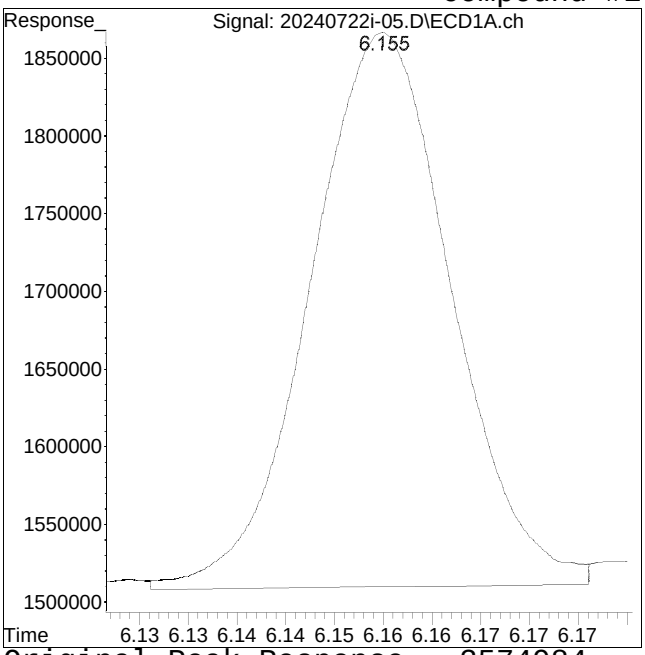


Original Peak Response = 6158221 Manual Peak Response = 6111741 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

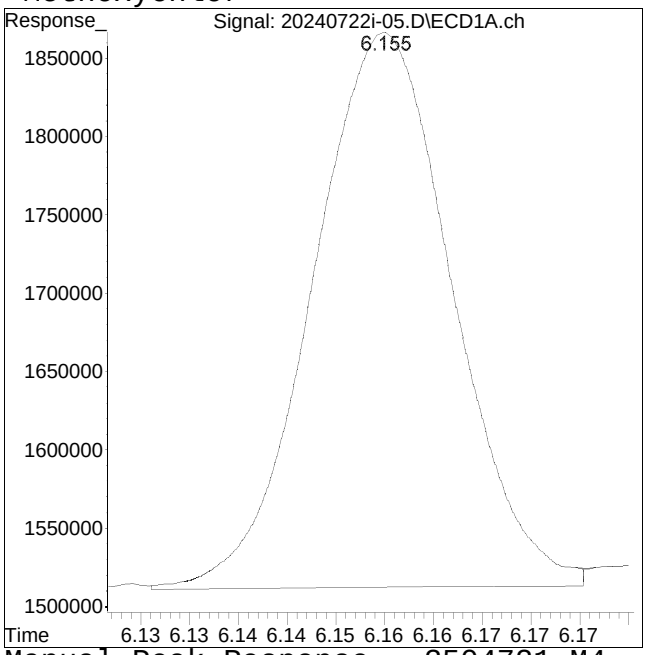
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #23: Methoxychlor



Original Peak Response = 3574984



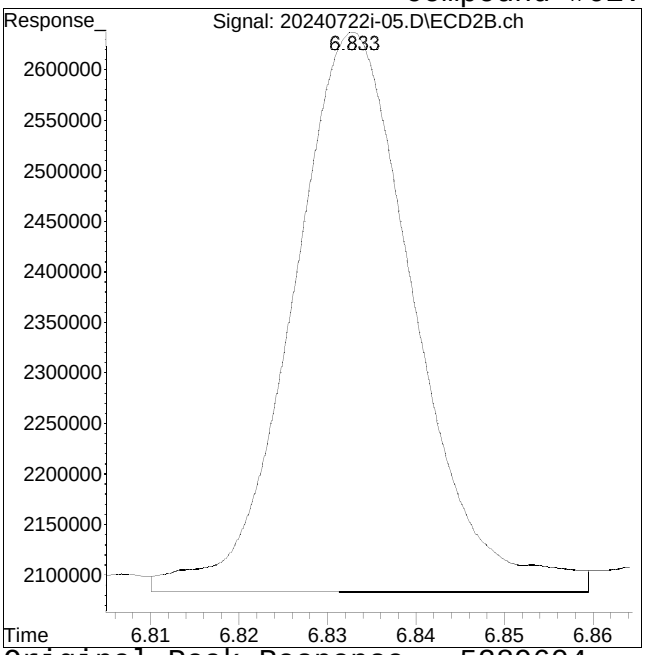
Manual Peak Response = 3504721 M4

M4 = Poor automated baseline construction.

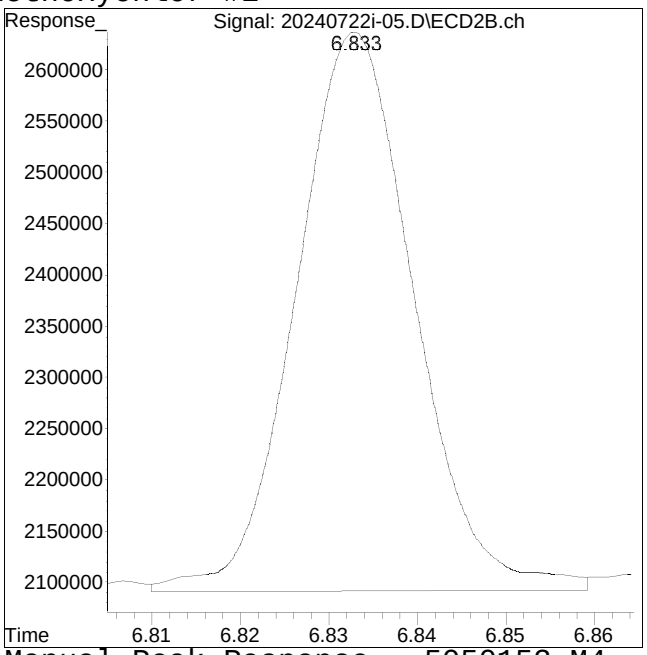
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #61: Methoxychlor #2



Original Peak Response = 5289604



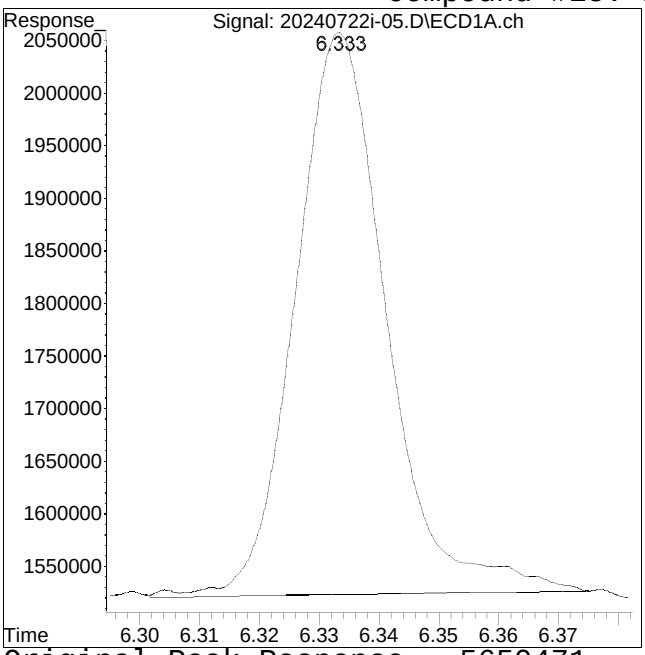
Manual Peak Response = 5050153 M4

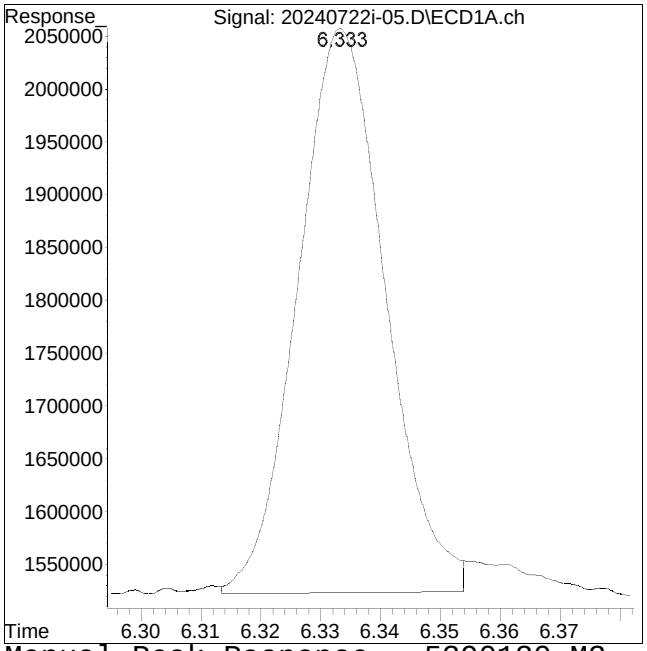
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #25: Endosulfan Sulfate



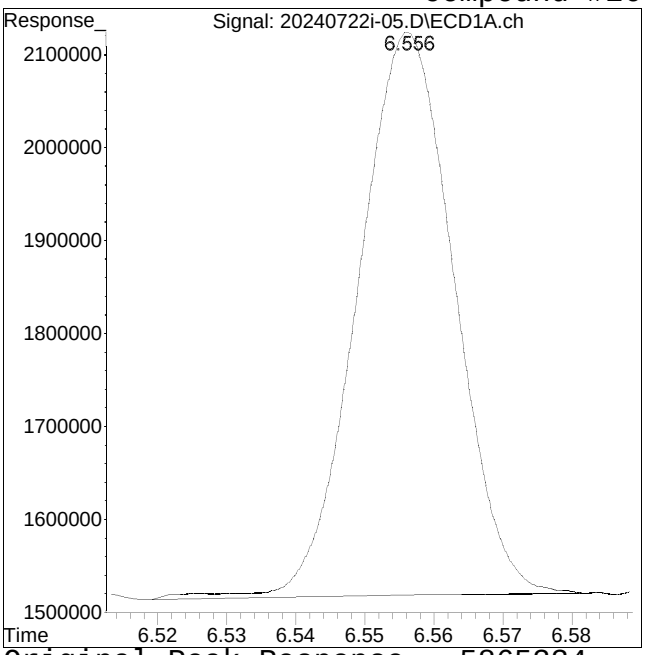


Original Peak Response = 5650471 Manual Peak Response = 5390130 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

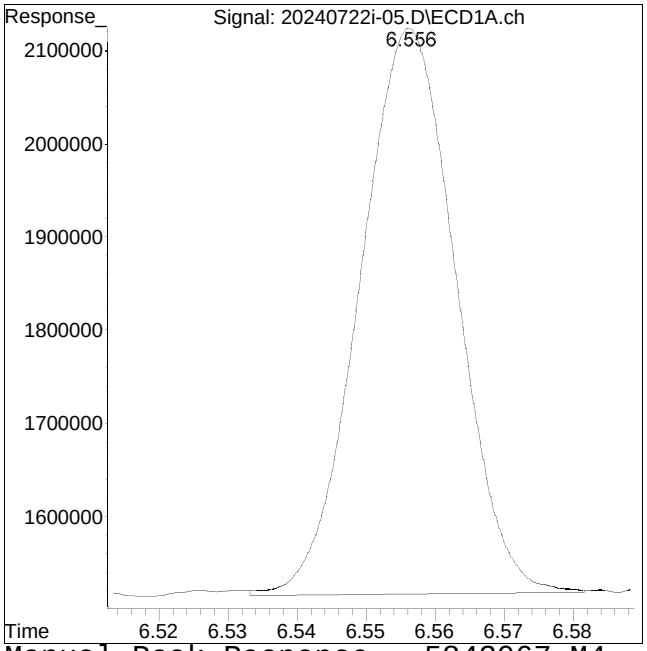
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #26: Endrin Ketone



Original Peak Response = 5865334



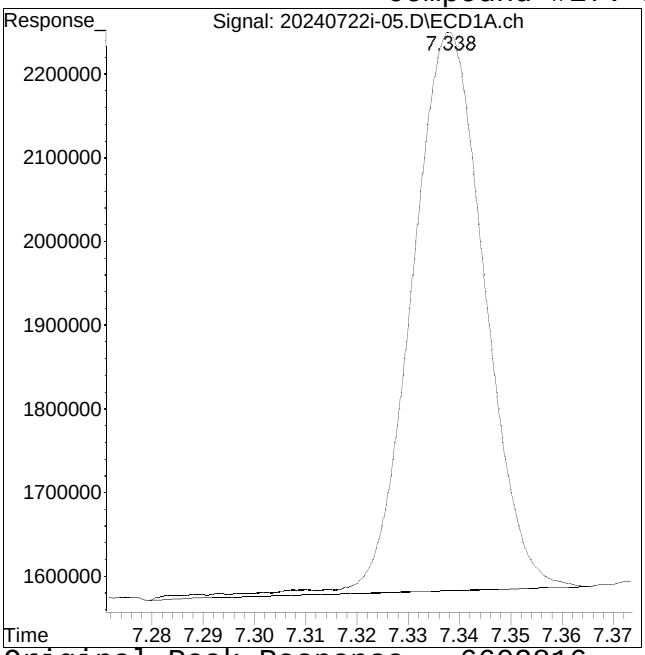
Manual Peak Response = 5843067 M4

M4 = Poor automated baseline construction.

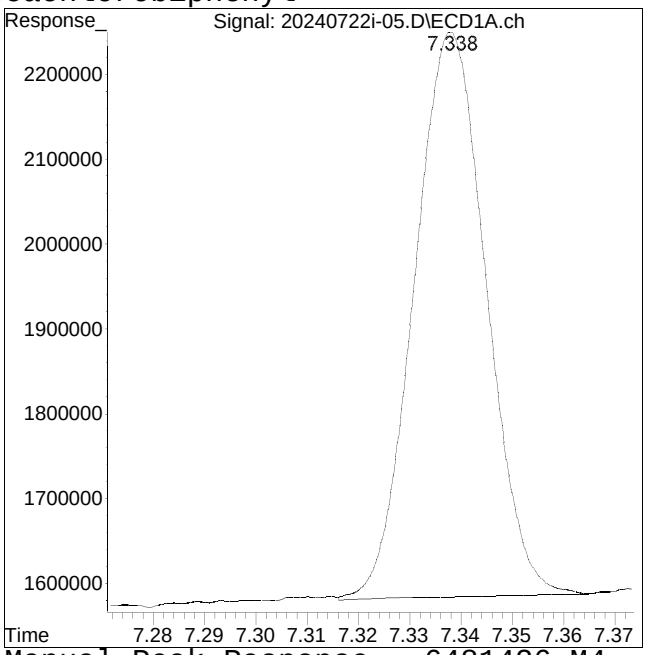
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 6602816



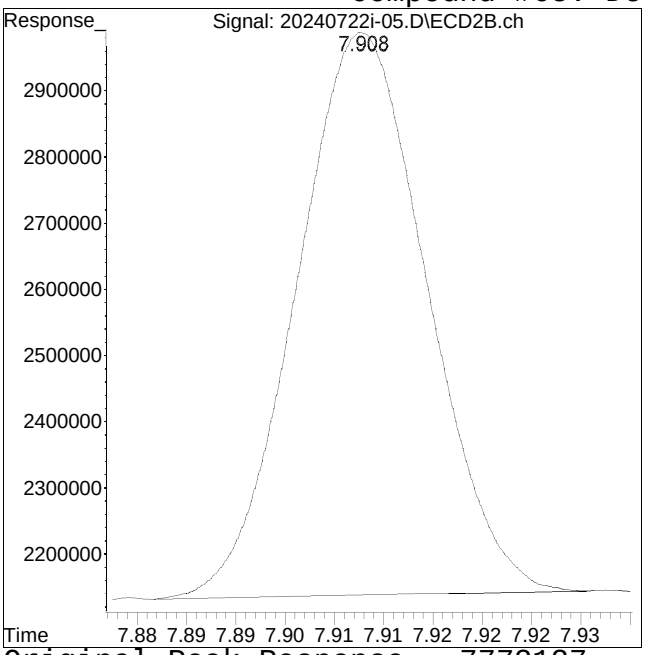
Manual Peak Response = 6481426 M4

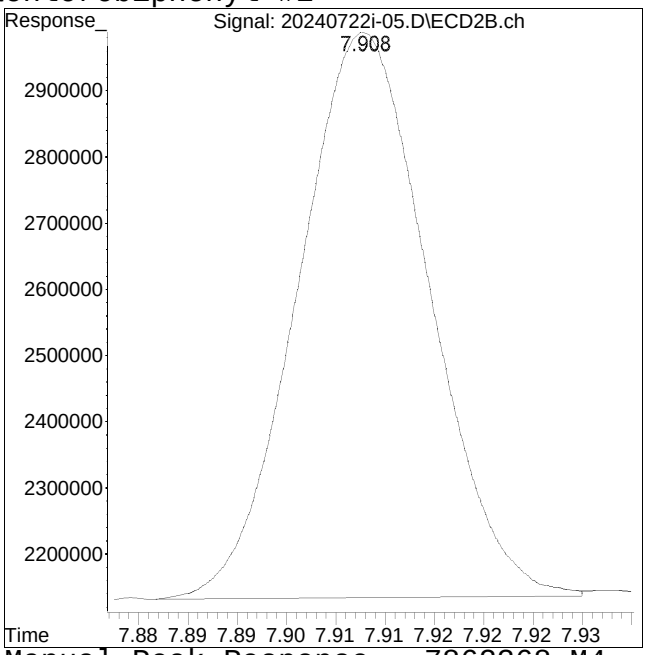
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-05.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:34 Instrument : PEST 20
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 7/23/2024 1:27 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 7772127 Manual Peak Response = 7862368 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:46
Operator : pest20:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:18:10 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:17:53 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.007	2.063	49390504	78959739	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.474	2.663	8456317	12483650	3.638	3.446M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.28%#	6.89%#
27) s	Decachlorobi	7.337	7.907	9233593	11420554	4.016	3.804
	Spiked Amount 50.000	Range 30 - 150		Recovery =		8.03%#	7.61%#
	Target Compounds						
3)	Hexachlorobe	2.741	3.040	9524208	13867870	3.872	3.675
4)	alpha-BHC	2.863	3.153	9725492	14456151	3.229M4	3.021
5)	gamma-BHC (l	3.108	3.476	9402467	13934950	3.395	3.166M4
6)	beta-BHC	3.175	3.551	5262309	7802199	3.886M4	3.690
7)	delta-BHC	3.325	3.848	9178361	13747417	3.300	3.095
8)	Heptachlor	3.514	3.917	9810871	14258781	3.622	3.433M4
9)	Aldrin	3.792	4.268	8855656	12418920	3.409M3	3.222
10)	Alachlor	3.935	4.141	1670048	2306503	3.808	3.788
11)	Chlorpyrifos	4.035	4.524	5528761	8419290	4.080	3.956
12)	Heptachlor E	4.409	4.930	8961689	12911569	3.667	3.455
13)	gamma-Chlord	4.545	5.141	8315352	11325732	3.618	3.427
14)	alpha-Chlord	4.693	5.296	9204061	12572631	3.656M4	3.427M4
15)	4,4'-DDE	4.796	5.474	8555843	11586920	3.421	3.175

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:46
Operator : pest20:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:18:10 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:17:53 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16)	Endosulfan I	4.846	5.354	8324557	11627310	3.616	3.394
17)	Dieldrin	5.109	5.628	8435508	11462946	3.488	3.261
18)	Endrin	5.345	5.911	8364604	11741874	3.499M4	3.279
19)	4,4'-DDD	5.434	6.018	7058784	9621818	3.501M4	3.244M4
20)	Endosulfan I	5.566	6.100	7811600	11255247	3.671M4	3.478M4
21)	4,4'-DDT	5.705	6.286	7890076	11119080	3.594	3.343
22)	Endrin Aldeh	5.959	6.386	6479770	9085647	3.576M4	3.349
23)	Methoxychlor	6.155	6.833	5084848	7343011	4.002M4	3.934M4
24)	Mirex	6.234	6.989	8111981	11096327	4.160	4.016
25)	Endosulfan S	6.333	6.608	8013717	11328623	3.922M3	3.611
26)	Endrin Keton	6.556	7.021	8563791	12288592	3.721	3.483
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:46
Operator : pest20:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:18:10 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:17:53 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

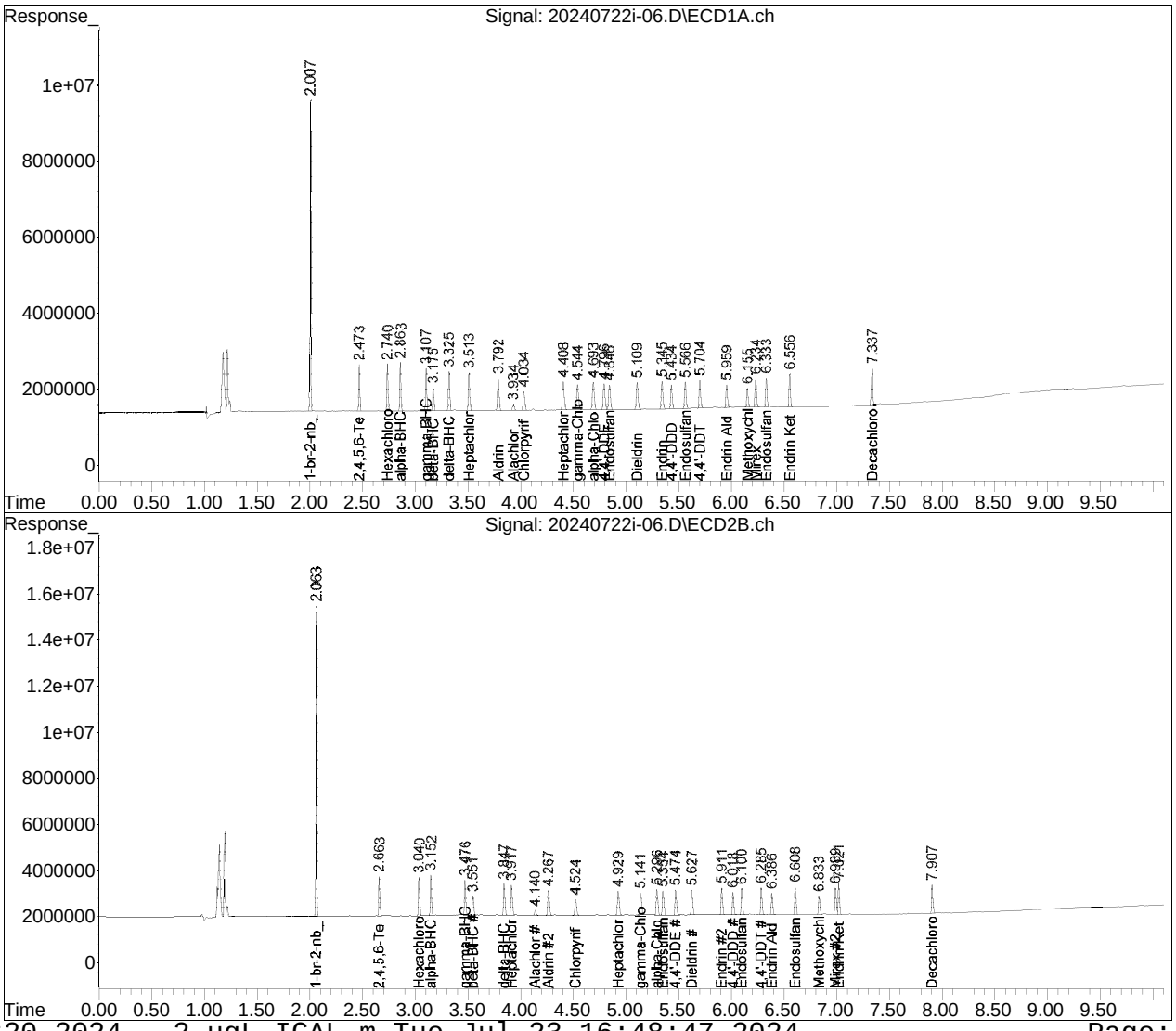
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:46
Operator : pest20:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:18:10 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:17:53 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

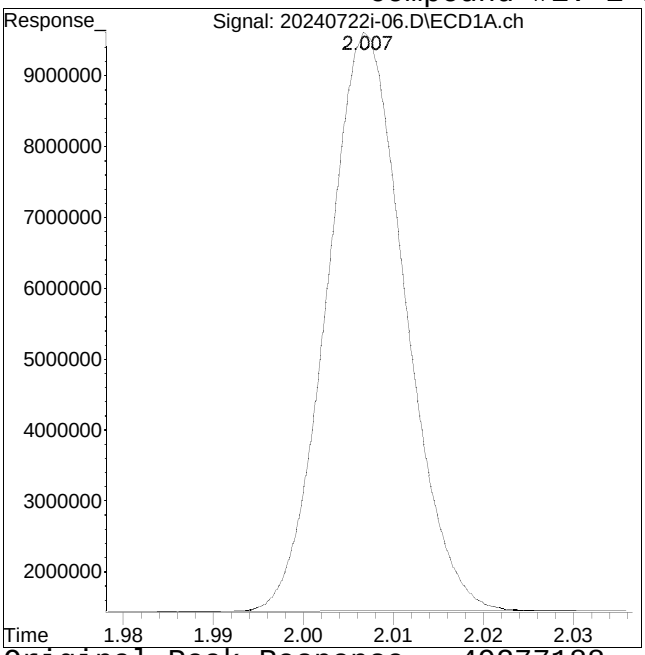


Manual Integration Report

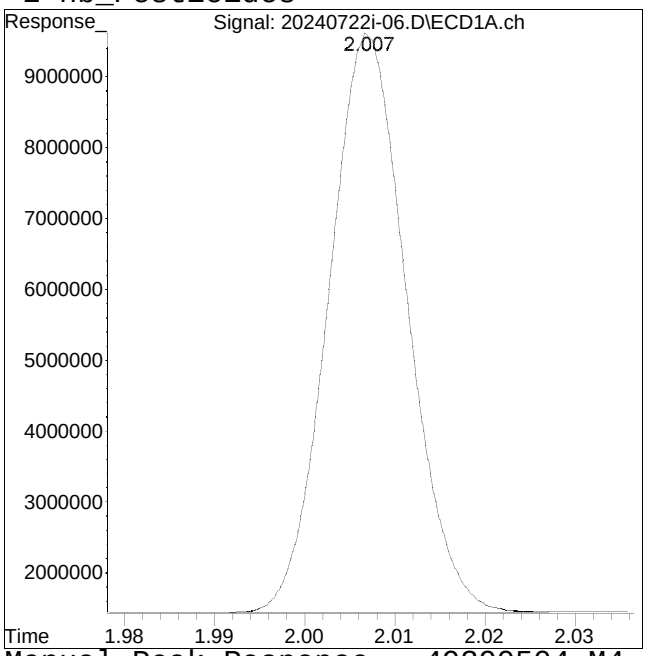
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-06.D
Date Inj'd : 7/22/2024 18:46
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:18 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 49277188



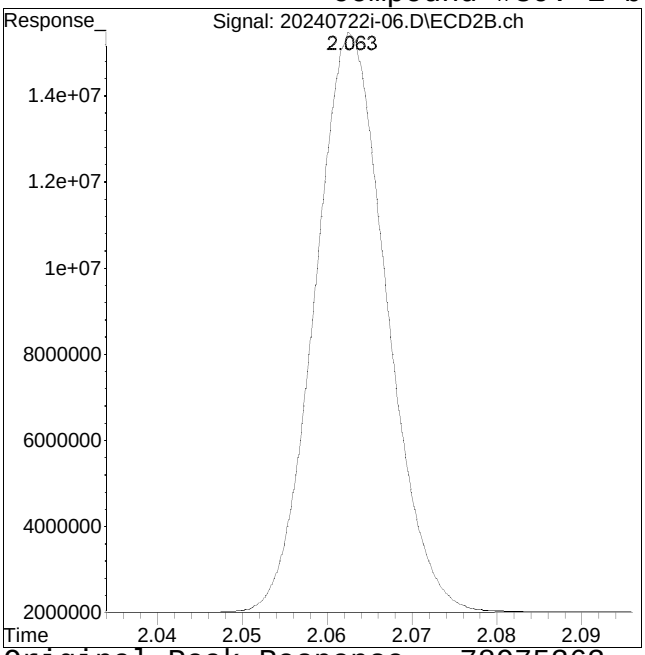
Manual Peak Response = 49390504 M4

M4 = Poor automated baseline construction.

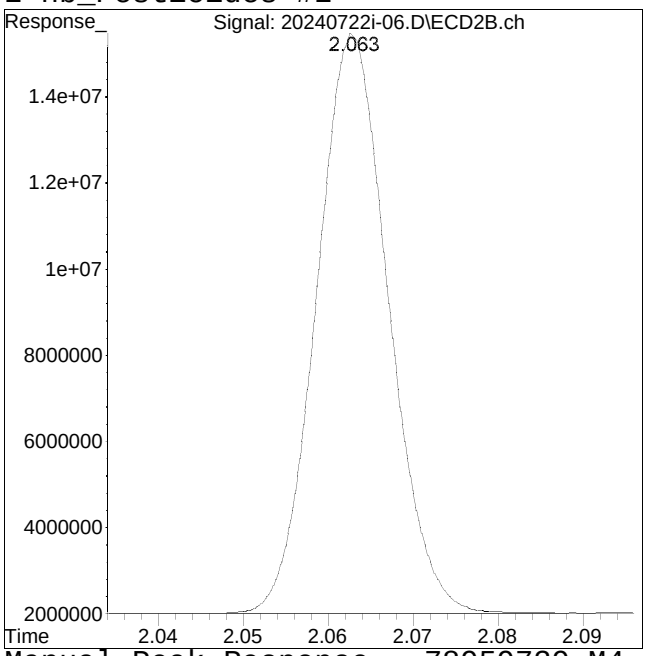
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-06.D
Date Inj'd : 7/22/2024 18:46
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:18 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 78975363



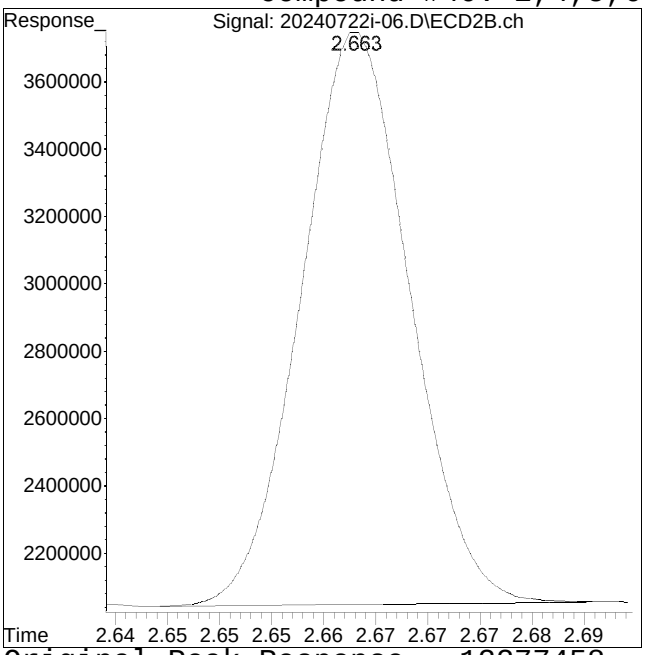
Manual Peak Response = 78959739 M4

M4 = Poor automated baseline construction.

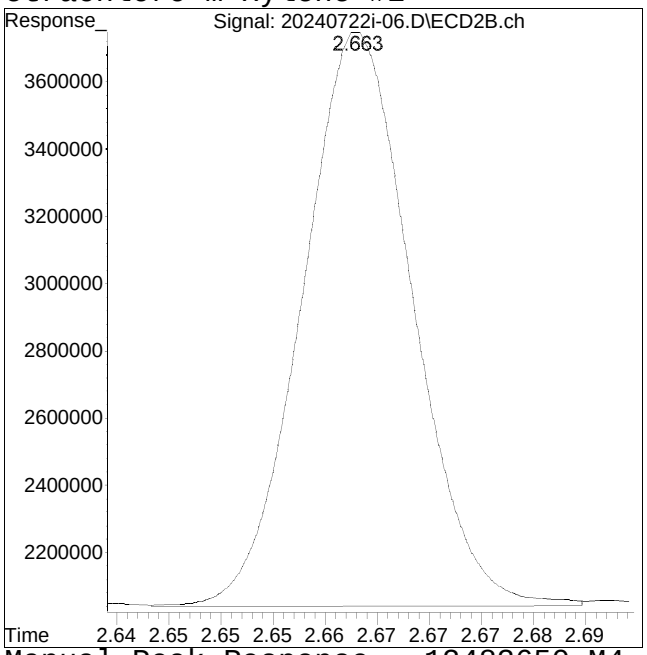
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 12277458



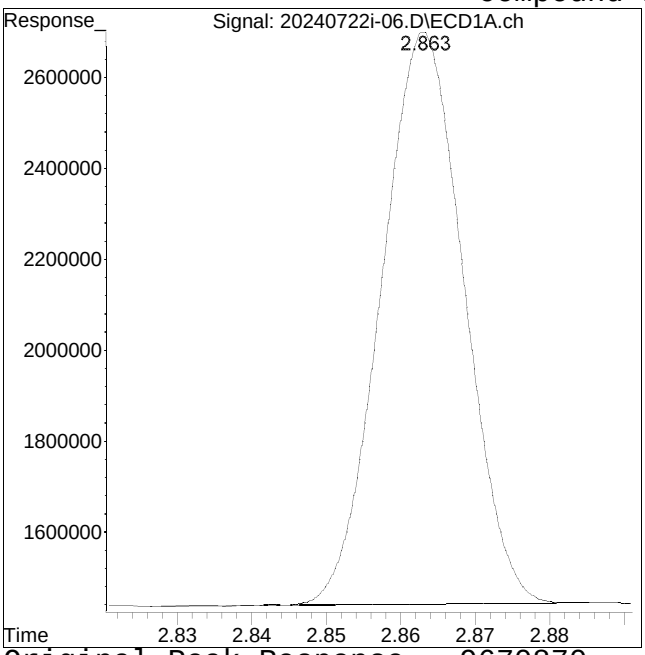
Manual Peak Response = 12483650 M4

M4 = Poor automated baseline construction.

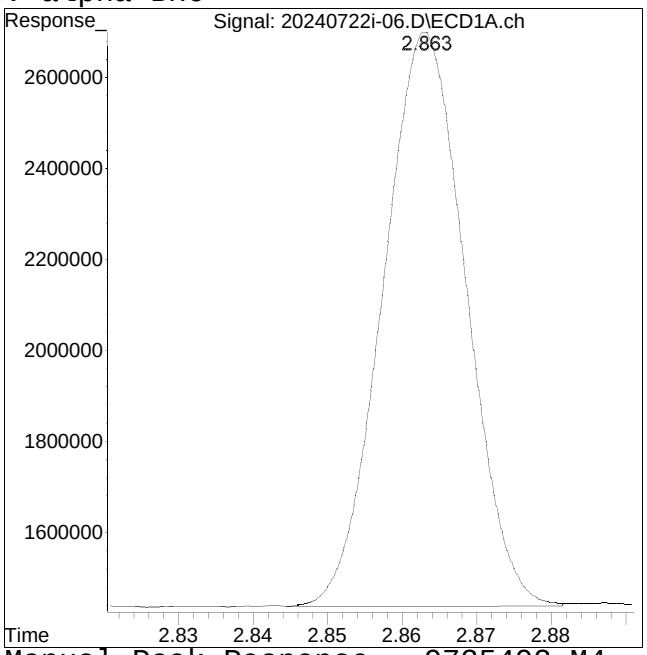
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #4: alpha-BHC



Original Peak Response = 9670870



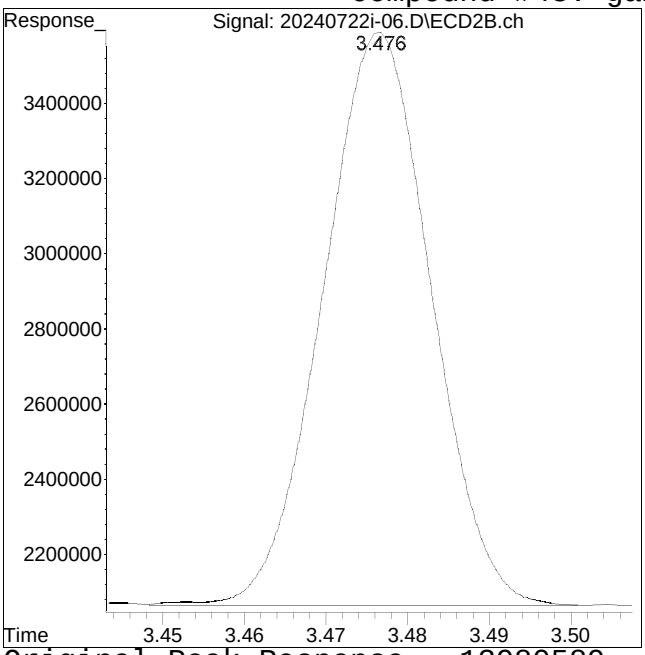
Manual Peak Response = 9725492 M4

M4 = Poor automated baseline construction.

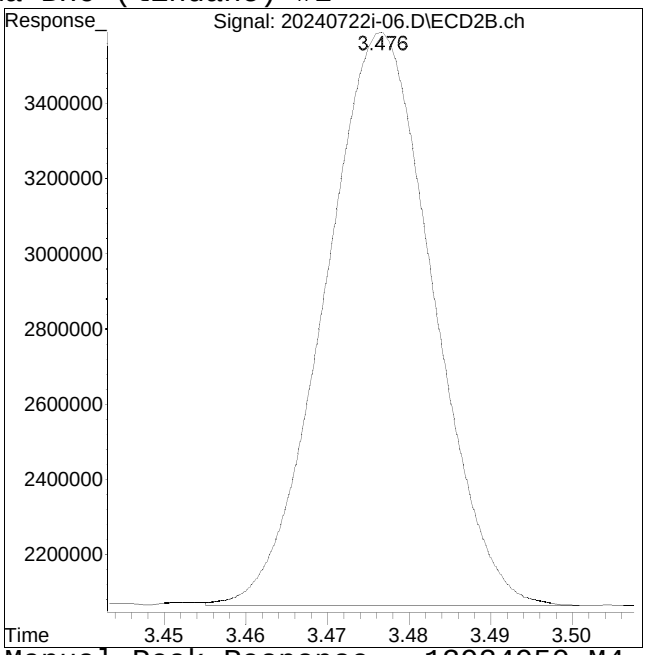
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 13980589



Manual Peak Response = 13934950 M4

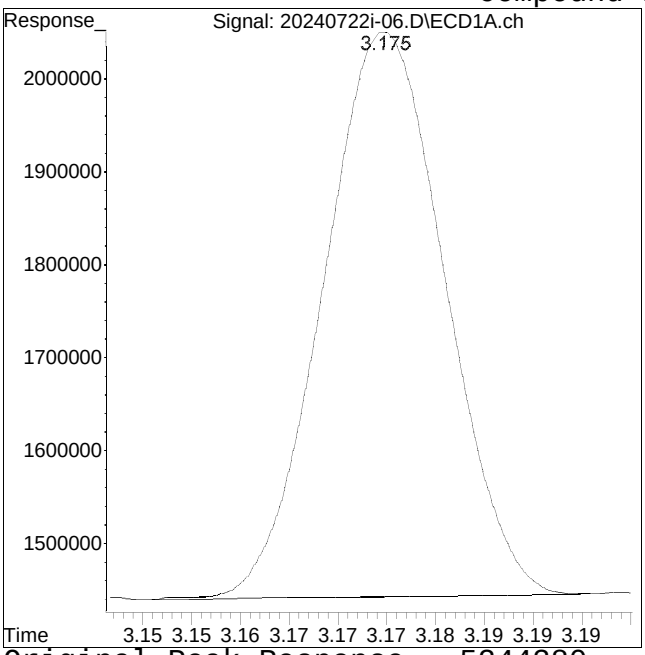
M4 = Poor automated baseline construction.

Manual Integration Report

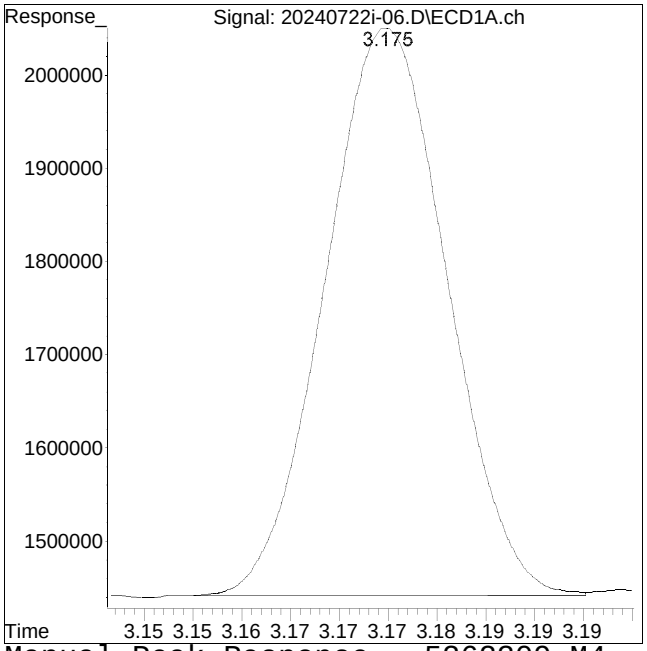
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-06.D
Date Inj'd : 7/22/2024 18:46
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:18 pm

Compound #6: beta-BHC



Original Peak Response = 5244380



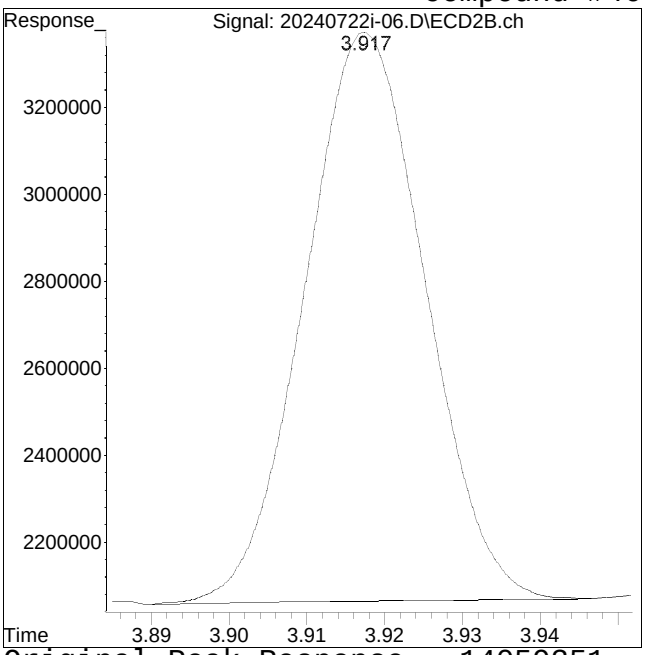
Manual Peak Response = 5262309 M4

M4 = Poor automated baseline construction.

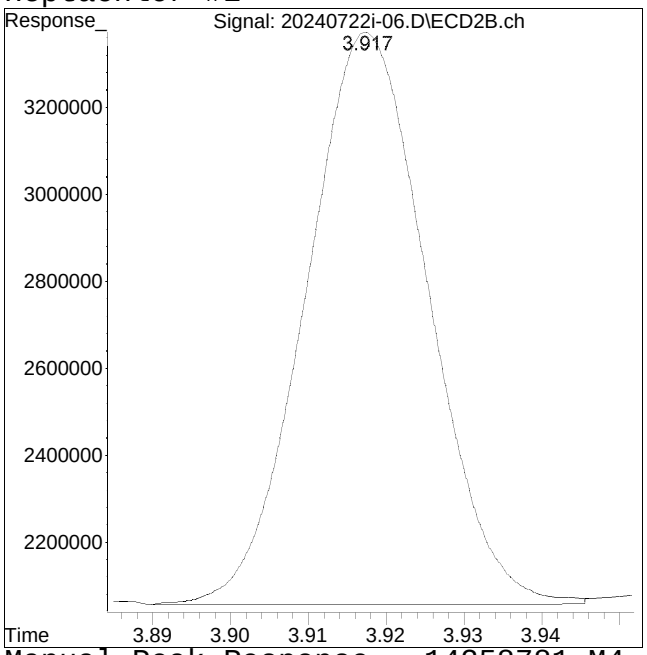
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #46: Heptachlor #2



Original Peak Response = 14059351



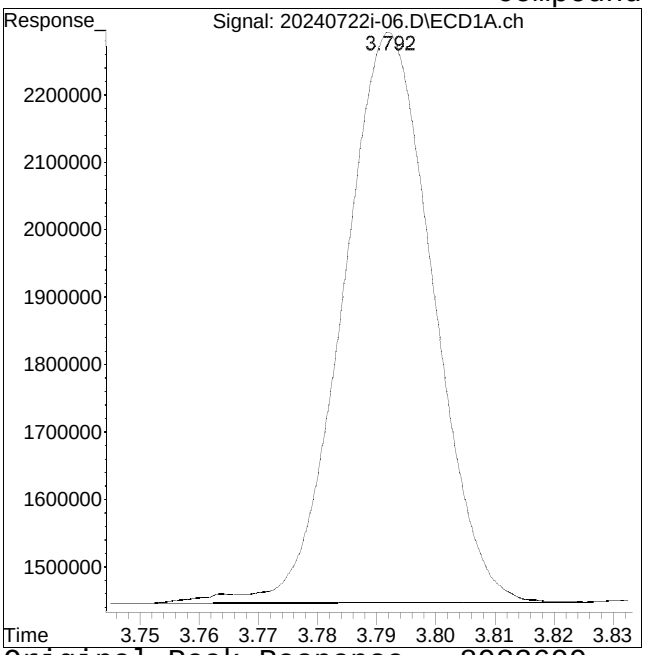
Manual Peak Response = 14258781 M4

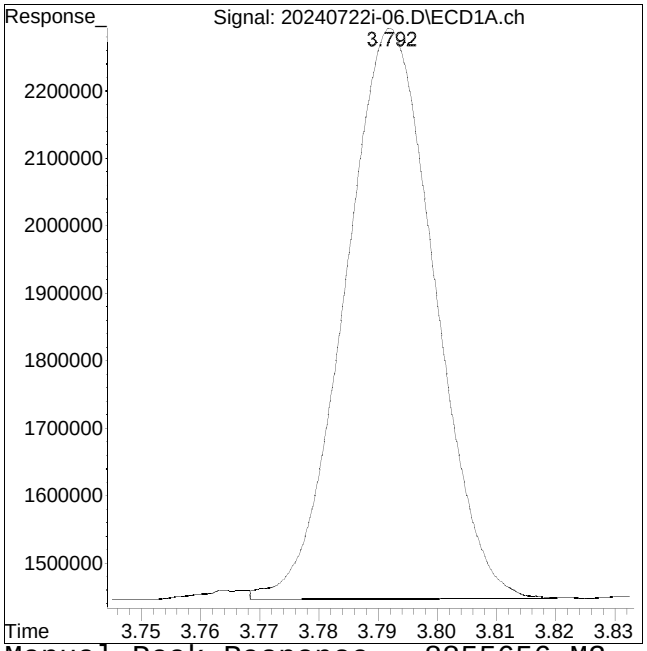
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #9: Aldrin



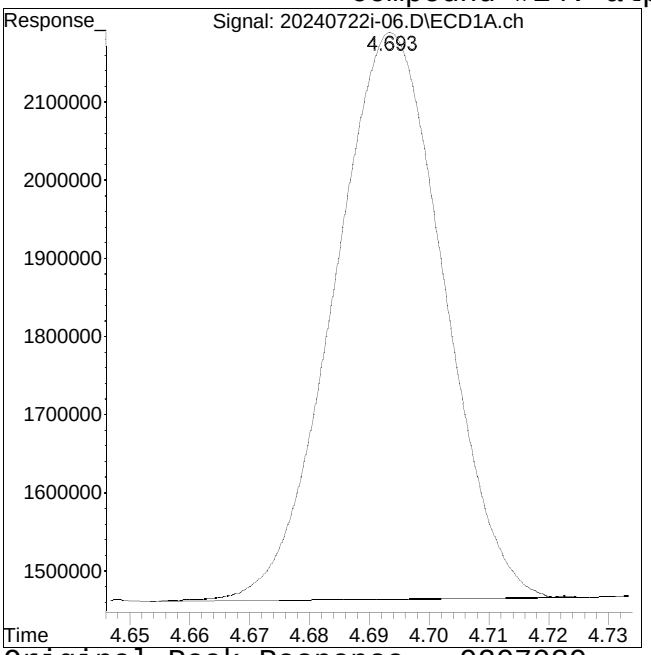


Original Peak Response = 8933699 Manual Peak Response = 8855656 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

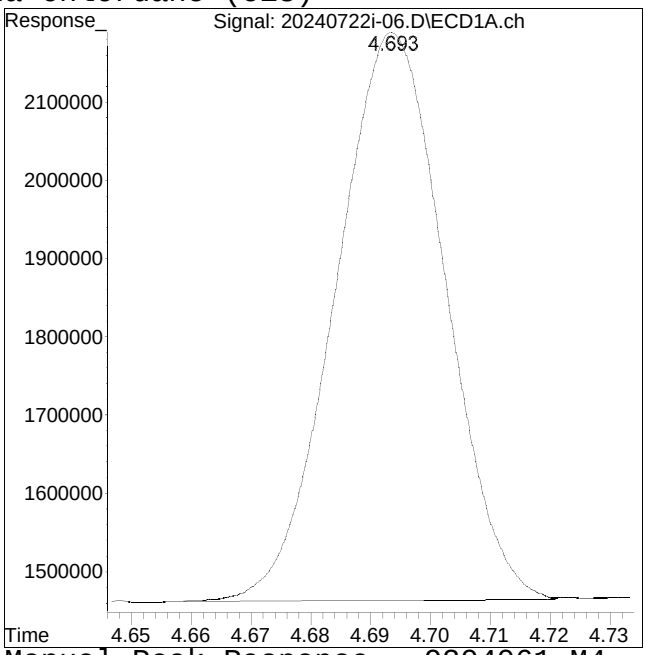
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 9207039



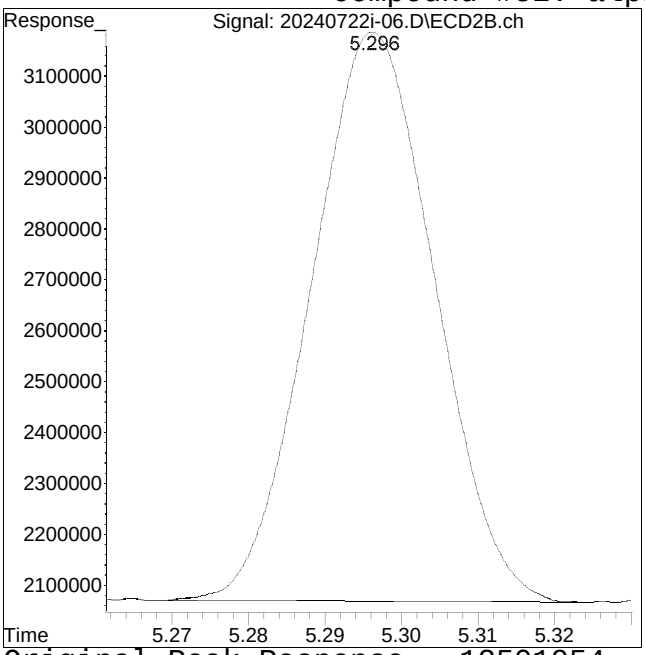
Manual Peak Response = 9204061 M4

M4 = Poor automated baseline construction.

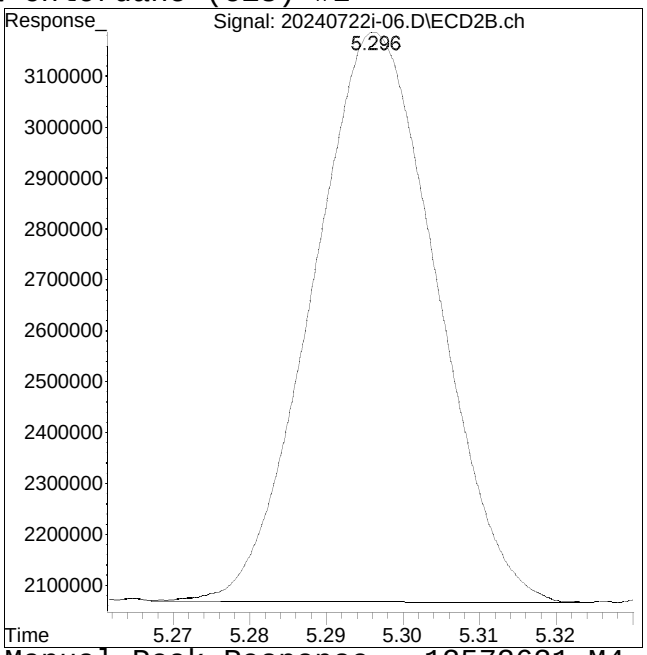
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 12501054



Manual Peak Response = 12572631 M4

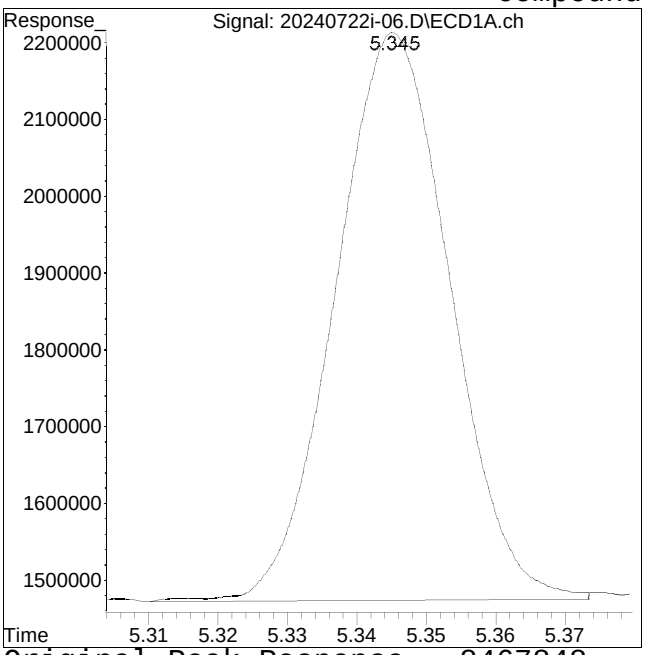
M4 = Poor automated baseline construction.

Manual Integration Report

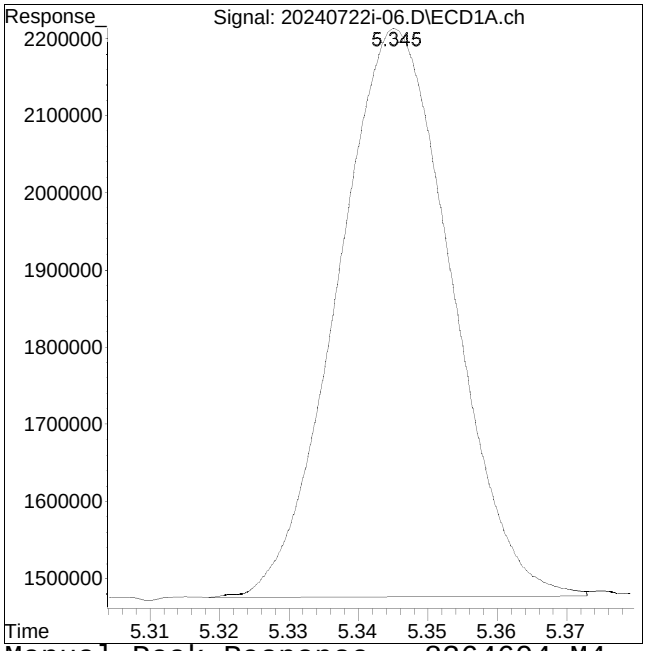
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-06.D
Date Inj'd : 7/22/2024 18:46
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:18 pm

Compound #18: Endrin



Original Peak Response = 8467848



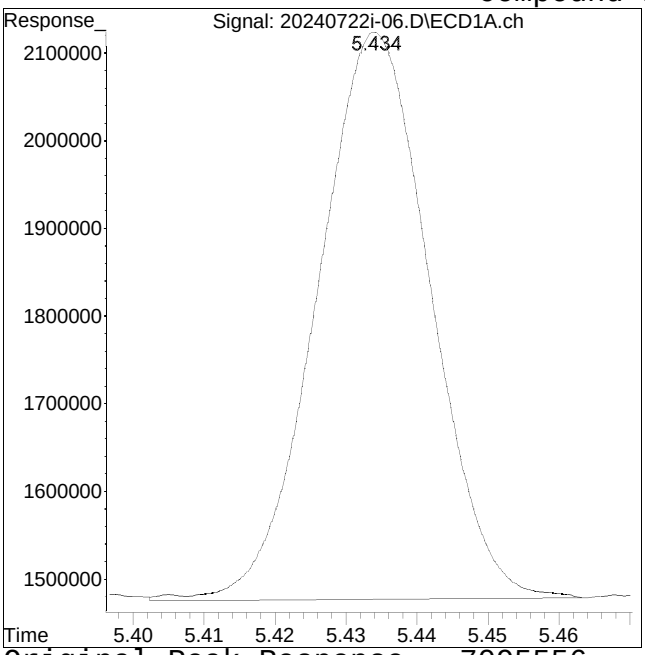
Manual Peak Response = 8364604 M4

M4 = Poor automated baseline construction.

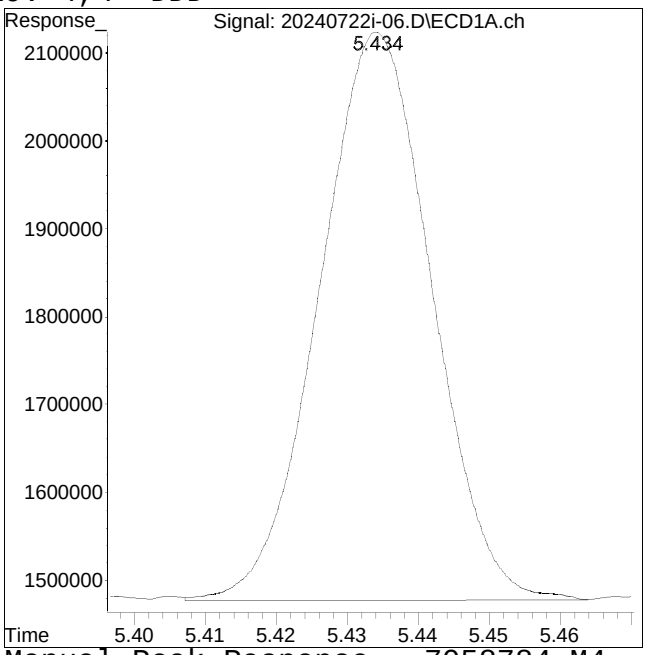
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #19: 4,4'-DDD



Original Peak Response = 7095556



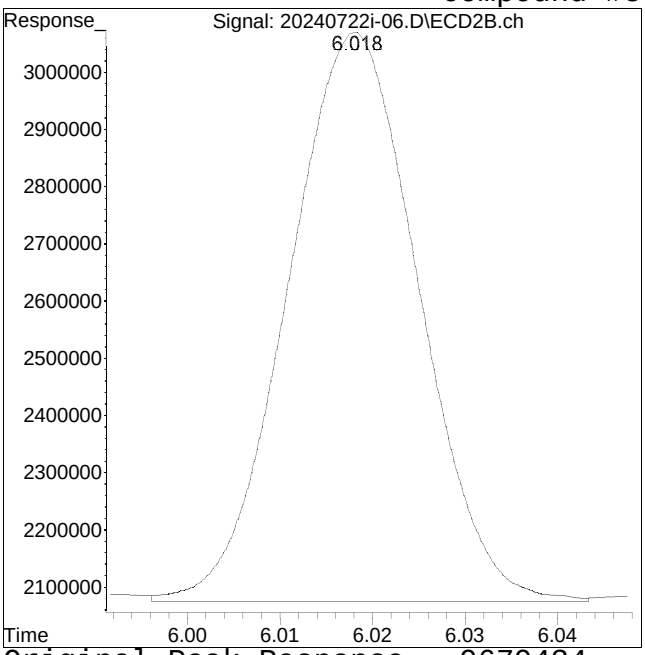
Manual Peak Response = 7058784 M4

M4 = Poor automated baseline construction.

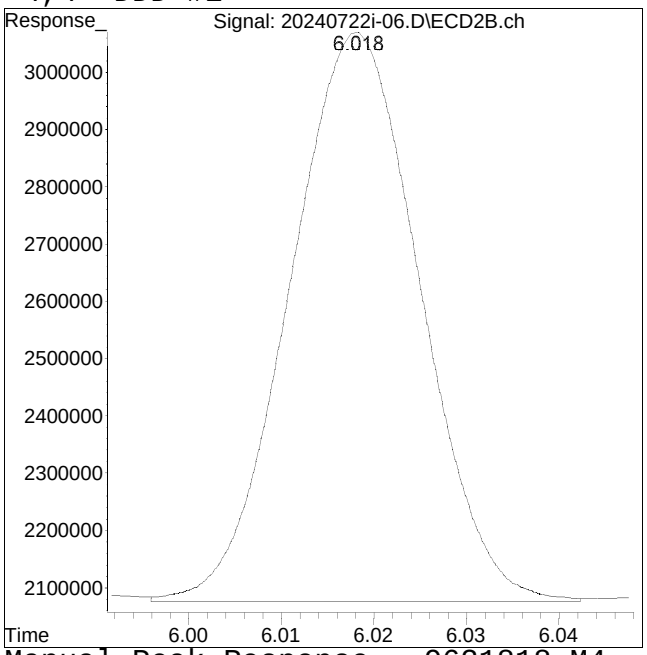
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 9679434



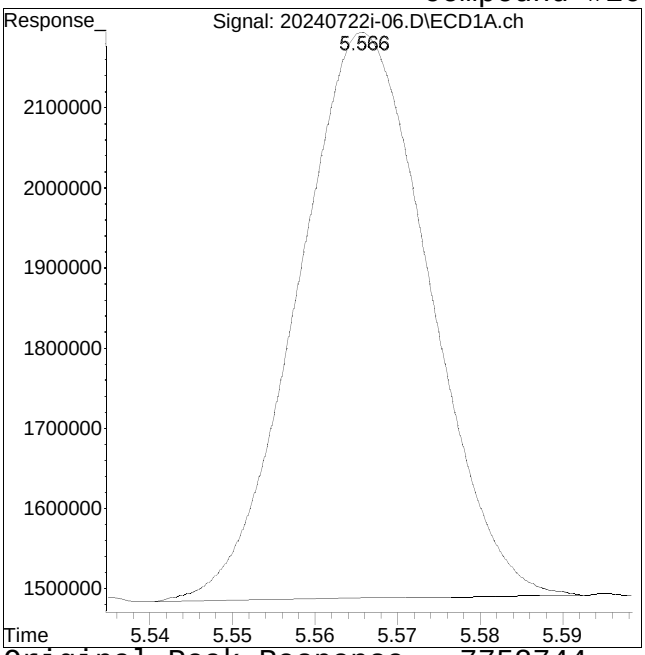
Manual Peak Response = 9621818 M4

M4 = Poor automated baseline construction.

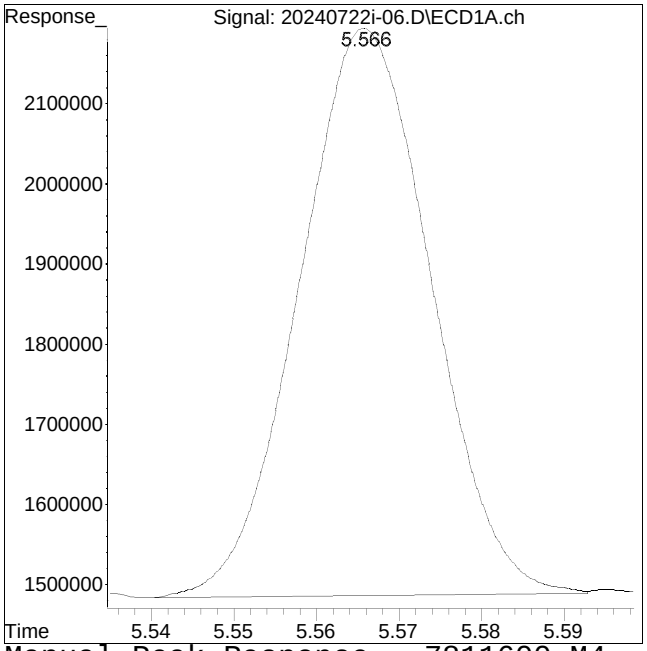
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #20: Endosulfan II



Original Peak Response = 7752744



Manual Peak Response = 7811600 M4

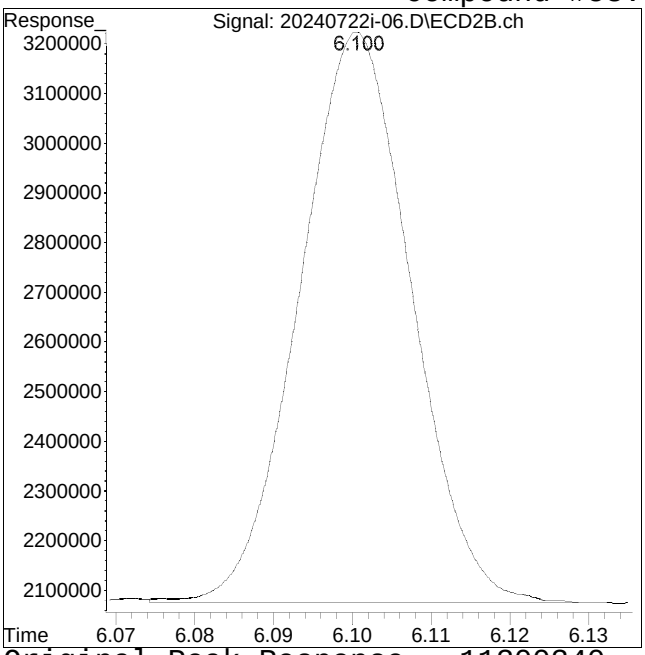
M4 = Poor automated baseline construction.

Manual Integration Report

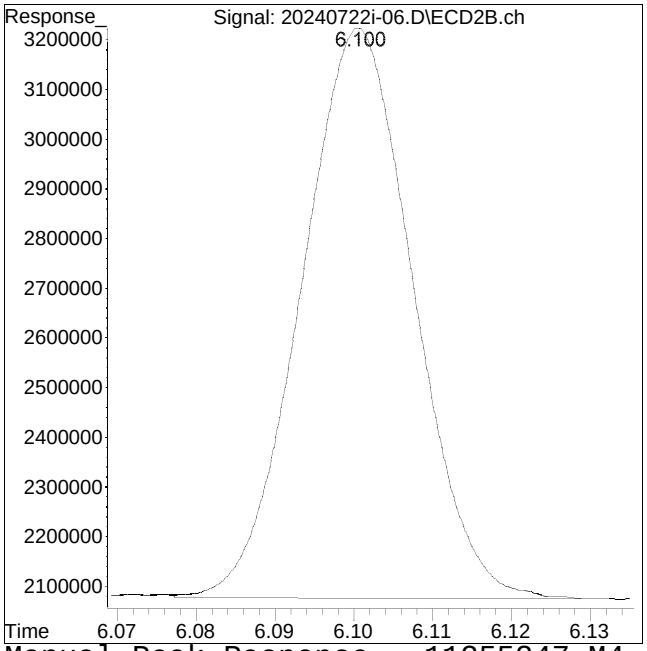
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-06.D
Date Inj'd : 7/22/2024 18:46
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:18 pm

Compound #58: Endosulfan II #2



Original Peak Response = 11300340



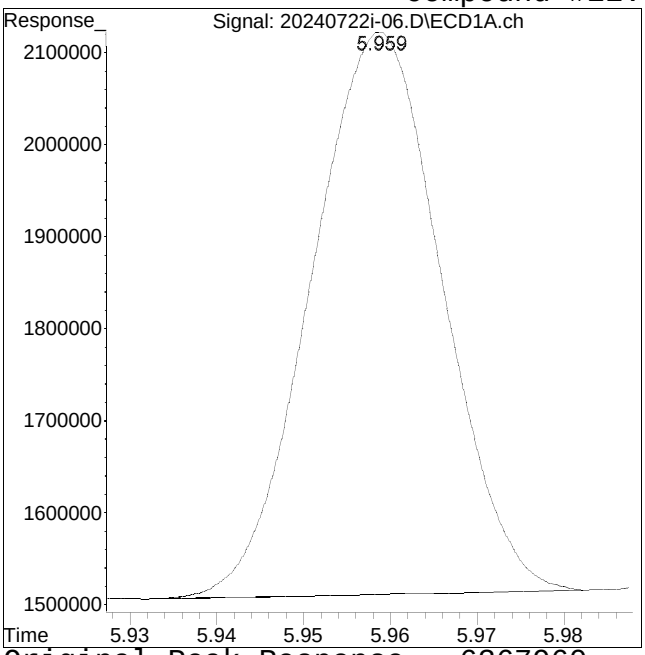
Manual Peak Response = 11255247 M4

M4 = Poor automated baseline construction.

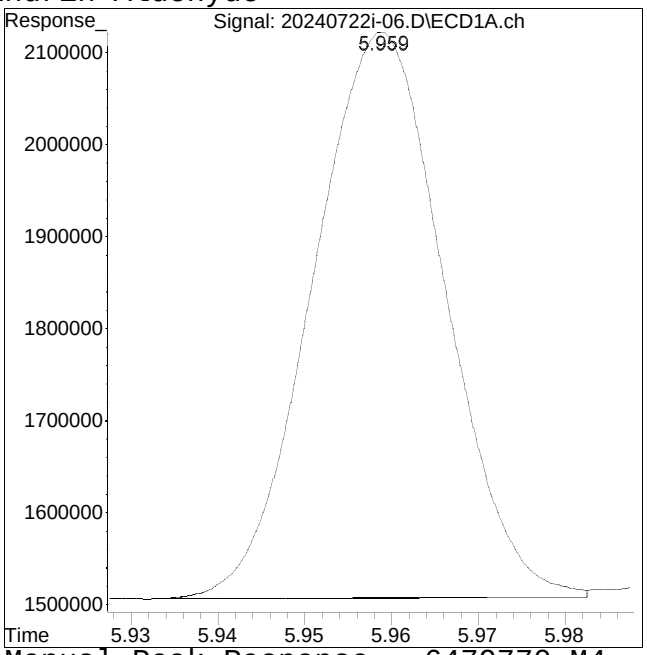
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 6367960



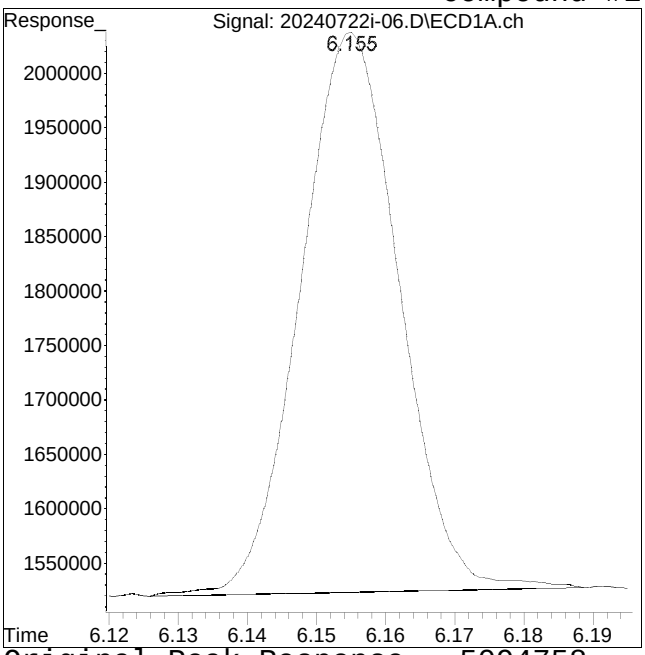
Manual Peak Response = 6479770 M4

M4 = Poor automated baseline construction.

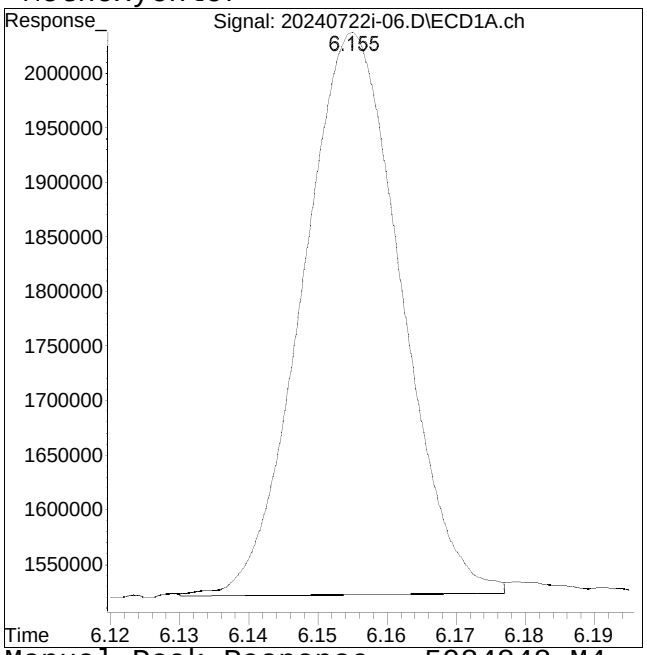
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #23: Methoxychlor



Original Peak Response = 5094758



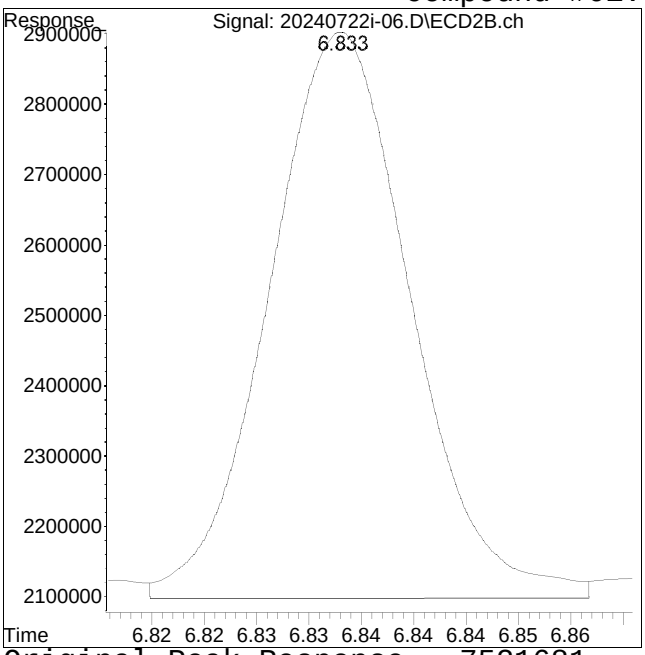
Manual Peak Response = 5084848 M4

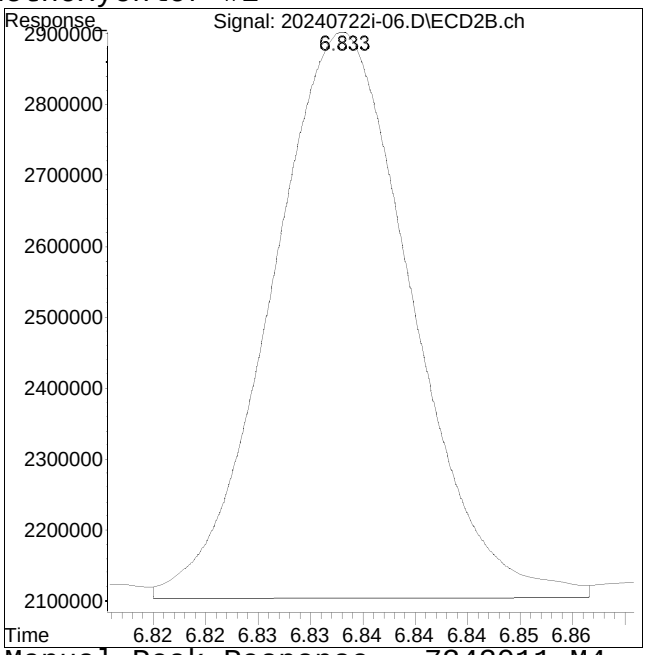
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-06.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:46 Instrument : PEST 20
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 7/23/2024 1:18 pm

Compound #61: Methoxychlor #2



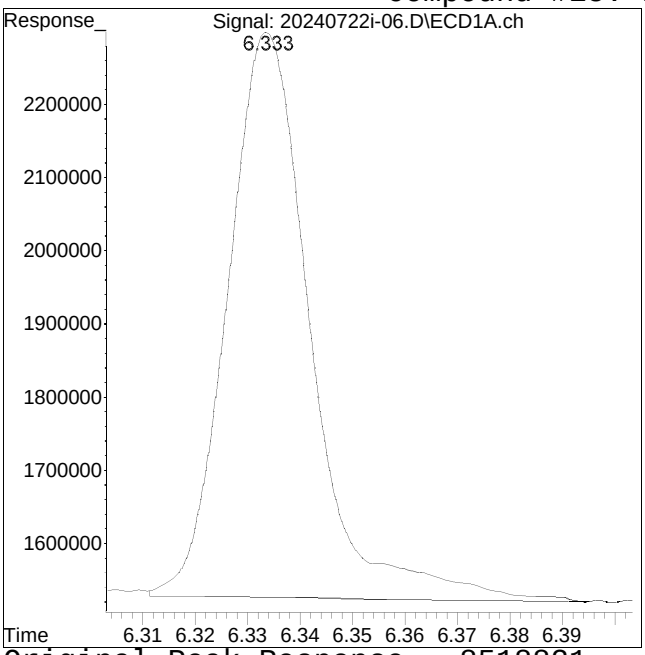


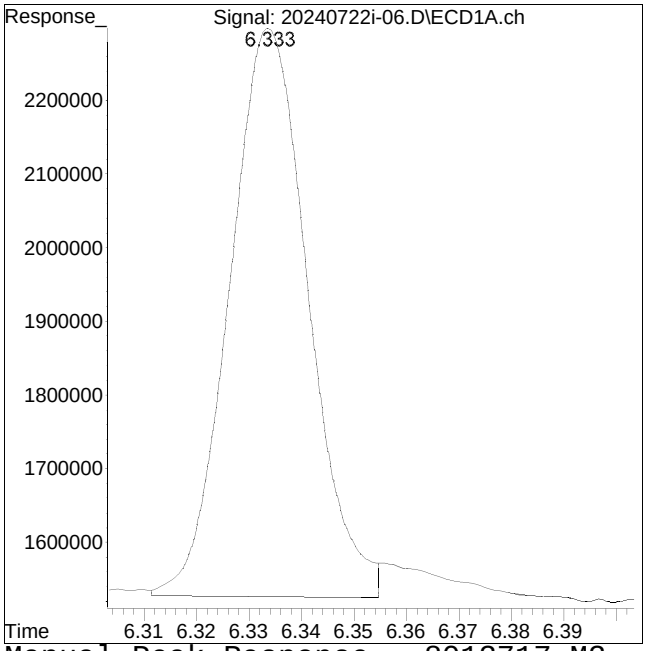
Original Peak Response = 7521681 Manual Peak Response = 7343011 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-06.D
Date Inj'd : 7/22/2024 18:46
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:18 pm

Compound #25: Endosulfan Sulfate





Original Peak Response = 8518821 Manual Peak Response = 8013717 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:59
Operator : pest20:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:11:32 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:11:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.006	2.062	53029471	84333663	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.472	2.662	11561163	17005155	4.784	4.484
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.57%#	8.97%#
27) s	Decachlorobi	7.336	7.906	12231060	15385400	5.203	4.997M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.41%#	9.99%#
	Target Compounds						
3)	Hexachlorobe	2.738	3.039	12841006	18722181	5.082M3	4.800
4)	alpha-BHC	2.861	3.152	13345439	19906753	4.153	3.875
5)	gamma-BHC (l	3.106	3.476	12828849	19074756	4.383	4.069
6)	beta-BHC	3.173	3.551	7203976	10528668	5.203M4	4.821
7)	delta-BHC	3.323	3.847	12643763	18808707	4.284M4	3.957
8)	Heptachlor	3.512	3.917	13498657	19333567	4.795	4.438M4
9)	Aldrin	3.790	4.267	12105241	16903923	4.415	4.129
10)	Alachlor	3.933	4.141	2261030	3161970	5.054	5.138M4
11)	Chlorpyrifos	4.032	4.524	7516464	11253848	5.573M4	5.263M4
12)	Heptachlor E	4.406	4.929	12128743	17604106	4.771M4	4.502
13)	gamma-Chlord	4.543	5.140	12741725	15596731	5.483	4.513M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:59
Operator : pest20:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:11:32 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:11:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14)	alpha-Chlord	4.692	5.296	12528355	17148296	4.787M4	4.461M4
15)	4,4'-DDE	4.794	5.474	11560886	16601241	4.372	4.316
16)	Endosulfan I	4.845	5.353	11262302	15906066	4.688	4.424M4
17)	Dieldrin	5.107	5.627	12144093	15543343	4.841M4	4.169
18)	Endrin	5.344	5.911	11330449	15846400	4.507M4	4.173
19)	4,4'-DDD	5.433	6.018	9463969	12923296	4.455	4.096
20)	Endosulfan I	5.565	6.100	10457935	15083678	4.713M4	4.446
21)	4,4'-DDT	5.703	6.285	10547186	14885199	4.583M4	4.230M4
22)	Endrin Aldeh	5.958	6.386	8749548	12278704	4.612	4.289
23)	Methoxychlor	6.154	6.832	6820701	9549003	5.264M4	4.987M3
24)	Mirex	6.233	6.988	10572599	14669134	5.329	5.224M4
25)	Endosulfan S	6.332	6.608	10500074	14961719	4.983M3	4.571
26)	Endrin Keton	6.556	7.020	11264559	16316077	4.690	4.403
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:59
Operator : pest20:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:11:32 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:11:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

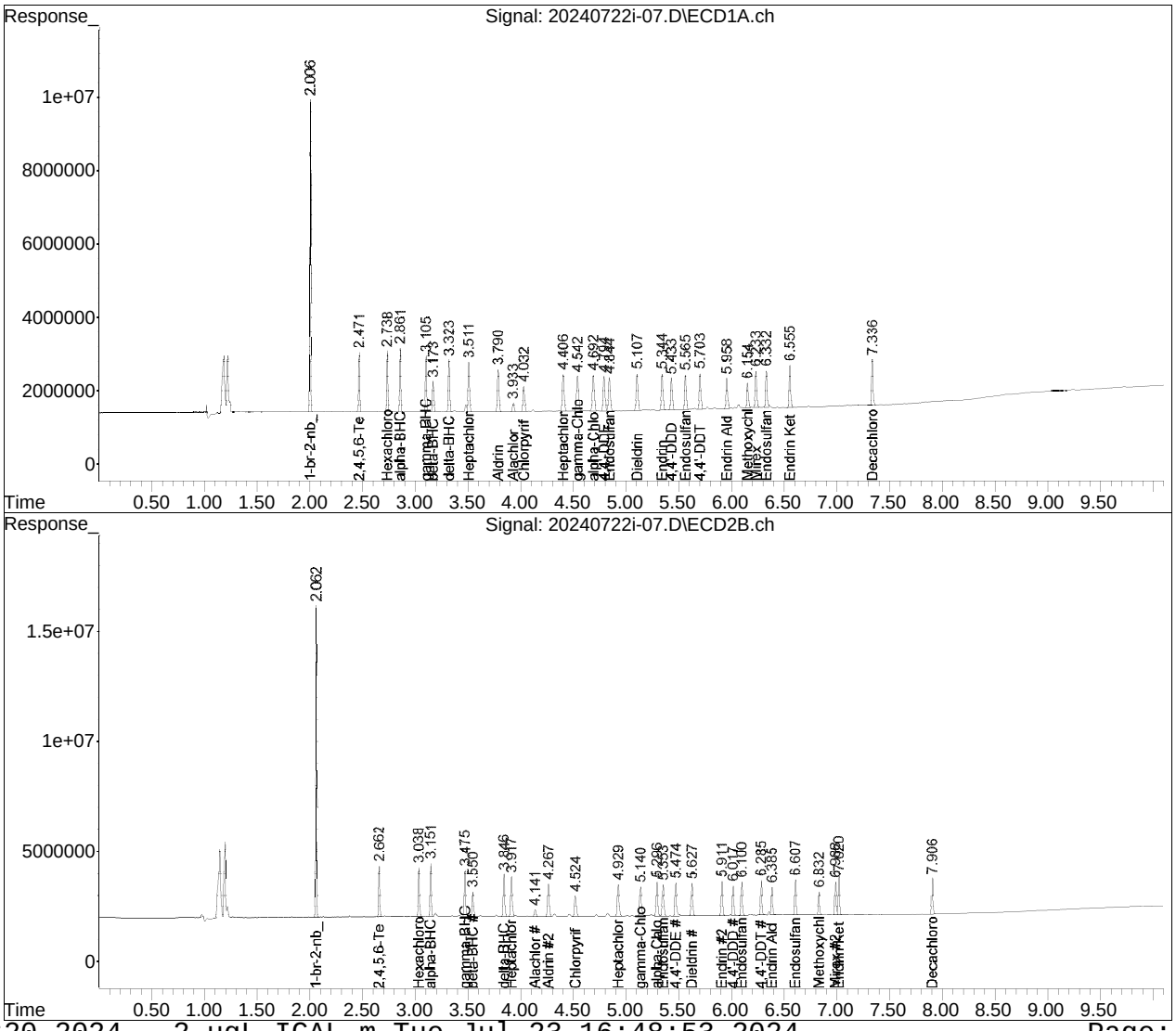
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 18:59
Operator : pest20:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:11:32 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:11:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

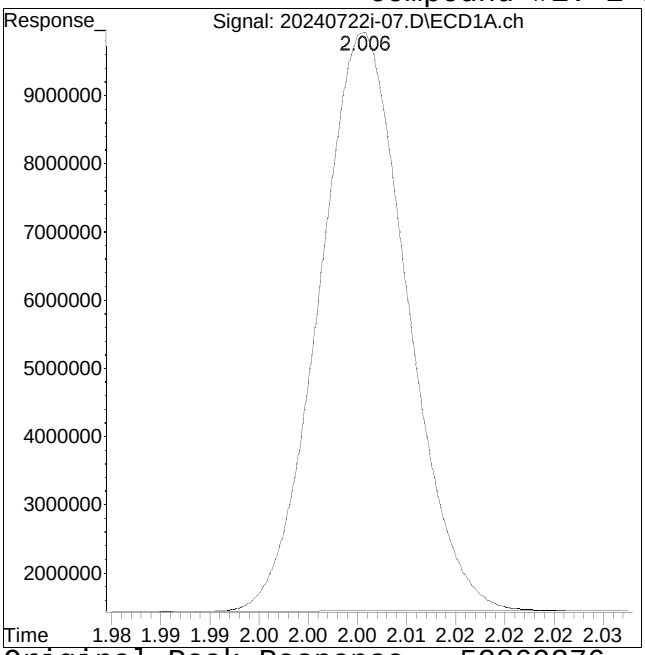


Manual Integration Report

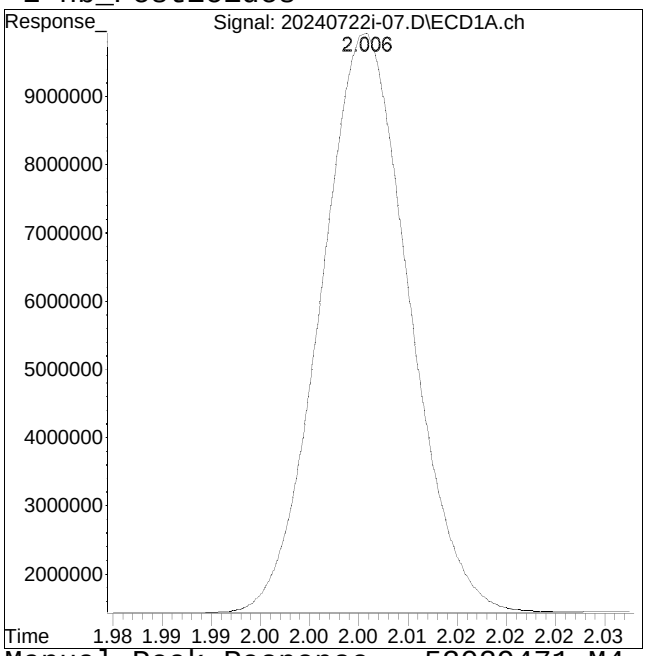
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-07.D
Date Inj'd : 7/22/2024 18:59
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:11 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 52869376



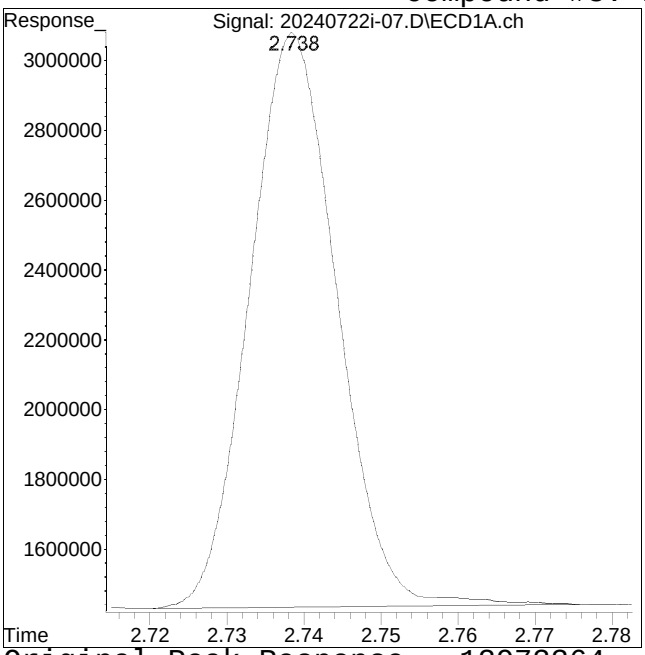
Manual Peak Response = 53029471 M4

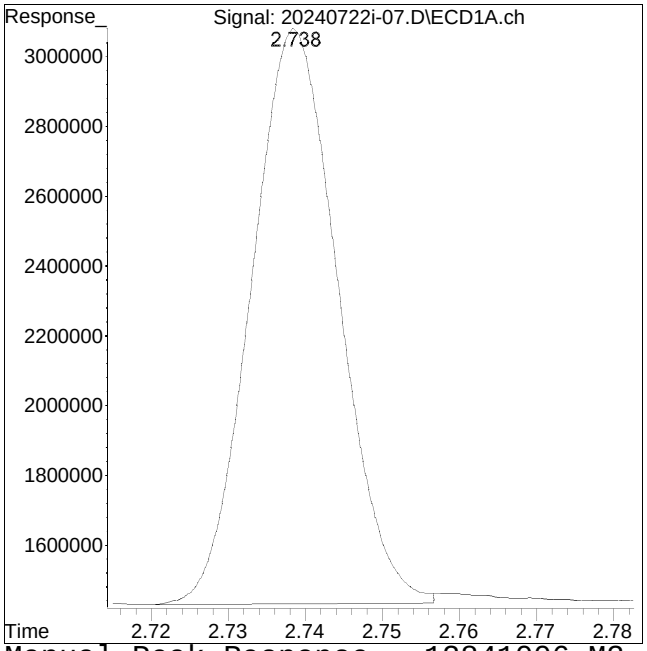
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #3: Hexachlorobenzene



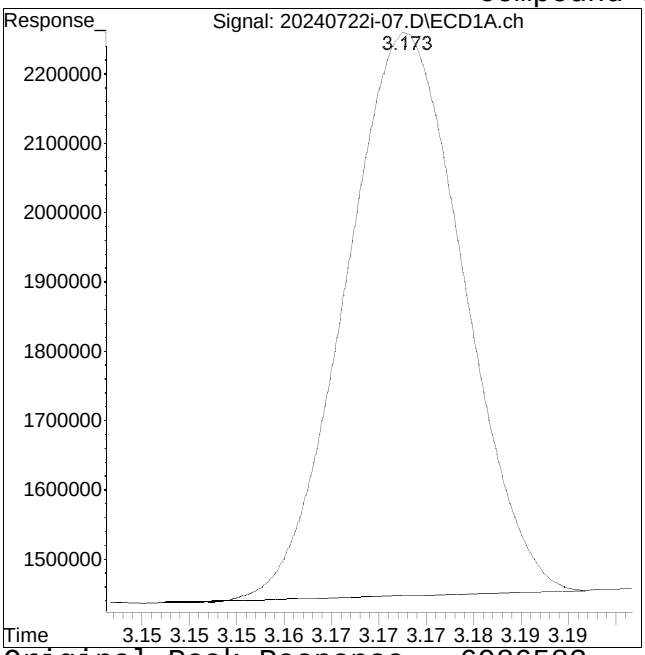


Original Peak Response = 12973364 Manual Peak Response = 12841006 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

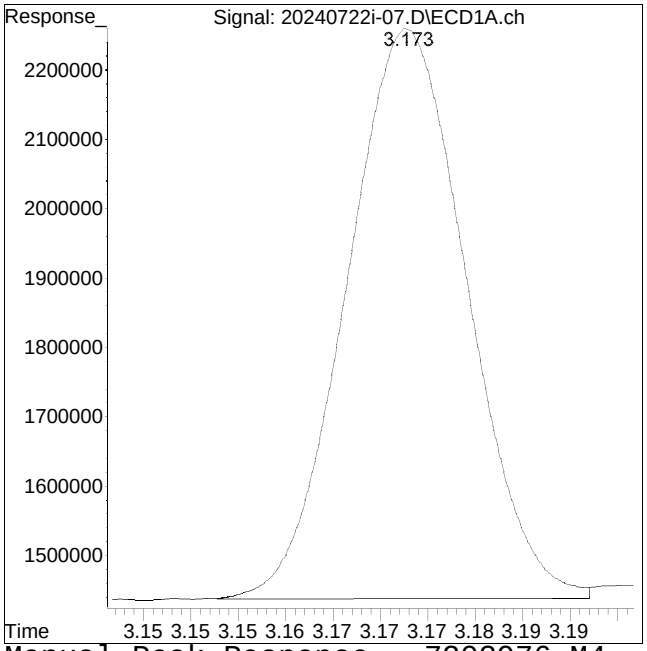
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #6: beta-BHC



Original Peak Response = 6986583



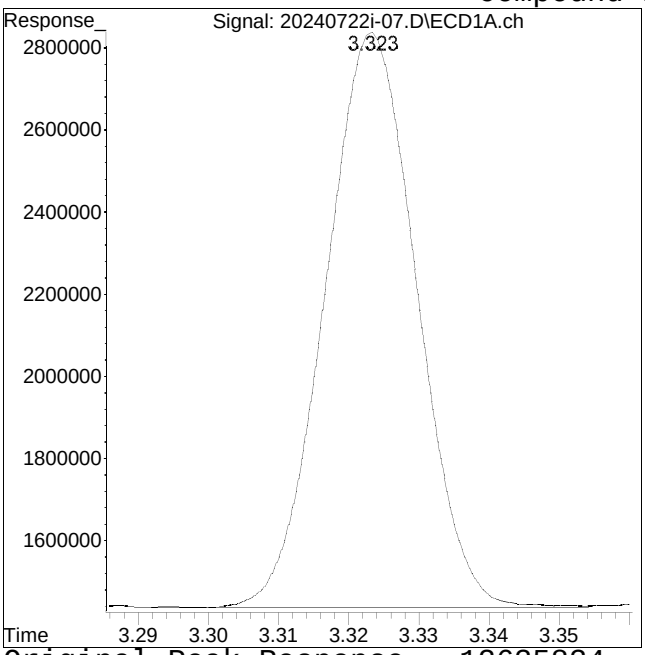
Manual Peak Response = 7203976 M4

M4 = Poor automated baseline construction.

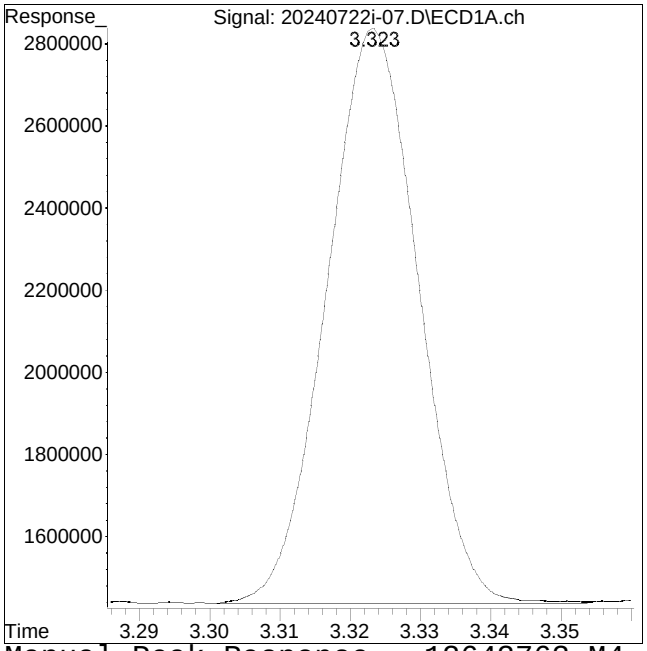
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #7: delta-BHC



Original Peak Response = 12635834



Manual Peak Response = 12643763 M4

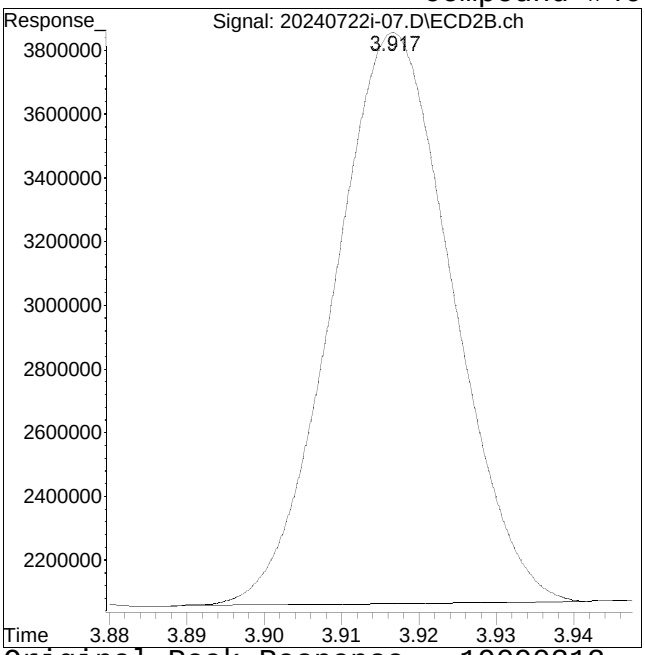
M4 = Poor automated baseline construction.

Manual Integration Report

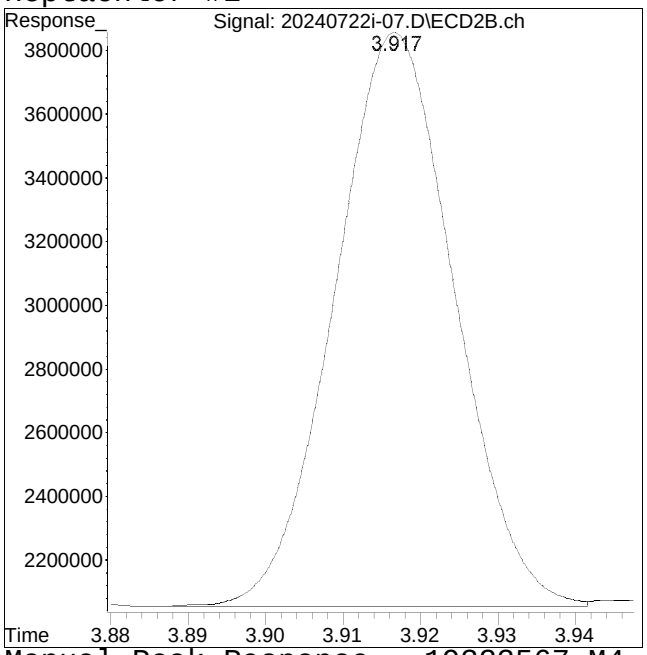
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-07.D
Date Inj'd : 7/22/2024 18:59
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:11 pm

Compound #46: Heptachlor #2



Original Peak Response = 19090312



Manual Peak Response = 19333567 M4

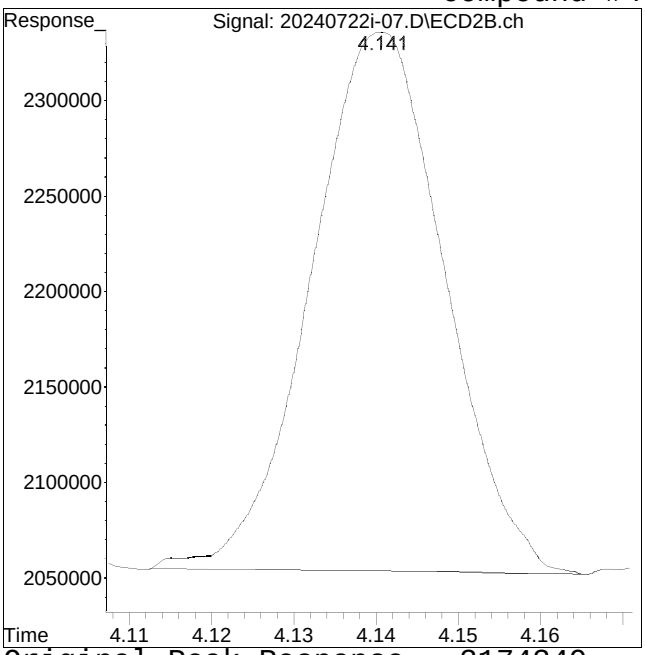
M4 = Poor automated baseline construction.

Manual Integration Report

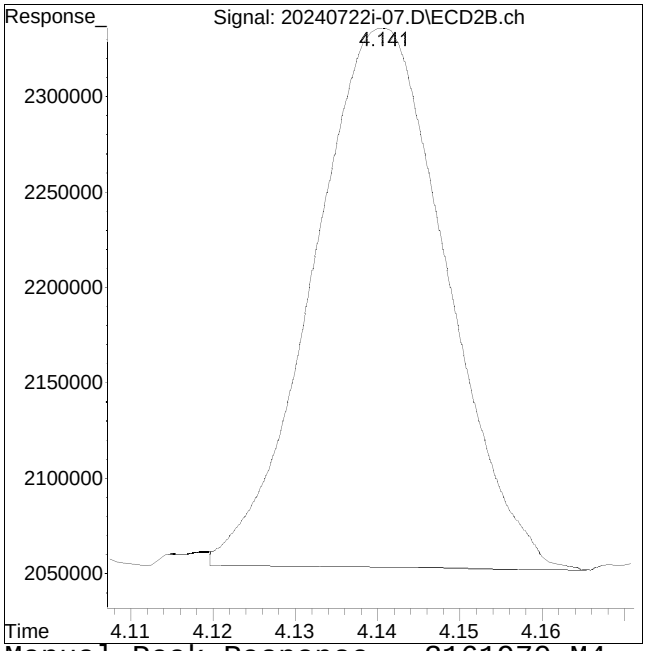
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-07.D
Date Inj'd : 7/22/2024 18:59
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:11 pm

Compound #48: Alachlor #2



Original Peak Response = 3174349



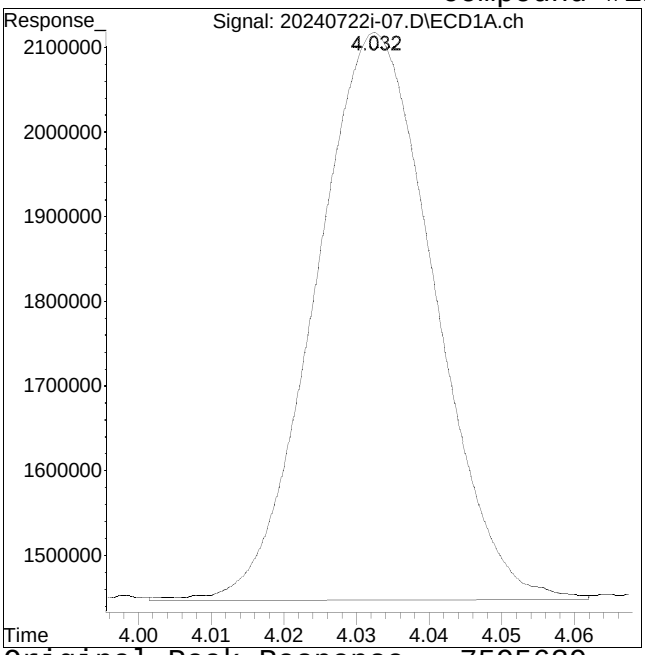
Manual Peak Response = 3161970 M4

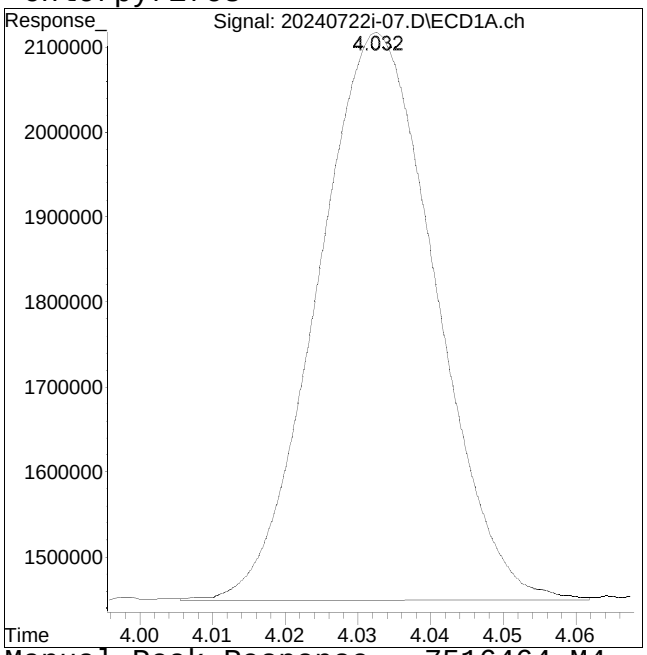
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #11: Chlorpyrifos



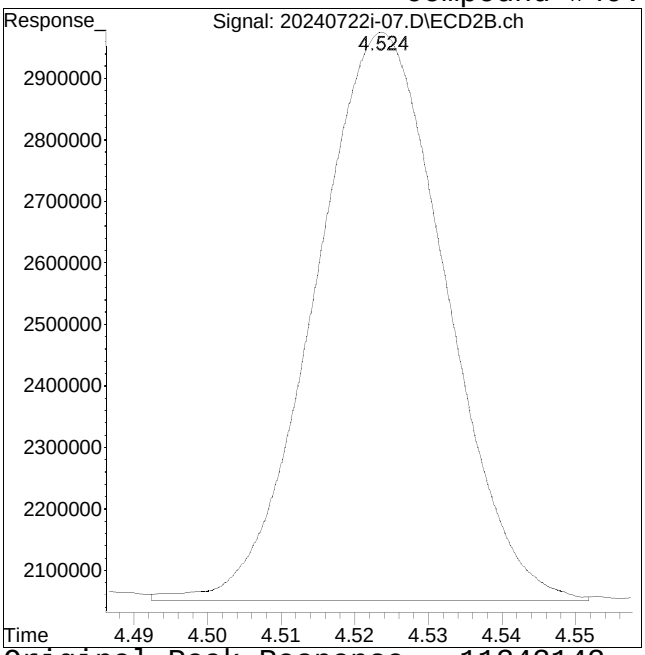


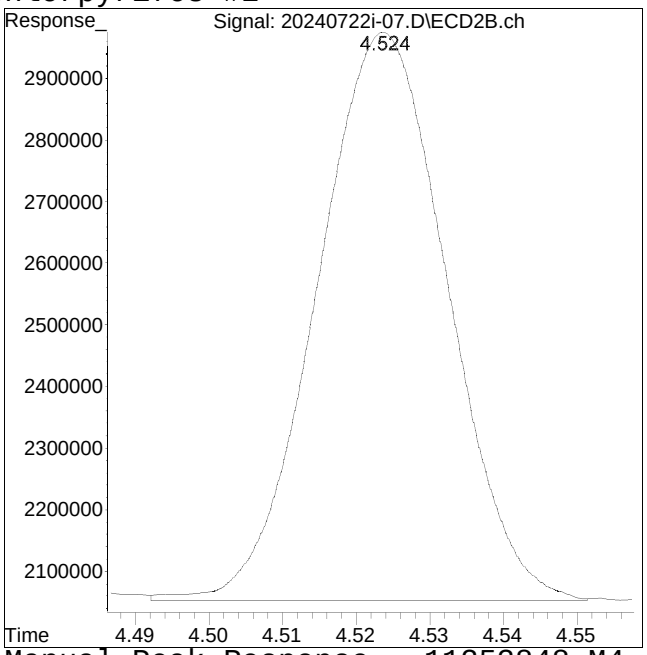
Original Peak Response = 7595639 Manual Peak Response = 7516464 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #49: Chlorpyrifos #2





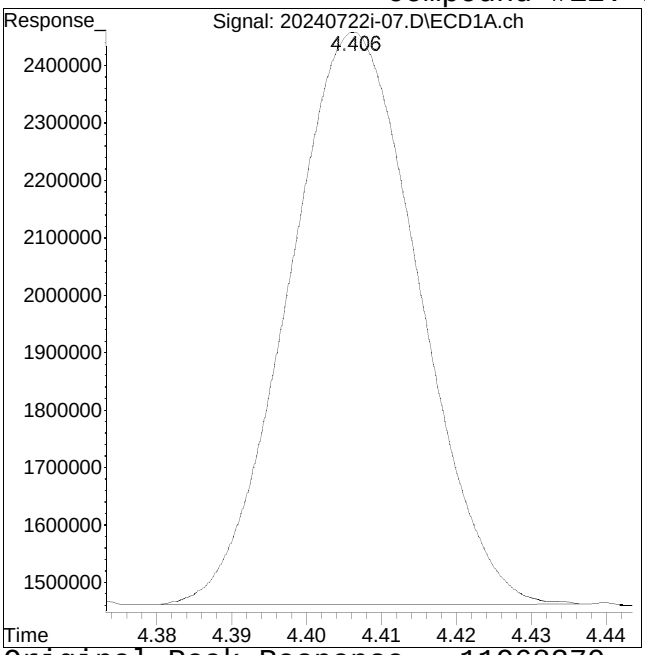
Original Peak Response = 11343142 Manual Peak Response = 11253848 M4
M4 = Poor automated baseline construction.

Manual Integration Report

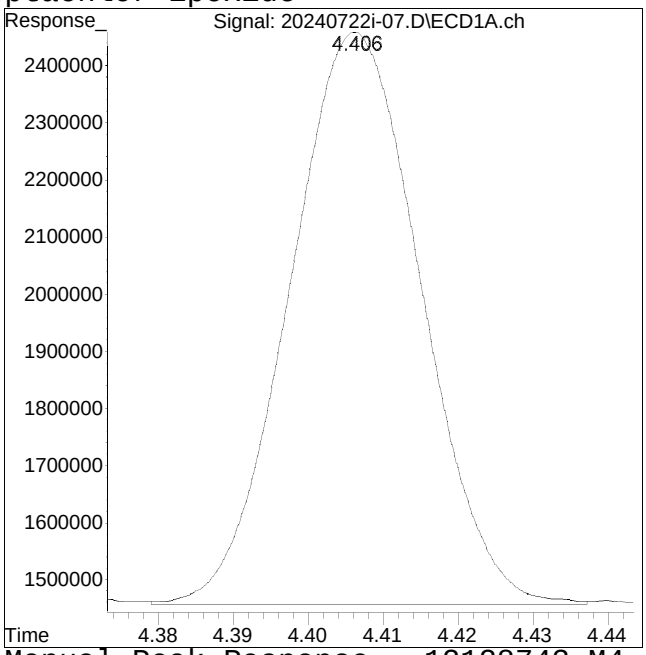
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-07.D
Date Inj'd : 7/22/2024 18:59
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:11 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 11968370



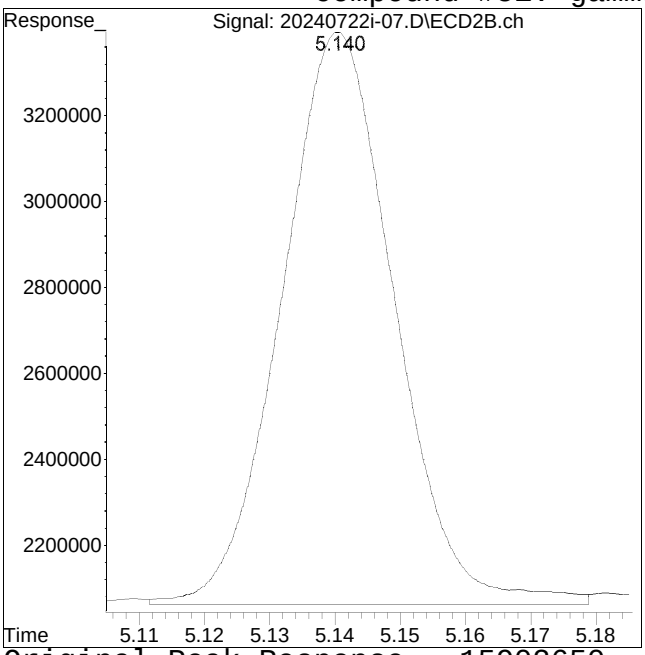
Manual Peak Response = 12128743 M4

M4 = Poor automated baseline construction.

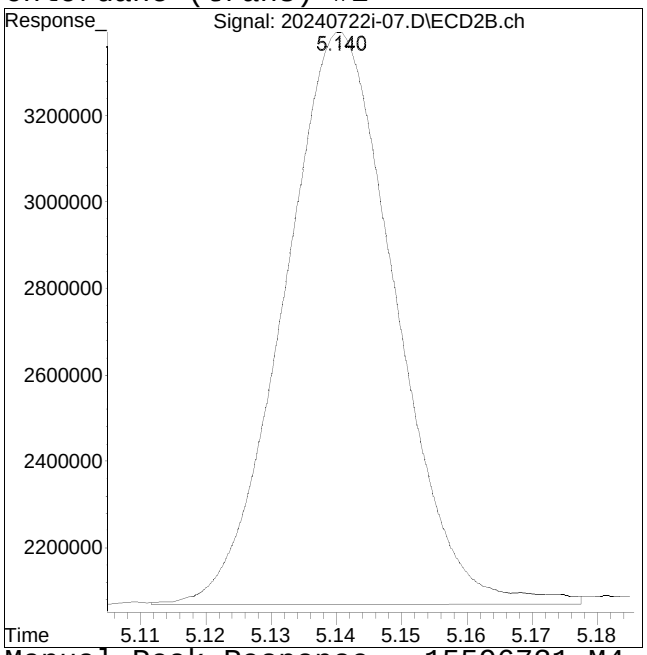
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 15902650



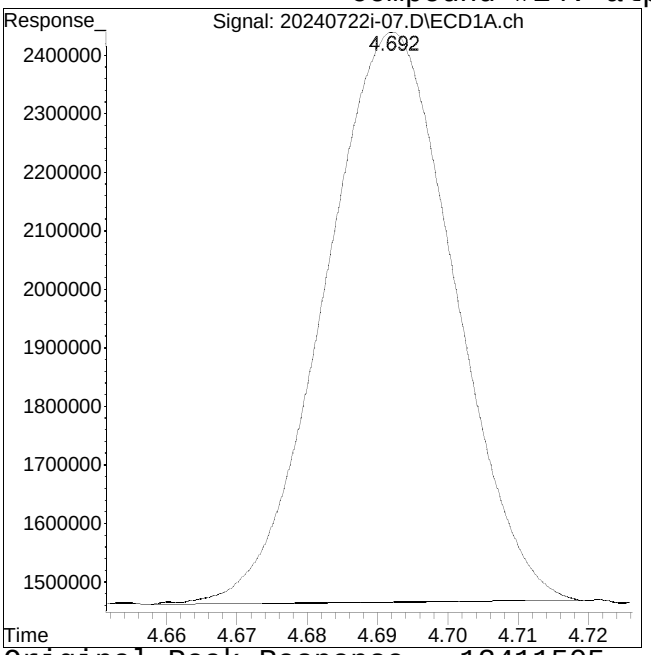
Manual Peak Response = 15596731 M4

M4 = Poor automated baseline construction.

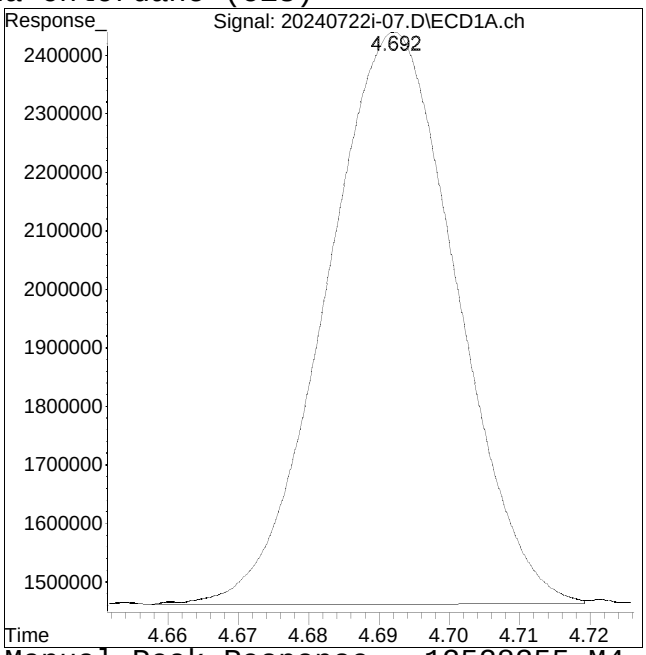
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 12411505



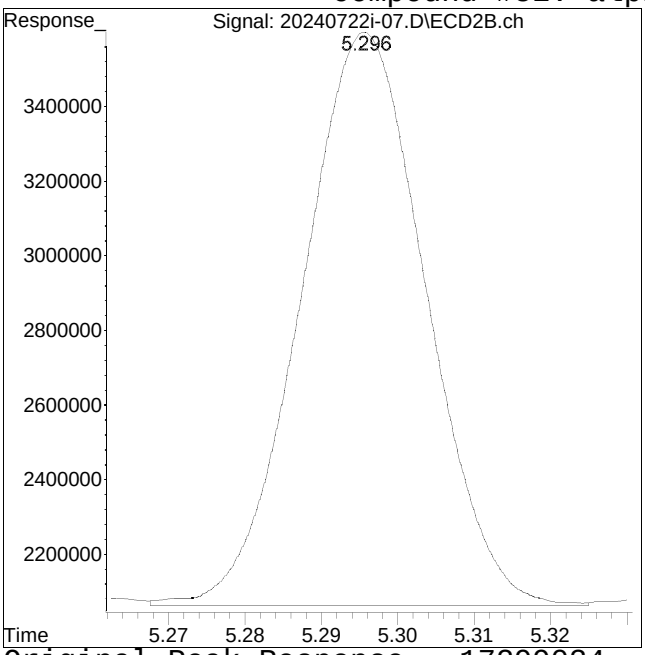
Manual Peak Response = 12528355 M4

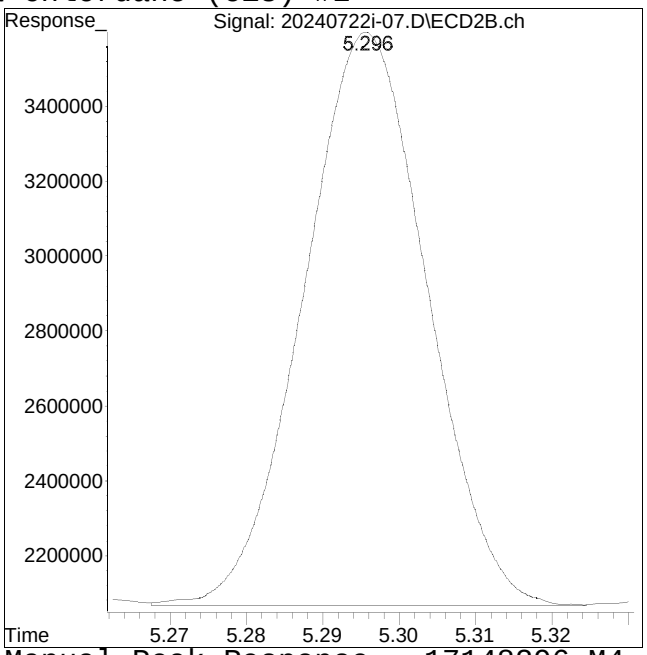
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #52: alpha-Chlordane (cis) #2



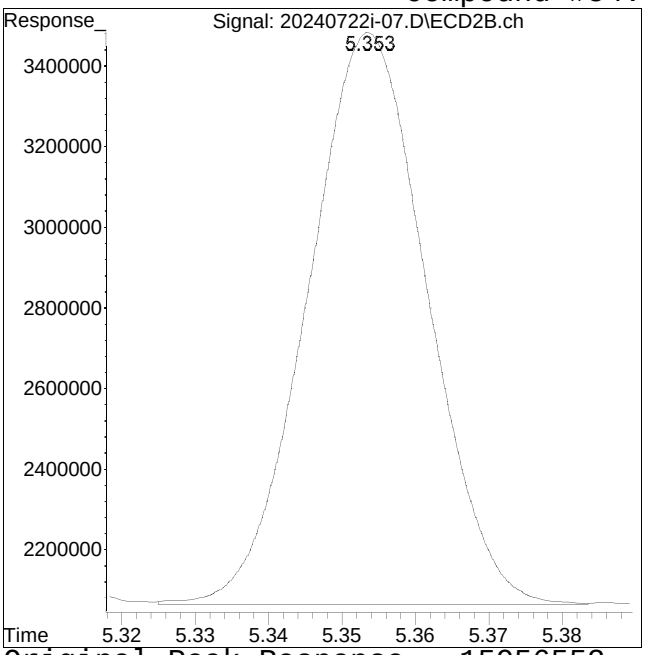


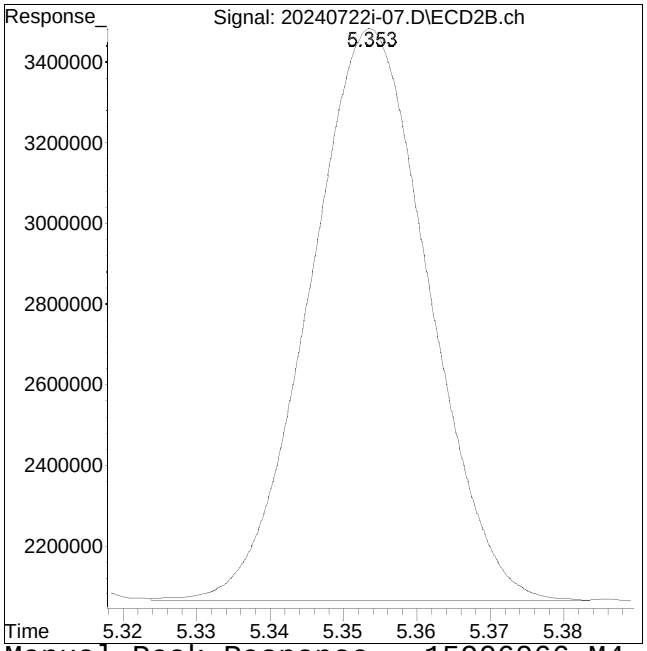
Original Peak Response = 17299034 Manual Peak Response = 17148296 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #54: Endosulfan I #2





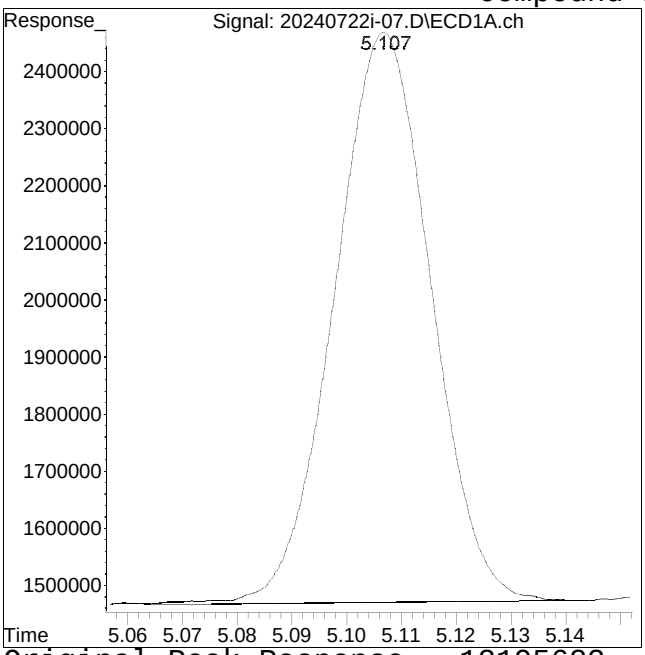
Original Peak Response = 15956552 Manual Peak Response = 15906066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

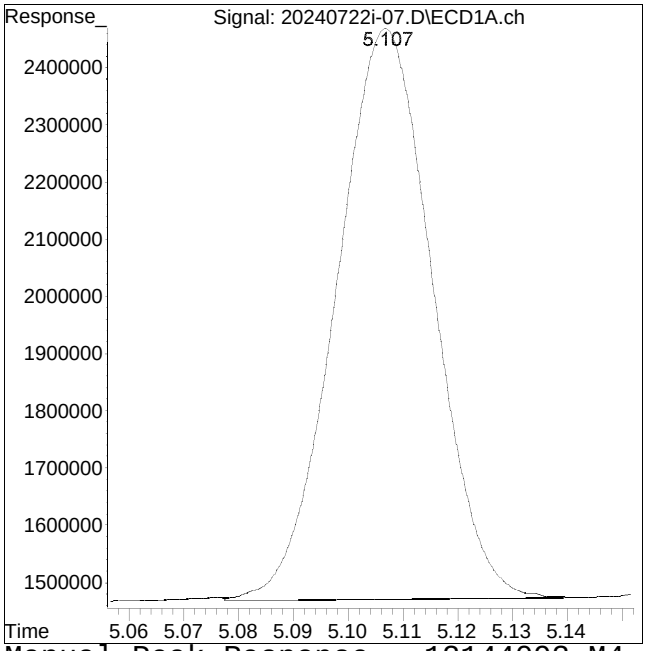
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-07.D
Date Inj'd : 7/22/2024 18:59
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:11 pm

Compound #17: Dieldrin



Original Peak Response = 12195622



Manual Peak Response = 12144093 M4

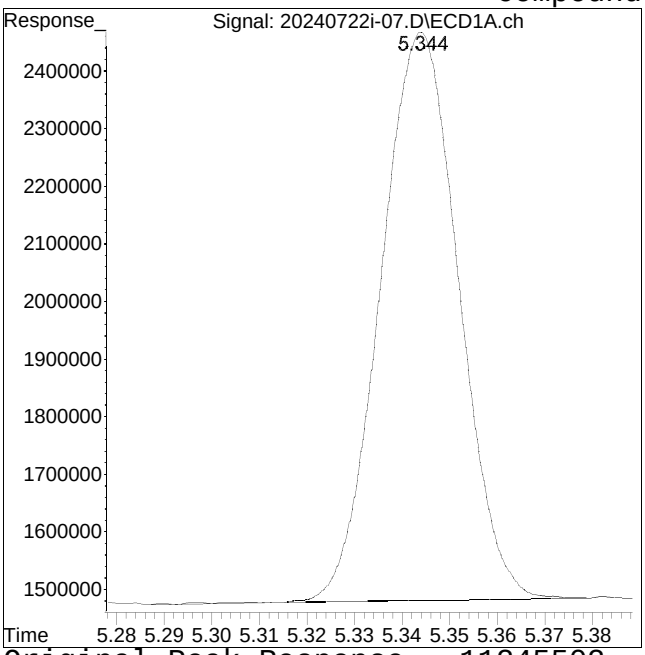
M4 = Poor automated baseline construction.

Manual Integration Report

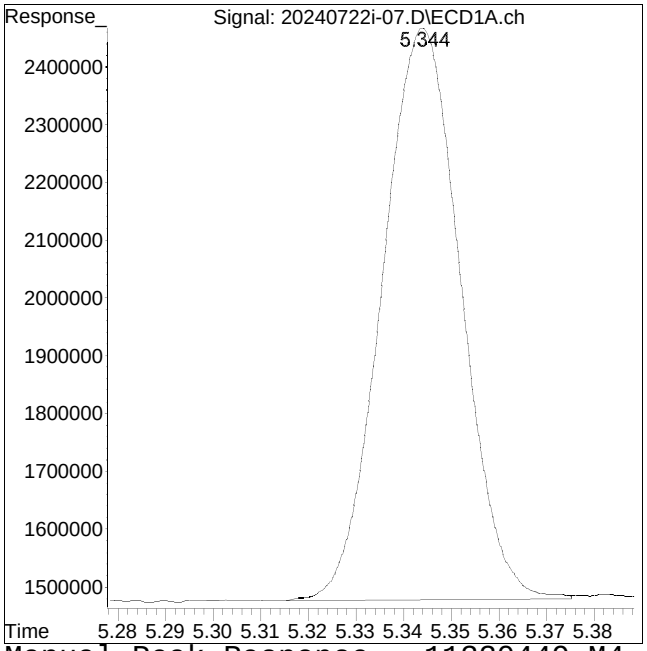
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-07.D
Date Inj'd : 7/22/2024 18:59
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:11 pm

Compound #18: Endrin



Original Peak Response = 11245502



Manual Peak Response = 11330449 M4

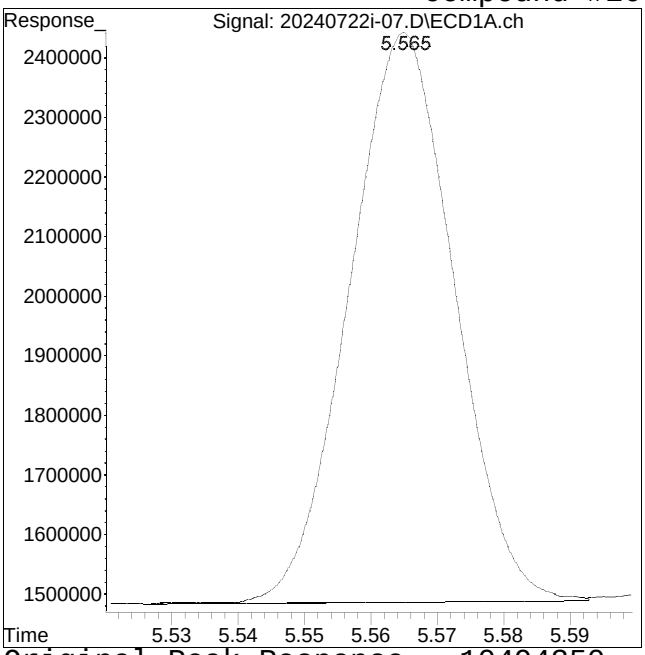
M4 = Poor automated baseline construction.

Manual Integration Report

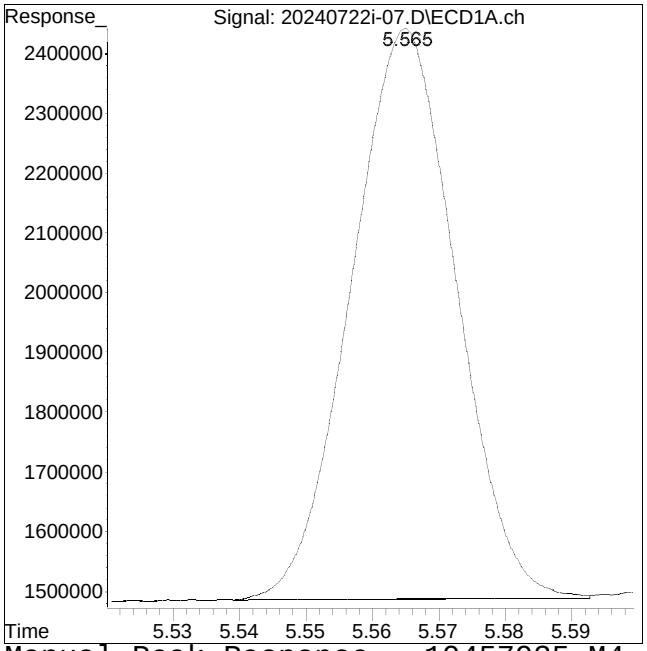
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-07.D
Date Inj'd : 7/22/2024 18:59
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:11 pm

Compound #20: Endosulfan II



Original Peak Response = 10494350



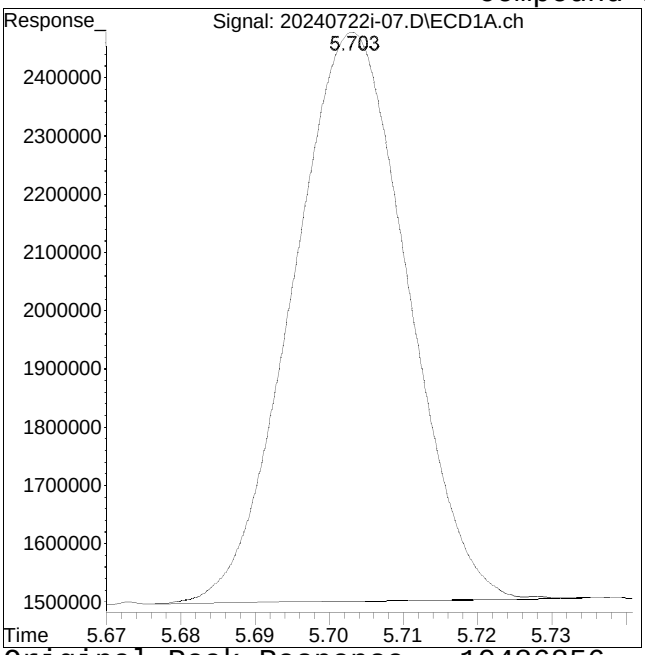
Manual Peak Response = 10457935 M4

M4 = Poor automated baseline construction.

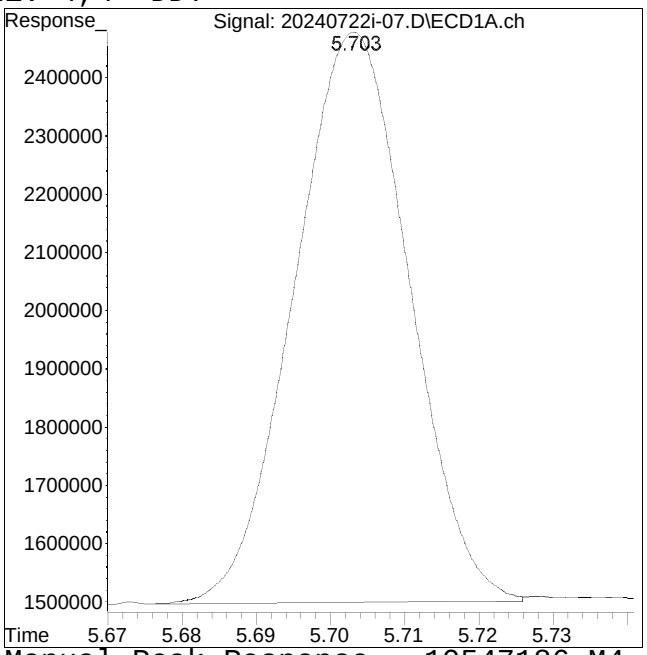
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #21: 4,4'-DDT



Original Peak Response = 10486856



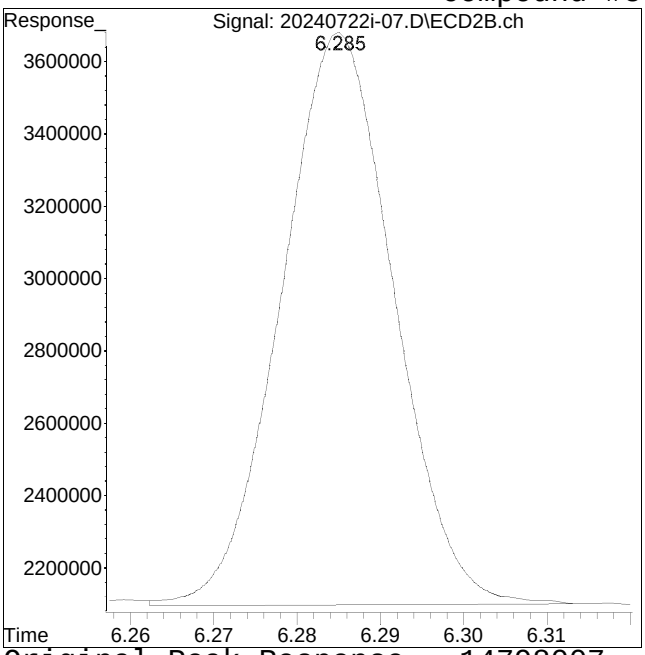
Manual Peak Response = 10547186 M4

M4 = Poor automated baseline construction.

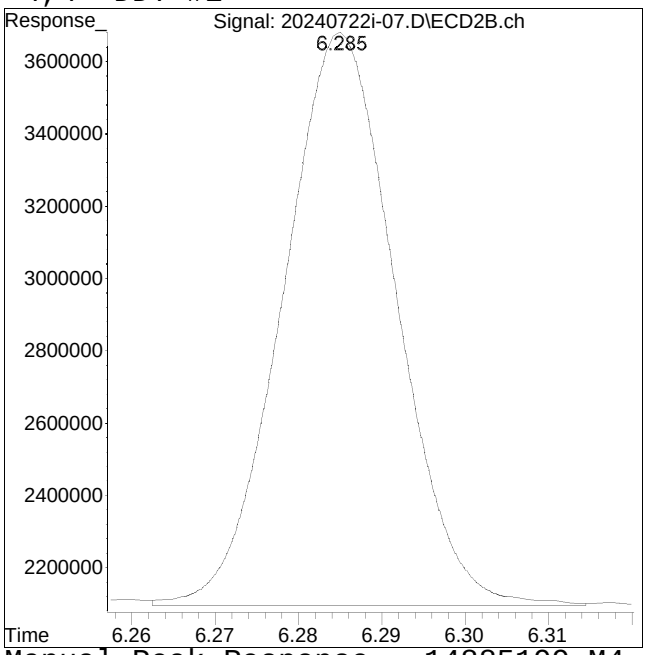
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 14798007



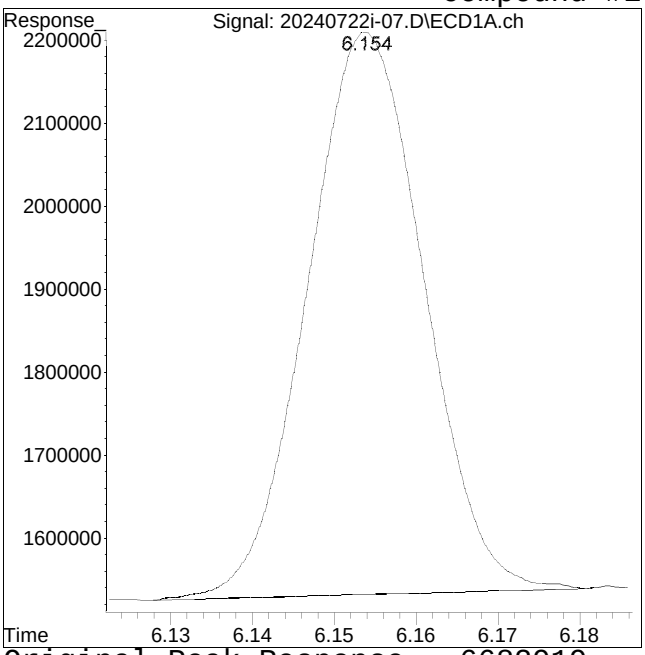
Manual Peak Response = 14885199 M4

M4 = Poor automated baseline construction.

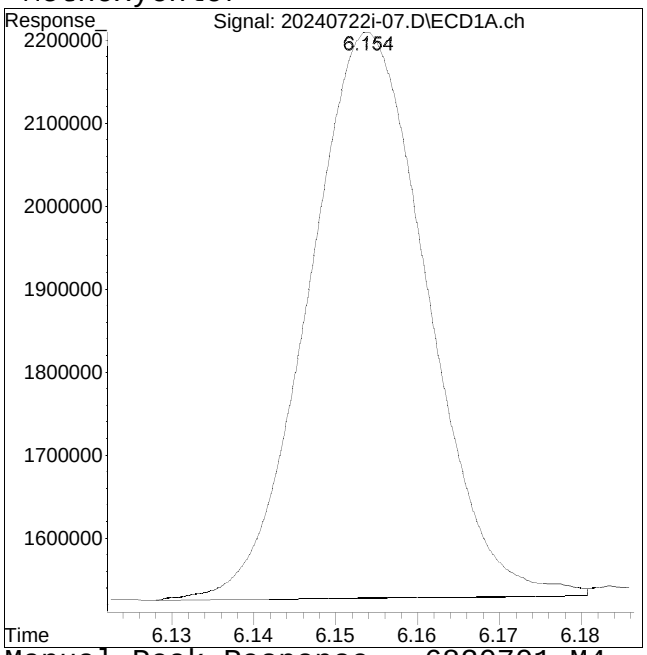
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #23: Methoxychlor



Original Peak Response = 6682919



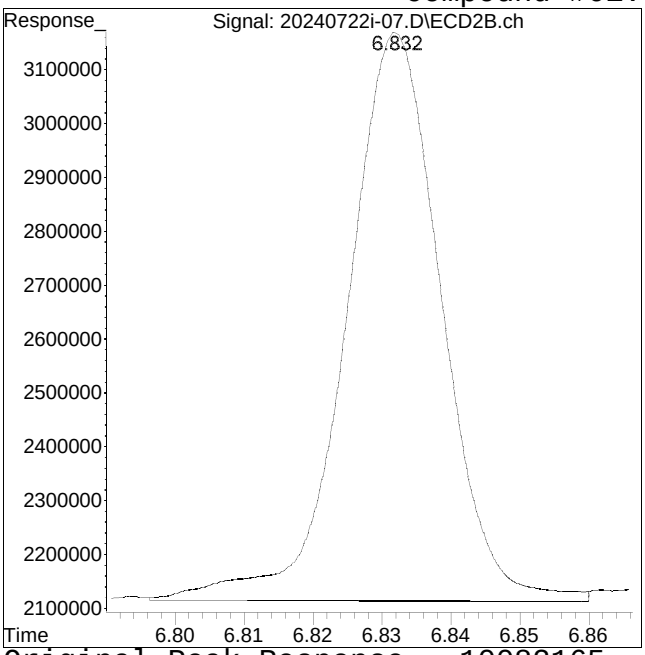
Manual Peak Response = 6820701 M4

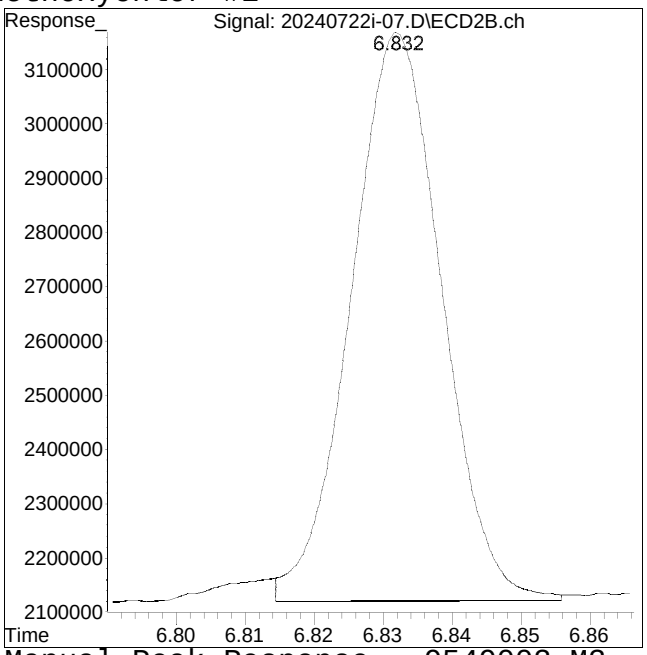
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #61: Methoxychlor #2



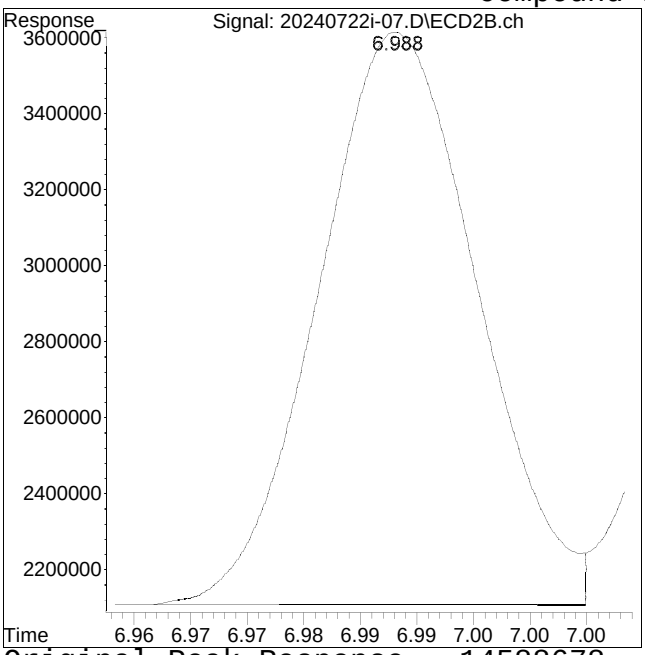


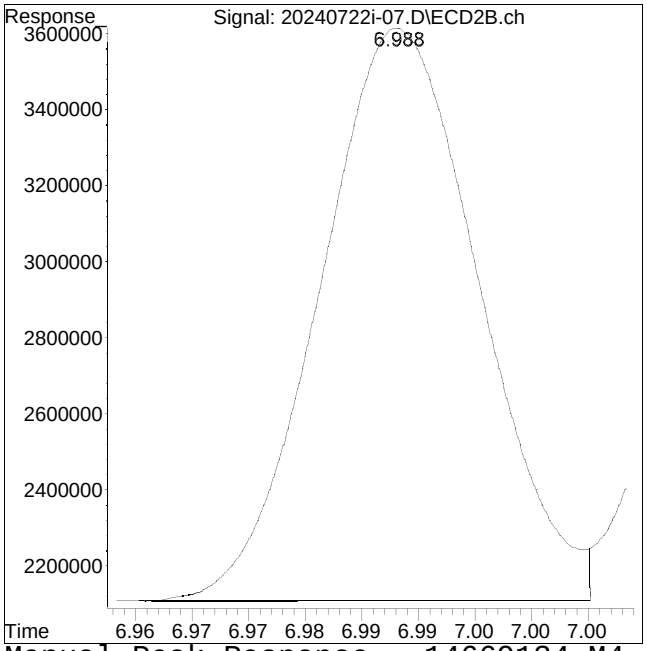
Original Peak Response = 10082165 Manual Peak Response = 9549003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #62: Mirex #2



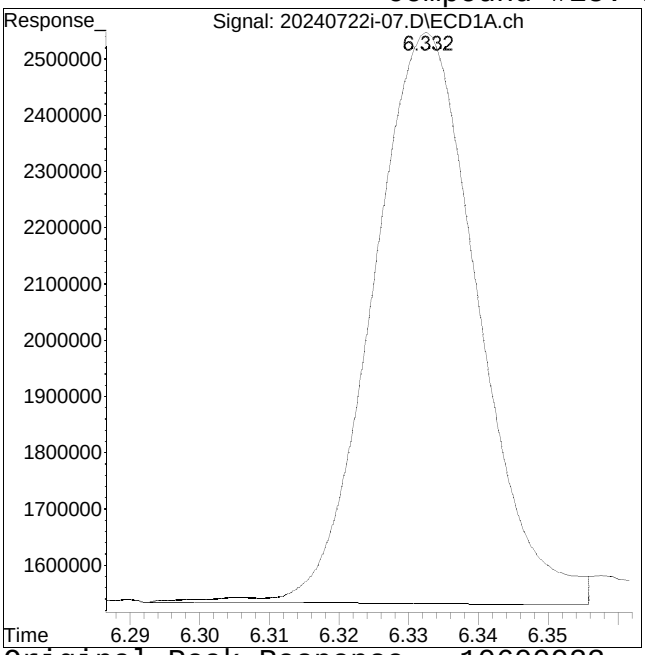


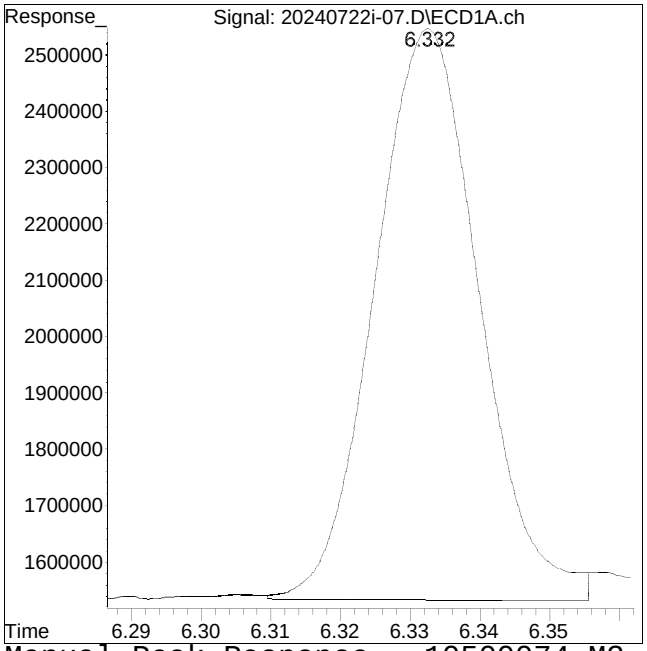
Original Peak Response = 14588678 Manual Peak Response = 14669134 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #25: Endosulfan Sulfate



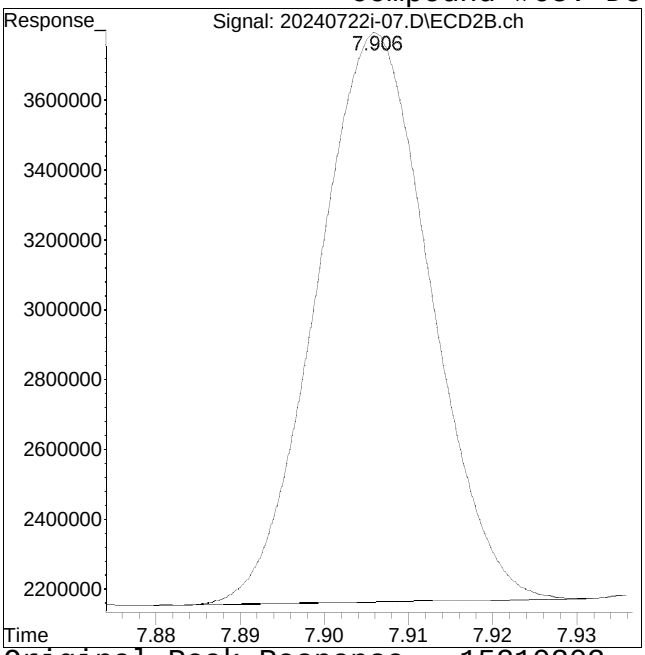


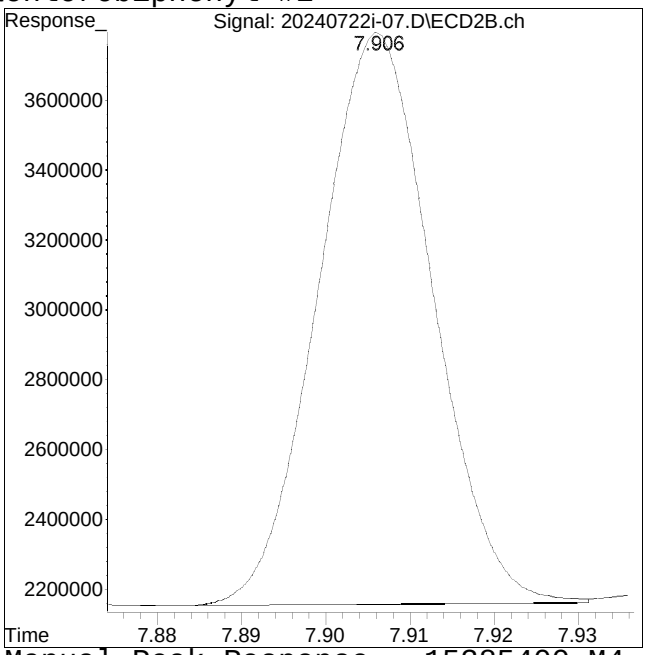
Original Peak Response = 10600933 Manual Peak Response = 10500074 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-07.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 18:59 Instrument : PEST 20
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 7/23/2024 1:11 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 15210202 Manual Peak Response = 15385400 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:11
Operator : pest20:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:02:24 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:02:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	2.005	2.062	48786962	76741585	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.472	2.662	24694394	36772857	11.424	10.834M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		22.85%#	21.67%#
27)	s	Decachlorobi	7.337	7.907	26041112	32865956	12.690M4	12.260M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		25.38%#	24.52%#
		Target Compounds						
3)		Hexachlorobe	2.739	3.039	27008934	39611118	12.108M4	11.492
4)		alpha-BHC	2.861	3.152	30022530	45071680	10.195M4	9.557
5)		gamma-BHC (l	3.106	3.476	28263580	42486596	10.628	9.949M4
6)		beta-BHC	3.173	3.551	15009997	22393317	12.333M4	11.637
7)		delta-BHC	3.324	3.847	27799775	42012795	10.299	9.645
8)		Heptachlor	3.512	3.917	28265041	41484359	11.168	10.588M4
9)		Aldrin	3.791	4.267	26401420	37145313	10.590M4	9.962
10)		Alachlor	3.932	4.140	4955148	6717674	12.919M4	12.852M4
11)		Chlorpyrifos	4.033	4.524	15282265	23077469	13.347	12.645M4
12)		Heptachlor E	4.407	4.929	25758022	37416168	11.301M4	10.653

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:11
Operator : pest20:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:02:24 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:02:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)		gamma-Chlord	4.543	5.141	23285869	32694392	11.140M4	10.499M4
14)		alpha-Chlord	4.692	5.296	26388764	36679227	11.229M4	10.615M4
15)		4,4'-DDE	4.794	5.474	25065714	34411493	10.383	9.789M4
16)		Endosulfan I	4.845	5.354	23960252	34157846	11.072	10.558
17)		Dieldrin	5.108	5.628	24222469	33857722	10.627	9.974
18)		Endrin	5.345	5.911	24529704	34715121	10.769M4	10.058
19)		4,4'-DDD	5.433	6.018	20451006	28621369	10.586	9.962
20)		Endosulfan I	5.565	6.101	22322122	32514886	11.196	10.673
21)		4,4'-DDT	5.704	6.285	22791539	32834290	10.974M4	10.319M3
22)		Endrin Aldeh	5.958	6.386	18630561	26354975	10.857	10.146
23)		Methoxychlor	6.154	6.833	14534734	20302742	12.899M4	12.154M4
24)		Mirex	6.233	6.989	22210758	30346624	12.867M4	12.461
25)		Endosulfan S	6.333	6.608	22003821	32025477	11.746M3	10.957
26)		Endrin Keton	6.556	7.021	24527602	35956084	11.413	10.842
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
	Average	chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:11
Operator : pest20:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:02:24 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:02:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

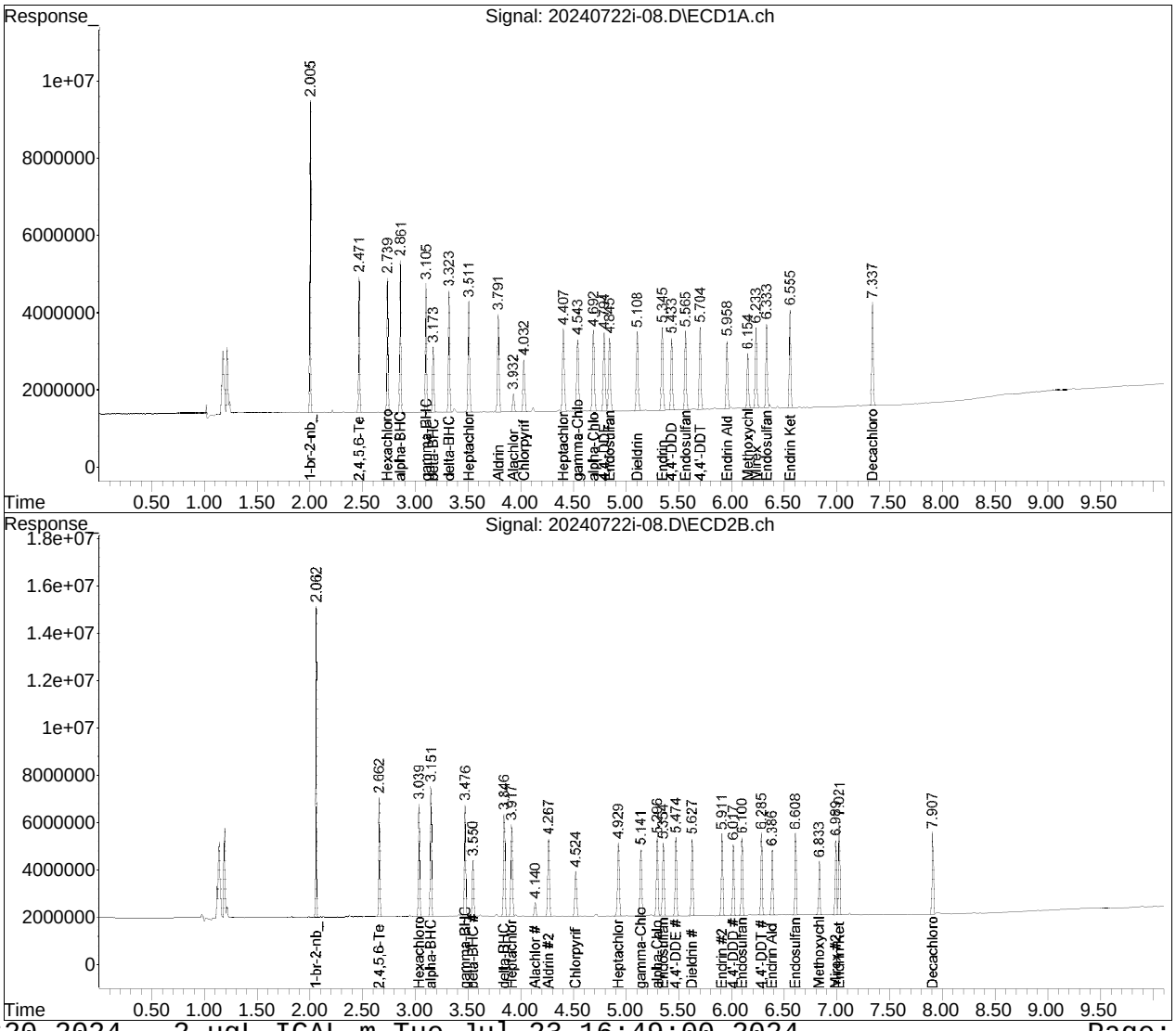
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:11
Operator : pest20:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 13:02:24 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 13:02:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

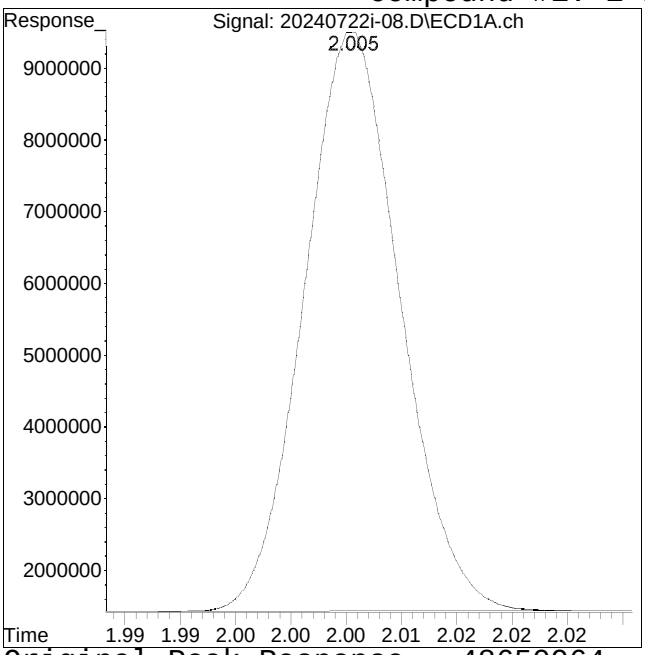


Manual Integration Report

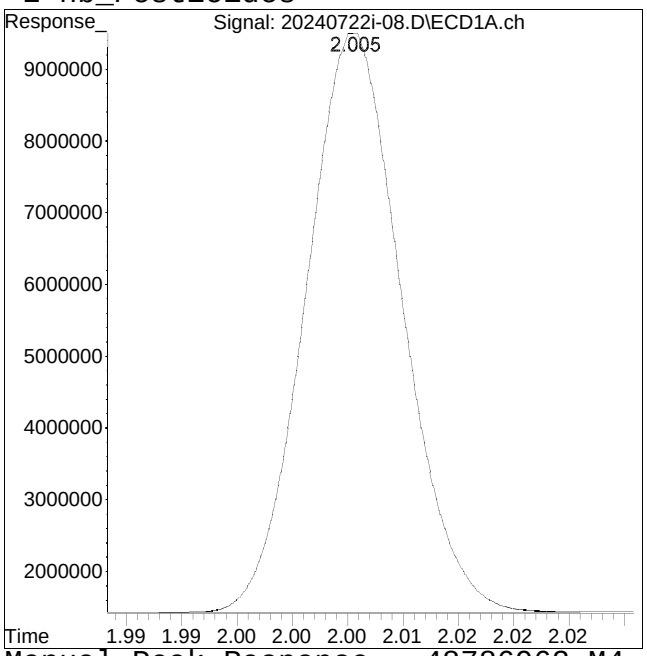
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 48650964



Manual Peak Response = 48786962 M4

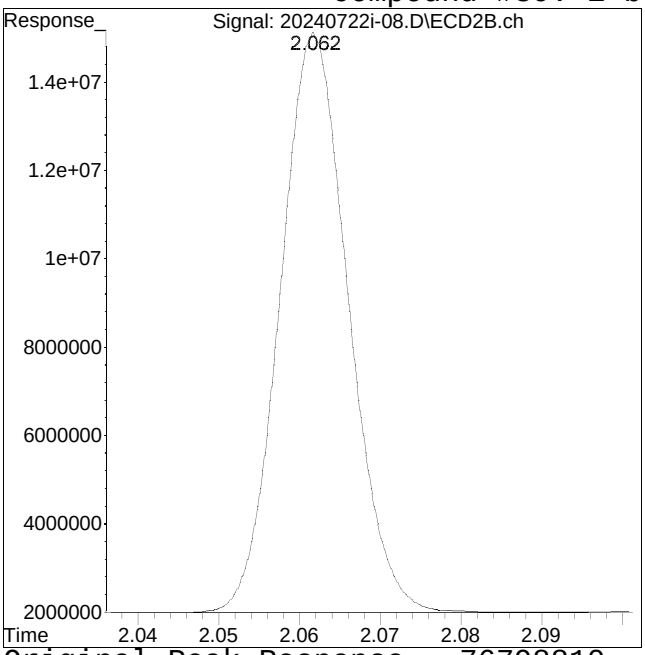
M4 = Poor automated baseline construction.

Manual Integration Report

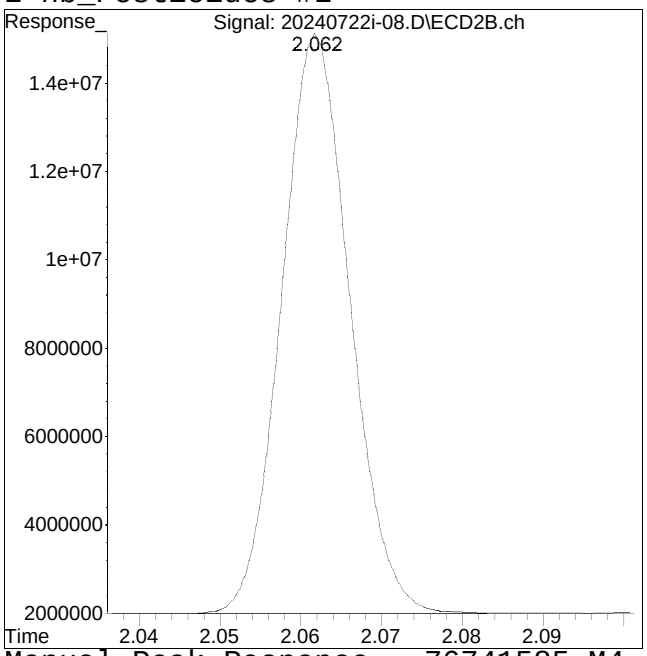
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 76798810



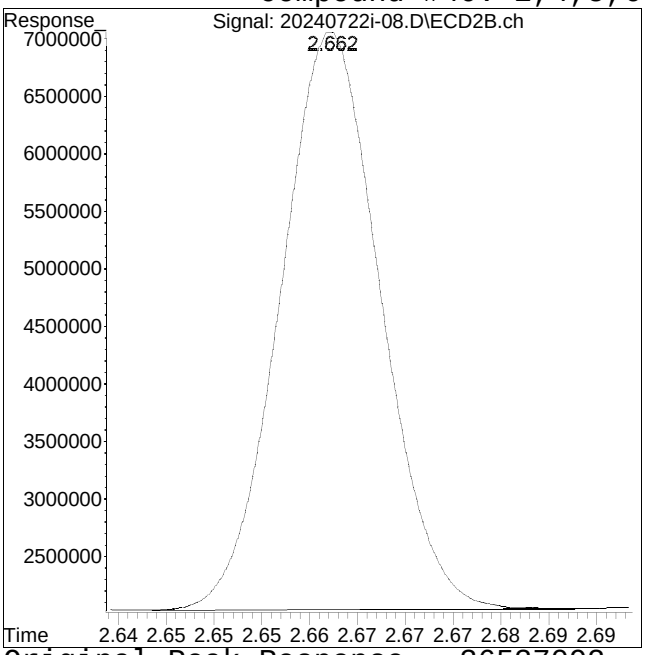
Manual Peak Response = 76741585 M4

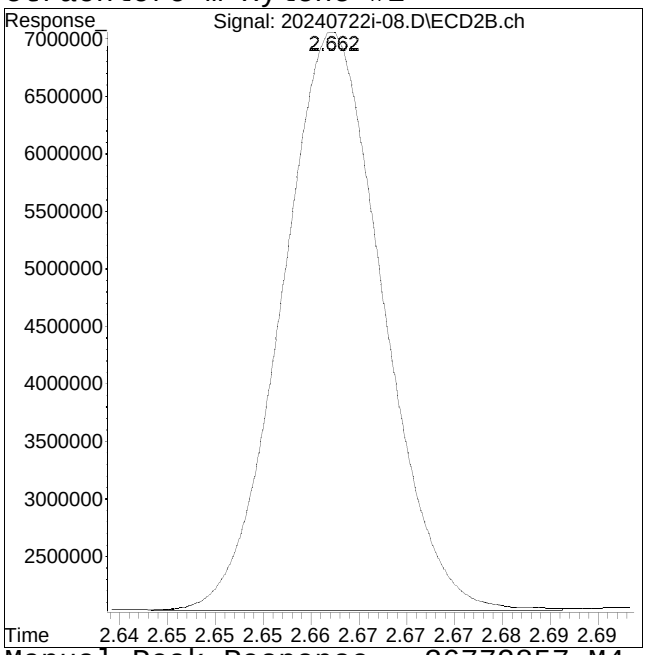
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



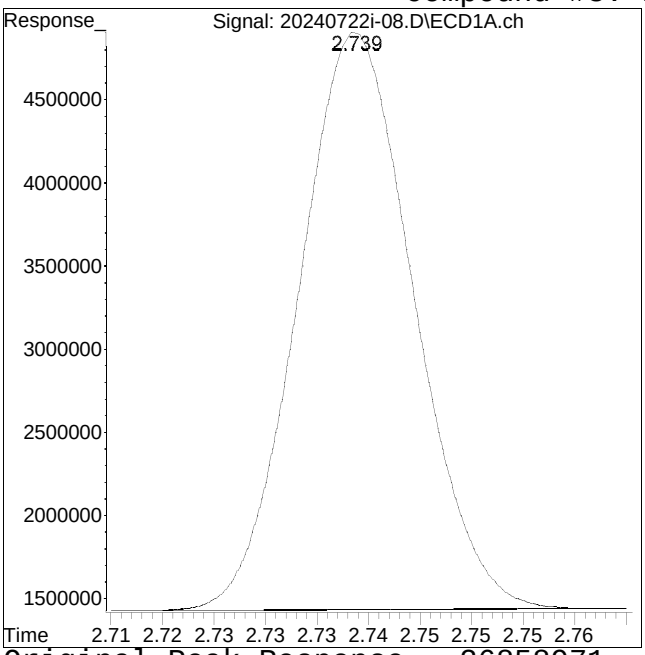


Original Peak Response = 36537092 Manual Peak Response = 36772857 M4
M4 = Poor automated baseline construction.

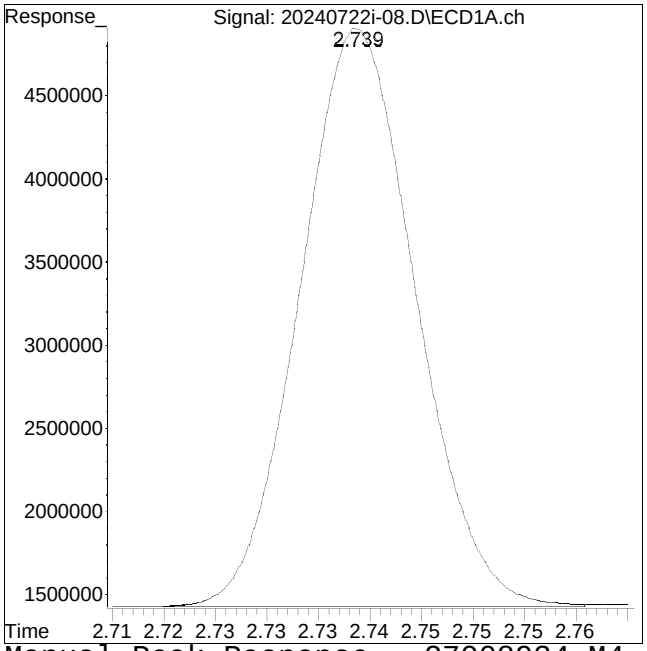
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 26858971



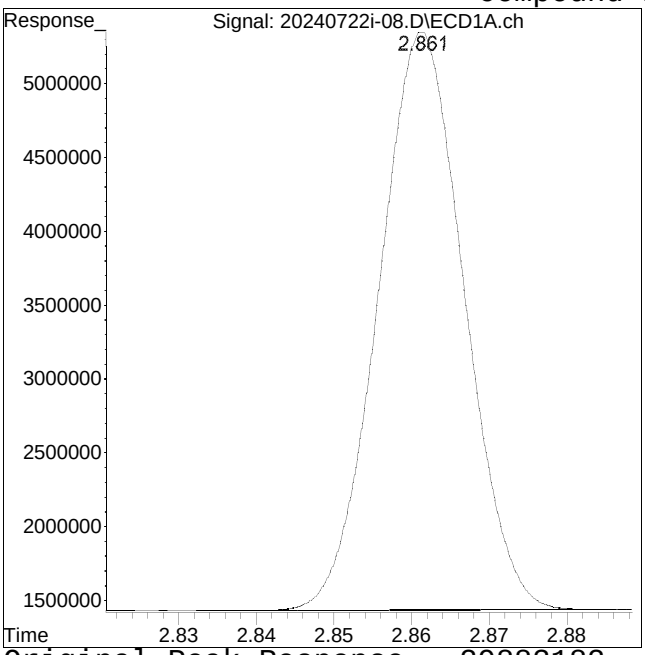
Manual Peak Response = 27008934 M4

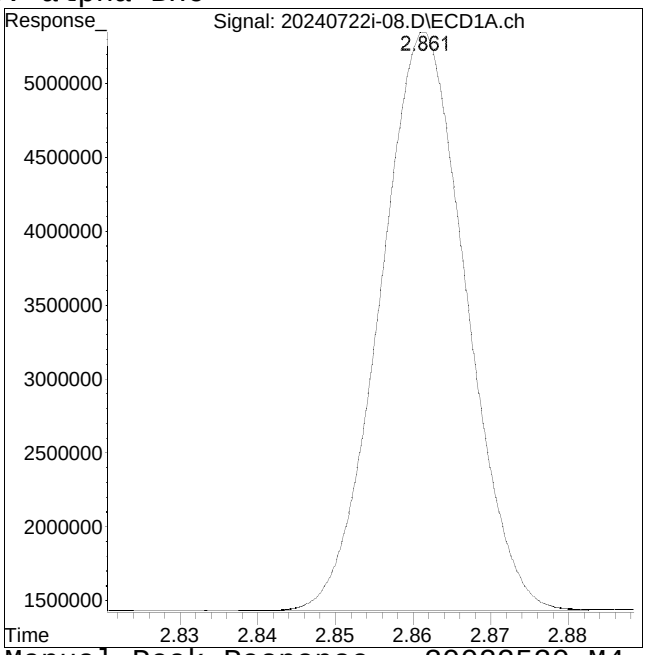
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #4: alpha-BHC





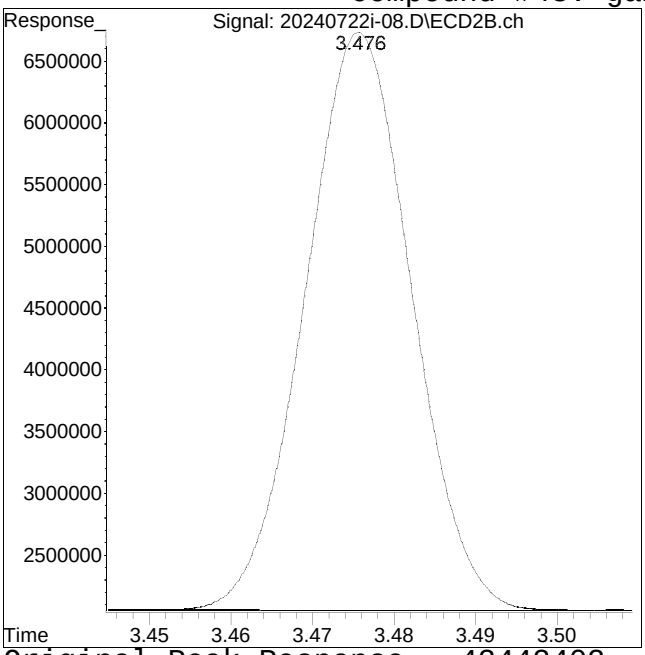
Original Peak Response = 29883182 Manual Peak Response = 30022530 M4
M4 = Poor automated baseline construction.

Manual Integration Report

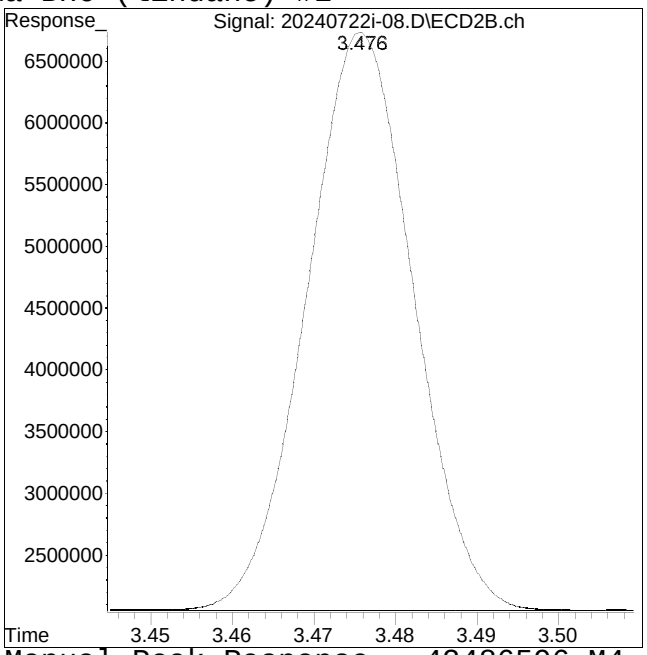
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 42442402



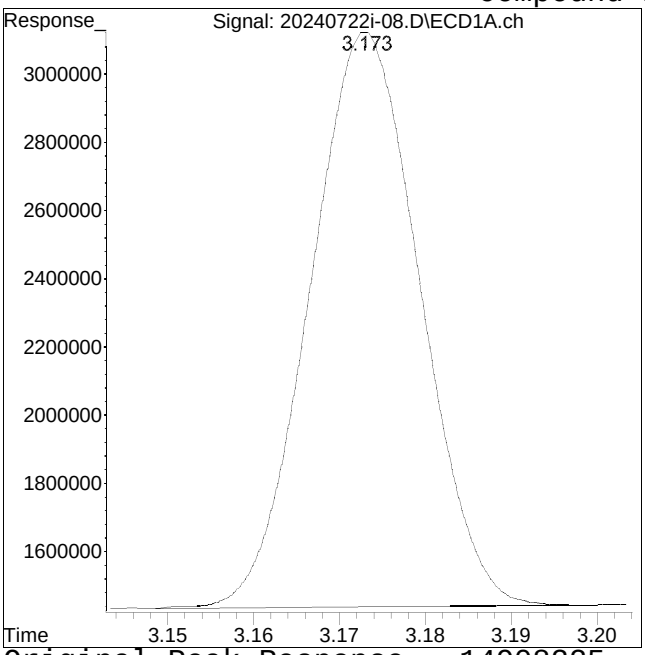
Manual Peak Response = 42486596 M4

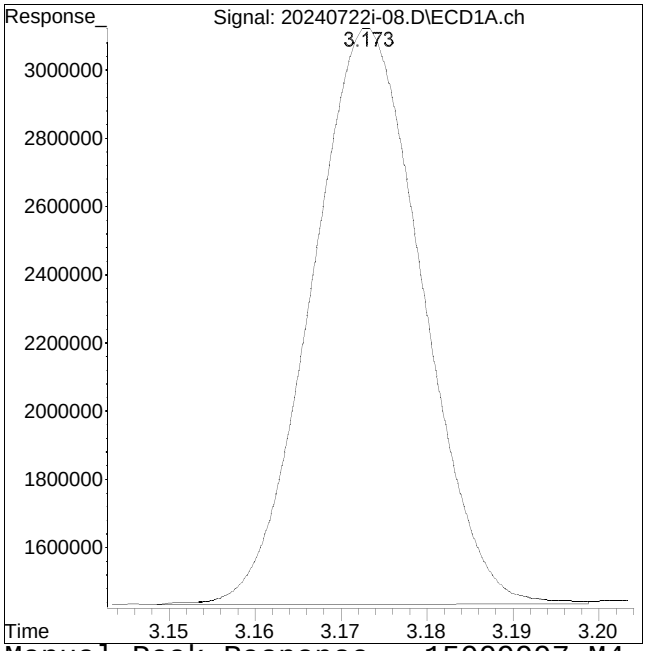
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #6: beta-BHC





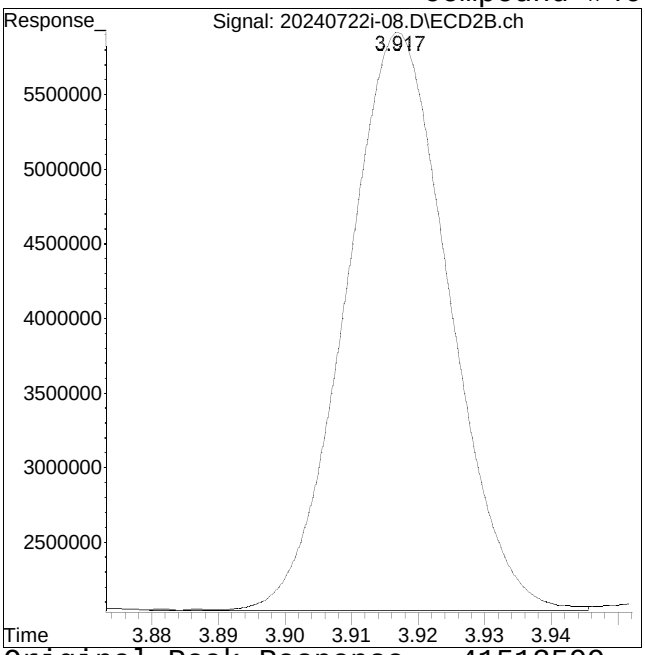
Original Peak Response = 14908225 Manual Peak Response = 15009997 M4
M4 = Poor automated baseline construction.

Manual Integration Report

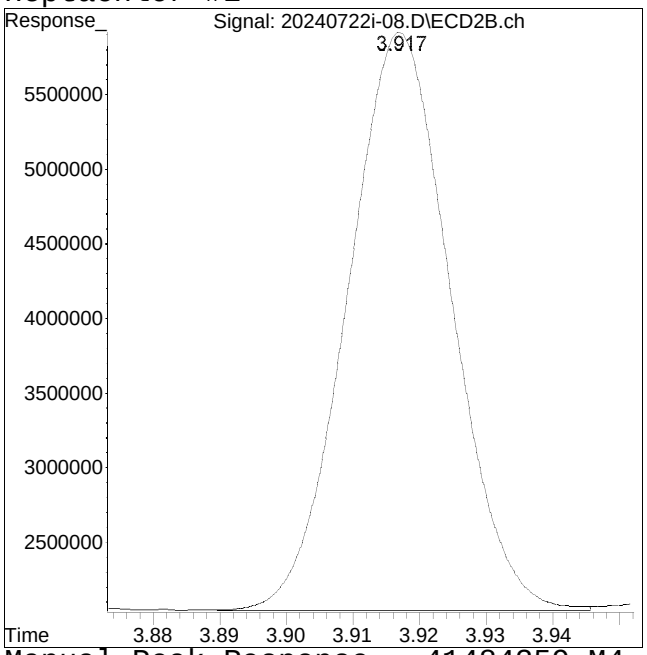
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #46: Heptachlor #2



Original Peak Response = 41513599



Manual Peak Response = 41484359 M4

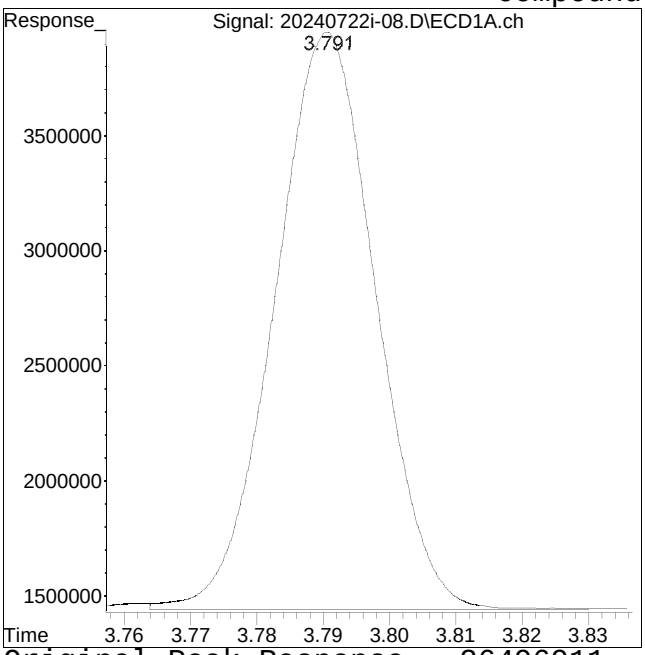
M4 = Poor automated baseline construction.

Manual Integration Report

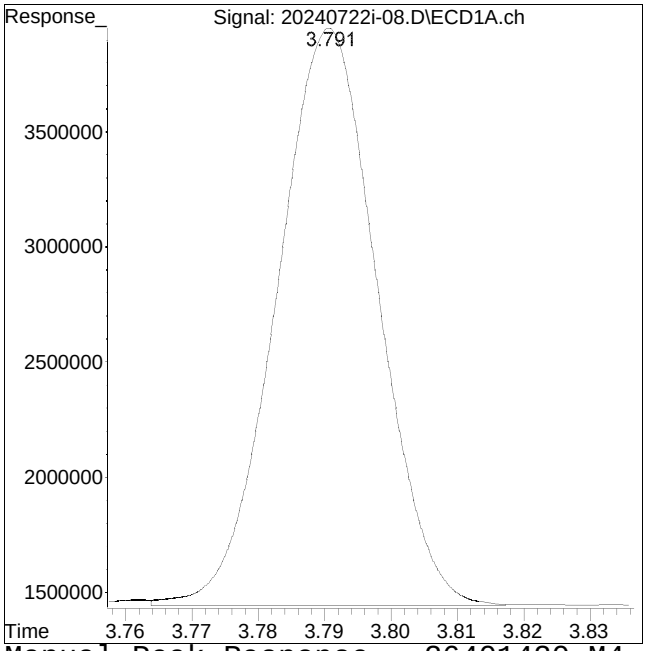
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #9: Aldrin



Original Peak Response = 26496911



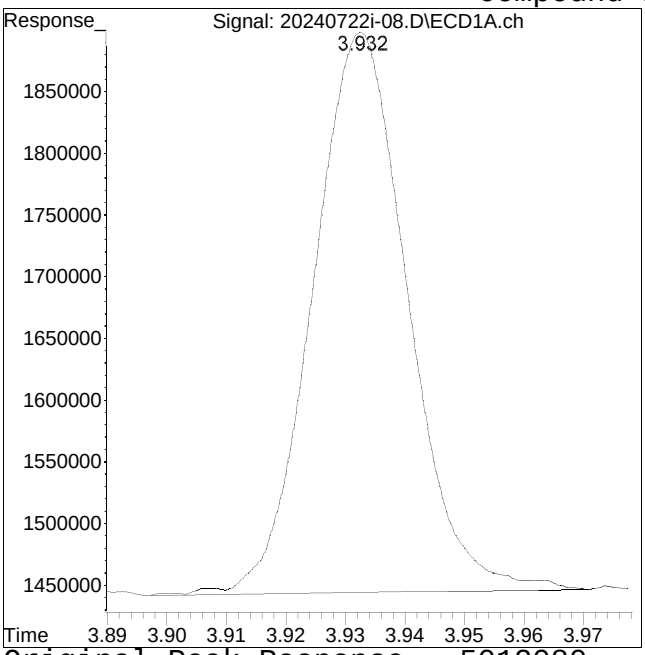
Manual Peak Response = 26401420 M4

M4 = Poor automated baseline construction.

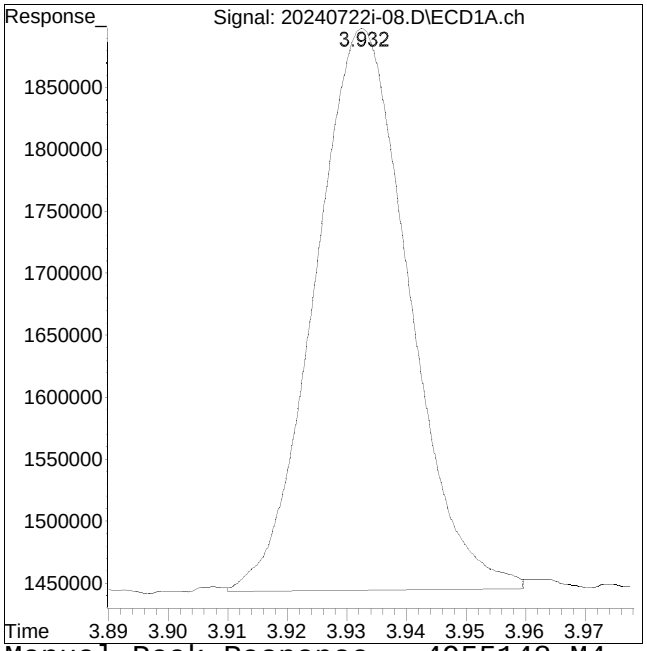
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #10: Alachlor



Original Peak Response = 5012080



Manual Peak Response = 4955148 M4

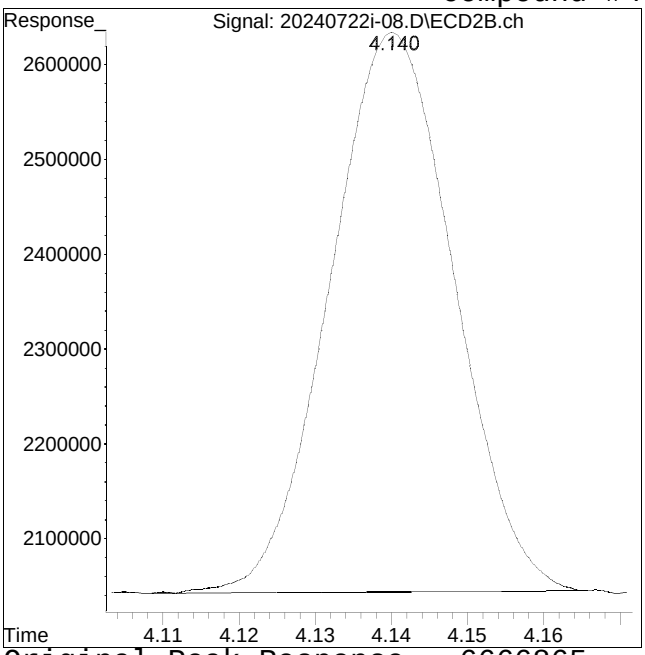
M4 = Poor automated baseline construction.

Manual Integration Report

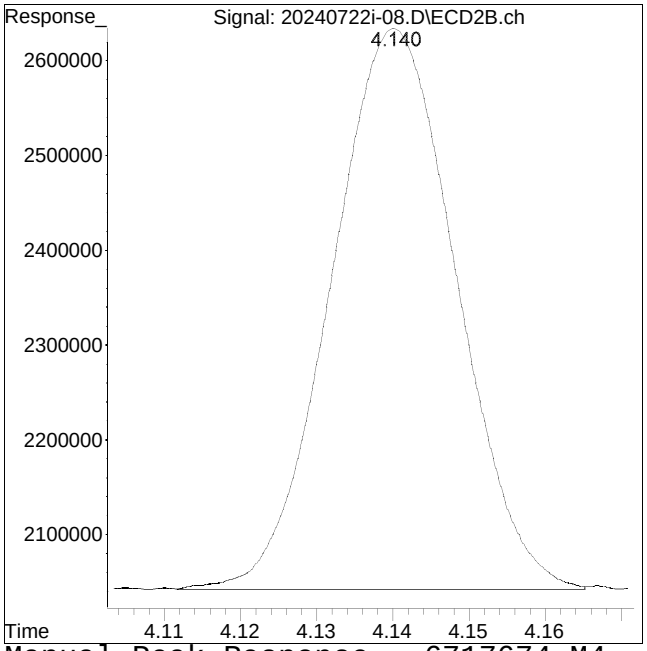
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #48: Alachlor #2



Original Peak Response = 6666865



Manual Peak Response = 6717674 M4

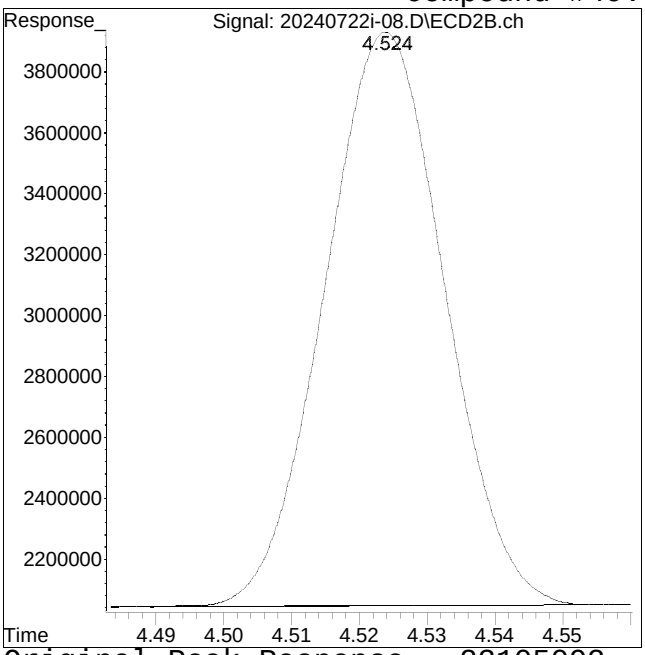
M4 = Poor automated baseline construction.

Manual Integration Report

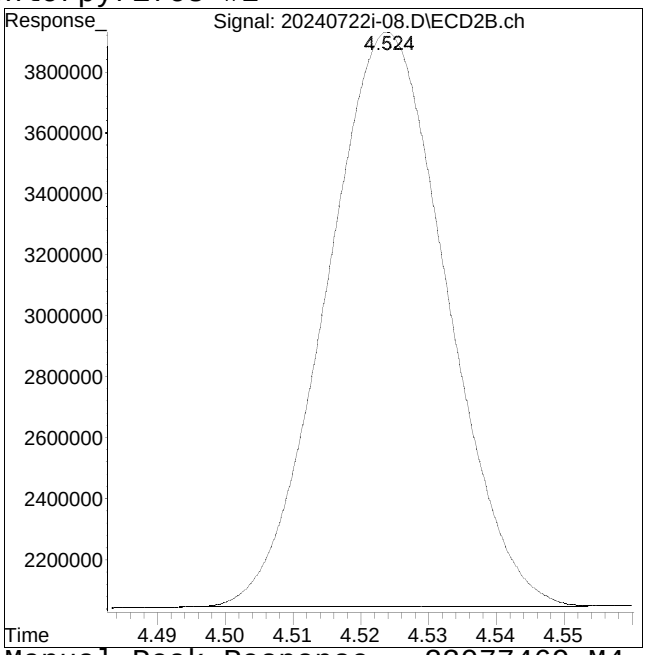
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 23105092



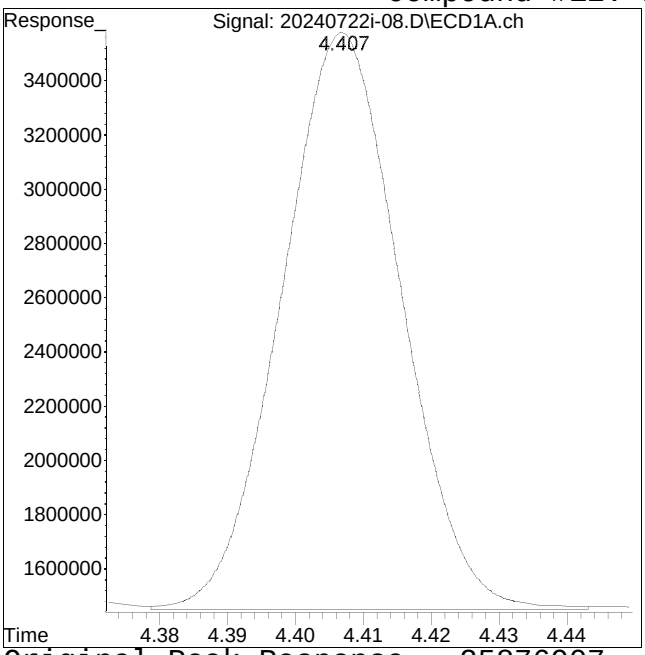
Manual Peak Response = 23077469 M4

M4 = Poor automated baseline construction.

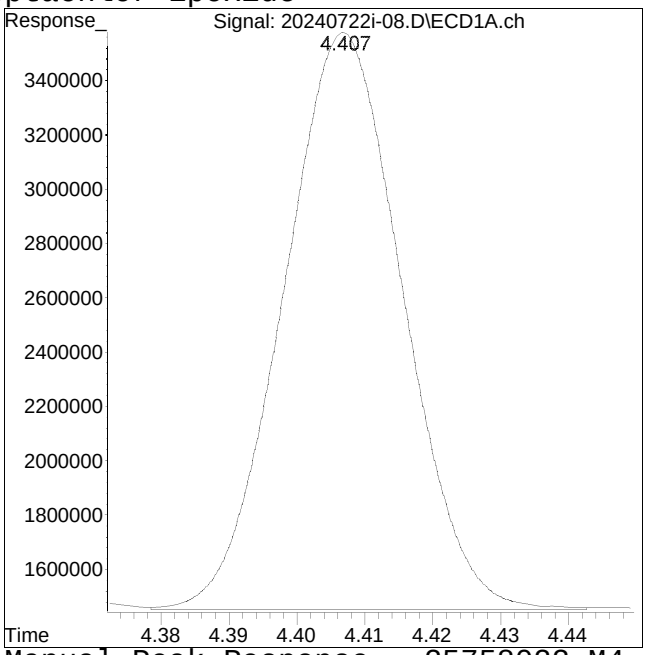
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 25876907



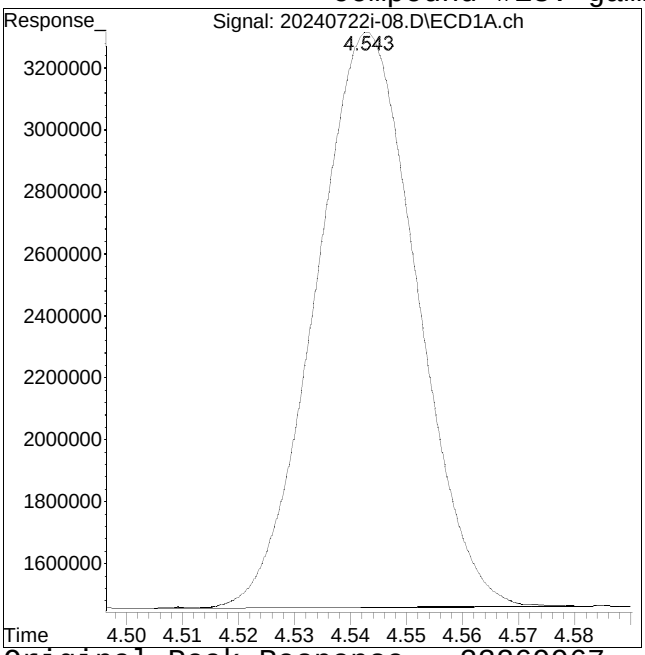
Manual Peak Response = 25758022 M4

M4 = Poor automated baseline construction.

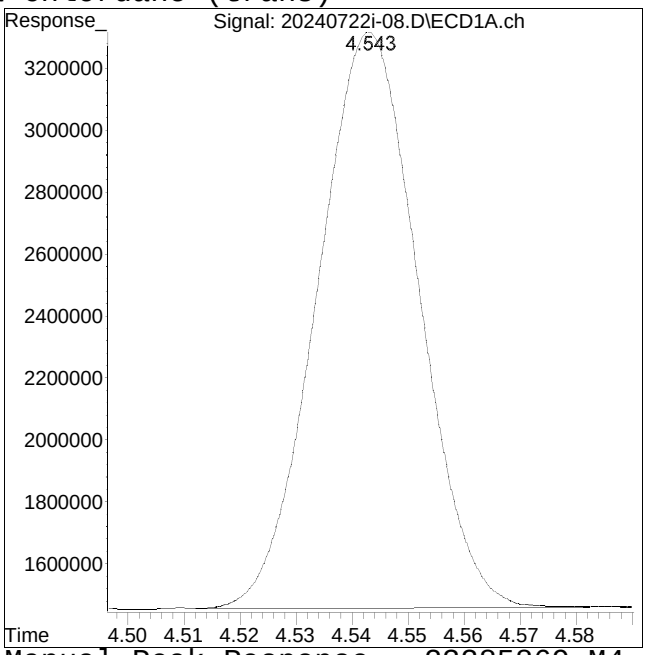
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 23269967



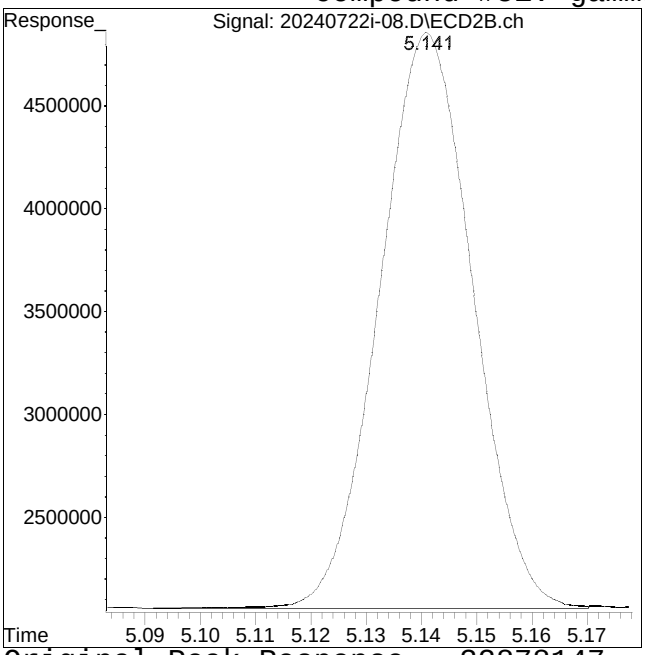
Manual Peak Response = 23285869 M4

M4 = Poor automated baseline construction.

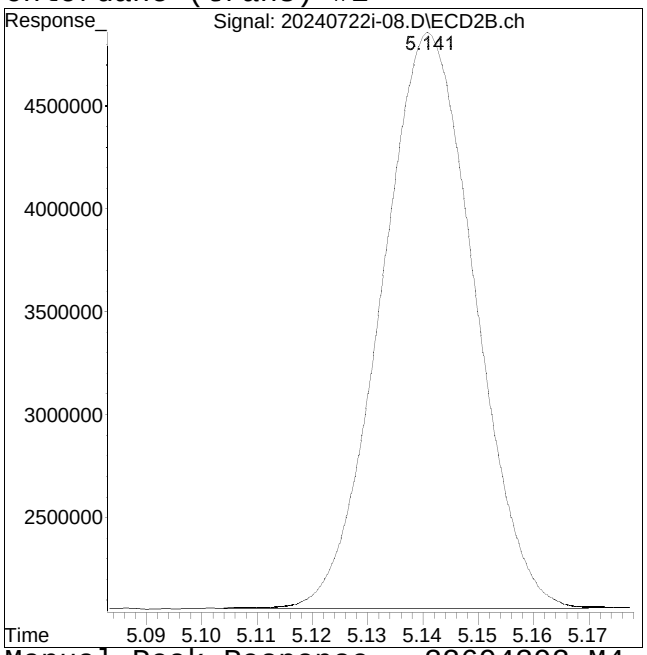
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 32878147



Manual Peak Response = 32694392 M4

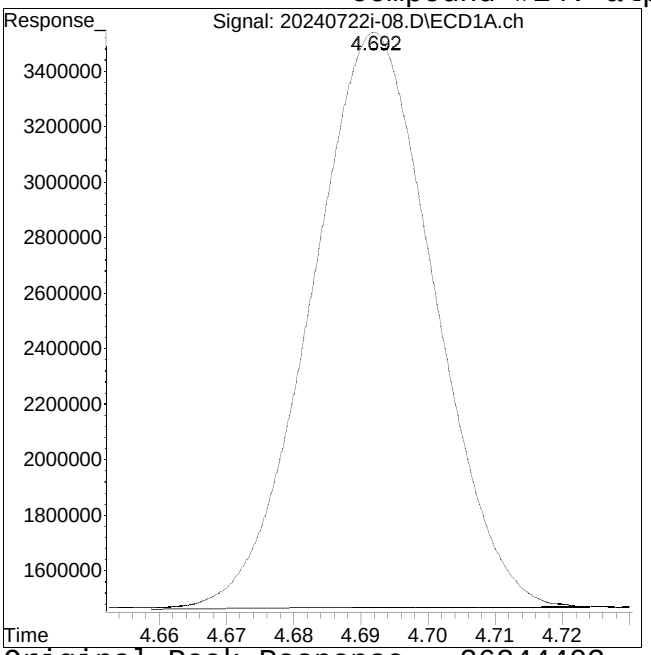
M4 = Poor automated baseline construction.

Manual Integration Report

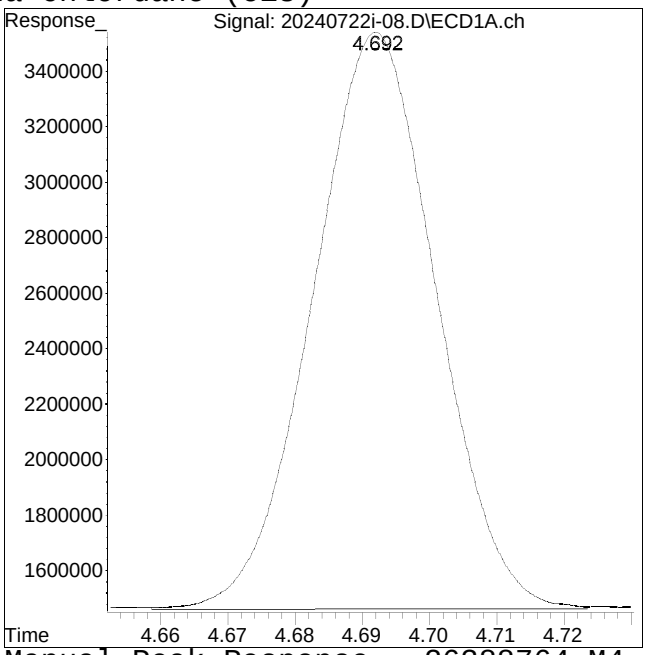
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 26244403



Manual Peak Response = 26388764 M4

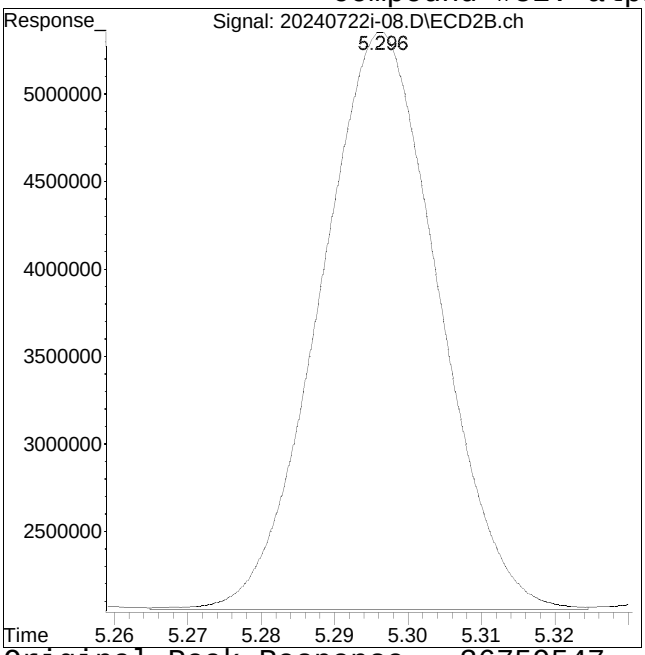
M4 = Poor automated baseline construction.

Manual Integration Report

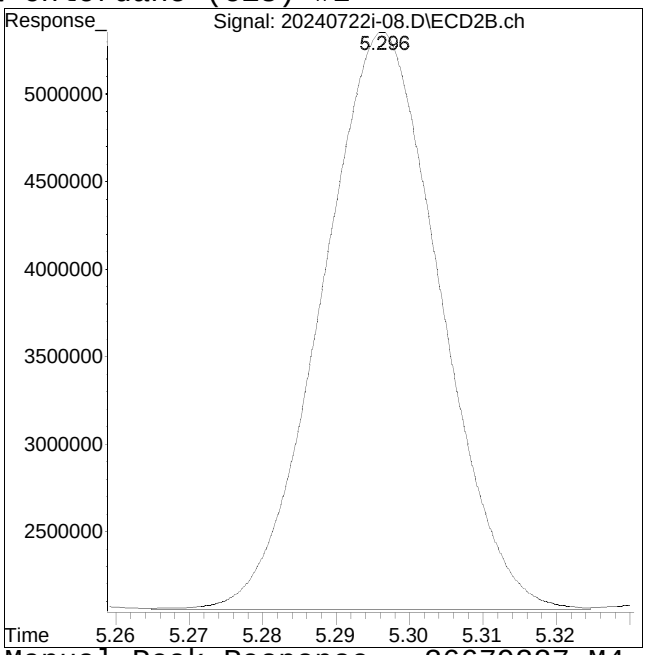
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 36759547



Manual Peak Response = 36679227 M4

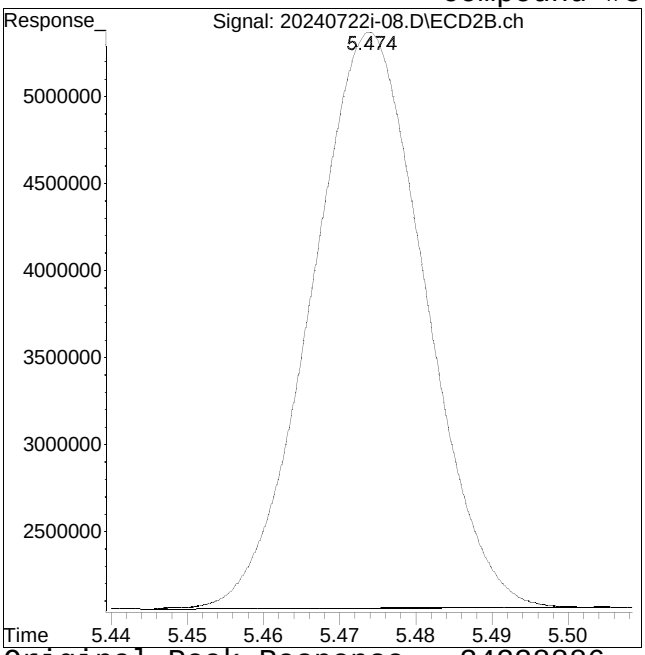
M4 = Poor automated baseline construction.

Manual Integration Report

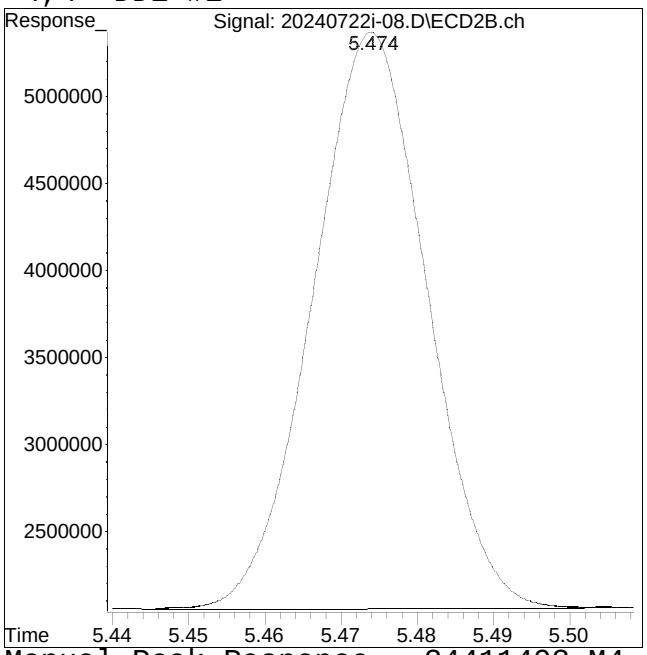
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 34238886



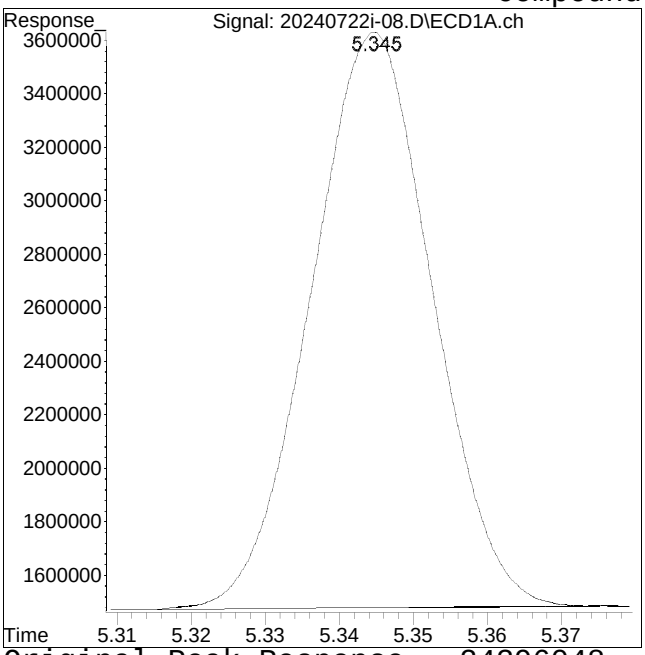
Manual Peak Response = 34411493 M4

M4 = Poor automated baseline construction.

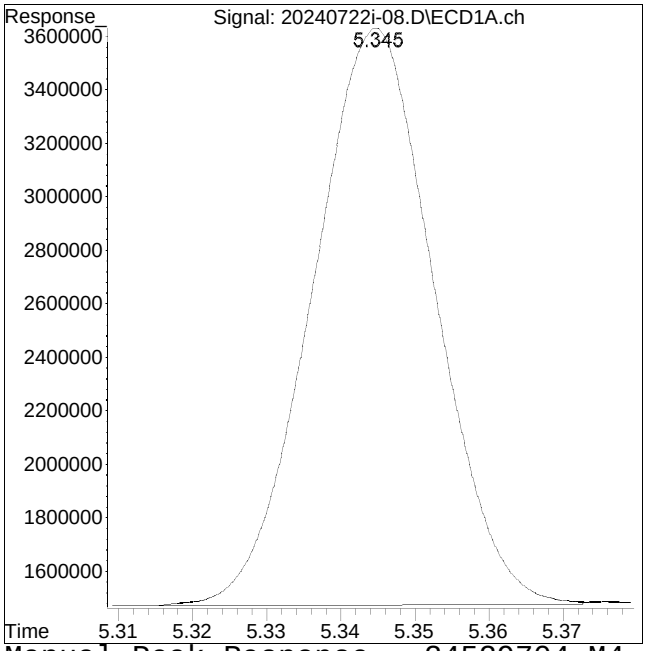
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #18: Endrin



Original Peak Response = 24396048



Manual Peak Response = 24529704 M4

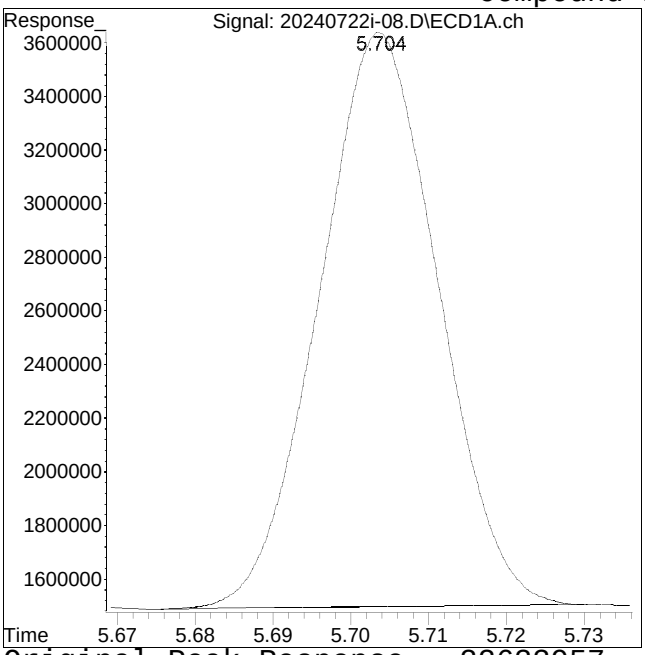
M4 = Poor automated baseline construction.

Manual Integration Report

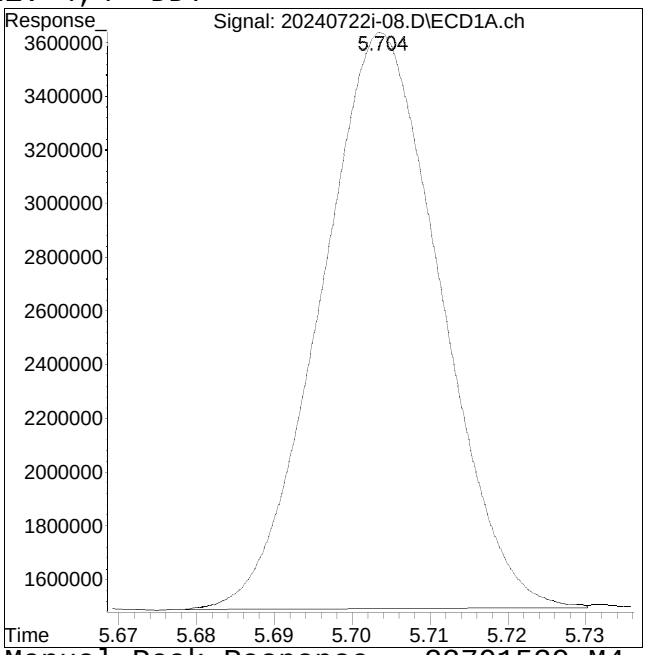
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-08.D
Date Inj'd : 7/22/2024 19:11
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 1:02 pm

Compound #21: 4,4'-DDT



Original Peak Response = 22633957



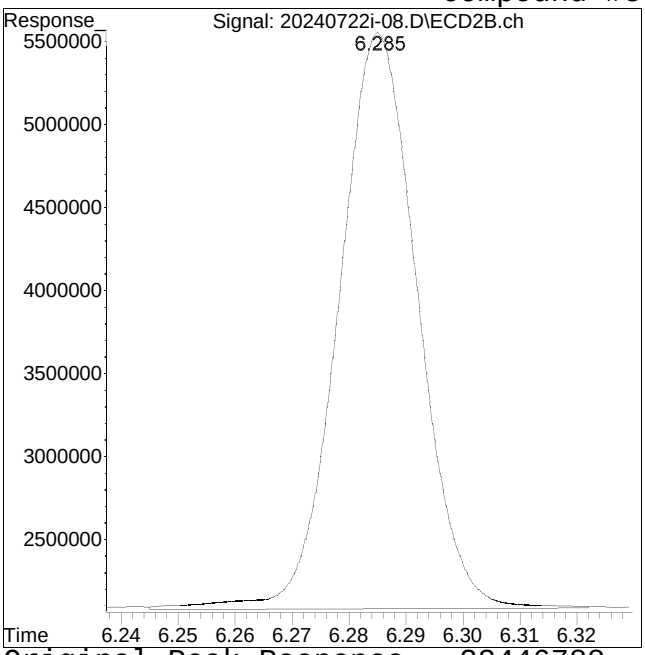
Manual Peak Response = 22791539 M4

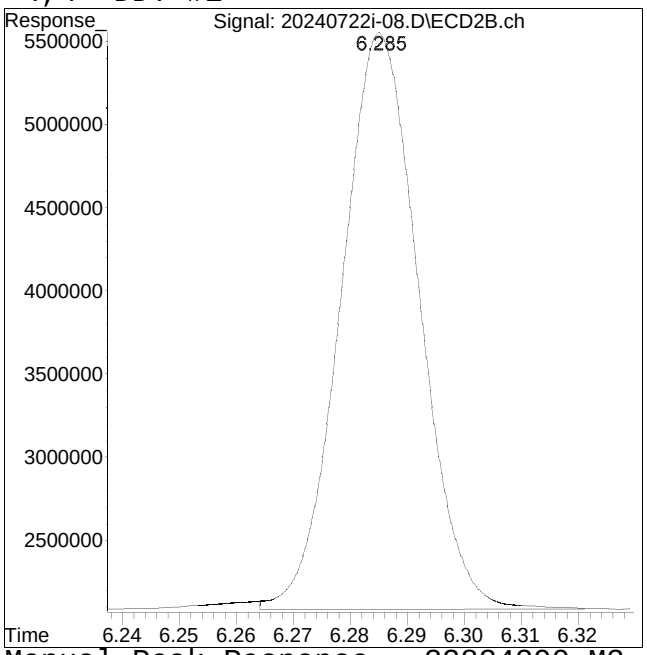
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #59: 4,4'-DDT #2



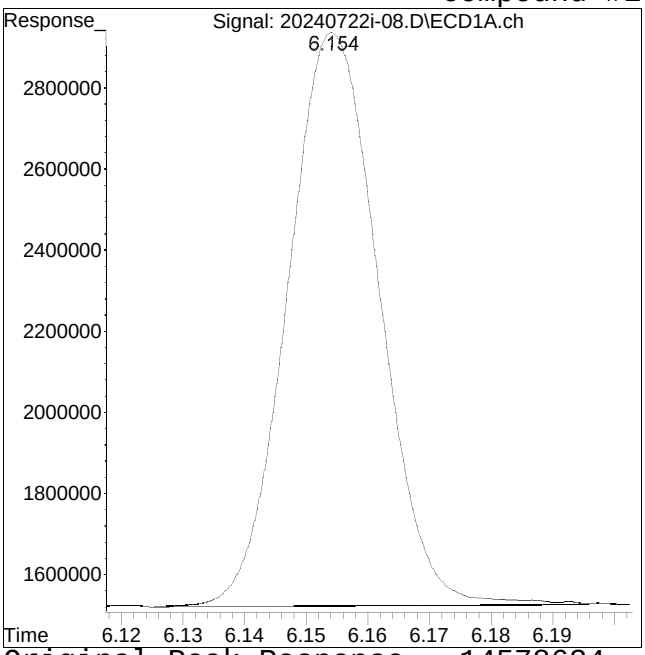


Original Peak Response = 33446788 Manual Peak Response = 32834290 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

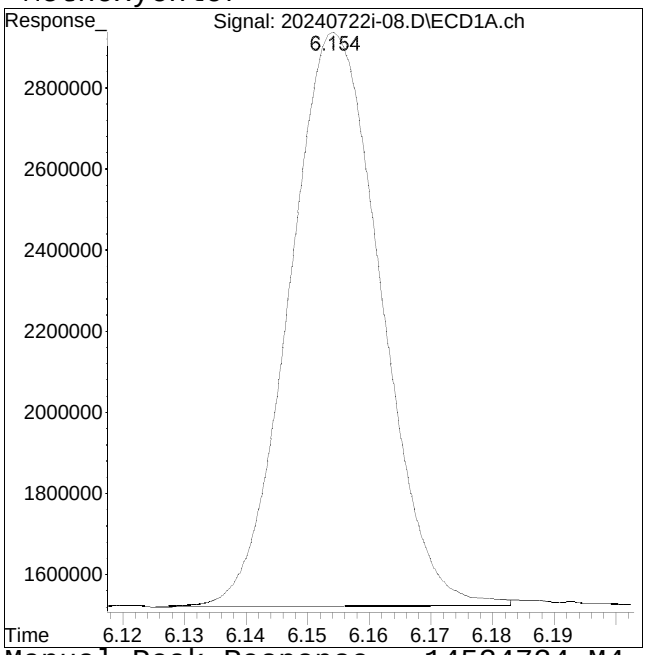
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #23: Methoxychlor



Original Peak Response = 14578634



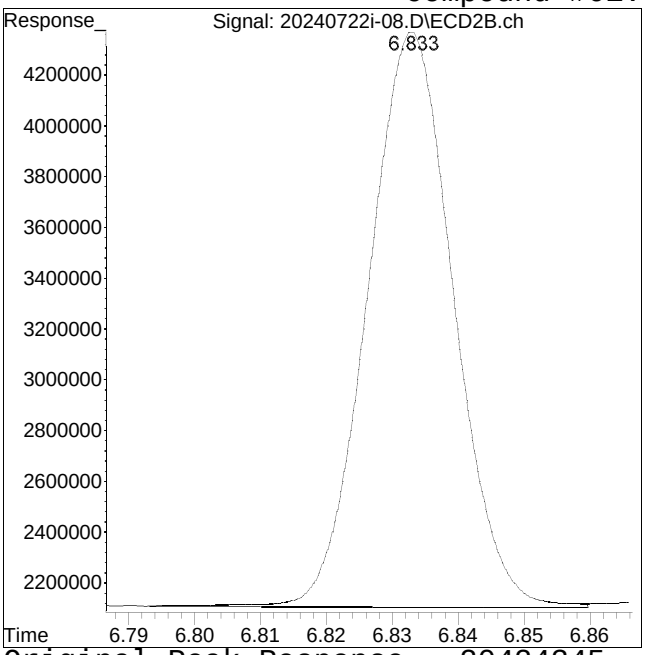
Manual Peak Response = 14534734 M4

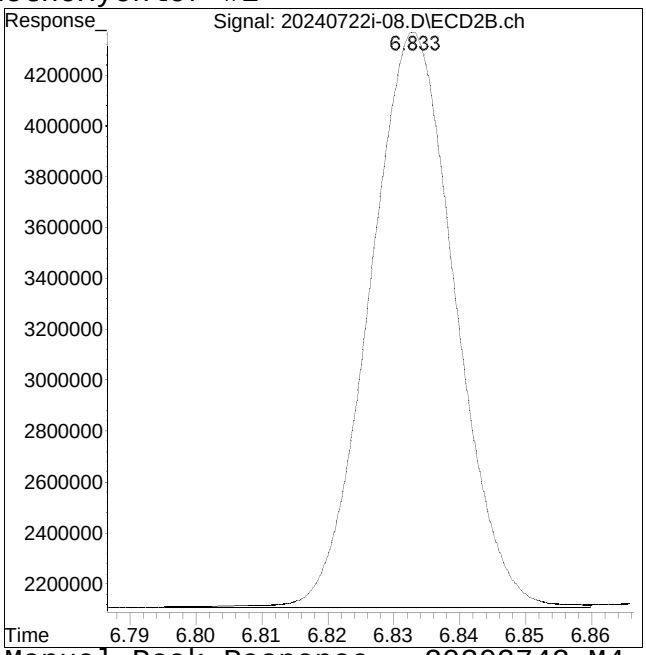
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #61: Methoxychlor #2



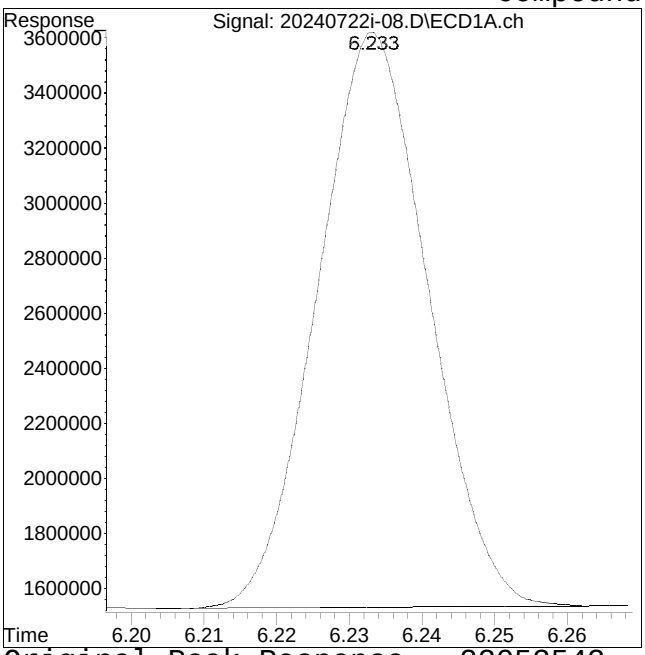


Original Peak Response = 20424345 Manual Peak Response = 20302742 M4
M4 = Poor automated baseline construction.

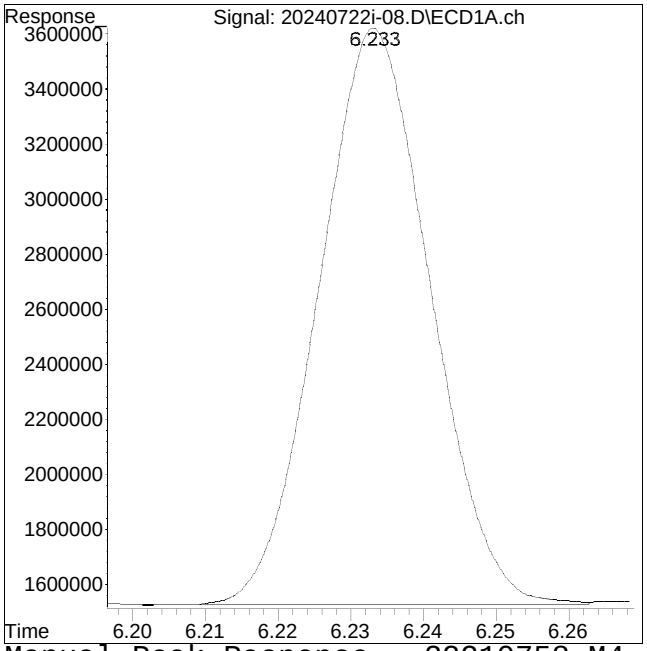
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #24: Mirex



Original Peak Response = 22053542



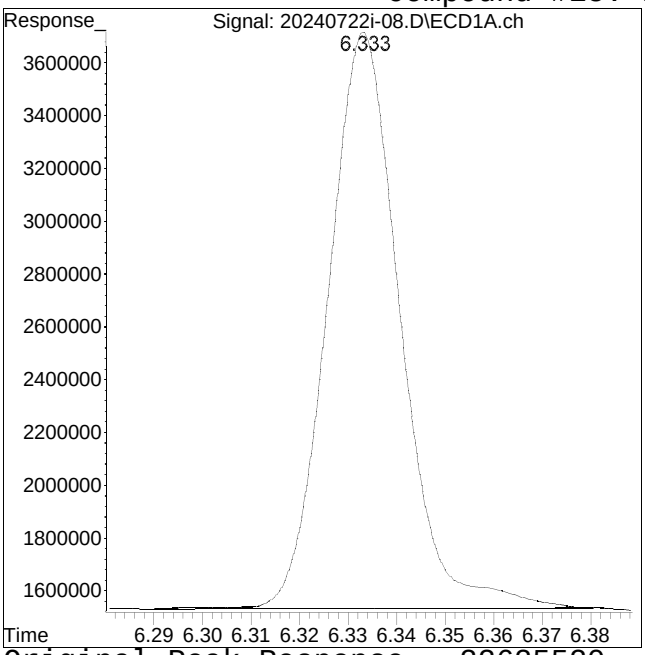
Manual Peak Response = 22210758 M4

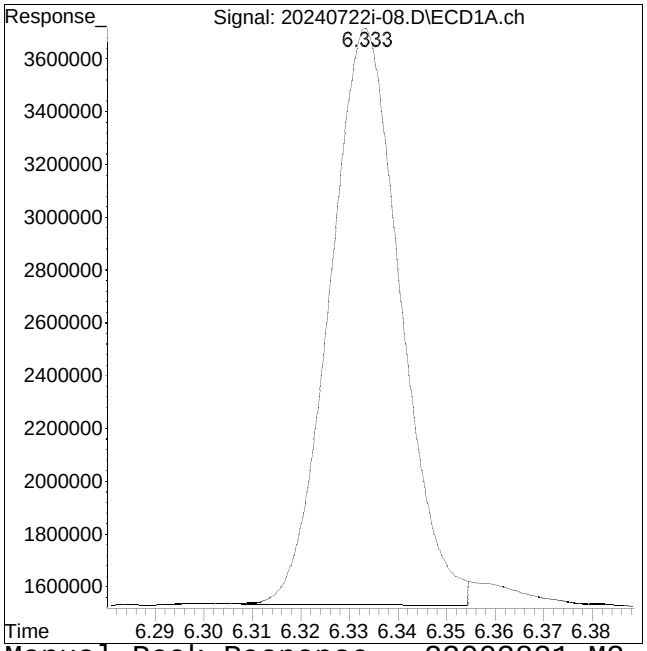
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #25: Endosulfan Sulfate



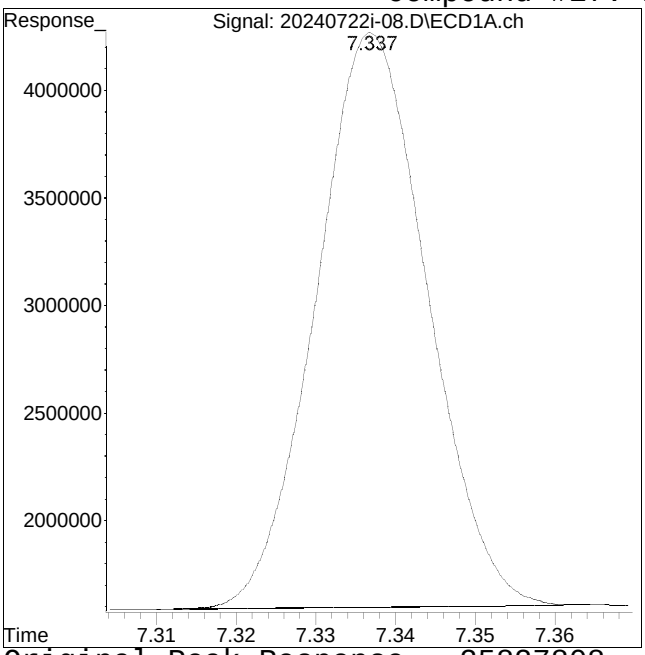


Original Peak Response = 22625520 Manual Peak Response = 22003821 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

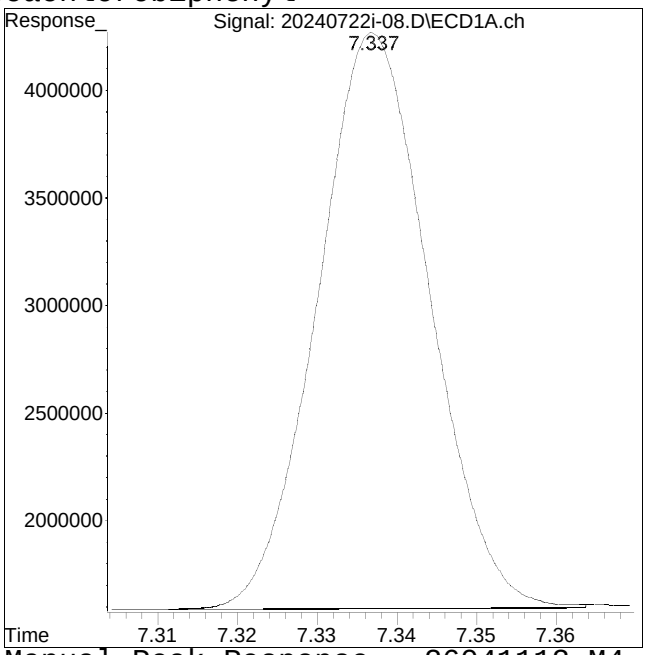
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 25827808



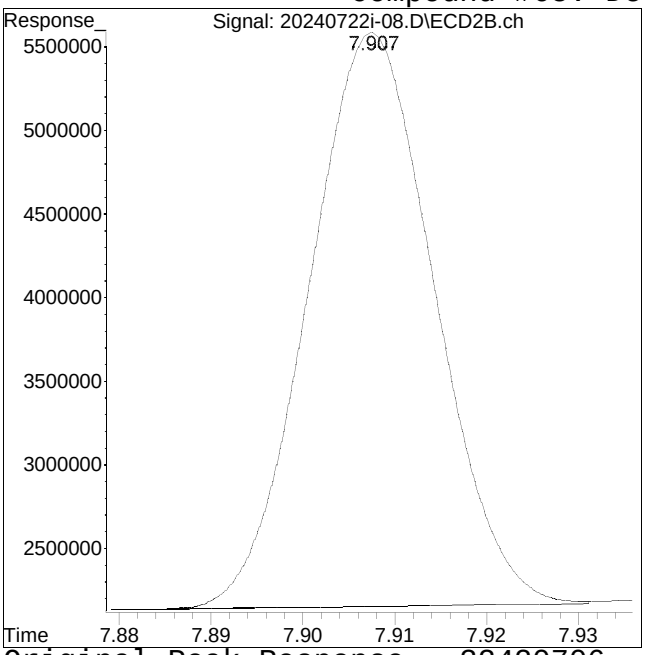
Manual Peak Response = 26041112 M4

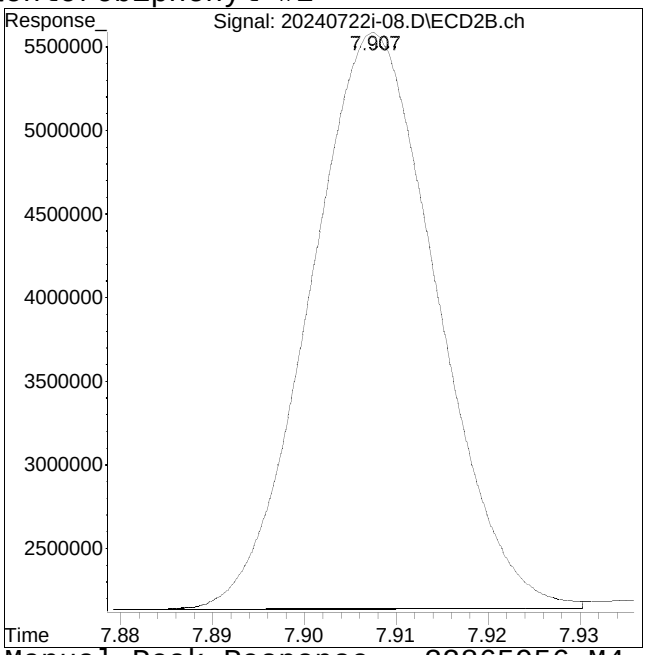
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-08.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:11 Instrument : PEST 20
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 7/23/2024 1:02 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 32420706 Manual Peak Response = 32865956 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:24
Operator : pest20:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:21:40 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:21:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.006	2.062	52130218	82072879	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.472	2.662	119.2E6	184.6E6	NoCal M4	NoCal M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	7.334	7.904	116.5E6	150.4E6	NoCal M4	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	2.739	3.038	124.5E6	189.2E6	NoCal	NoCal M4
4)	alpha-BHC	2.862	3.151	157.2E6	247.0E6	NoCal M3	NoCal
5)	gamma-BHC (l	3.106	3.476	142.9E6	224.9E6	NoCal	NoCal
6)	beta-BHC	3.173	3.550	67868100	105.5E6	NoCal M4	NoCal M4
7)	delta-BHC	3.324	3.847	143.4E6	226.5E6	NoCal	NoCal
8)	Heptachlor	3.512	3.917	138.0E6	209.8E6	NoCal	NoCal
9)	Aldrin	3.791	4.267	133.8E6	196.8E6	NoCal	NoCal
10)	Alachlor	3.932	4.140	22067386	29728031	NoCal M4	NoCal
11)	Chlorpyrifos	4.033	4.524	65139554	102.5E6	NoCal	NoCal
12)	Heptachlor E	4.406	4.928	124.6E6	188.7E6	NoCal M4	NoCal M4
13)	gamma-Chlord	4.543	5.141	113.1E6	165.5E6	NoCal M4	NoCal
14)	alpha-Chlord	4.692	5.296	127.9E6	184.8E6	NoCal M3	NoCal

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:24
Operator : pest20:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:21:40 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:21:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15)	4,4'-DDE	4.794	5.473	129.3E6	185.4E6	NoCal	NoCal M4
16)	Endosulfan I	4.844	5.354	117.8E6	172.9E6	NoCal M4	NoCal
17)	Dieldrin	5.107	5.627	122.5E6	178.7E6	NoCal M4	NoCal M4
18)	Endrin	5.344	5.910	123.1E6	182.4E6	NoCal	NoCal M4
19)	4,4'-DDD	5.433	6.018	104.1E6	151.7E6	NoCal	NoCal
20)	Endosulfan I	5.565	6.100	108.8E6	163.4E6	NoCal	NoCal
21)	4,4'-DDT	5.703	6.285	113.1E6	170.2E6	NoCal M4	NoCal M4
22)	Endrin Aldeh	5.957	6.385	93719042	139.1E6	NoCal	NoCal M4
23)	Methoxychlor	6.154	6.832	64627347	94053597	NoCal	NoCal
24)	Mirex	6.233	6.988	98077096	136.8E6	NoCal M3	NoCal
25)	Endosulfan S	6.333	6.607	103.2E6	158.1E6	NoCal M3	NoCal M4
26)	Endrin Keton	6.556	7.019	118.7E6	180.1E6	NoCal	NoCal
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:24
Operator : pest20:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:21:40 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:21:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

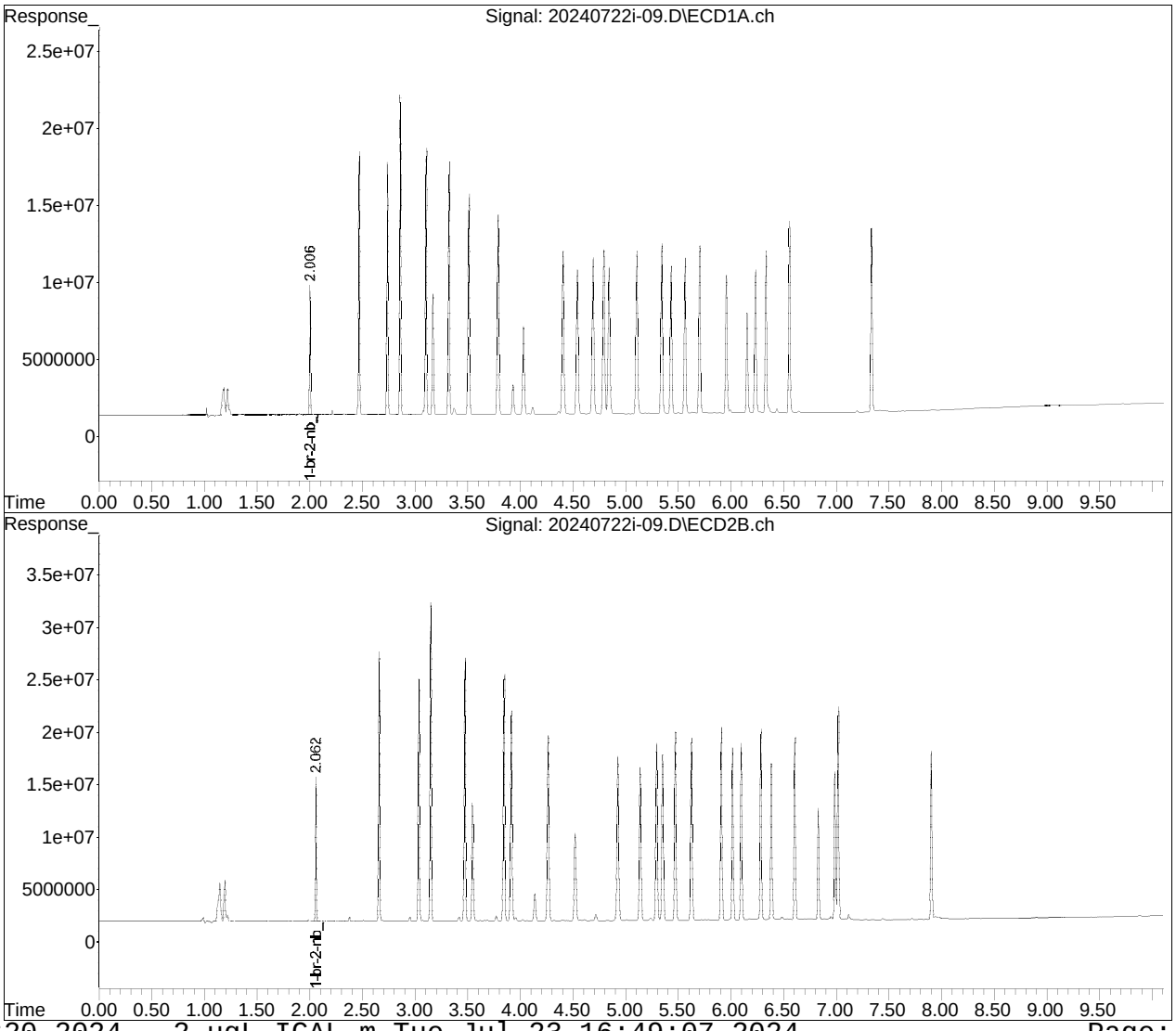
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:24
Operator : pest20:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:21:40 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:21:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

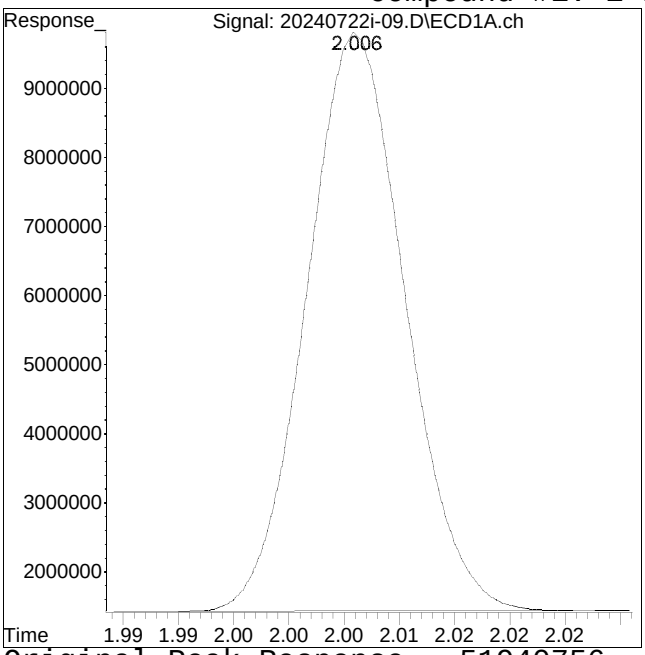


Manual Integration Report

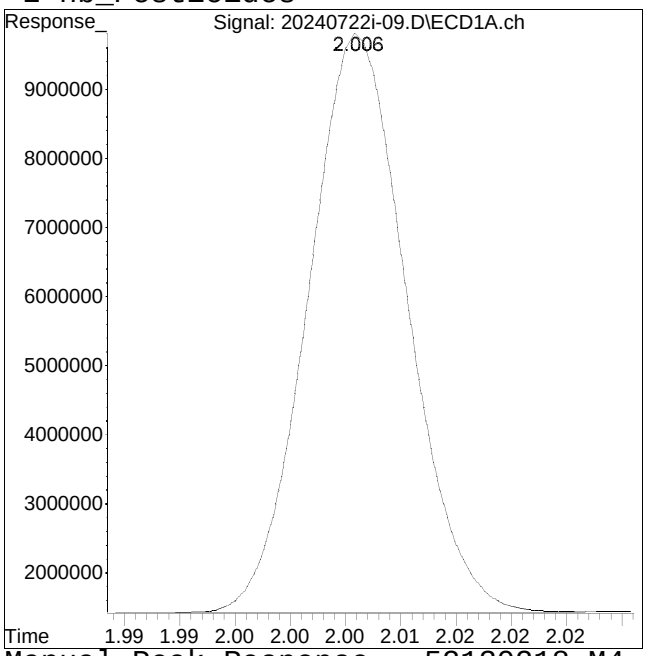
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 51940756



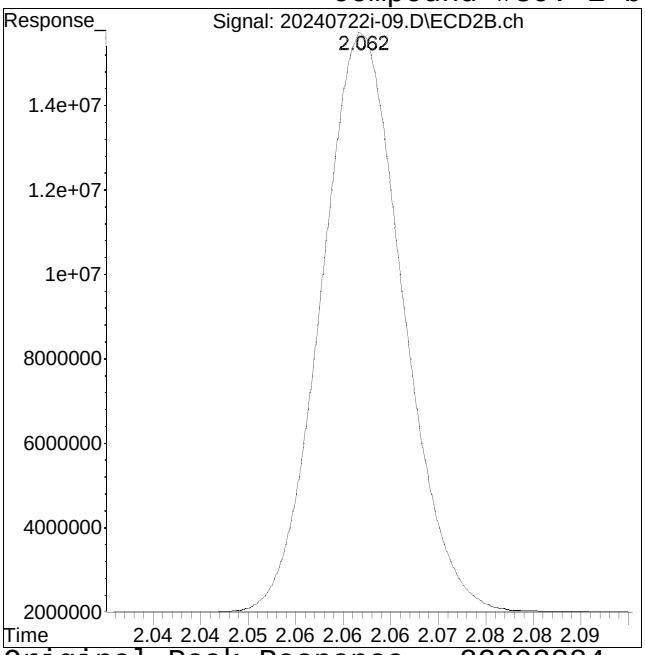
Manual Peak Response = 52130218 M4

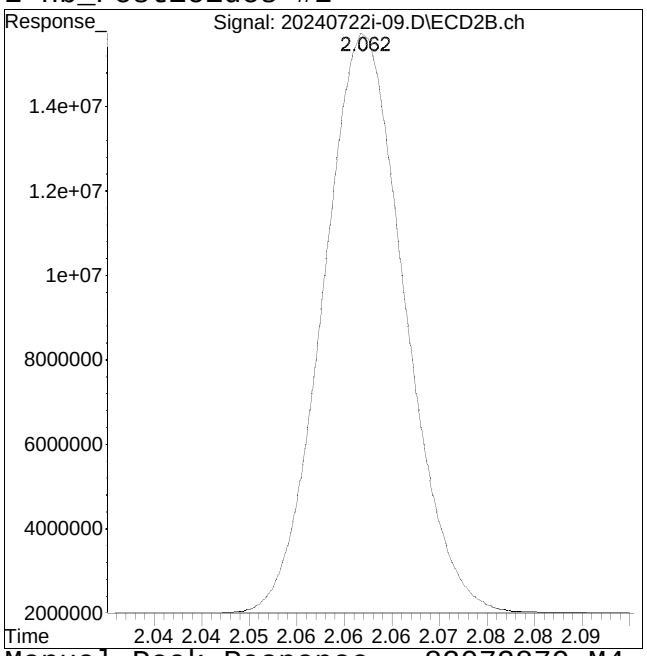
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #39: 1-br-2-nb_Pesticides #2



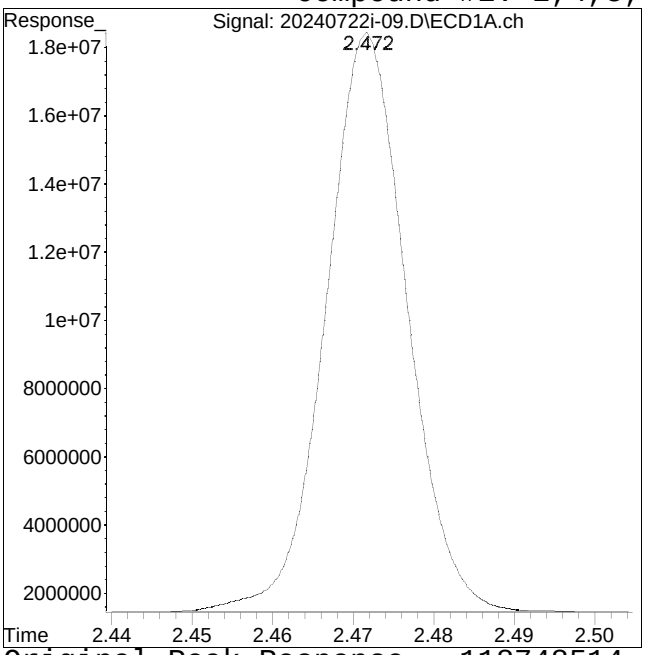


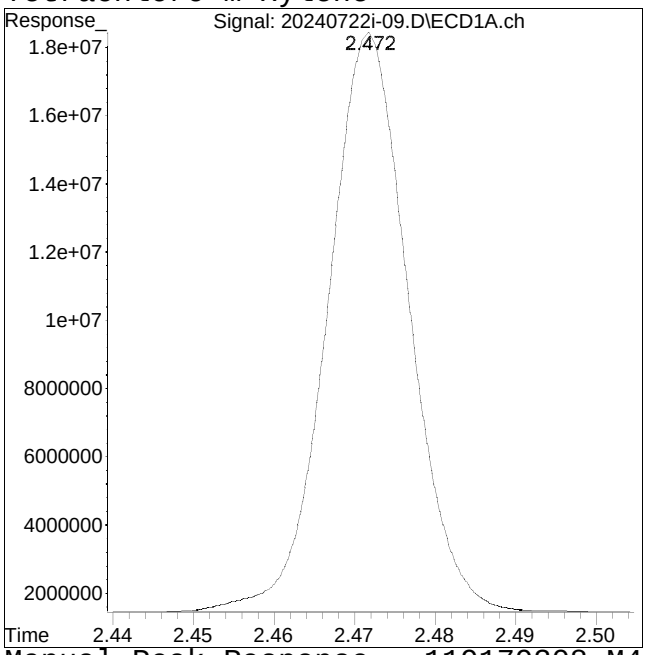
Original Peak Response = 82092284 Manual Peak Response = 82072879 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q Method : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0 Quant Date : 7/23/2024 12:21 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





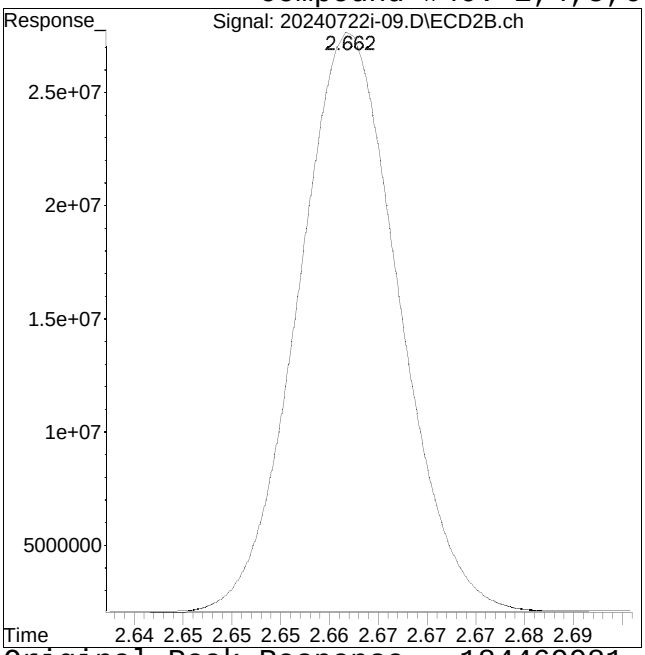
Original Peak Response = 118748514 Manual Peak Response = 119179308 M4
M4 = Poor automated baseline construction.

Manual Integration Report

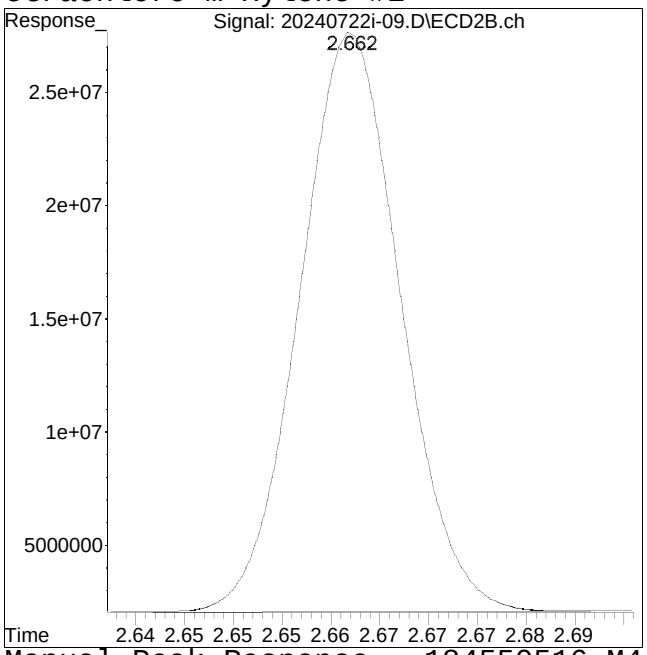
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 184469981



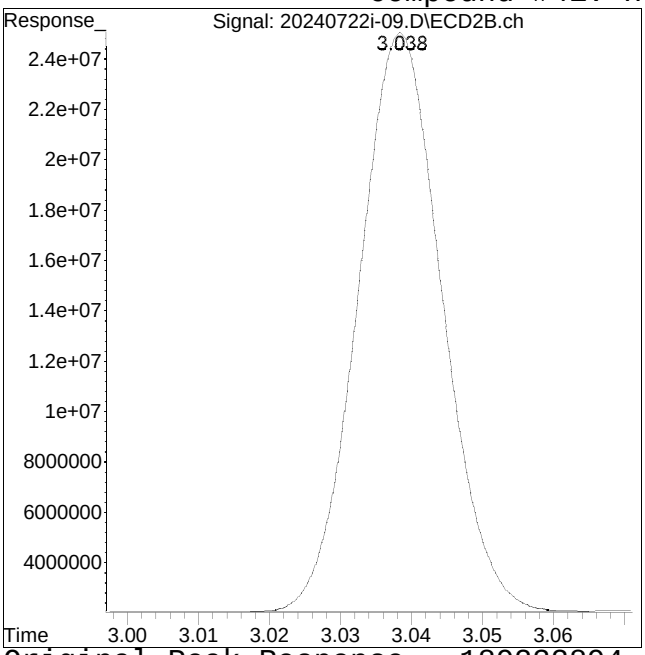
Manual Peak Response = 184550516 M4

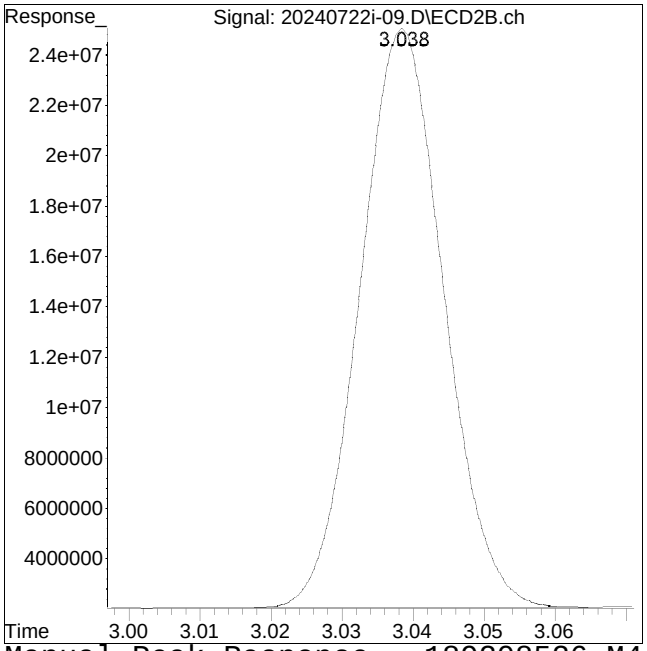
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #41: Hexachlorobenzene #2



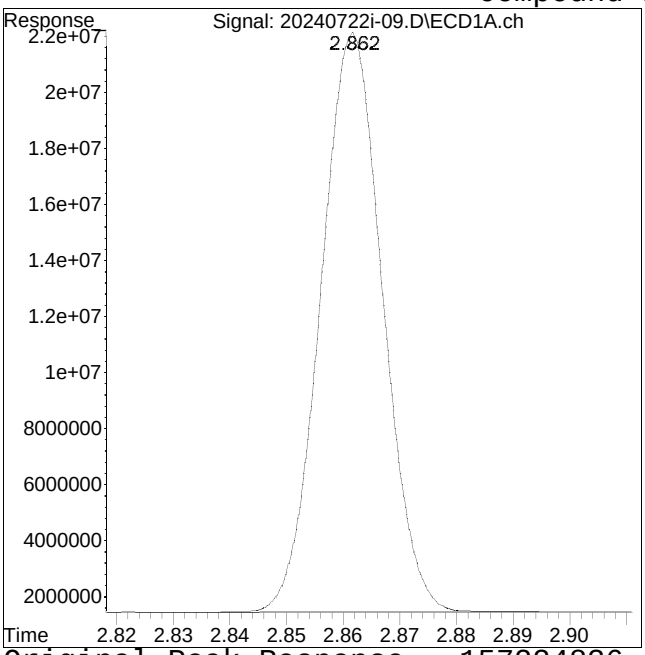


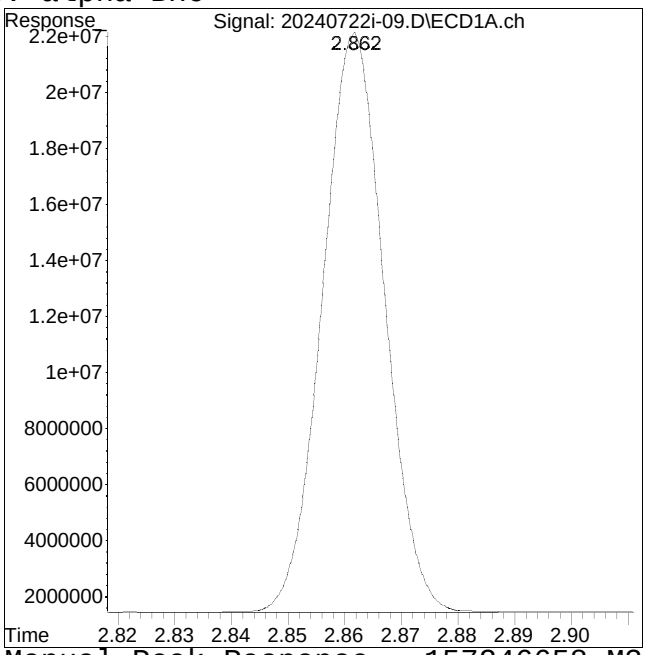
Original Peak Response = 189232894 Manual Peak Response = 189208526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #4: alpha-BHC





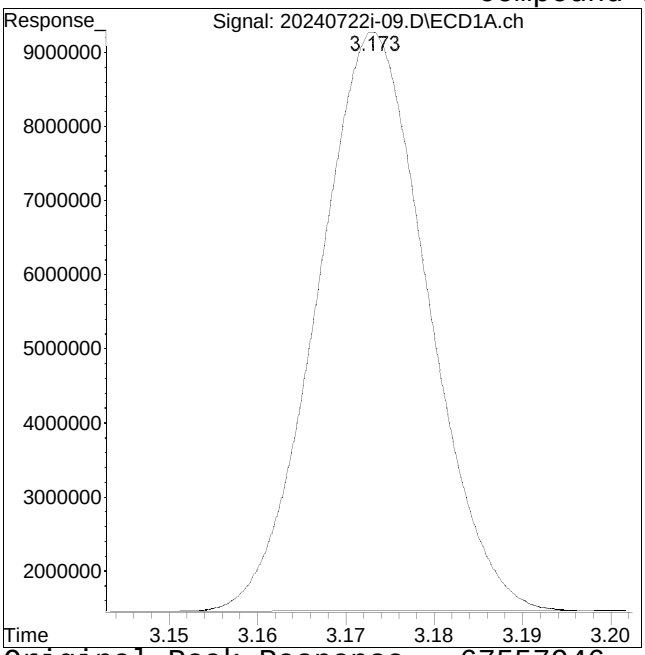
Original Peak Response = 157224836 Manual Peak Response = 157246658 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

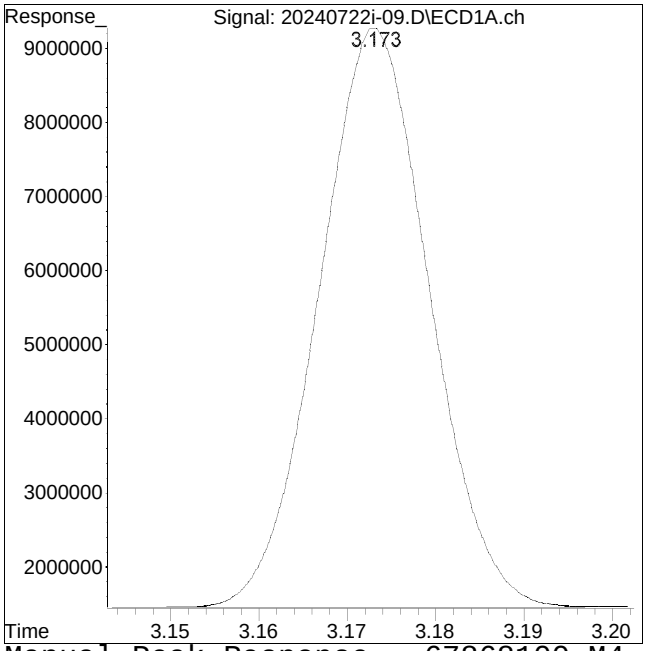
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #6: beta-BHC



Original Peak Response = 67557946



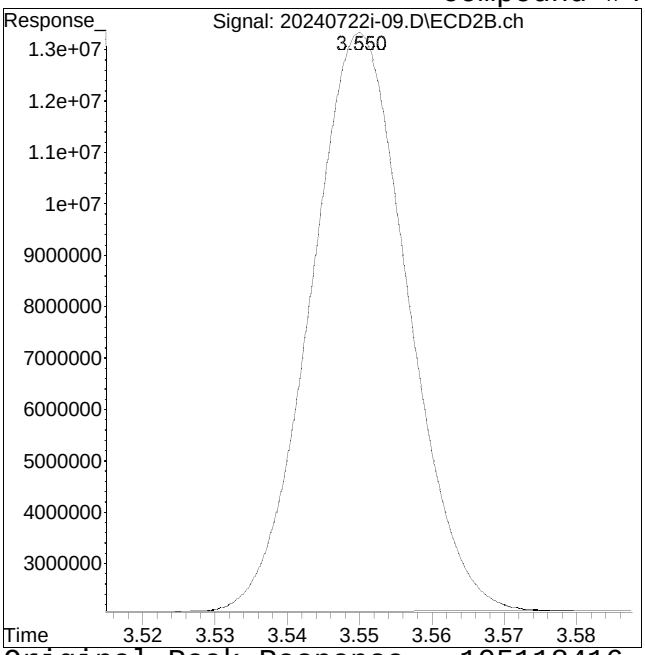
Manual Peak Response = 67868100 M4

M4 = Poor automated baseline construction.

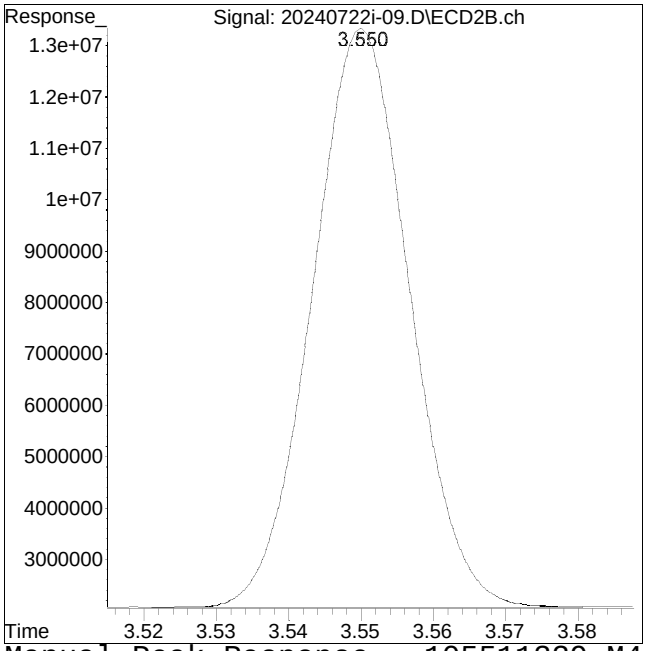
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #44: beta-BHC #2



Original Peak Response = 105118416



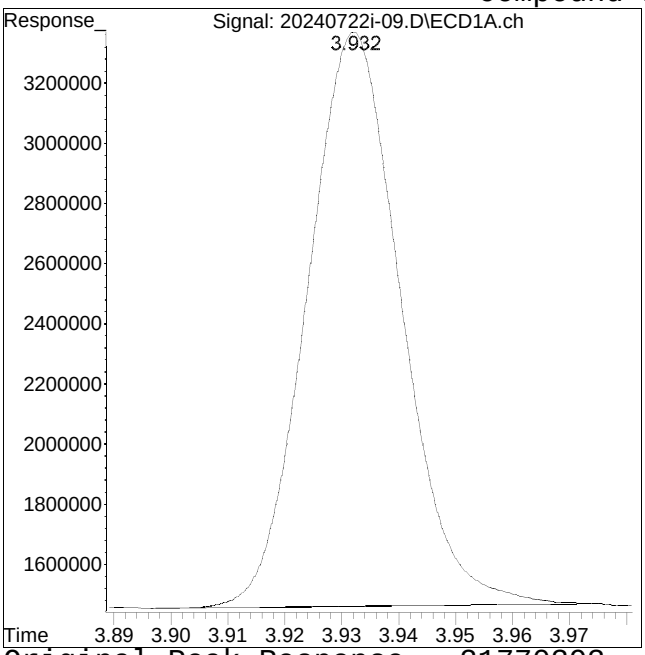
Manual Peak Response = 105511339 M4

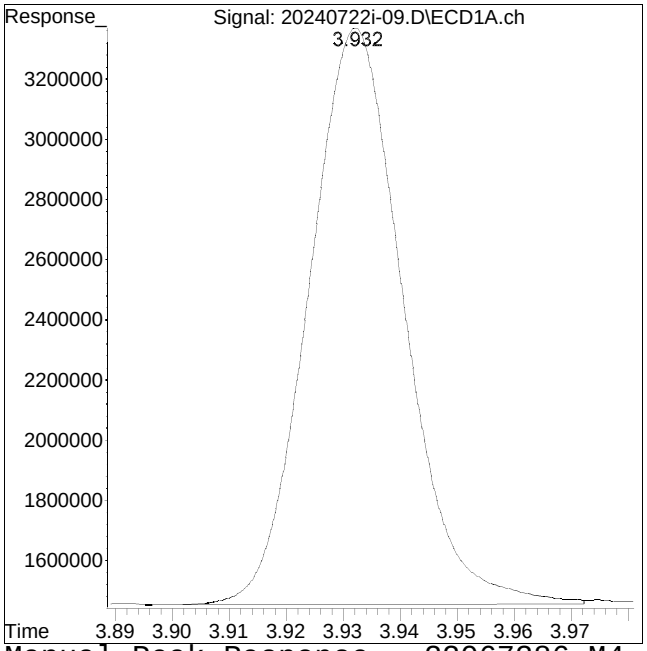
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #10: Alachlor





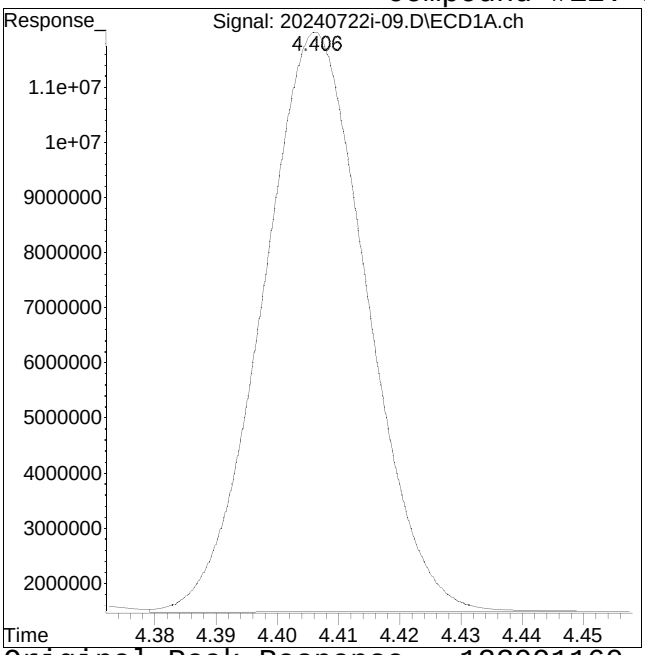
Original Peak Response = 21770393 Manual Peak Response = 22067386 M4
M4 = Poor automated baseline construction.

Manual Integration Report

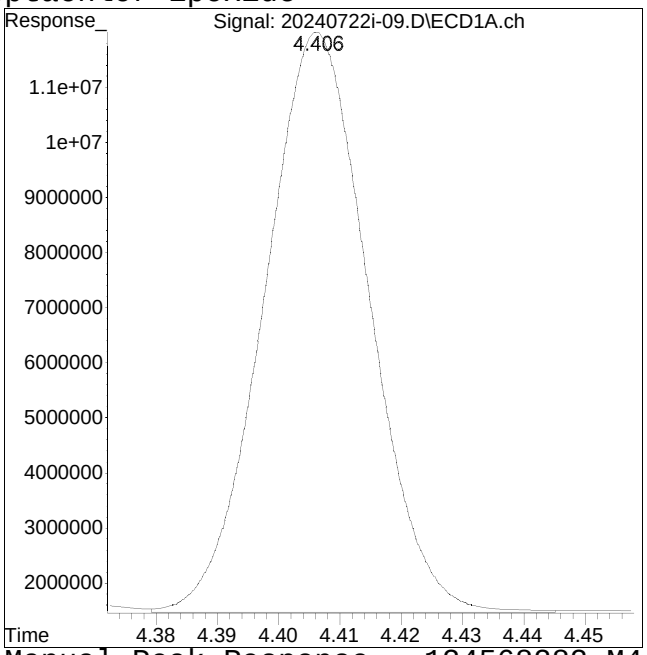
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 123991160



Manual Peak Response = 124568282 M4

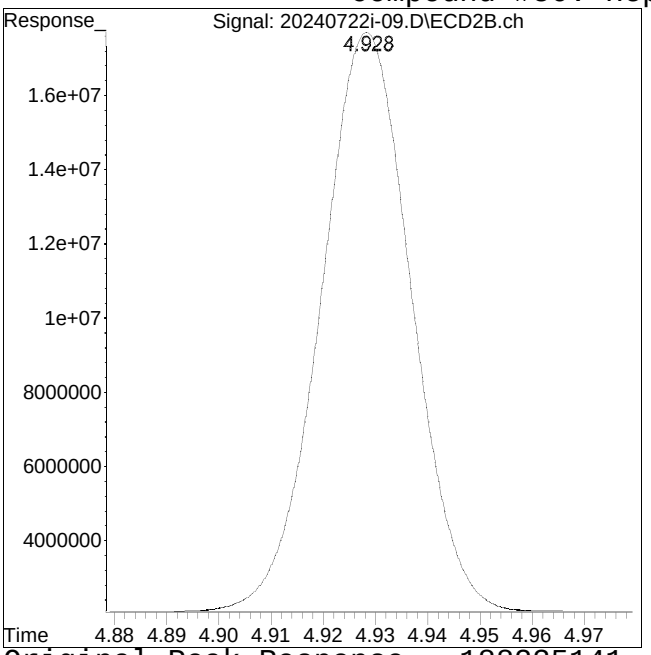
M4 = Poor automated baseline construction.

Manual Integration Report

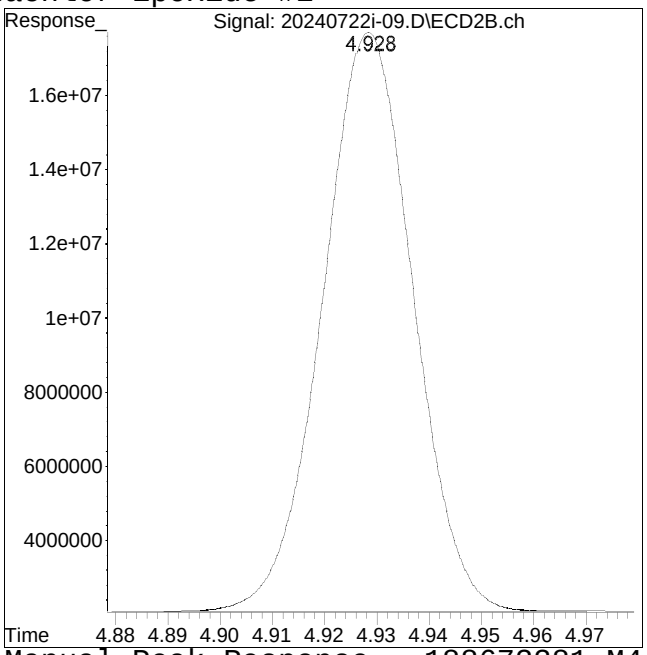
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 188235141



Manual Peak Response = 188673381 M4

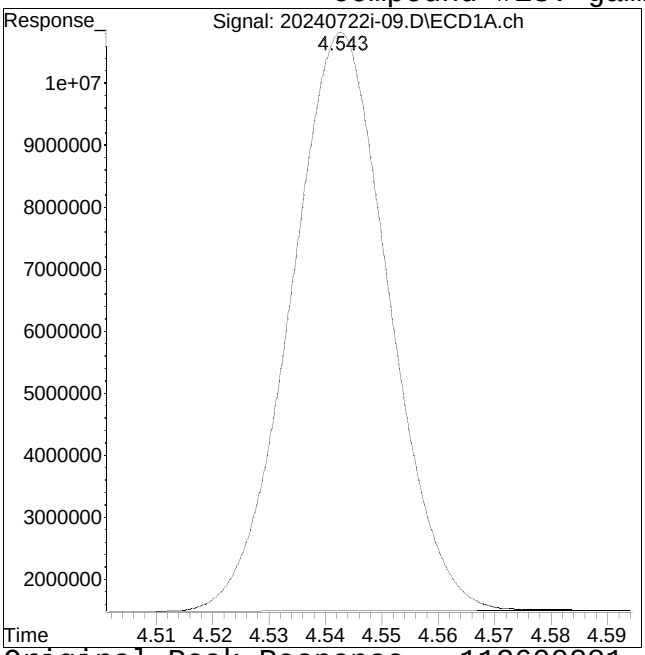
M4 = Poor automated baseline construction.

Manual Integration Report

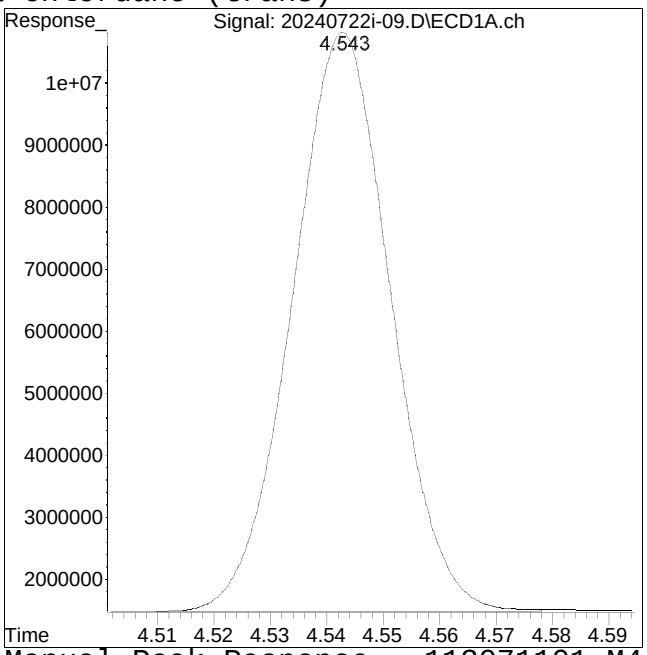
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 112600281



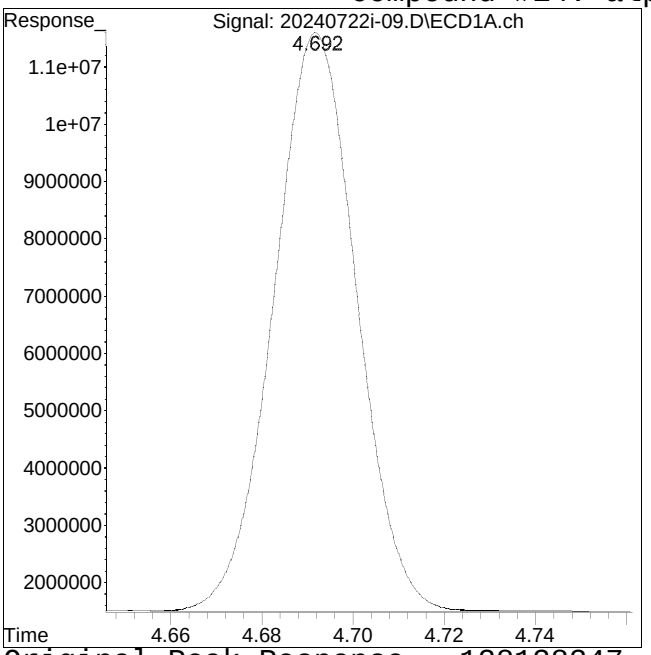
Manual Peak Response = 113071101 M4

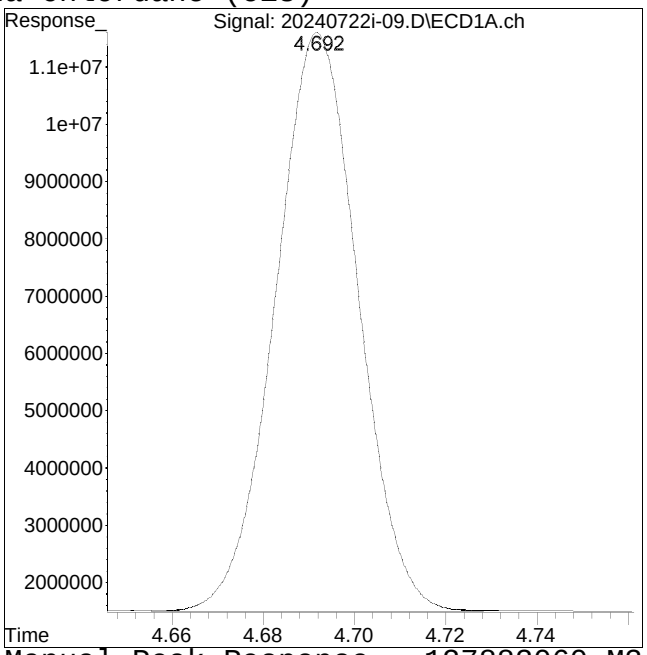
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q Method : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0 Quant Date : 7/23/2024 12:21 pm

Compound #14: alpha-Chlordane (cis)





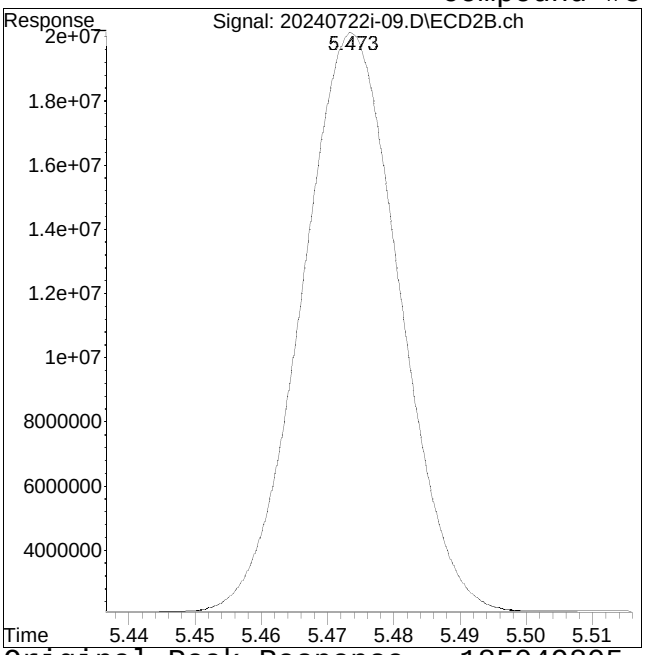
Original Peak Response = 128138347 Manual Peak Response = 127883060 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

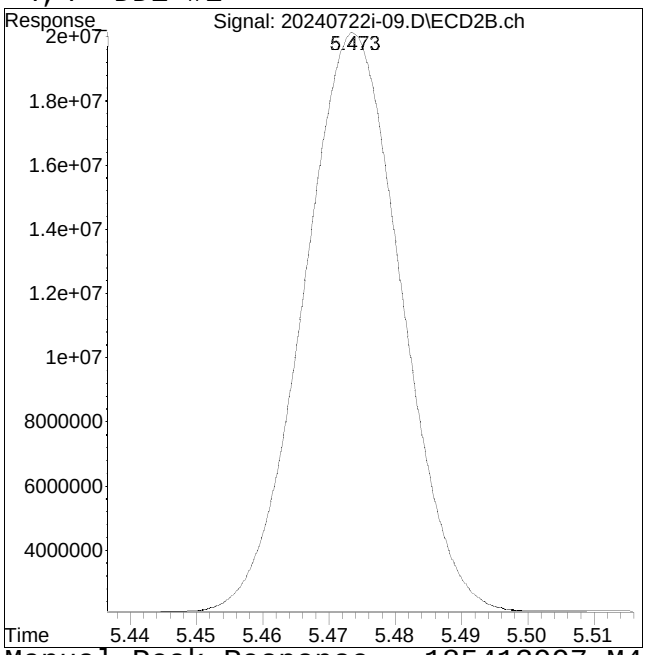
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 185049805



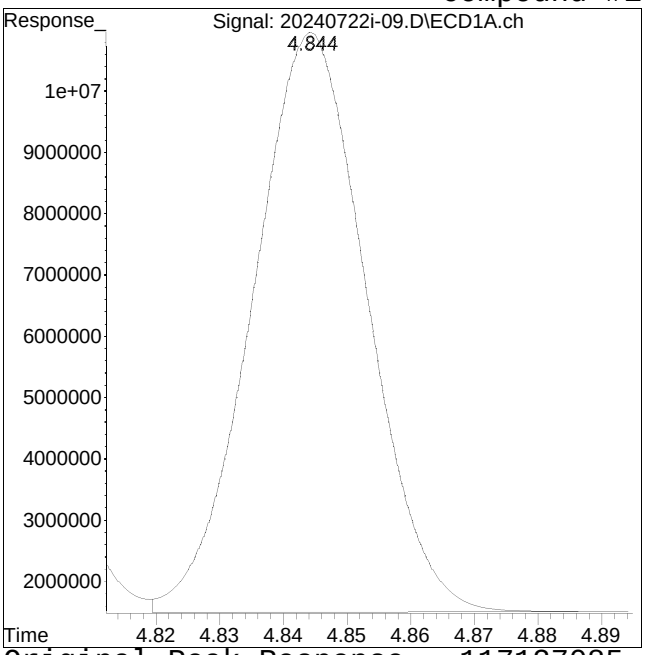
Manual Peak Response = 185413997 M4

M4 = Poor automated baseline construction.

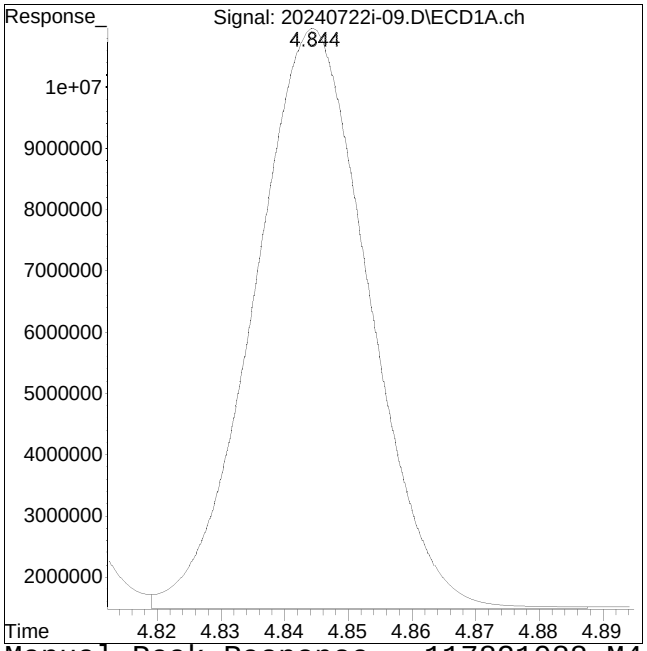
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #16: Endosulfan I



Original Peak Response = 117127085



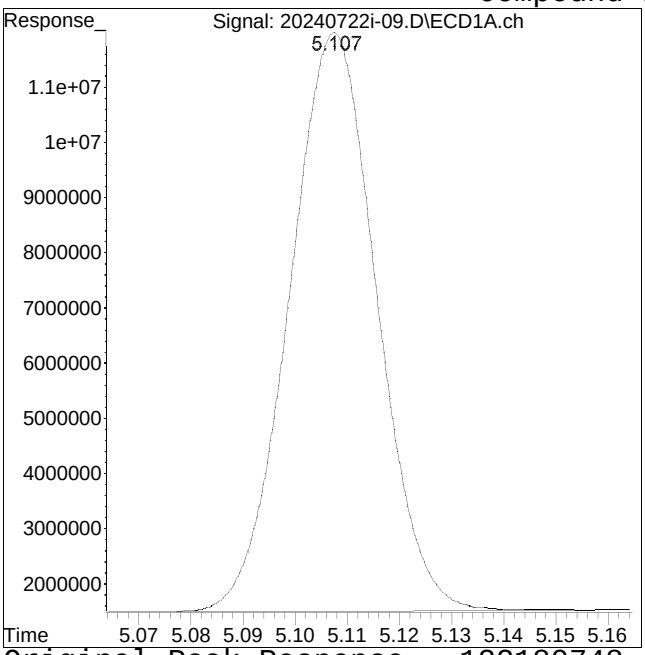
Manual Peak Response = 117821088 M4

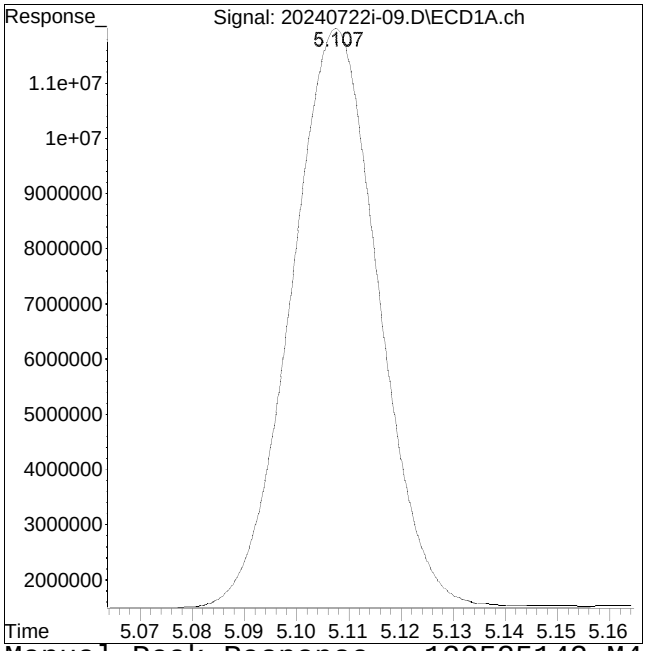
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #17: Dieldrin



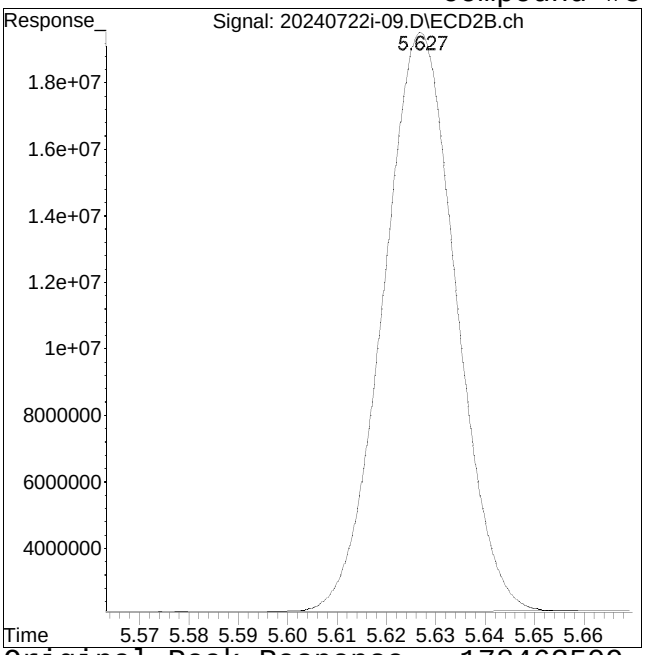


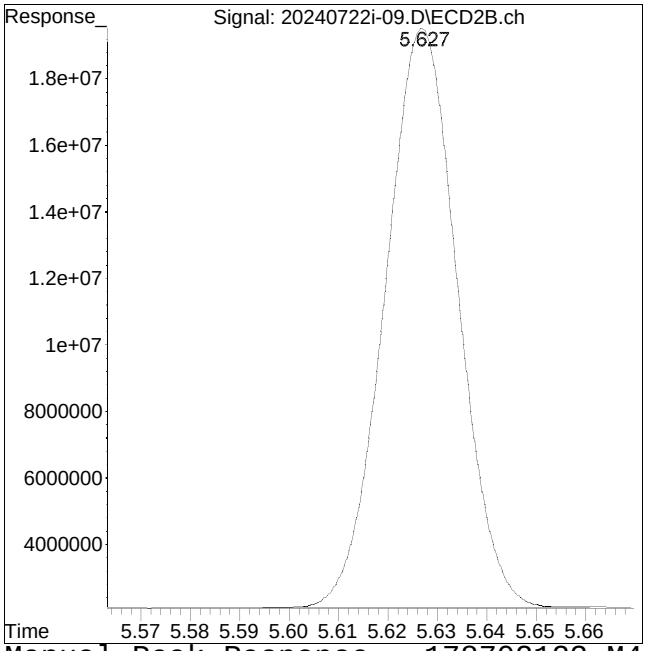
Original Peak Response = 122180748 Manual Peak Response = 122525142 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q Method : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0 Quant Date : 7/23/2024 12:21 pm

Compound #55: Dieldrin #2



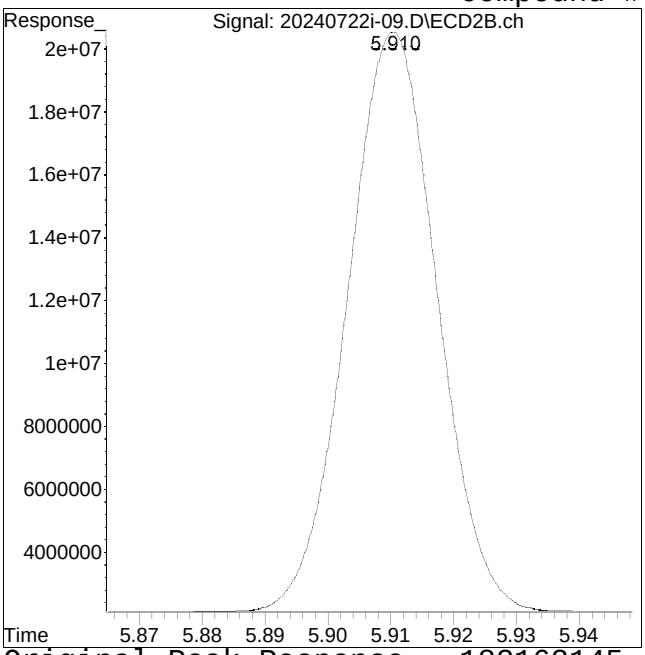


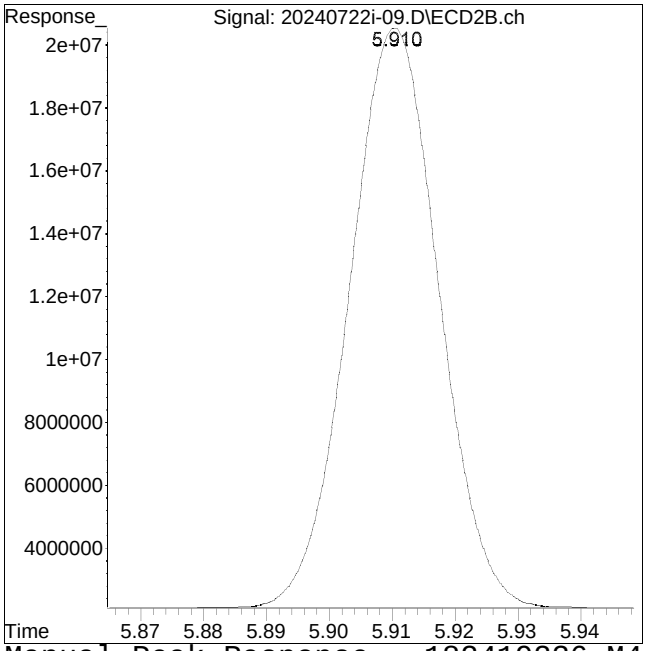
Original Peak Response = 178463509 Manual Peak Response = 178702123 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #56: Endrin #2





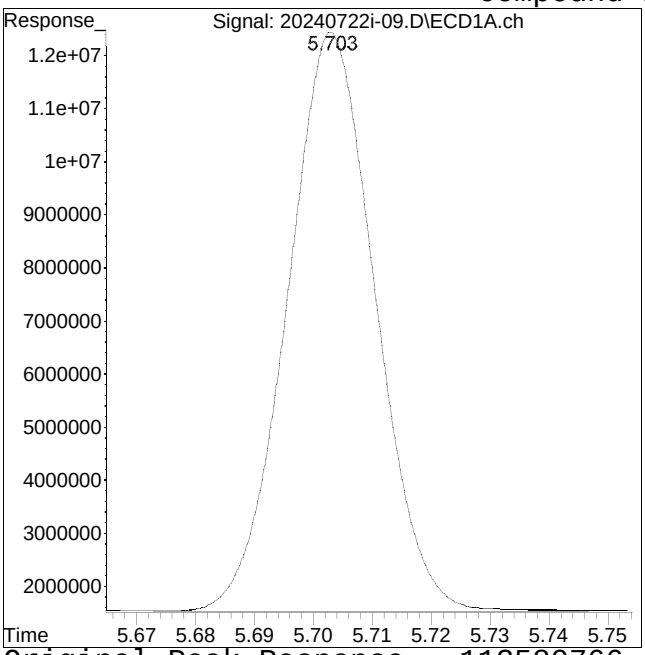
Original Peak Response = 182162145 Manual Peak Response = 182419236 M4
M4 = Poor automated baseline construction.

Manual Integration Report

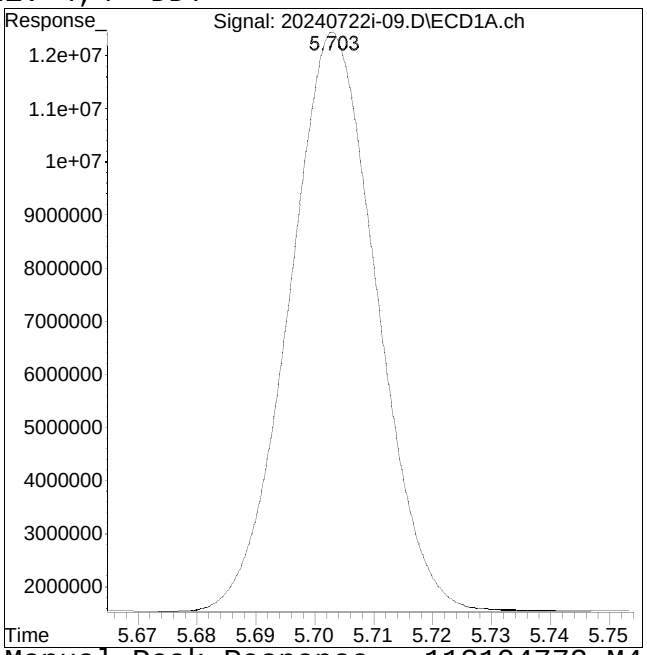
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #21: 4,4'-DDT



Original Peak Response = 113580766



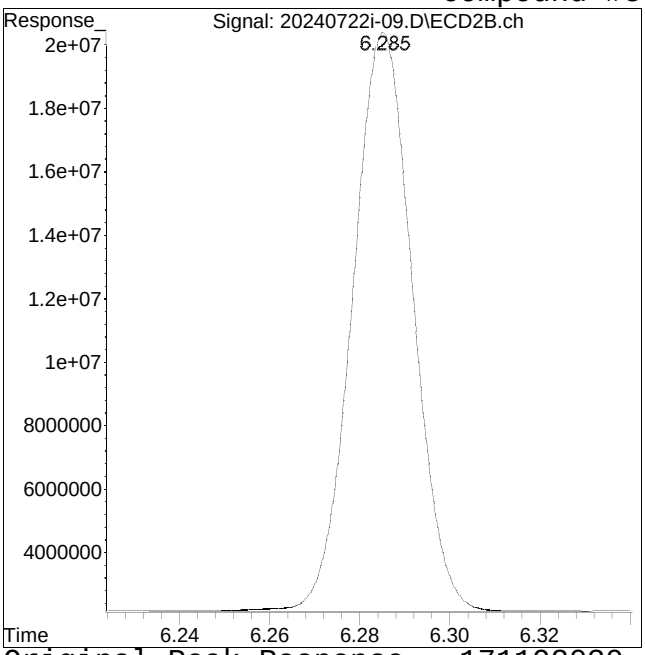
Manual Peak Response = 113104772 M4

M4 = Poor automated baseline construction.

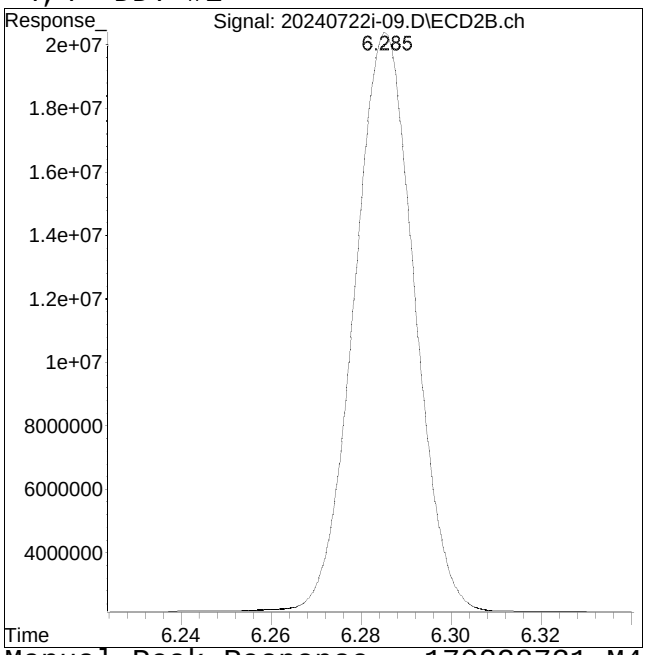
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q Method : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0 Quant Date : 7/23/2024 12:21 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 171192030



Manual Peak Response = 170228731 M4

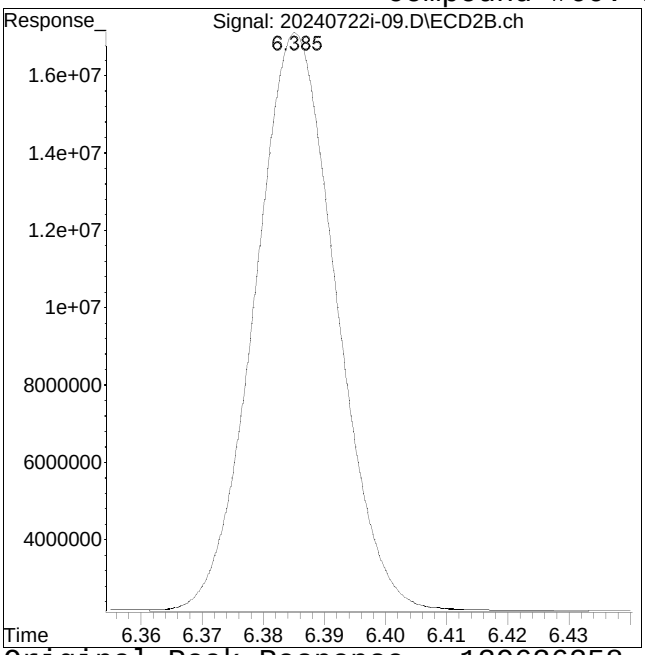
M4 = Poor automated baseline construction.

Manual Integration Report

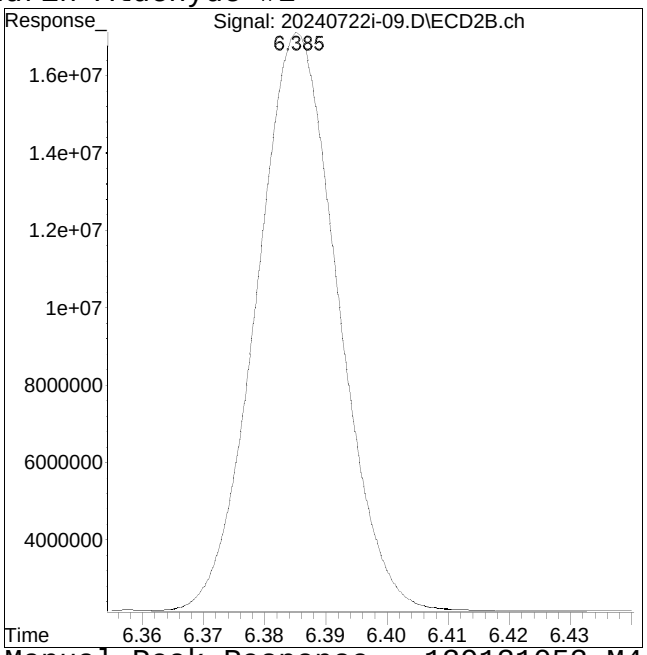
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 139636358



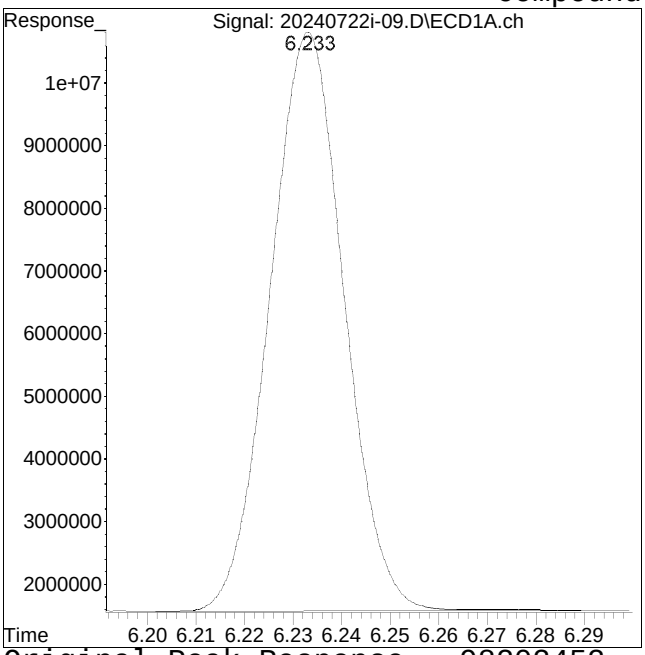
Manual Peak Response = 139131053 M4

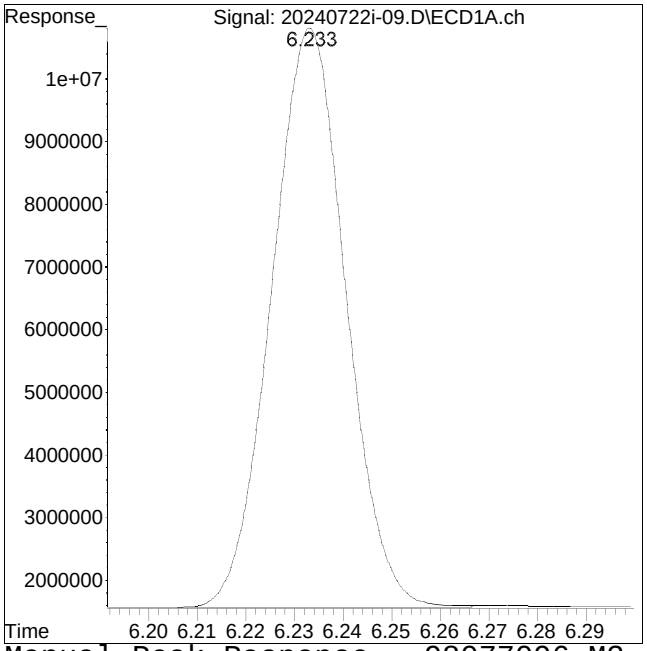
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #24: Mirex



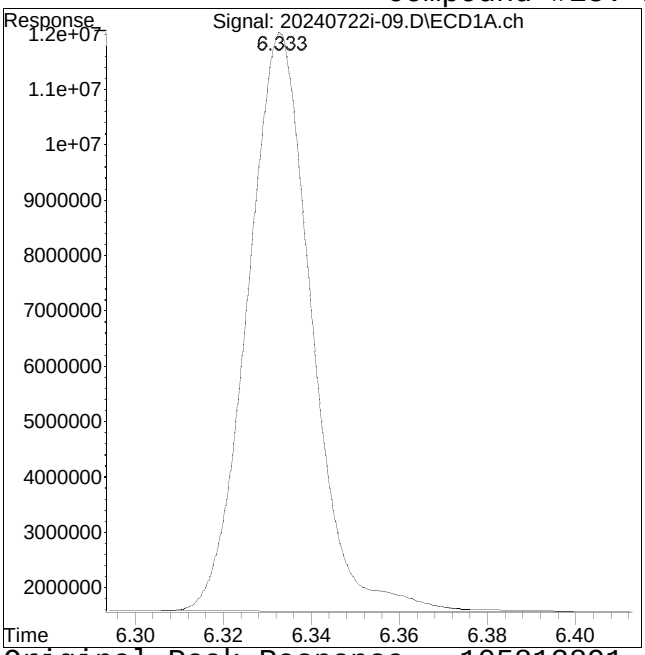


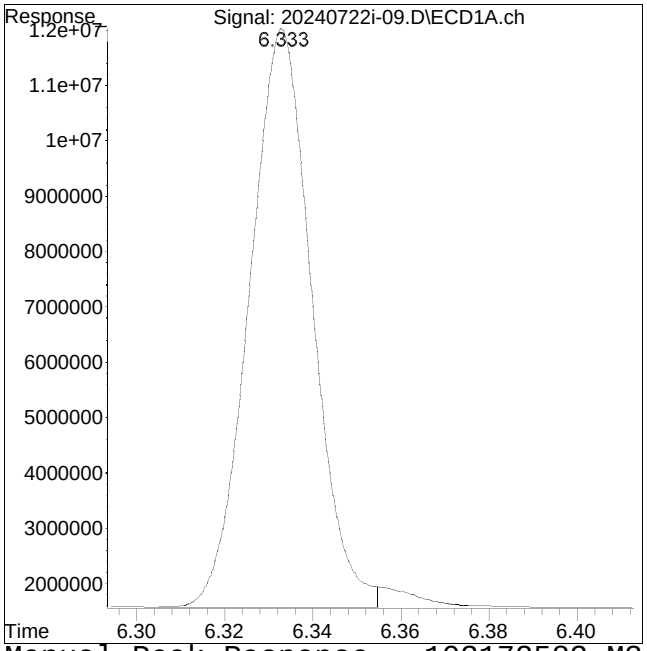
Original Peak Response = 98202452 Manual Peak Response = 98077096 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-09.D
Date Inj'd : 7/22/2024 19:24
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:21 pm

Compound #25: Endosulfan Sulfate





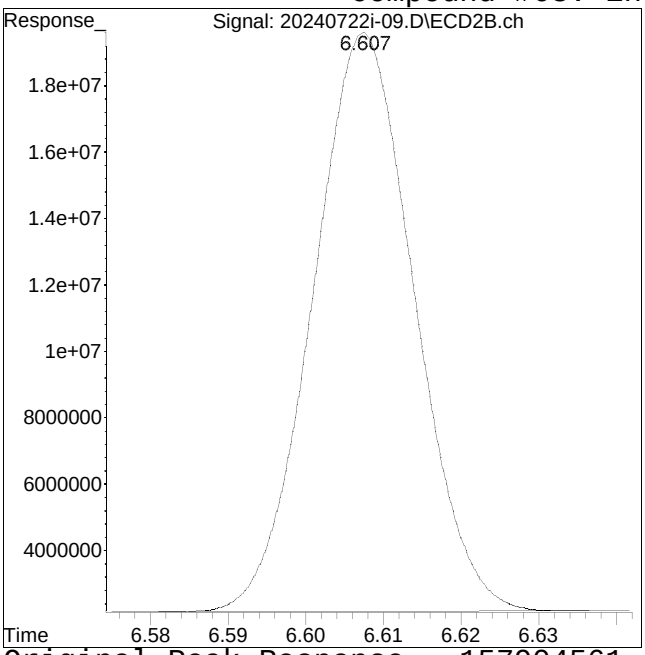
Original Peak Response = 105812891 Manual Peak Response = 103172583 M3

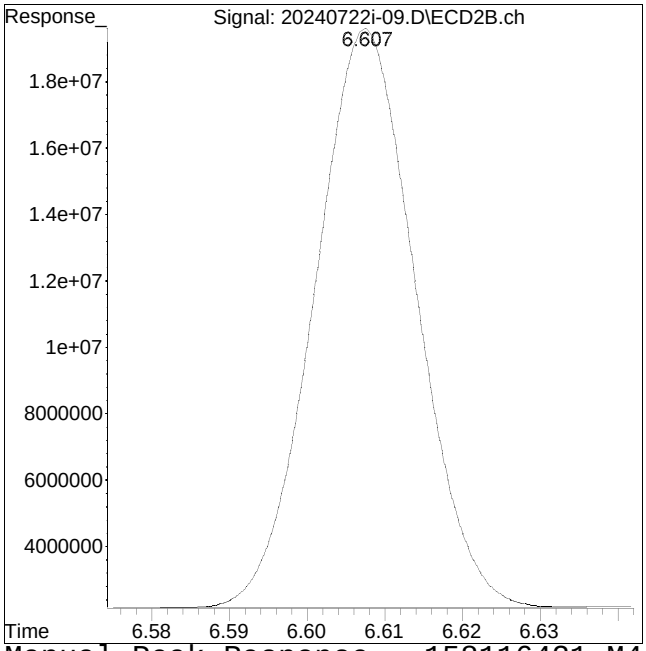
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #63: Endosulfan Sulfate #2



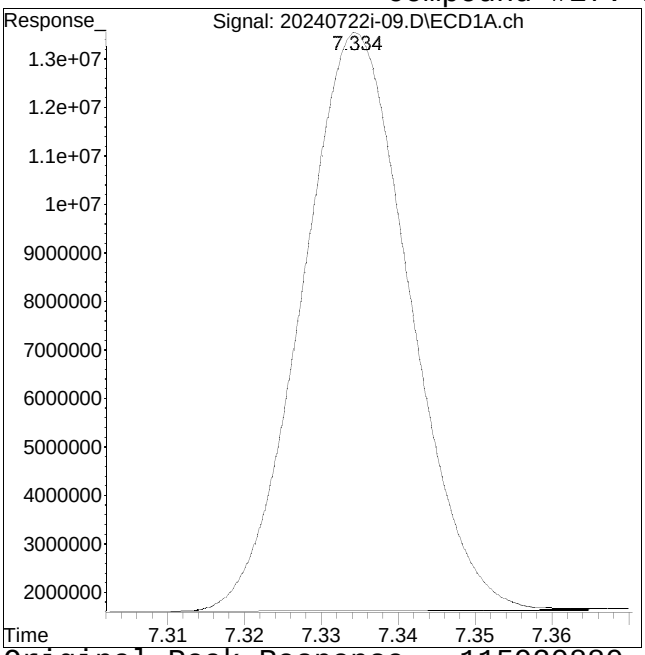


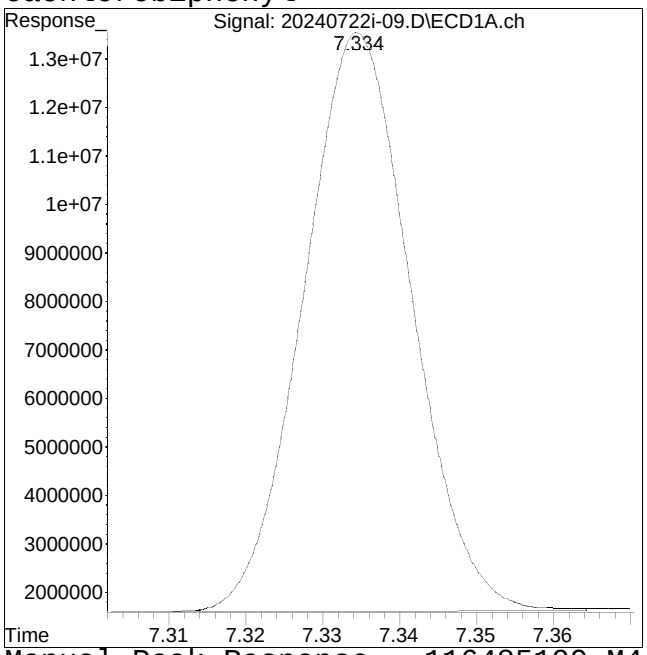
Original Peak Response = 157904561 Manual Peak Response = 158116421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-09.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:24 Instrument : PEST 20
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 7/23/2024 12:21 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 115920880 Manual Peak Response = 116485190 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:36
Operator : pest20:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:31:11 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:27:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.007	2.063	50847371	80468304	25.000	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.472	2.663	233.3E6	364.2E6	100.335M4	100.627
	Spiked Amount	50.000	Range 30 - 150		Recovery =	200.67%#	201.25%#
27) s	Decachlorobi	7.336	7.904	220.6E6	288.9E6	97.089	97.941M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	194.18%#	195.88%#
	Target Compounds						
3)	Hexachlorobe	2.740	3.039	238.7E6	368.5E6	98.281	99.309
4)	alpha-BHC	2.863	3.152	313.5E6	500.7E6	102.188	103.376M4
5)	gamma-BHC (l	3.107	3.476	282.6E6	452.7E6	101.358	102.659M4
6)	beta-BHC	3.173	3.550	130.0E6	204.9E6	98.220M4	99.043M3
7)	delta-BHC	3.324	3.847	285.4E6	459.3E6	101.992	103.406M4
8)	Heptachlor	3.512	3.917	269.0E6	418.0E6	99.893M3	101.587M4
9)	Aldrin	3.791	4.267	264.1E6	395.2E6	101.155M4	102.410
10)	Alachlor	3.933	4.140	40021571	54767498	92.968M4	93.951
11)	Chlorpyrifos	4.033	4.524	119.3E6	191.4E6	93.891	95.221
12)	Heptachlor E	4.407	4.929	241.7E6	372.3E6	99.443M4	100.642M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:36
Operator : pest20:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:31:11 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:27:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	gamma-Chlord	4.543	5.140	220.4E6	328.7E6	99.899M4	101.259M4
14)	alpha-Chlord	4.693	5.296	248.2E6	365.6E6	99.478	100.917
15)	4,4'-DDE	4.794	5.474	255.2E6	372.8E6	101.196M4	102.525M4
16)	Endosulfan I	4.845	5.354	228.8E6	343.0E6	99.563M4	101.147
17)	Dieldrin	5.108	5.628	240.4E6	359.0E6	100.574	102.449
18)	Endrin	5.344	5.911	240.9E6	365.8E6	100.297M4	102.251
19)	4,4'-DDD	5.433	6.017	204.4E6	304.5E6	100.632M4	102.361M4
20)	Endosulfan I	5.566	6.100	211.5E6	323.8E6	99.681	101.026M4
21)	4,4'-DDT	5.704	6.285	220.2E6	338.5E6	99.800M4	101.418M4
22)	Endrin Aldeh	5.958	6.385	183.0E6	277.0E6	100.092	101.531M4
23)	Methoxychlor	6.154	6.832	121.4E6	180.4E6	96.323	97.812M4
24)	Mirex	6.233	6.988	184.6E6	261.3E6	96.482M3	97.413M4
25)	Endosulfan S	6.333	6.607	199.7E6	311.0E6	99.228M3	100.305M4
26)	Endrin Keton	6.556	7.019	229.5E6	354.3E6	99.160	100.312M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:36
Operator : pest20:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:31:11 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:27:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

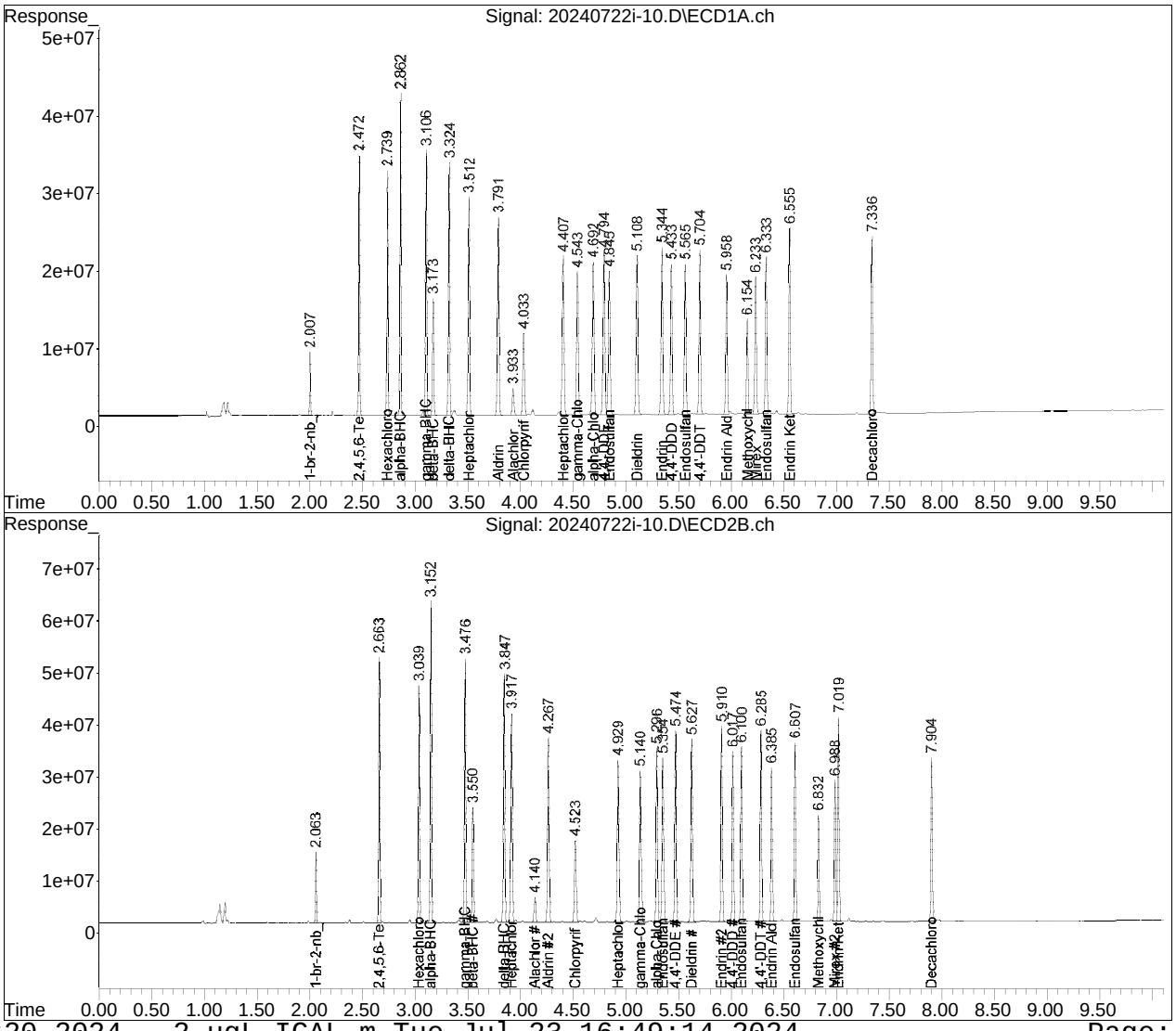
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:36
Operator : pest20:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:31:11 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:27:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

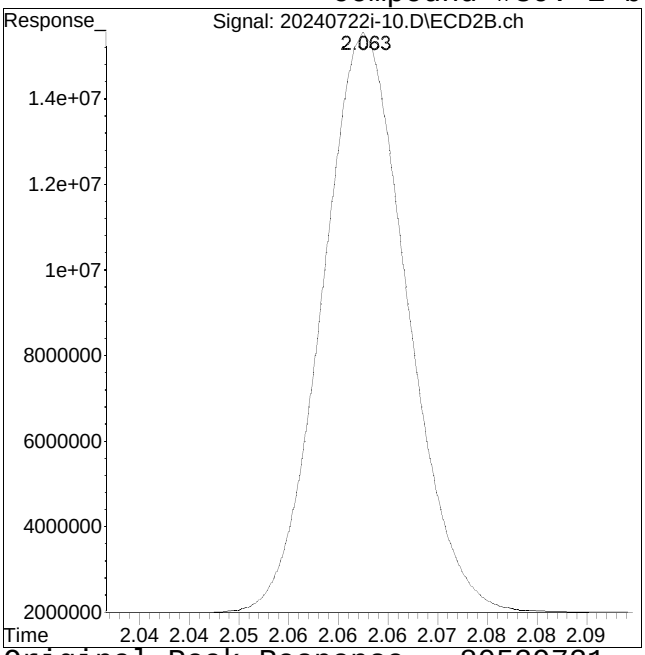


Manual Integration Report

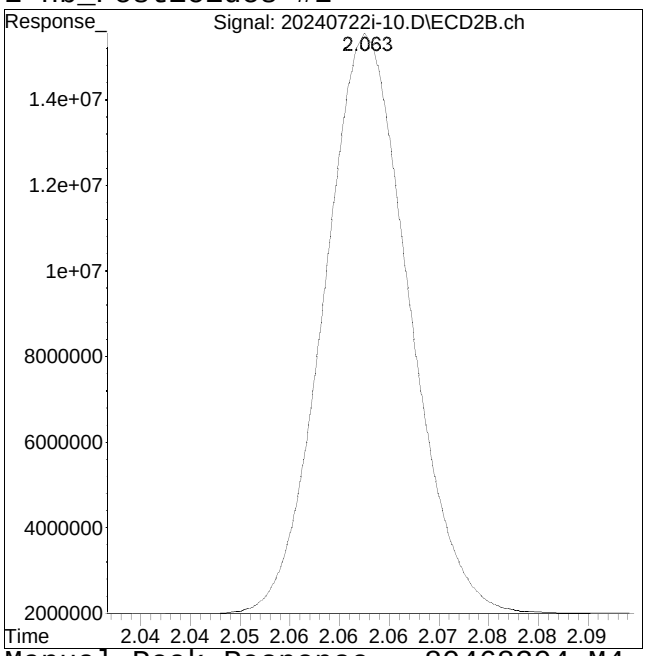
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 80539731



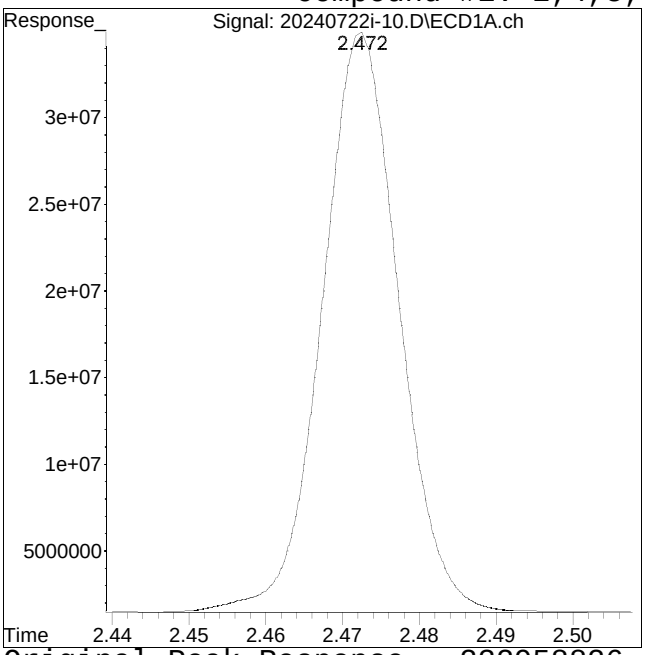
Manual Peak Response = 80468304 M4

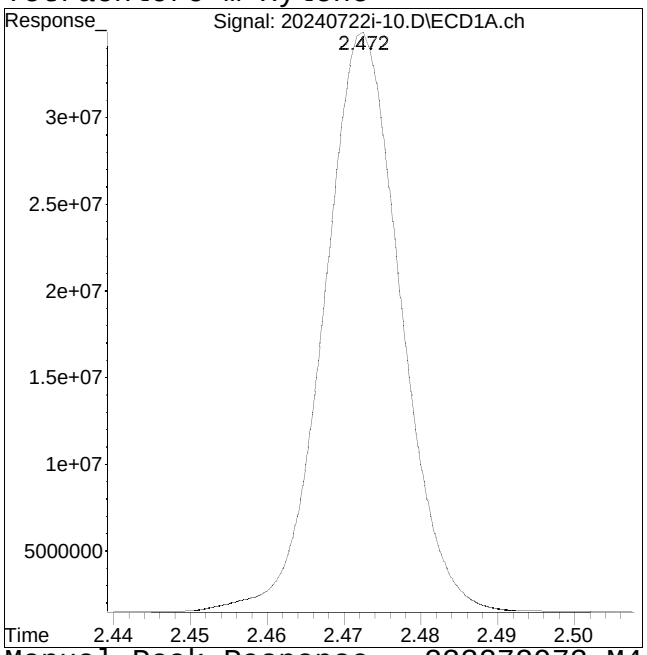
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



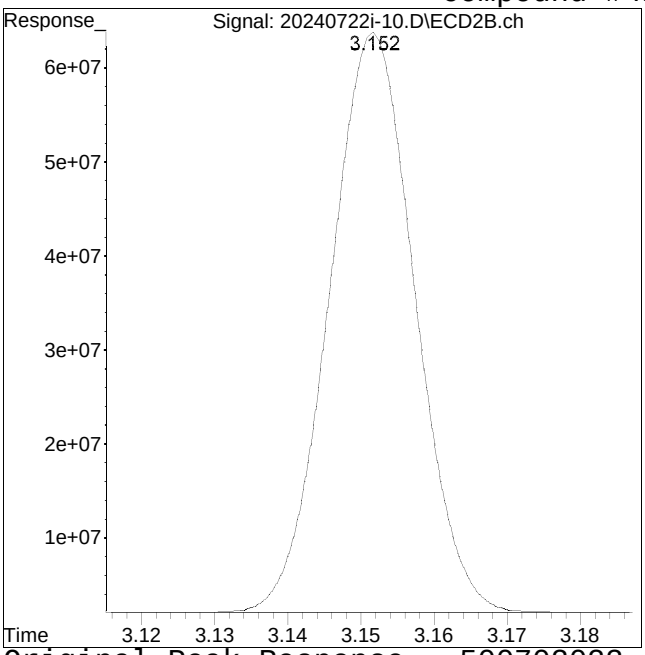


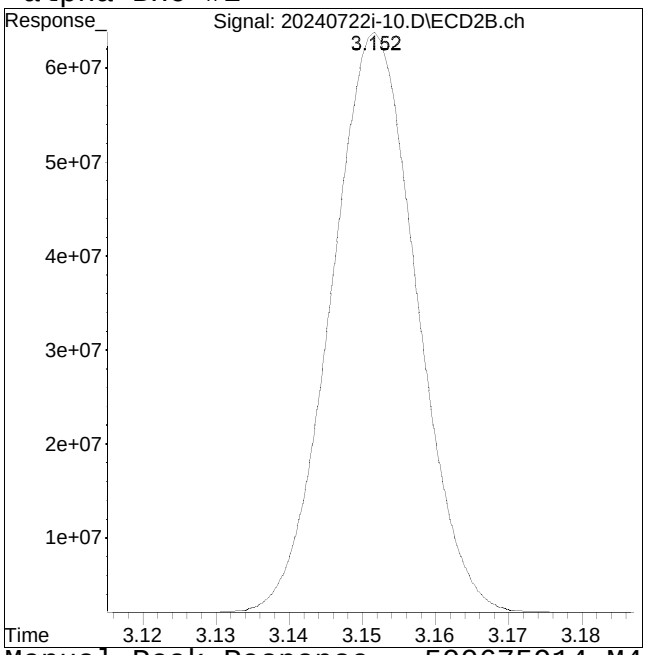
Original Peak Response = 232958826 Manual Peak Response = 233272973 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #42: alpha-BHC #2



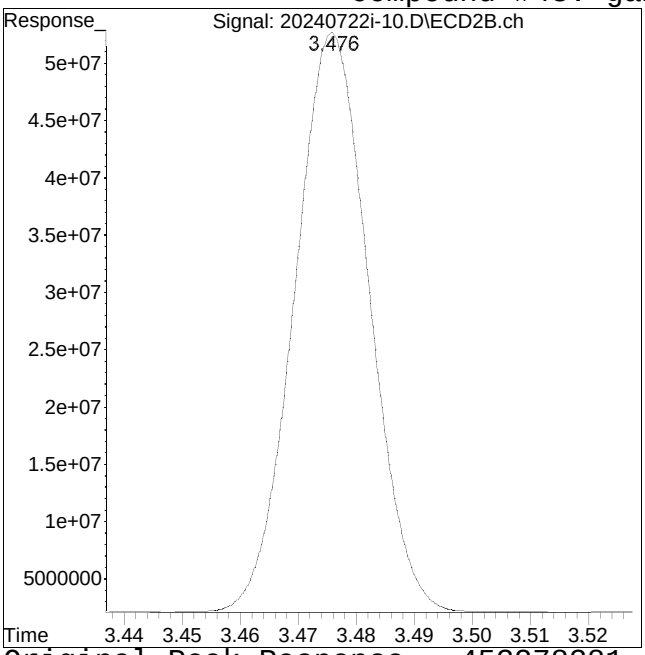


Original Peak Response = 500702023 Manual Peak Response = 500675914 M4
M4 = Poor automated baseline construction.

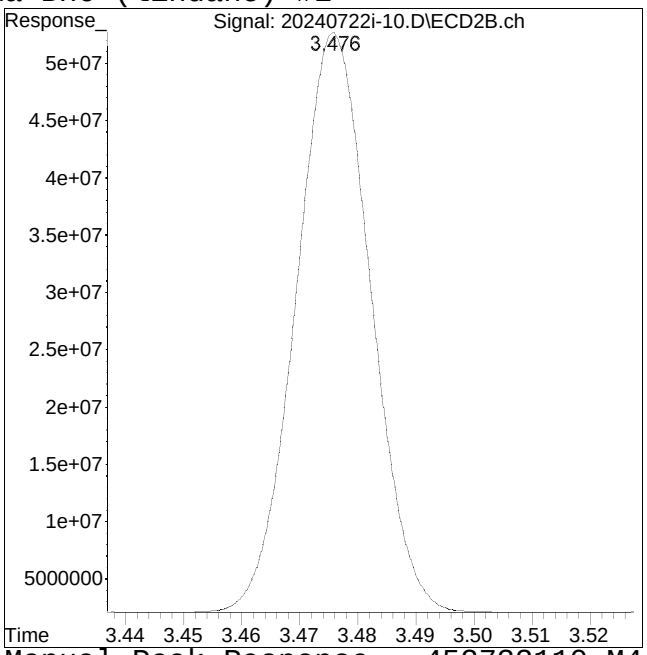
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 453278381



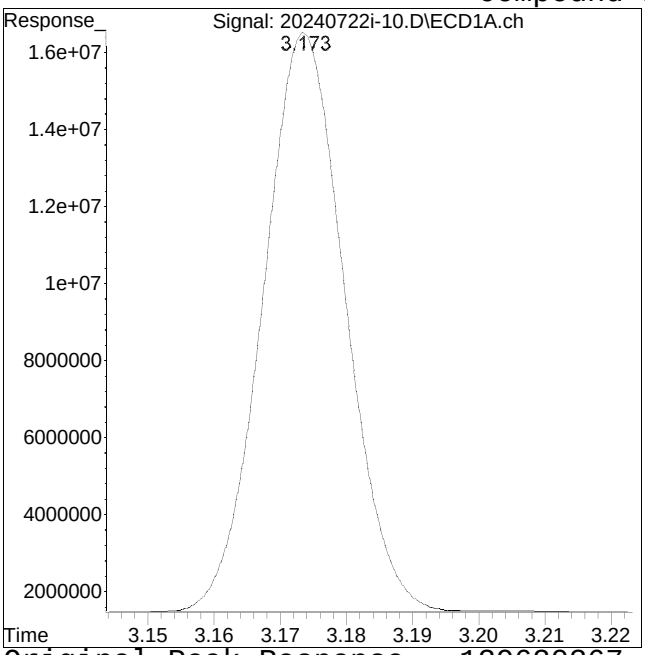
Manual Peak Response = 452733110 M4

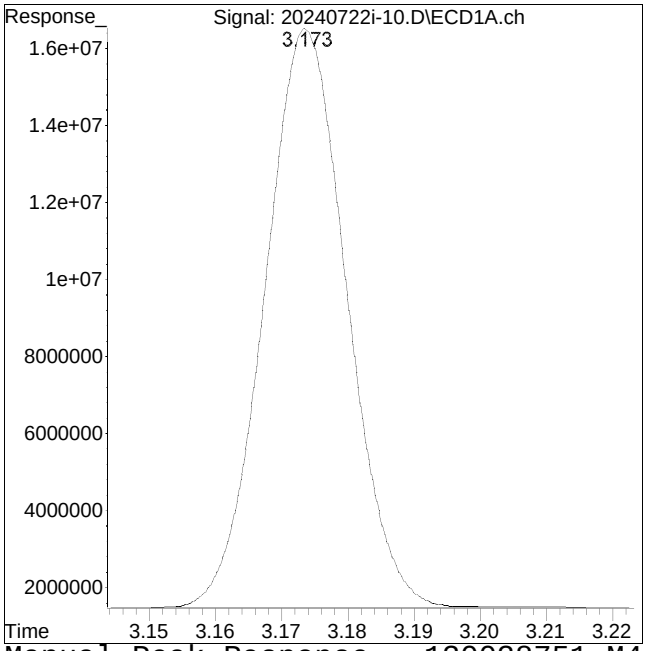
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #6: beta-BHC



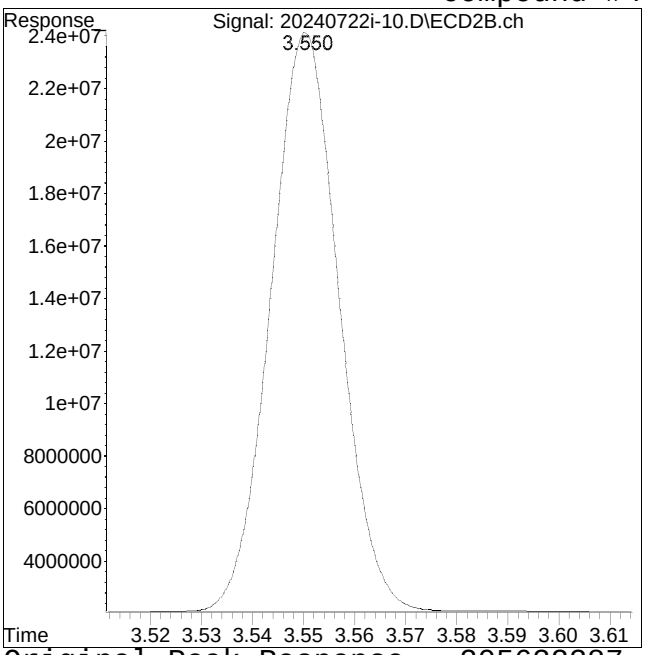


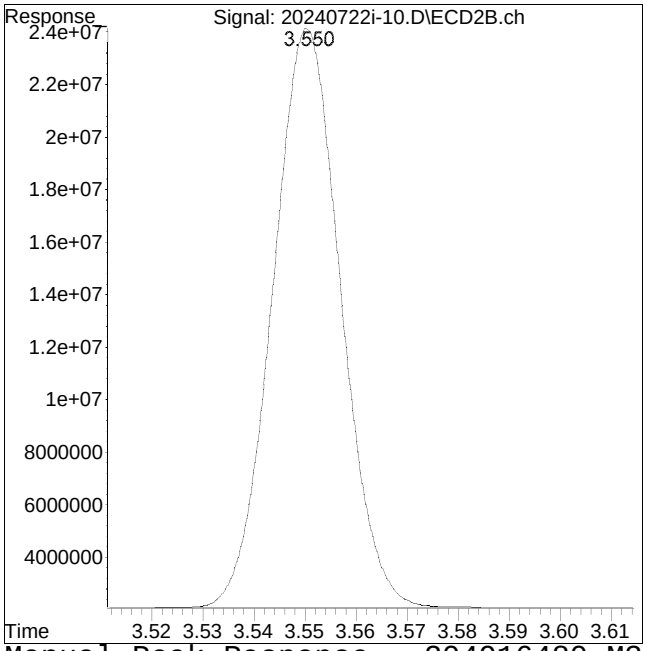
Original Peak Response = 129620367 Manual Peak Response = 130038751 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #44: beta-BHC #2





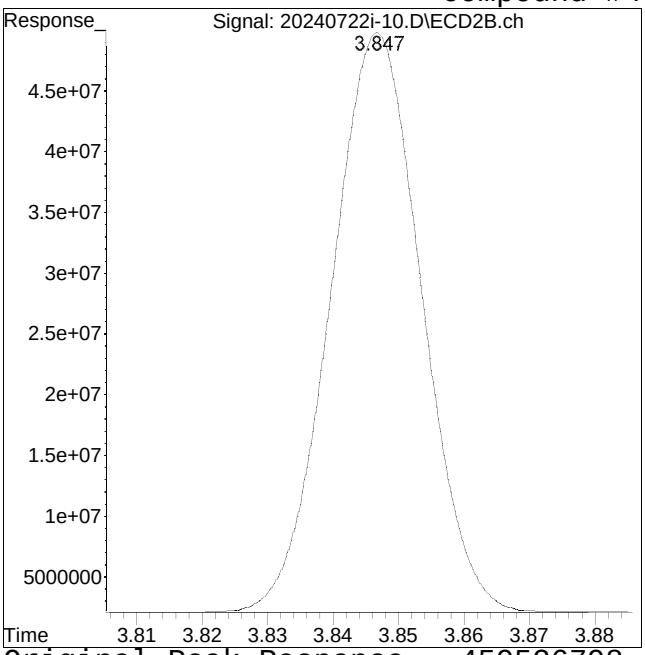
Original Peak Response = 205632387 Manual Peak Response = 204916480 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

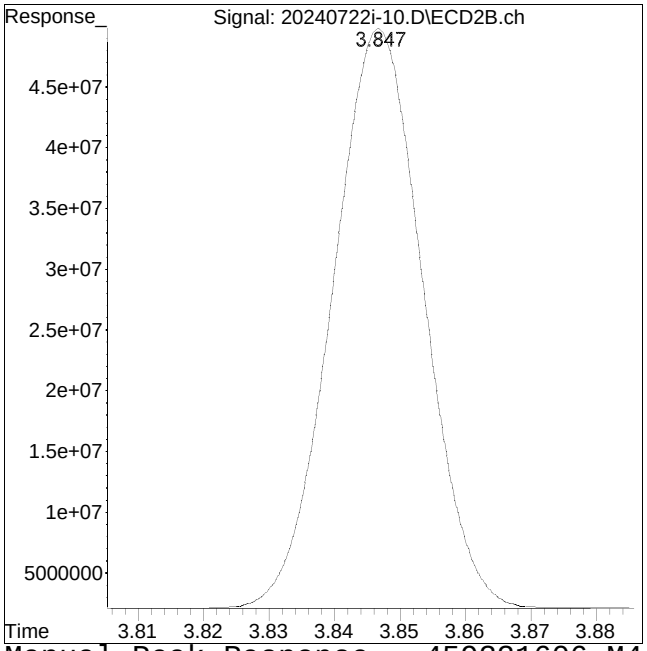
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #45: delta-BHC #2



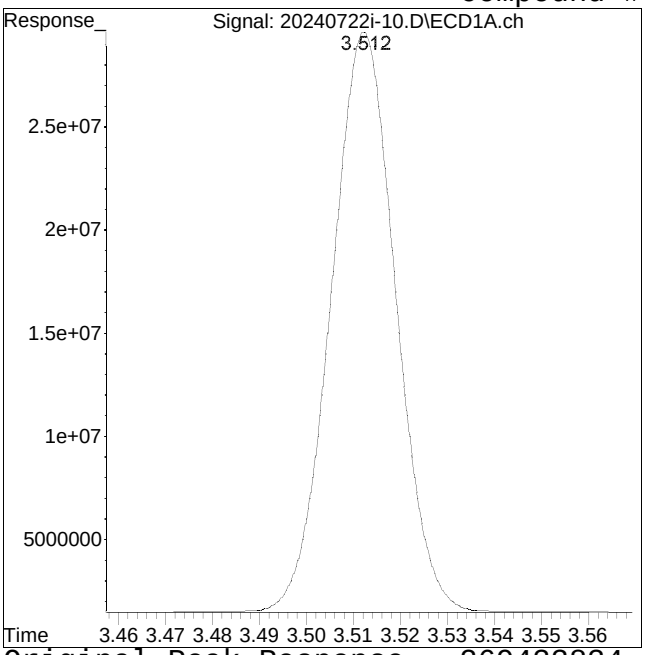


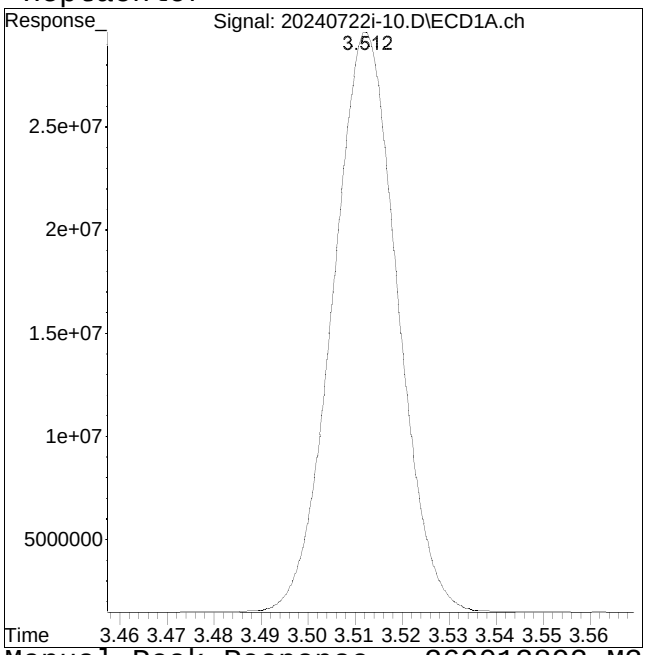
Original Peak Response = 459526798 Manual Peak Response = 459331606 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #8: Heptachlor



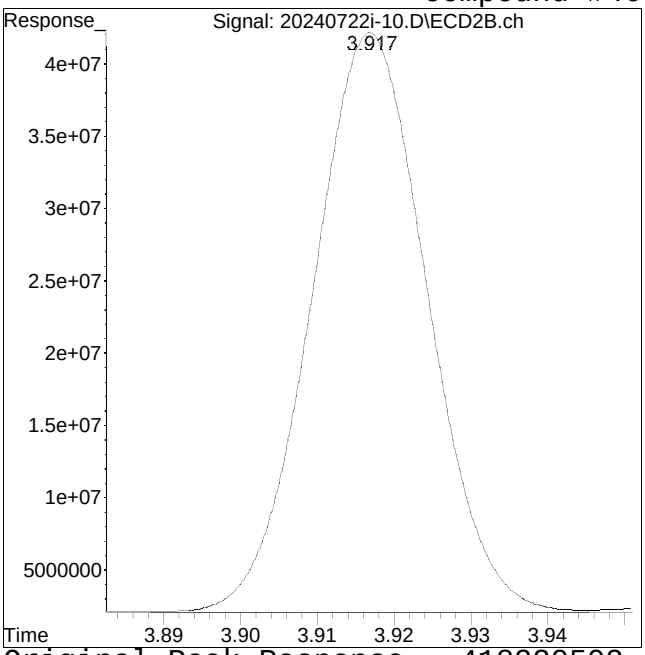


Original Peak Response = 269433834 Manual Peak Response = 269012892 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

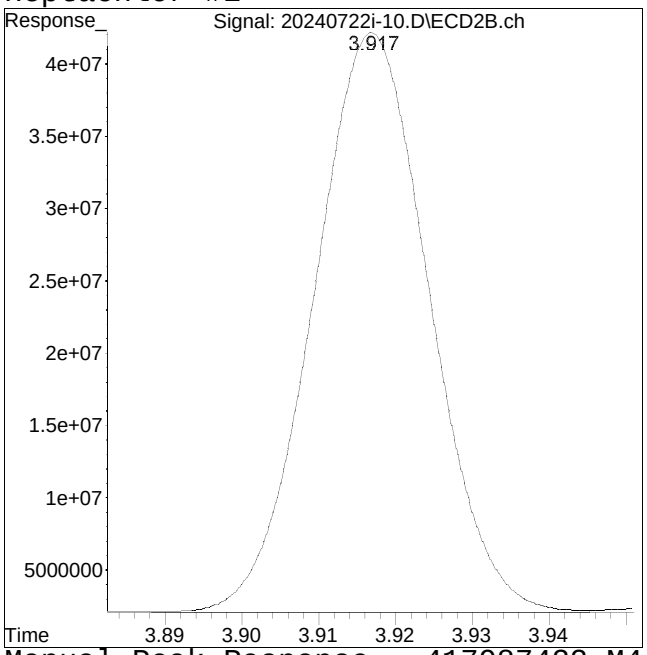
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #46: Heptachlor #2



Original Peak Response = 418220502



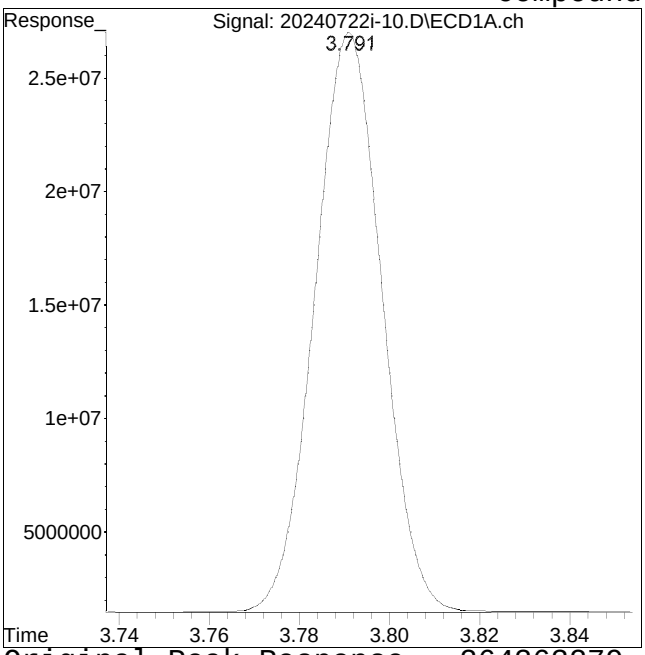
Manual Peak Response = 417987422 M4

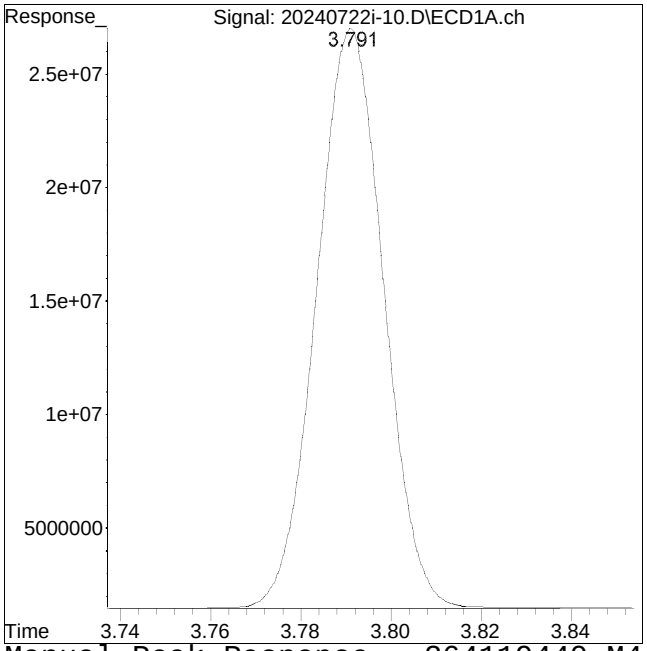
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #9: Aldrin





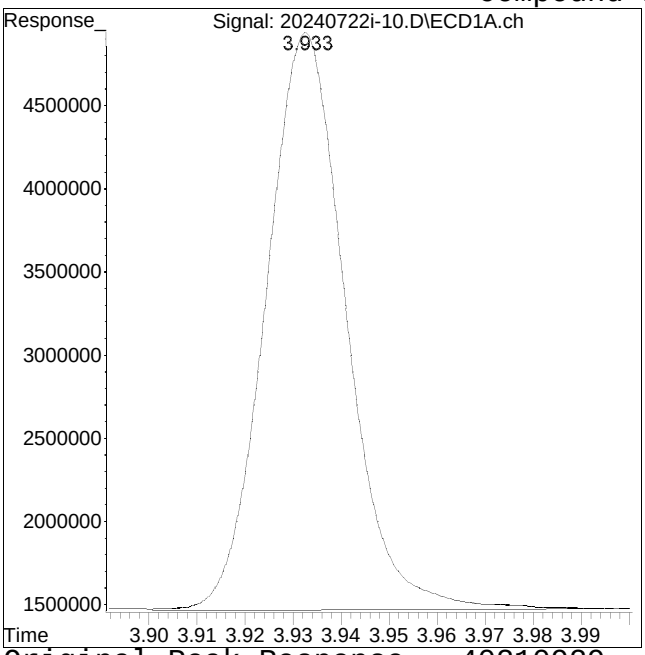
Original Peak Response = 264363279 Manual Peak Response = 264119440 M4
M4 = Poor automated baseline construction.

Manual Integration Report

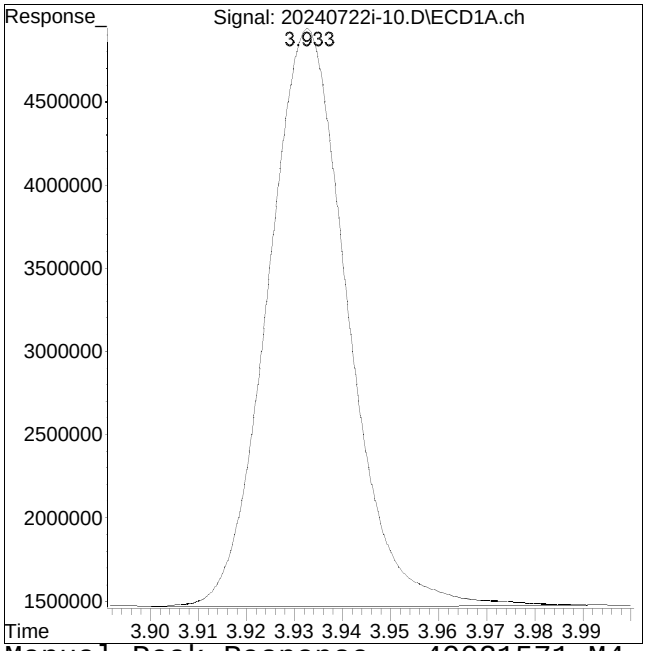
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #10: Alachlor



Original Peak Response = 40210929



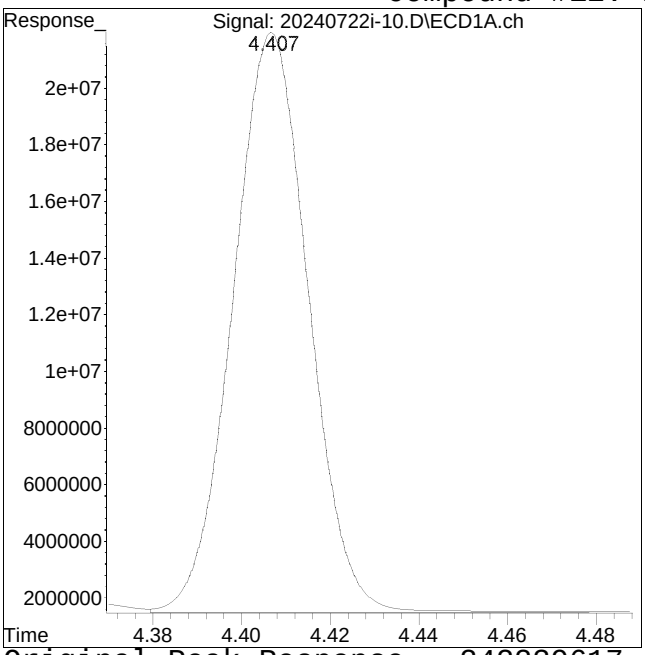
Manual Peak Response = 40021571 M4

M4 = Poor automated baseline construction.

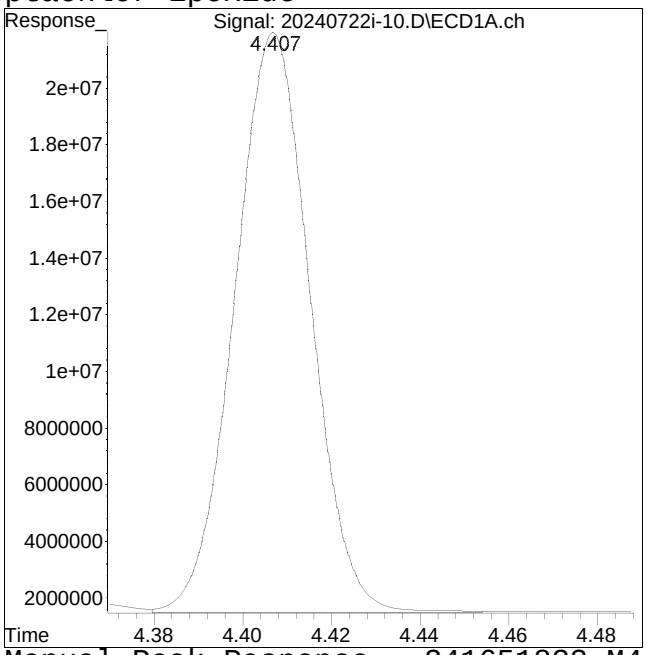
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 242239617



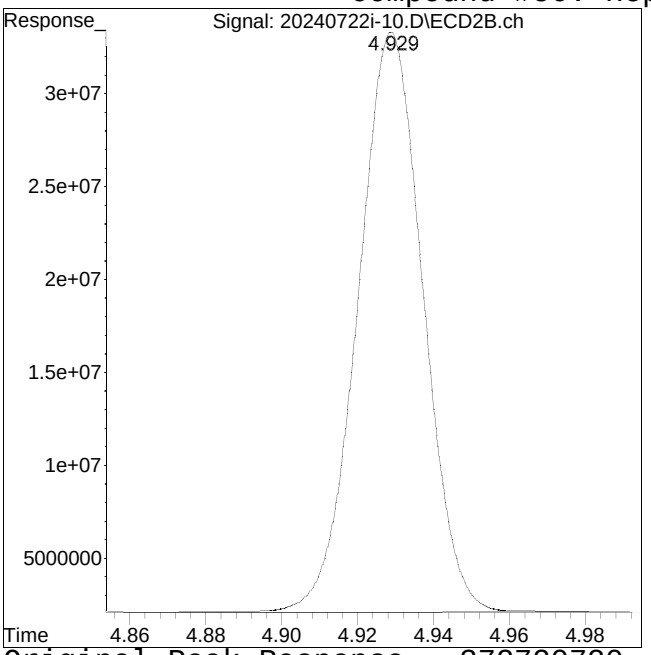
Manual Peak Response = 241651833 M4

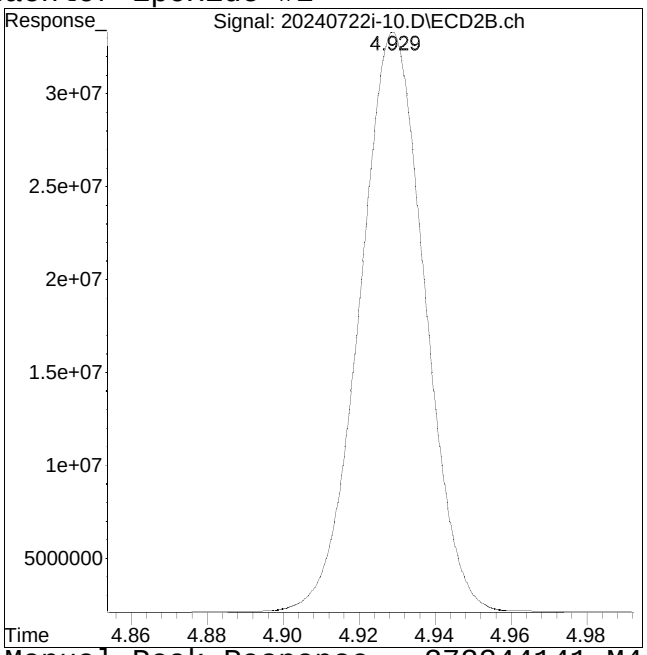
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #50: Heptachlor Epoxide #2





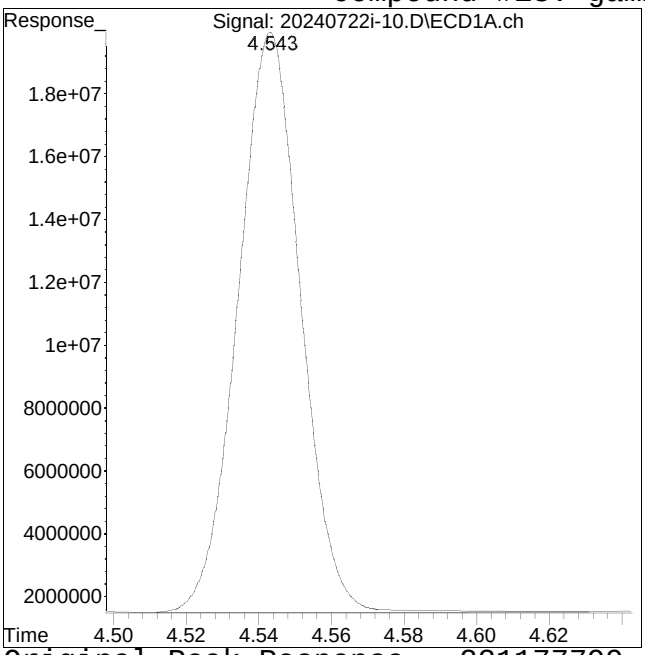
Original Peak Response = 372720720 Manual Peak Response = 372344141 M4
M4 = Poor automated baseline construction.

Manual Integration Report

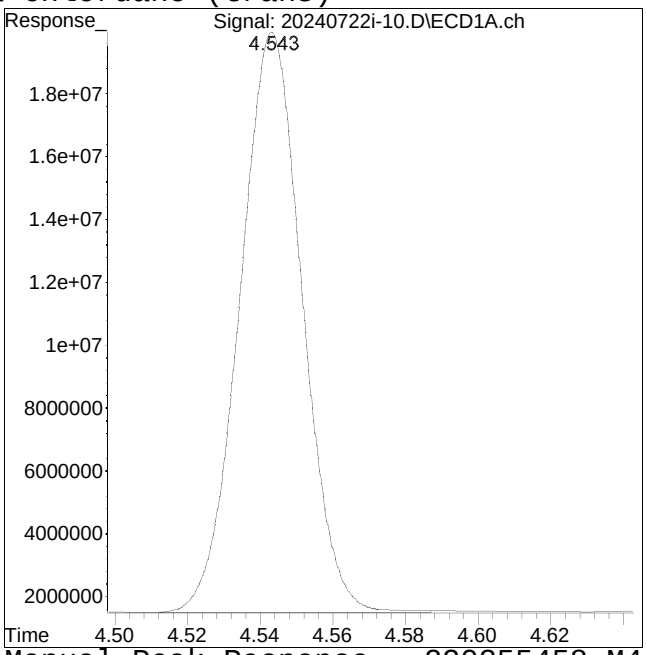
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 221177799



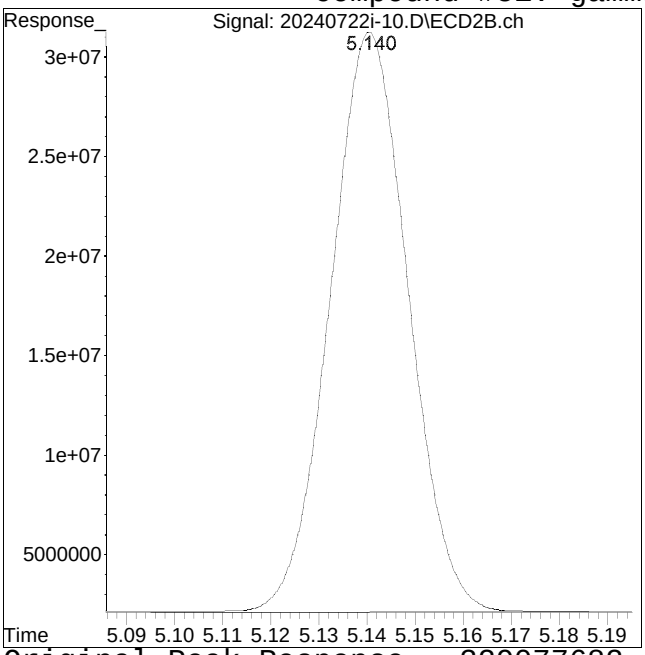
Manual Peak Response = 220355458 M4

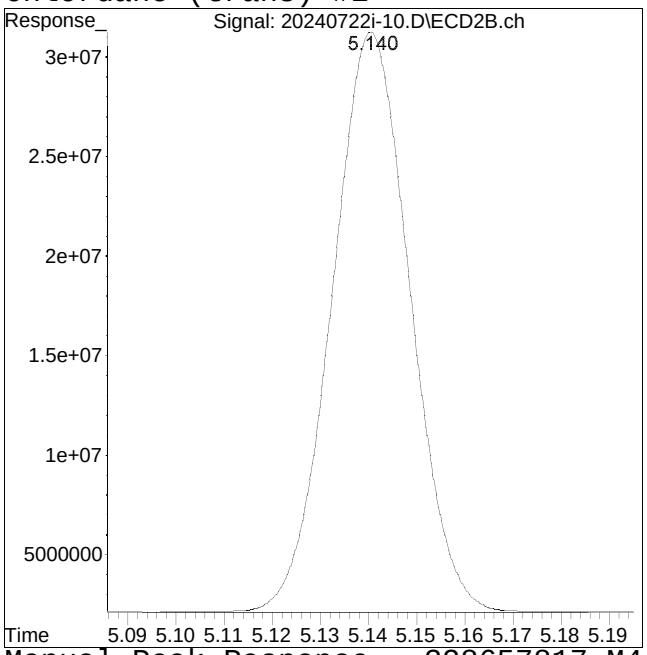
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #51: gamma-Chlordane (trans) #2





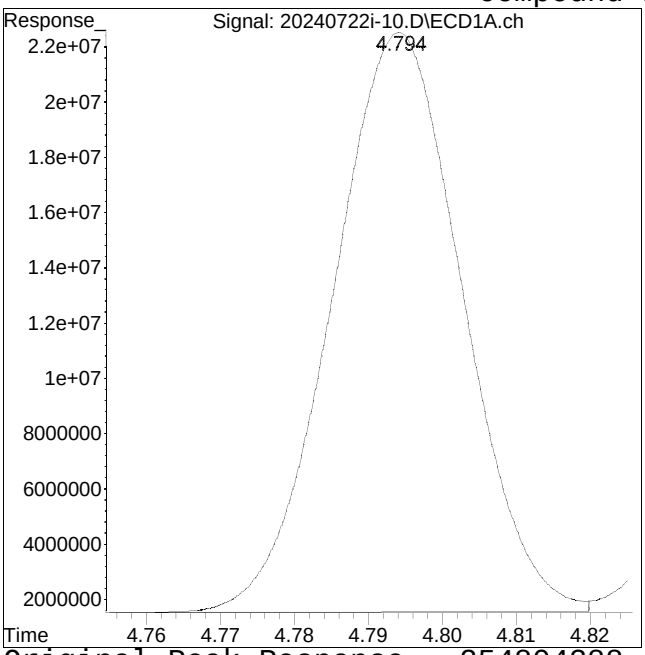
Original Peak Response = 329077682 Manual Peak Response = 328657817 M4
M4 = Poor automated baseline construction.

Manual Integration Report

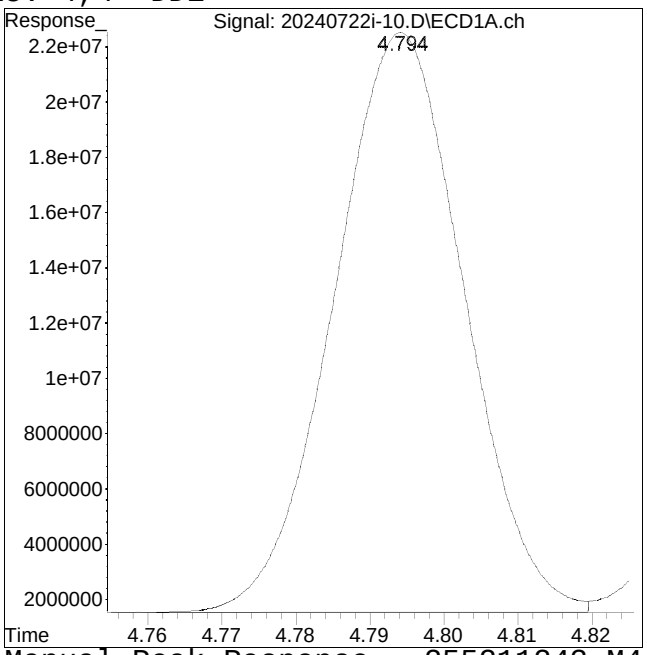
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #15: 4,4'-DDE



Original Peak Response = 254804388



Manual Peak Response = 255211243 M4

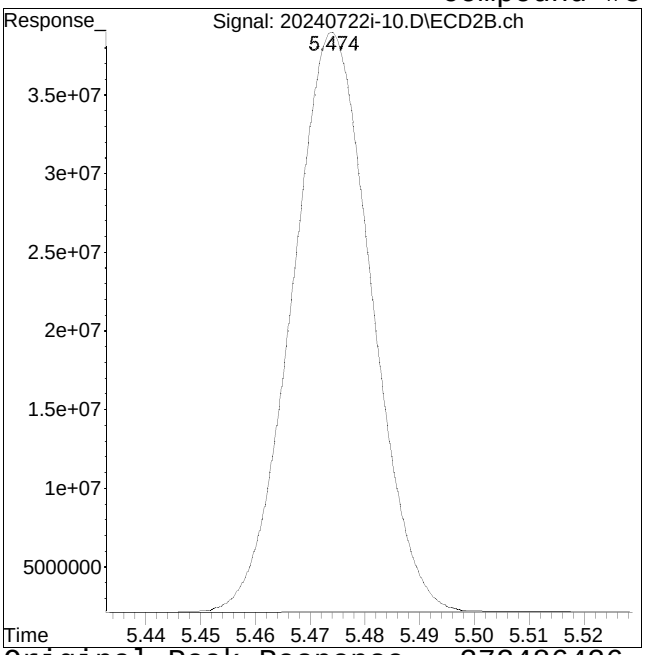
M4 = Poor automated baseline construction.

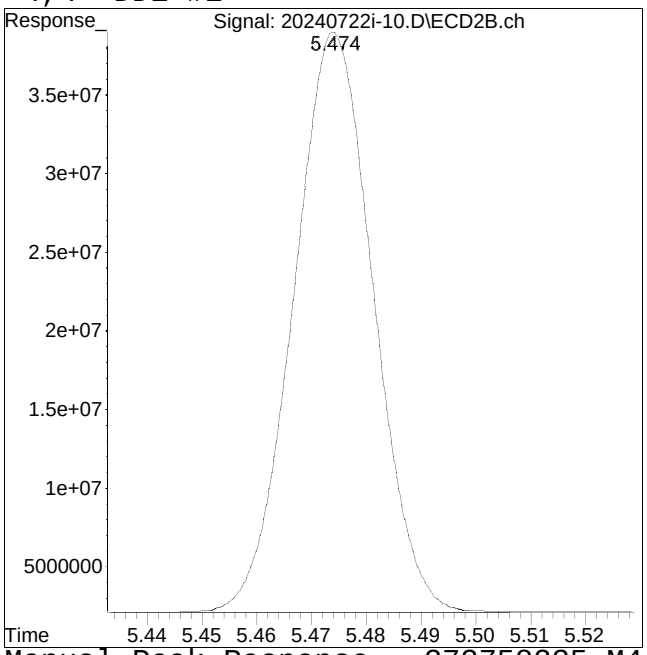
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #53: 4,4'-DDE #2





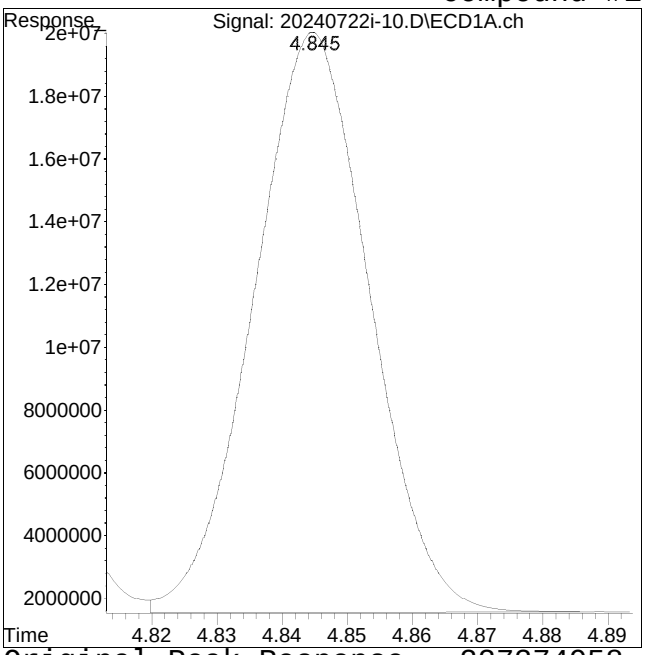
Original Peak Response = 372486426 Manual Peak Response = 372758235 M4
M4 = Poor automated baseline construction.

Manual Integration Report

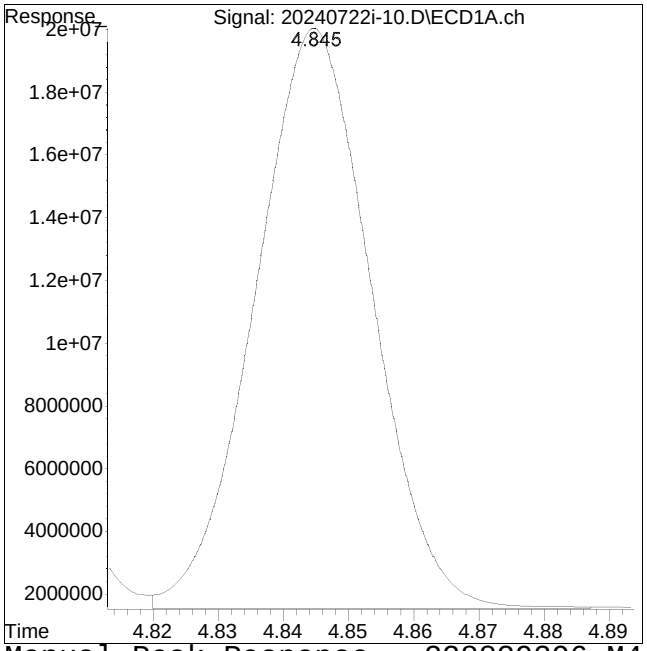
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #16: Endosulfan I



Original Peak Response = 227374958



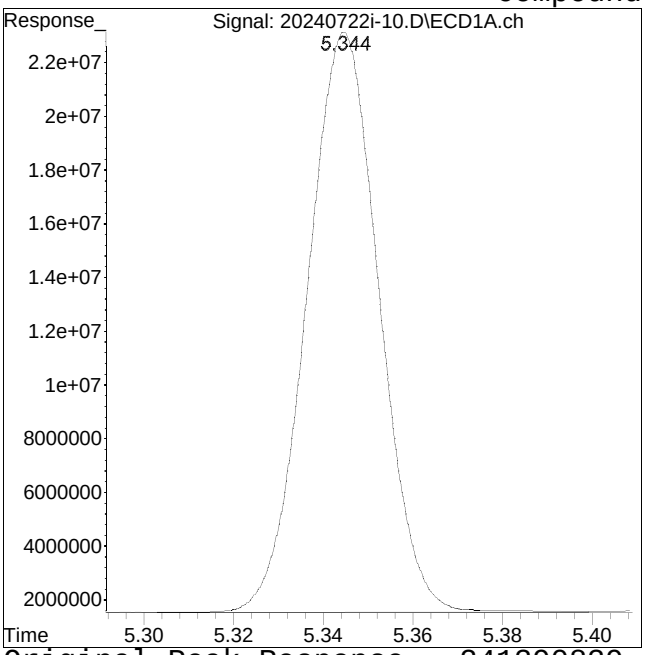
Manual Peak Response = 228839296 M4

M4 = Poor automated baseline construction.

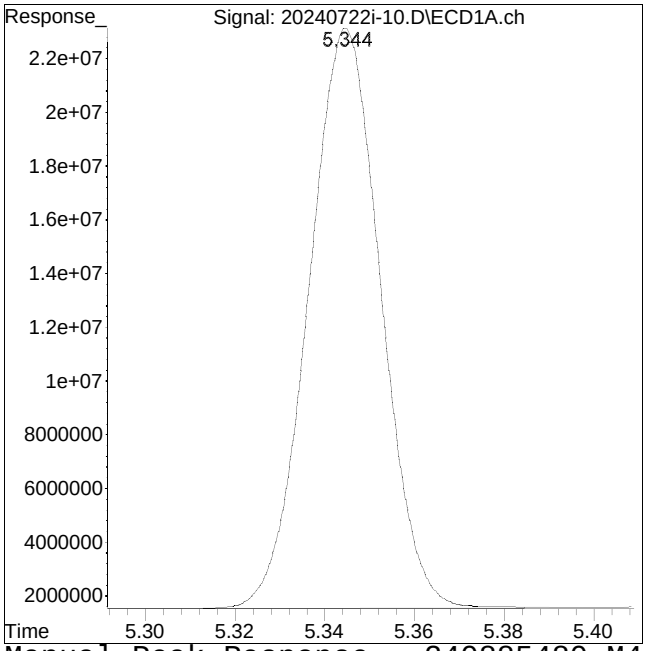
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #18: Endrin



Original Peak Response = 241390839



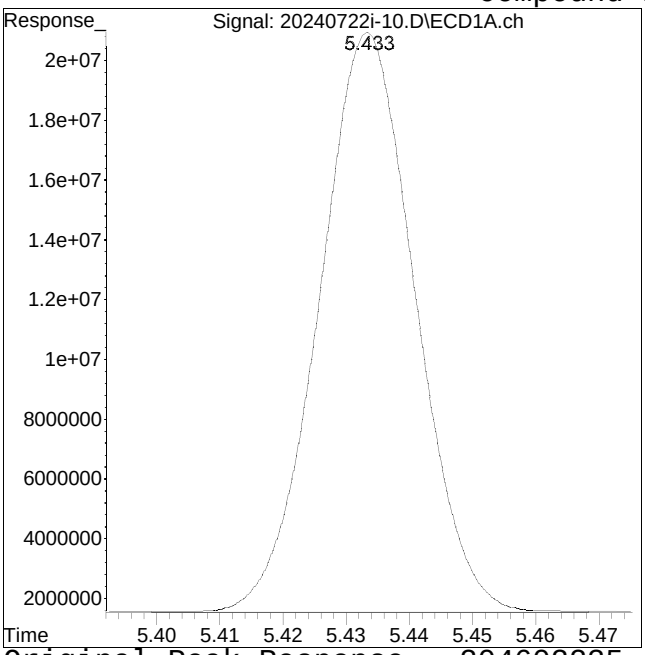
Manual Peak Response = 240885480 M4

M4 = Poor automated baseline construction.

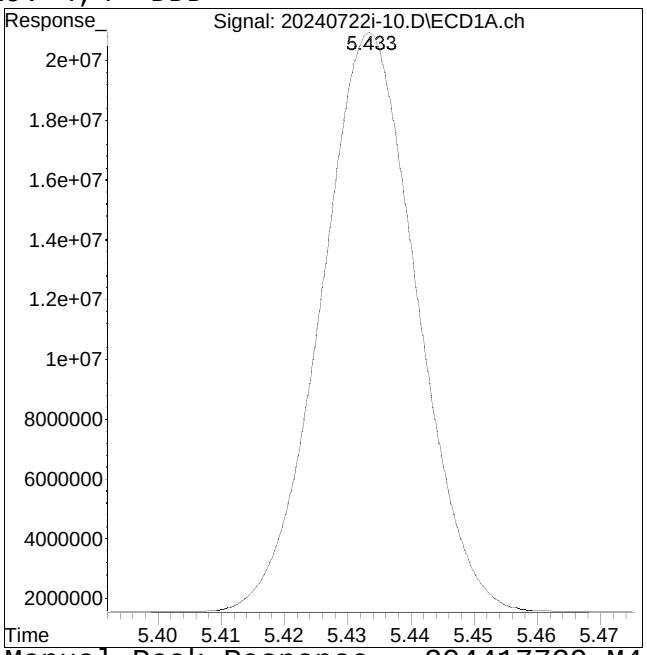
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #19: 4,4'-DDD



Original Peak Response = 204602235



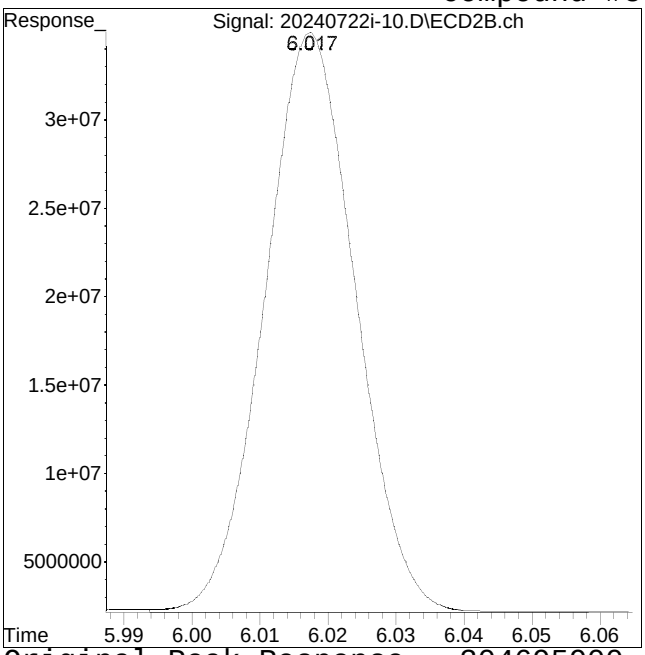
Manual Peak Response = 204417729 M4

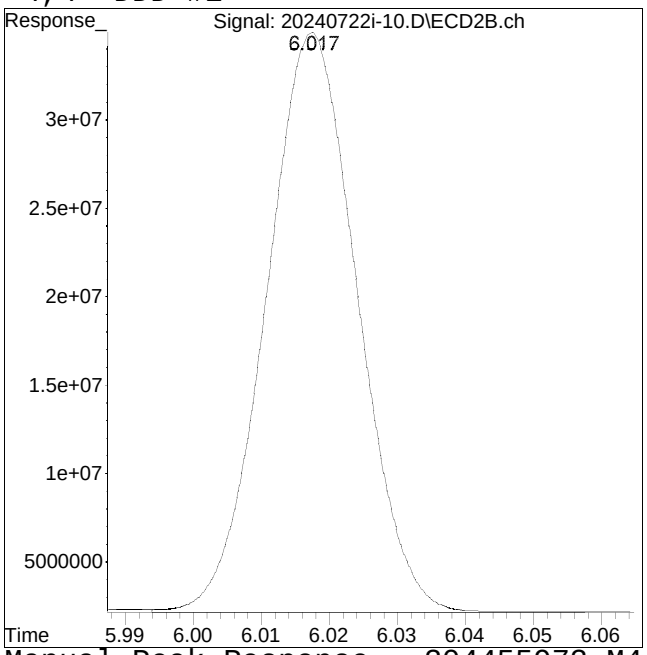
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #57: 4,4'-DDD #2





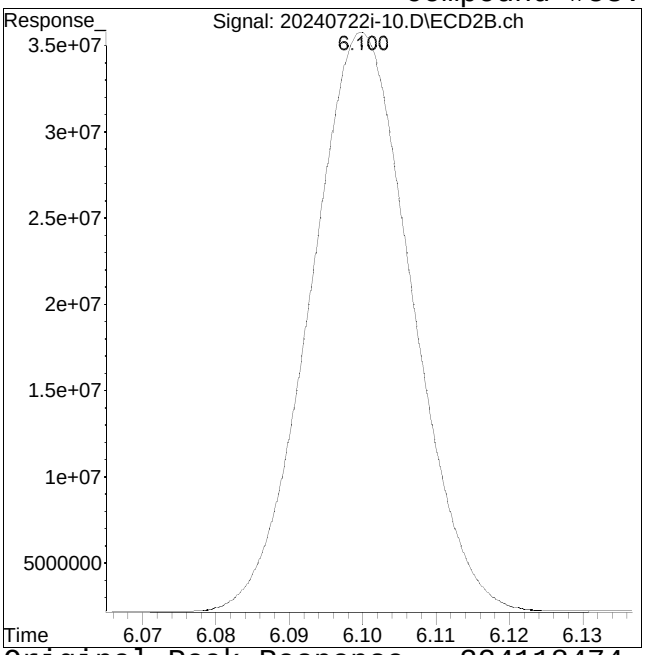
Original Peak Response = 304695900 Manual Peak Response = 304455973 M4
M4 = Poor automated baseline construction.

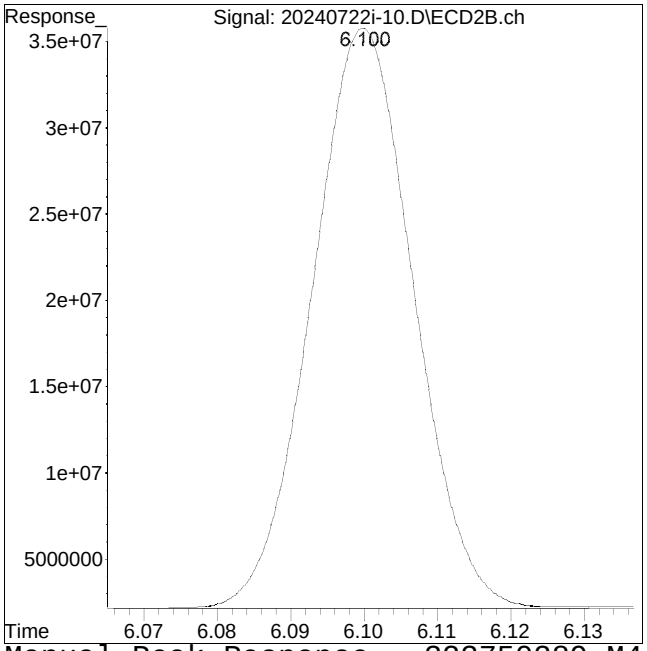
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #58: Endosulfan II #2





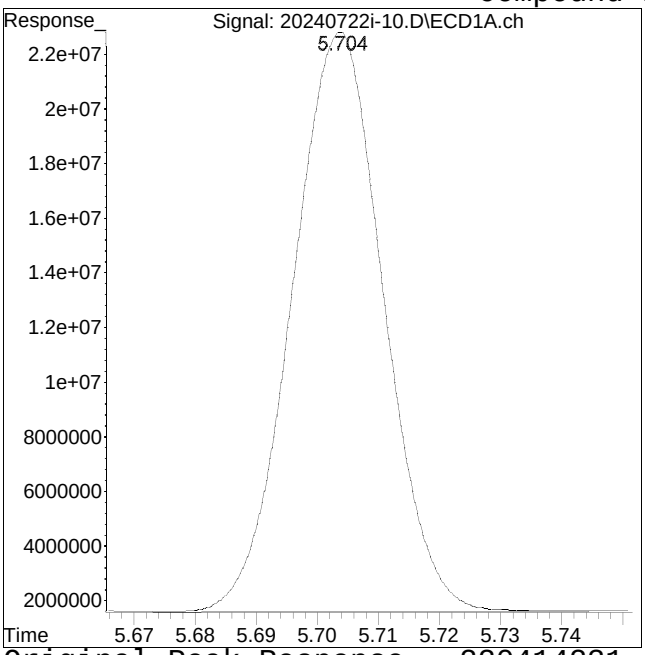
Original Peak Response = 324118474 Manual Peak Response = 323750289 M4
M4 = Poor automated baseline construction.

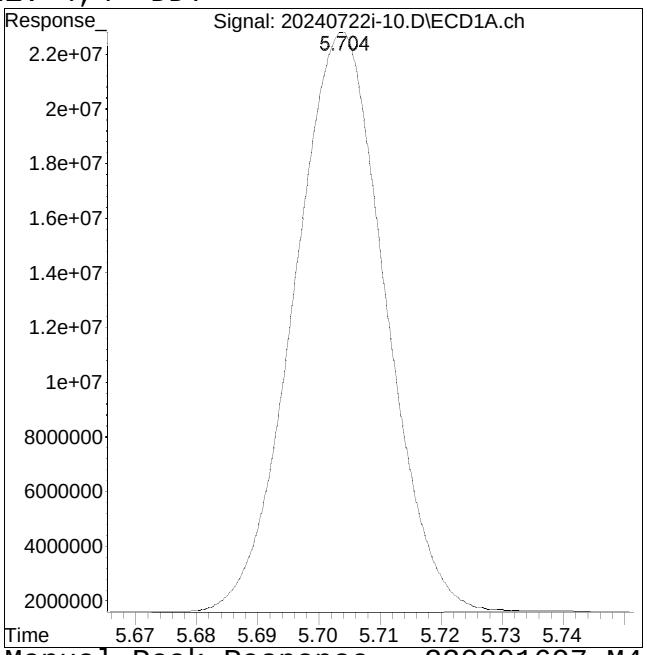
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #21: 4,4'-DDT



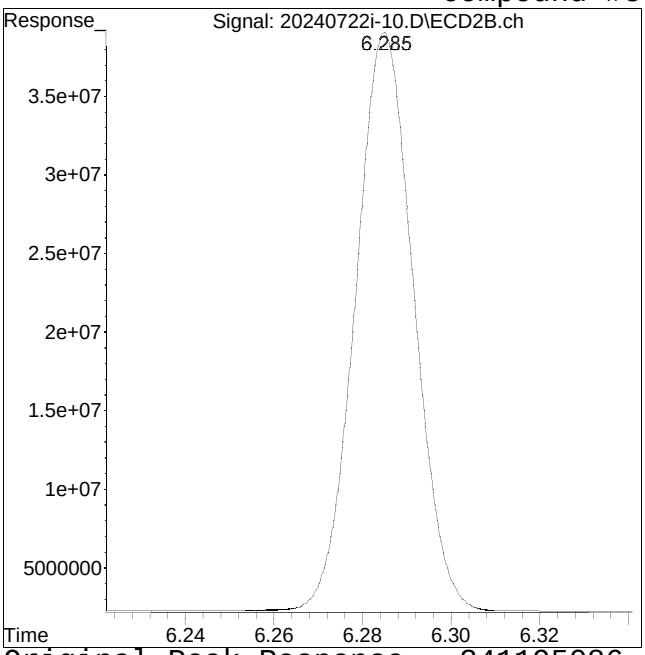


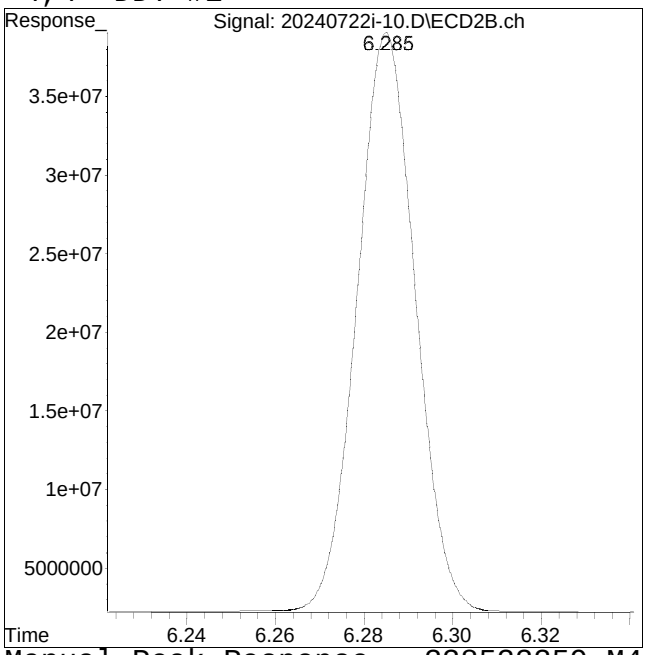
Original Peak Response = 220414231 Manual Peak Response = 220201697 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-10.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:36 Instrument : PEST 20
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 7/23/2024 12:31 pm

Compound #59: 4,4'-DDT #2





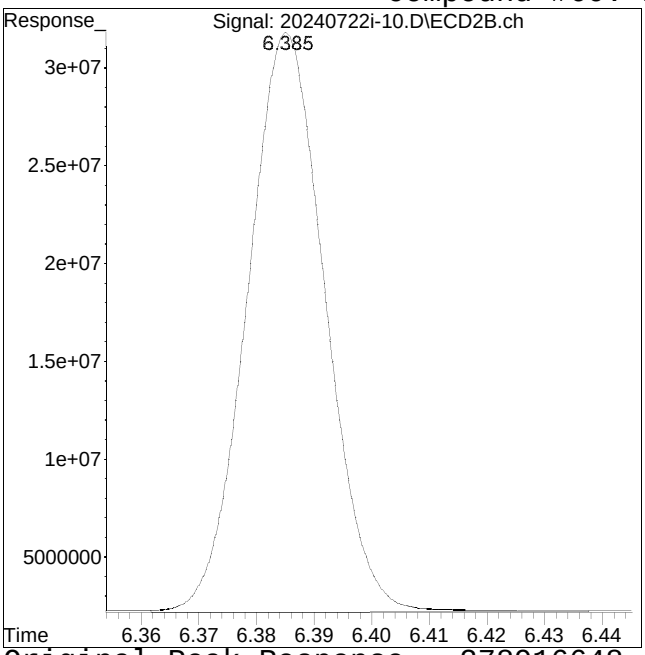
Original Peak Response = 341195086 Manual Peak Response = 338533359 M4
M4 = Poor automated baseline construction.

Manual Integration Report

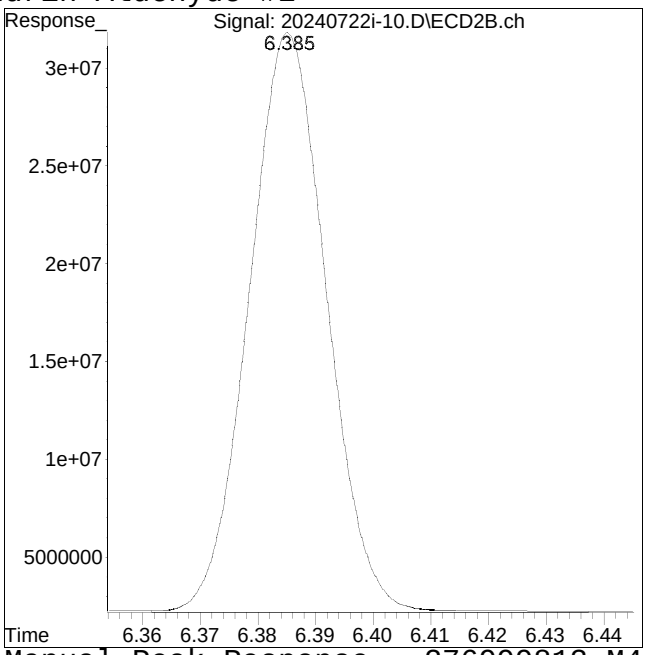
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 278916648



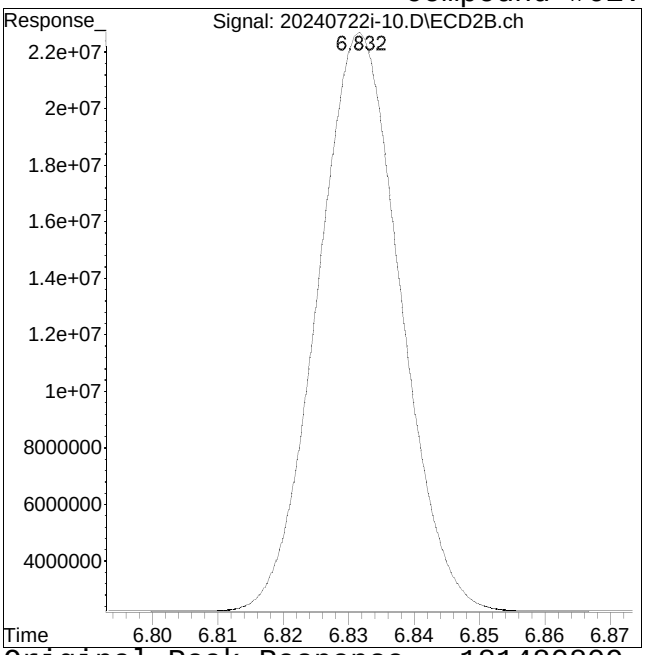
Manual Peak Response = 276999813 M4

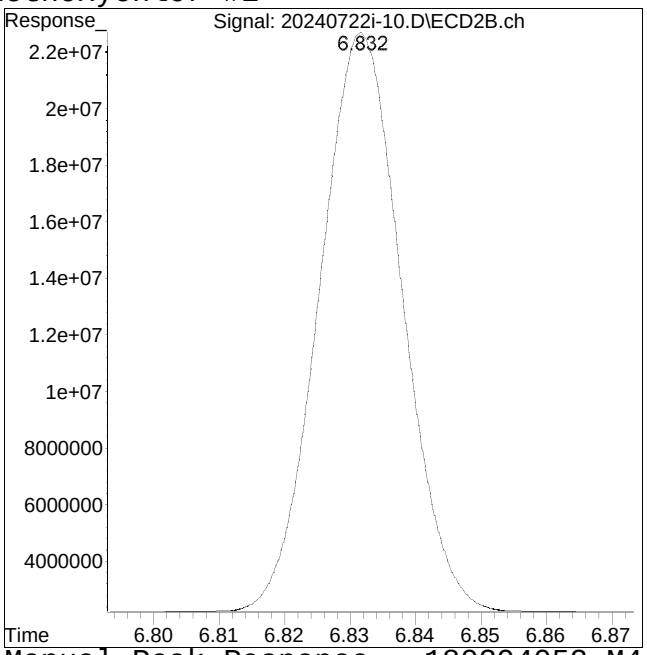
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #61: Methoxychlor #2





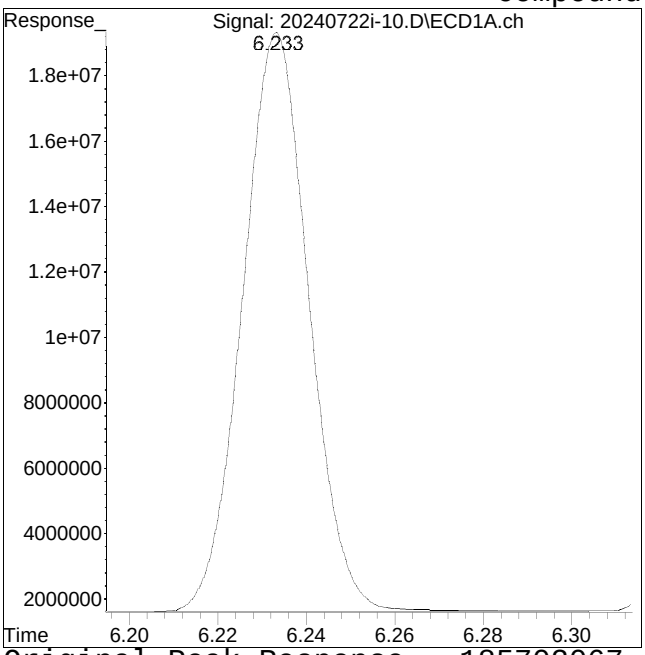
Original Peak Response = 181480809 Manual Peak Response = 180394052 M4
M4 = Poor automated baseline construction.

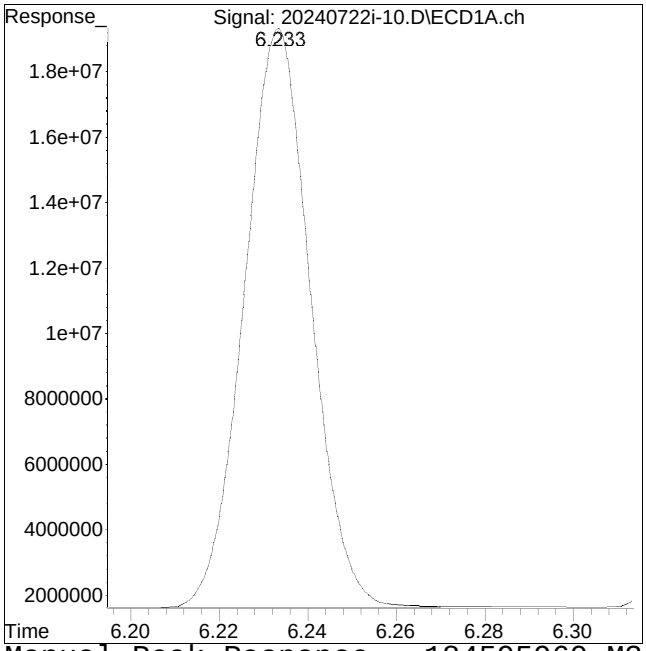
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #24: Mirex





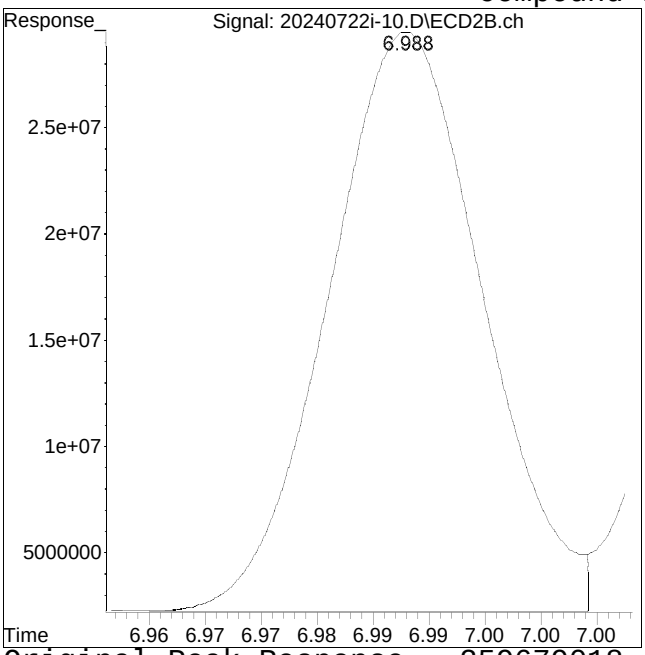
Original Peak Response = 185702067 Manual Peak Response = 184595960 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

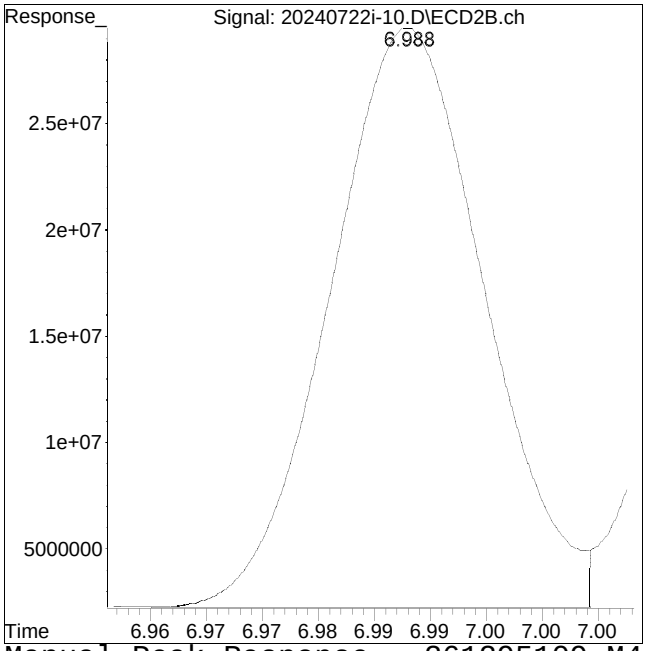
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #62: Mirex #2





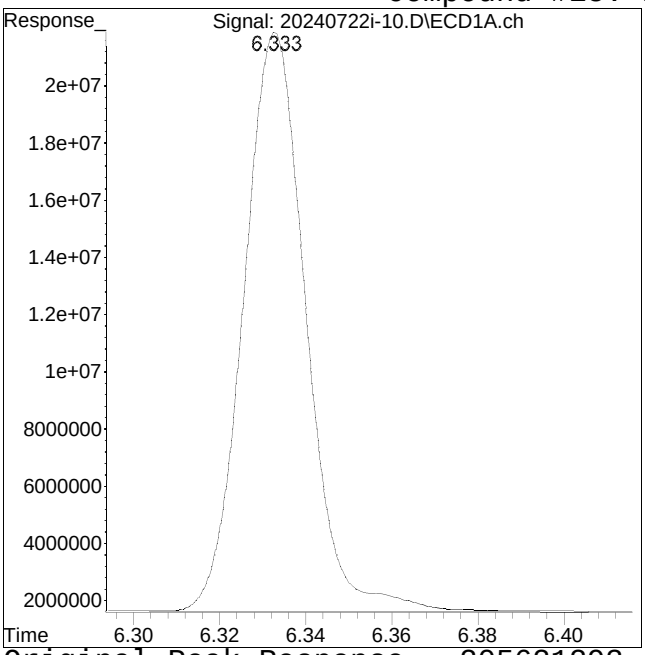
Original Peak Response = 259679018 Manual Peak Response = 261295109 M4
M4 = Poor automated baseline construction.

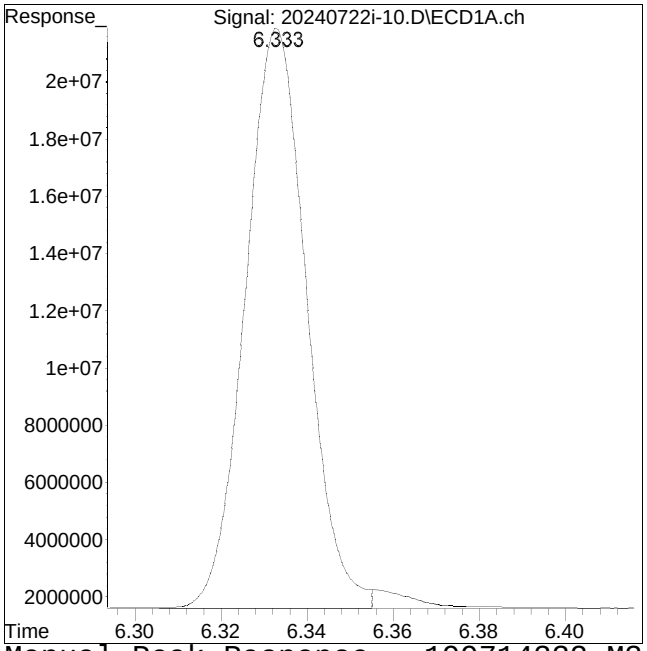
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #25: Endosulfan Sulfate





Original Peak Response = 205621293 Manual Peak Response = 199714332 M3

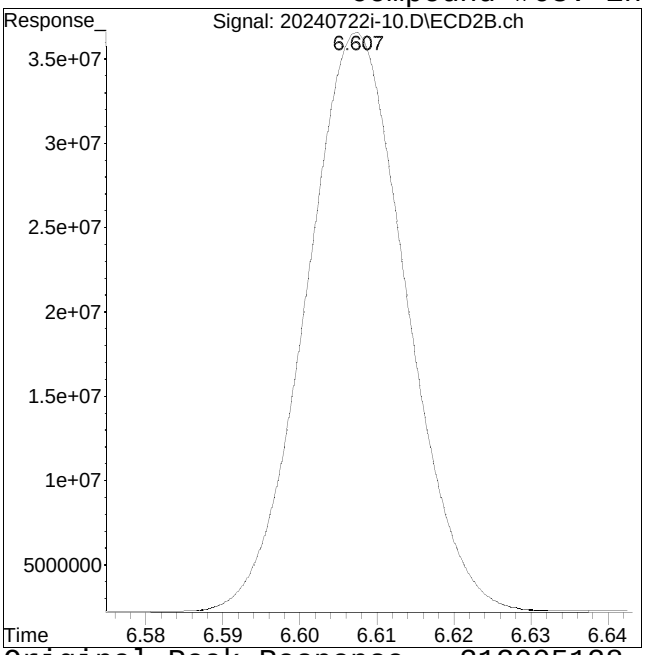
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

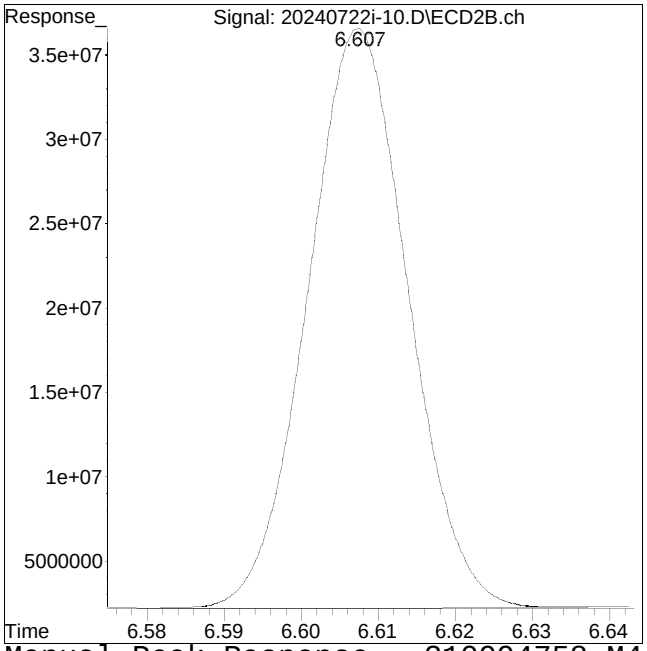
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 312005128



Manual Peak Response = 310994758 M4

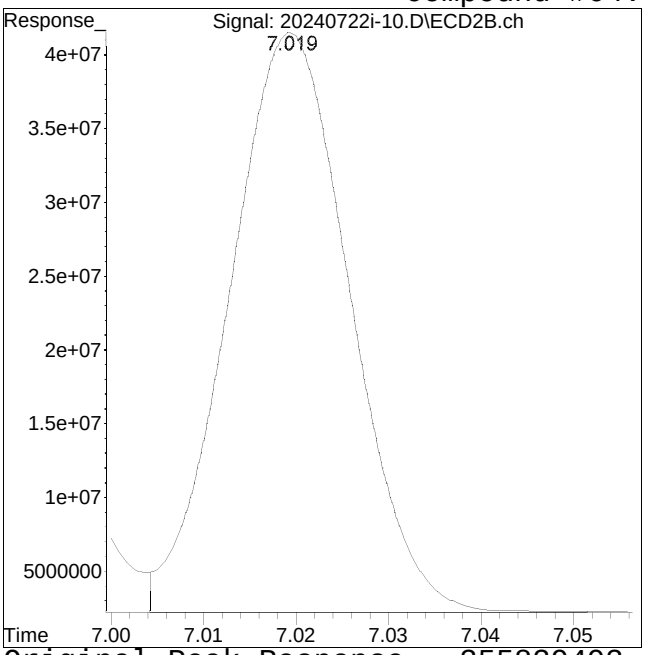
M4 = Poor automated baseline construction.

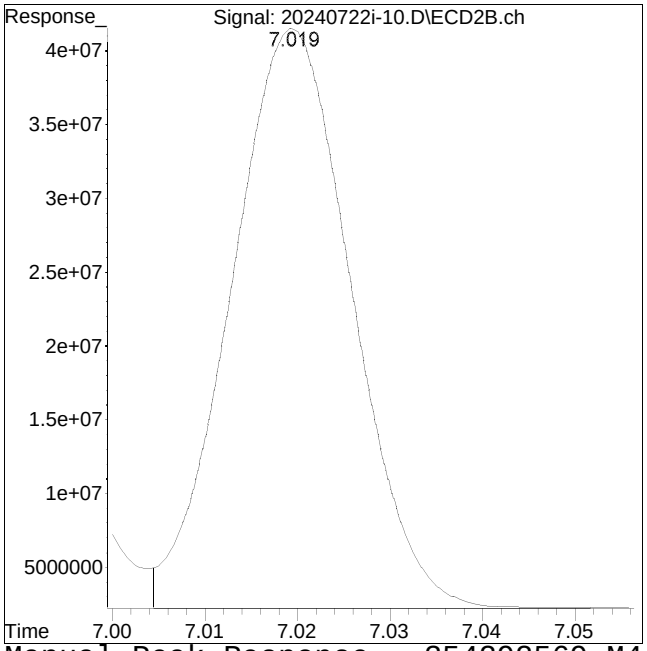
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #64: Endrin Ketone #2





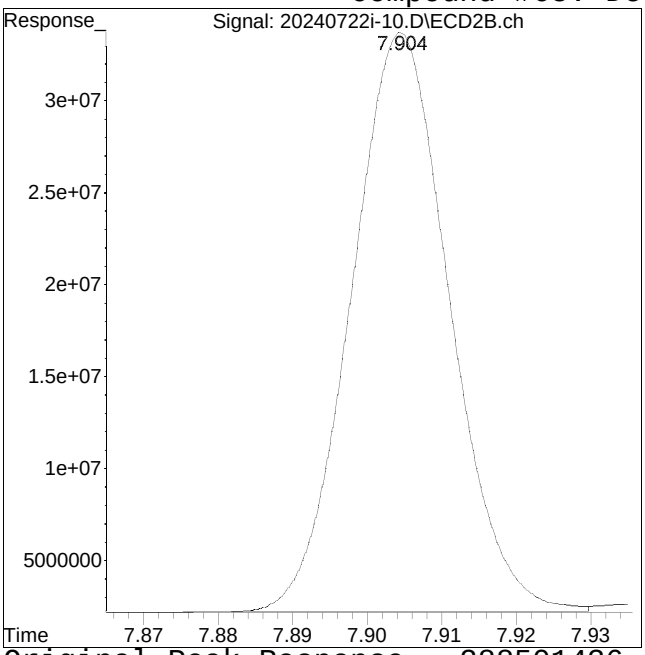
Original Peak Response = 355839493 Manual Peak Response = 354292569 M4
M4 = Poor automated baseline construction.

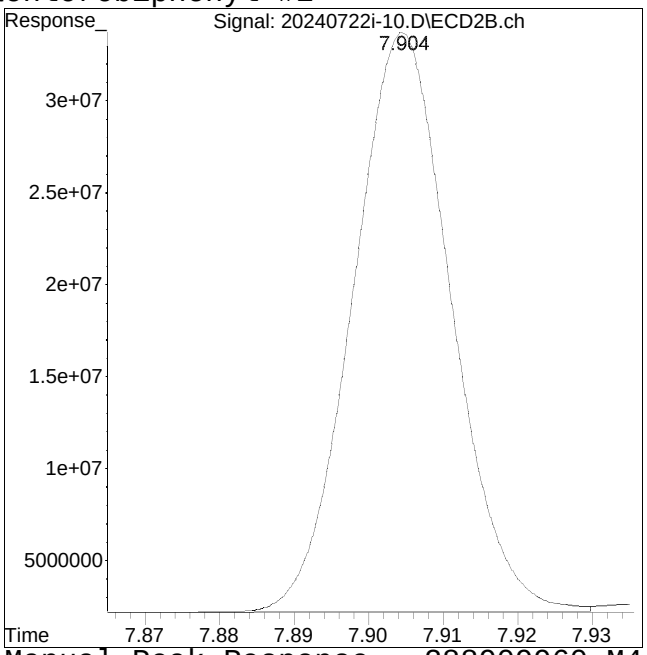
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-10.D
Date Inj'd : 7/22/2024 19:36
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:31 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 288501436 Manual Peak Response = 288909960 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:48
Operator : pest20:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:50:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:40:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.008	2.064	49661545	78133057	25.000	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.474	2.664	431.4E6	683.7E6	189.662M4	193.962M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	379.32%#	387.92%#
27) s	Decachlorobi	7.336	7.903	408.4E6	536.7E6	186.754	189.318
	Spiked Amount	50.000	Range 30 - 150		Recovery =	373.51%#	378.64%#
	Target Compounds						
3)	Hexachlorobe	2.742	3.041	444.4E6	692.4E6	188.971	192.858
4)	alpha-BHC	2.864	3.153	596.1E6	962.3E6	196.799	201.225
5)	gamma-BHC (l	3.109	3.477	538.3E6	871.7E6	196.339	200.897M4
6)	beta-BHC	3.176	3.551	241.8E6	386.0E6	188.690	193.046M3
7)	delta-BHC	3.326	3.848	548.3E6	892.8E6	198.664	203.525M4
8)	Heptachlor	3.514	3.918	512.4E6	799.9E6	194.928	198.646M4
9)	Aldrin	3.793	4.268	507.9E6	766.6E6	198.023	202.142
10)	Alachlor	3.935	4.141	71996203	99751040	177.477	181.729
11)	Chlorpyrifos	4.035	4.524	218.1E6	352.9E6	181.240	185.224M4
12)	Heptachlor E	4.409	4.930	460.8E6	717.1E6	194.677M3	198.972
13)	gamma-Chlord	4.545	5.141	424.0E6	637.3E6	196.904M4	200.958M4
14)	alpha-Chlord	4.695	5.297	475.8E6	705.9E6	195.783	199.741

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:48
Operator : pest20:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:50:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:40:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15)	4,4'-DDE	4.796	5.474	493.2E6	726.0E6	199.032	203.083M4
16)	Endosulfan I	4.847	5.354	438.0E6	662.4E6	195.548M3	200.015M4
17)	Dieldrin	5.110	5.628	465.5E6	700.0E6	198.819	203.245
18)	Endrin	5.346	5.911	464.6E6	711.7E6	197.762M4	202.627M3
19)	4,4'-DDD	5.434	6.018	394.3E6	591.9E6	198.099M4	202.575M4
20)	Endosulfan I	5.566	6.100	404.7E6	624.5E6	195.586M4	199.676M4
21)	4,4'-DDT	5.705	6.285	422.1E6	652.0E6	196.082M4	199.745M4
22)	Endrin Aldeh	5.959	6.385	348.7E6	533.2E6	195.186M4	199.753M4
23)	Methoxychlor	6.155	6.832	224.1E6	336.0E6	185.408	189.692M4
24)	Mirex	6.234	6.987	343.8E6	484.9E6	187.290M3	188.620M3
25)	Endosulfan S	6.334	6.608	377.9E6	595.4E6	192.977M3	197.486M3
26)	Endrin Keton	6.556	7.019	434.3E6	676.2E6	192.902M4	196.858M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:48
Operator : pest20:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:50:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:40:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

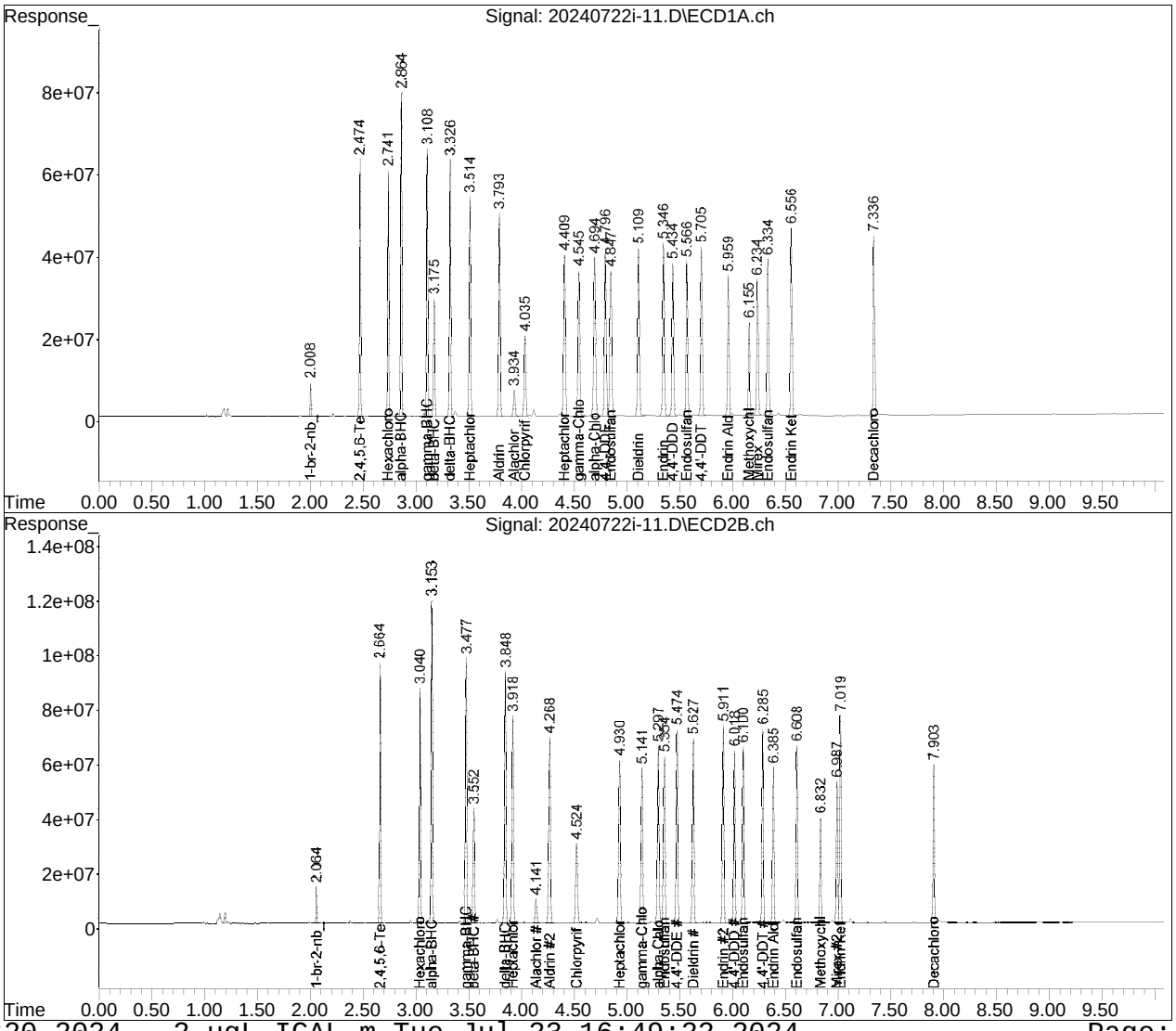
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 19:48
Operator : pest20:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:50:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:40:20 2024
Response via : Initial Calibration
Integrator: ChemStation

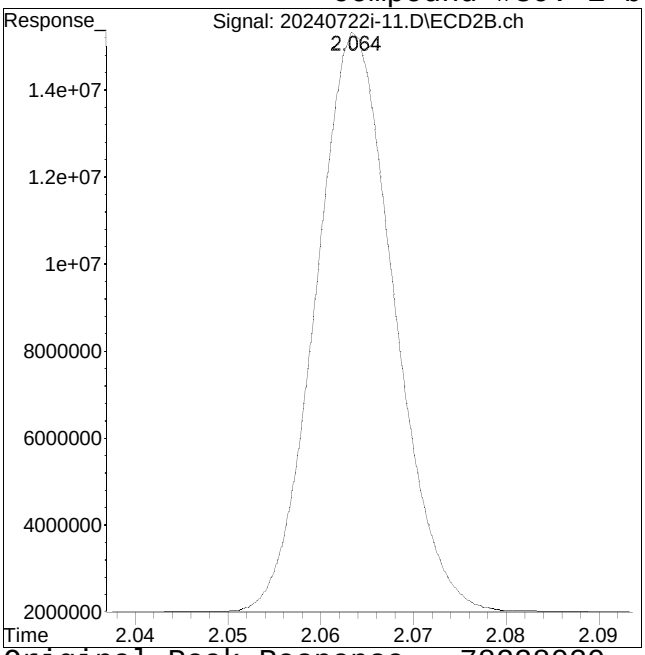
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



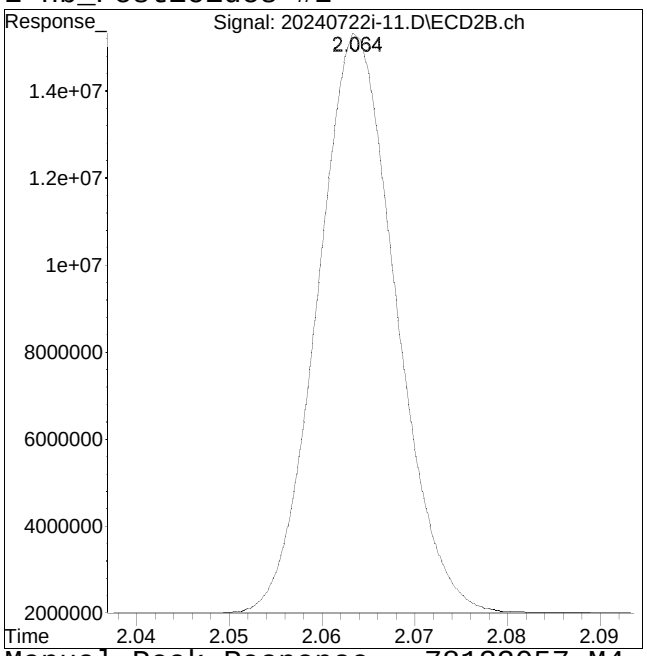
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 78238030



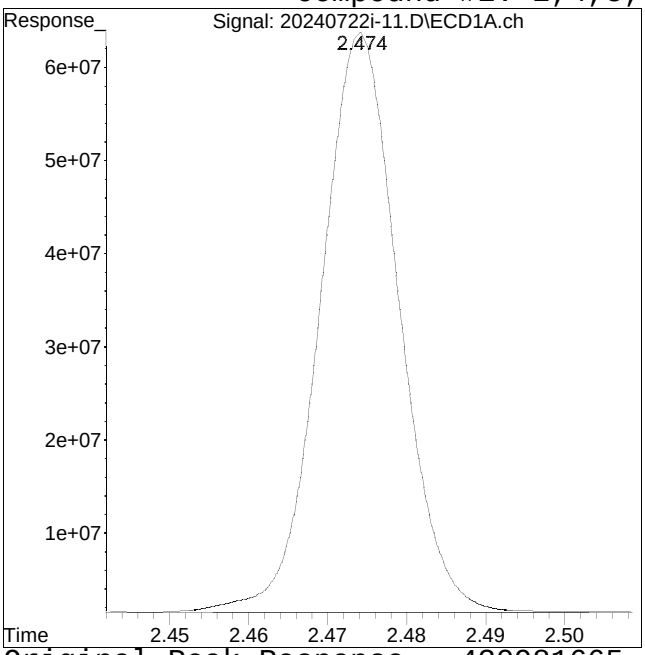
Manual Peak Response = 78133057 M4

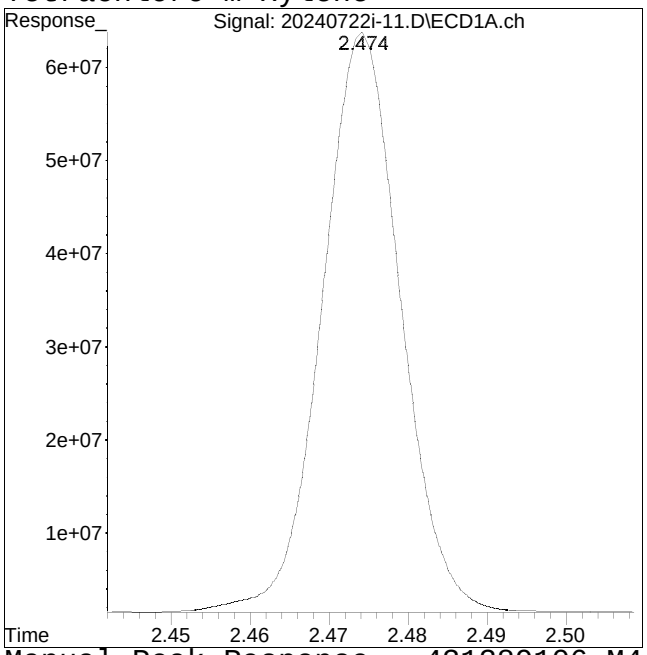
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



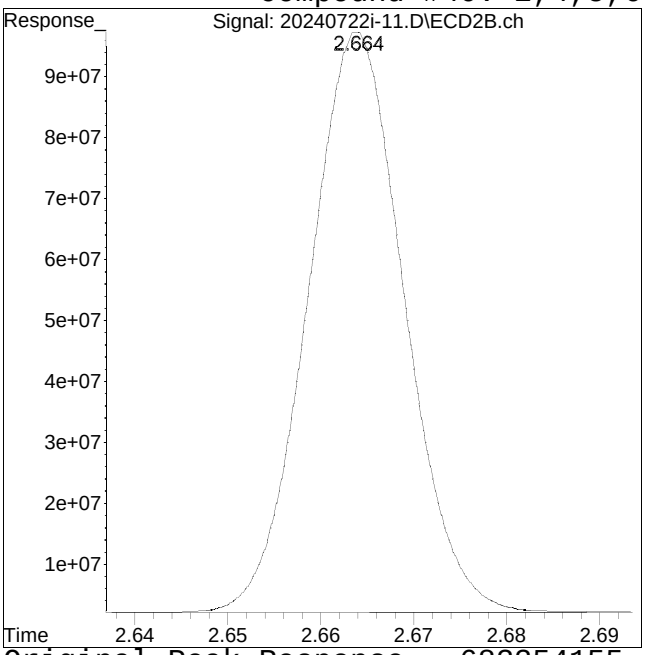


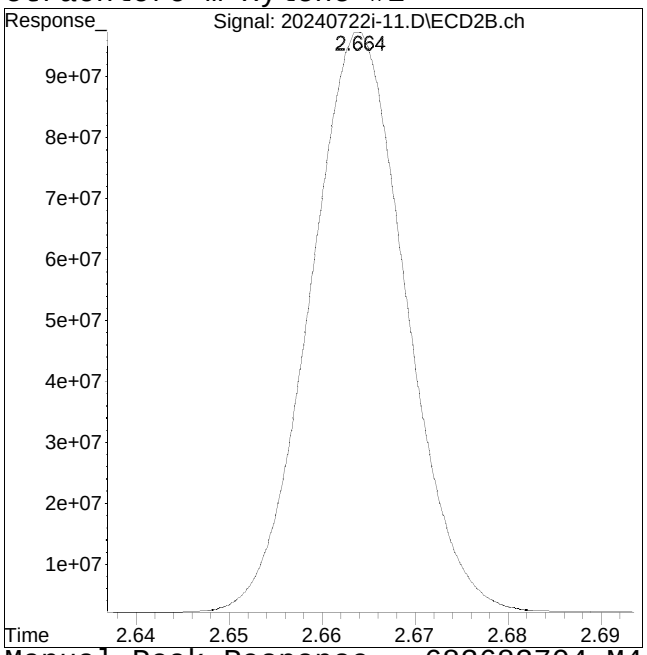
Original Peak Response = 430981665 Manual Peak Response = 431389106 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



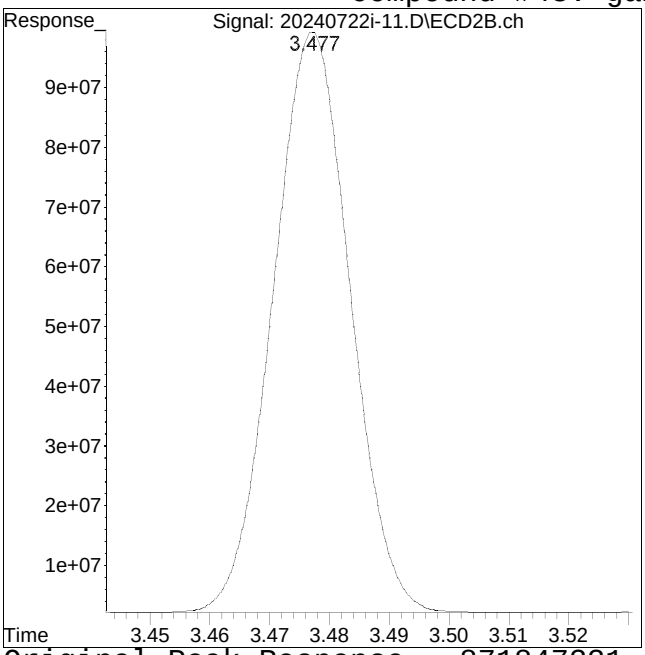


Original Peak Response = 683354155 Manual Peak Response = 683683704 M4
M4 = Poor automated baseline construction.

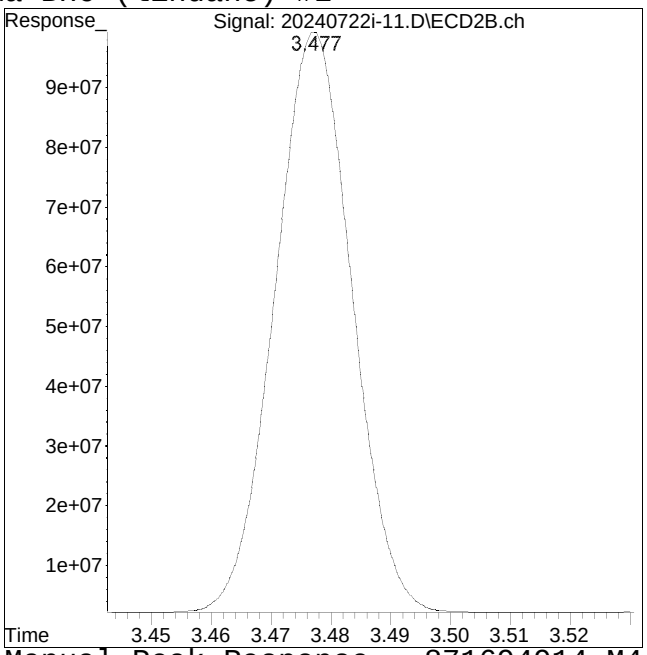
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 871847331



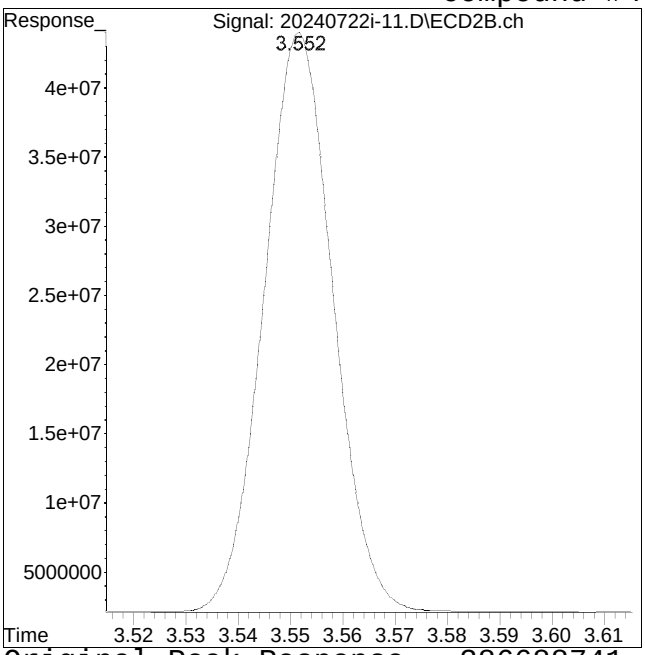
Manual Peak Response = 871694914 M4

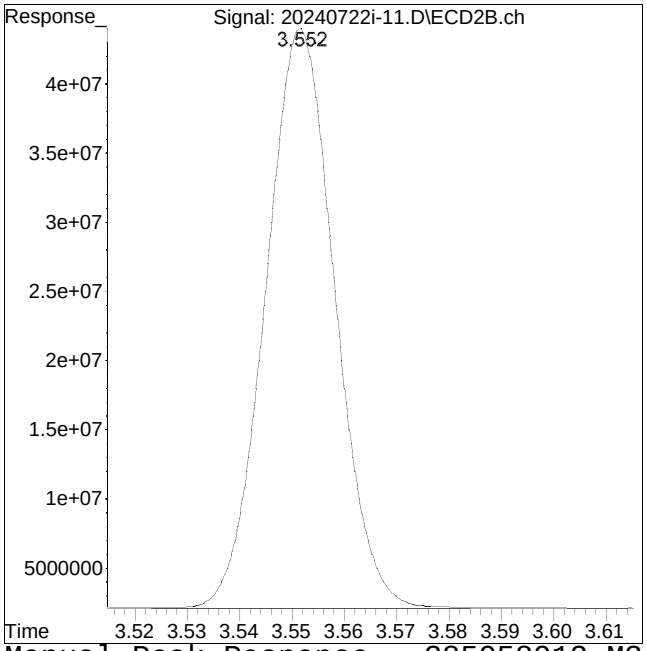
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #44: beta-BHC #2



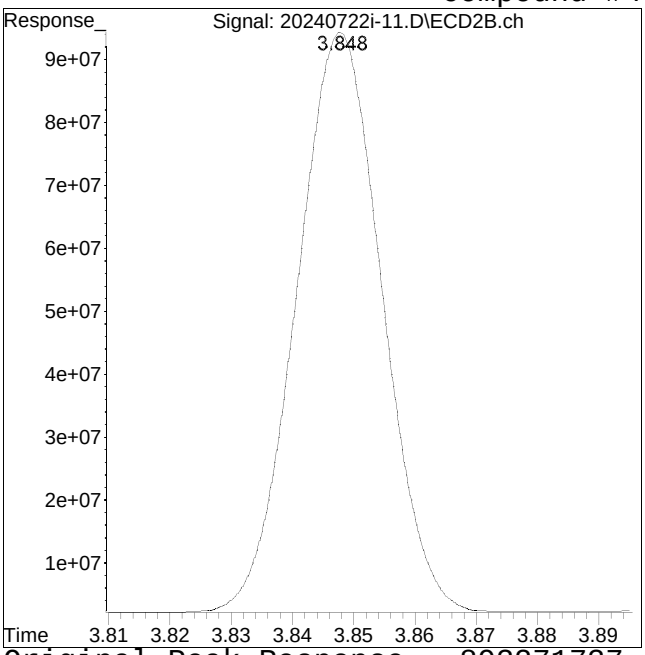


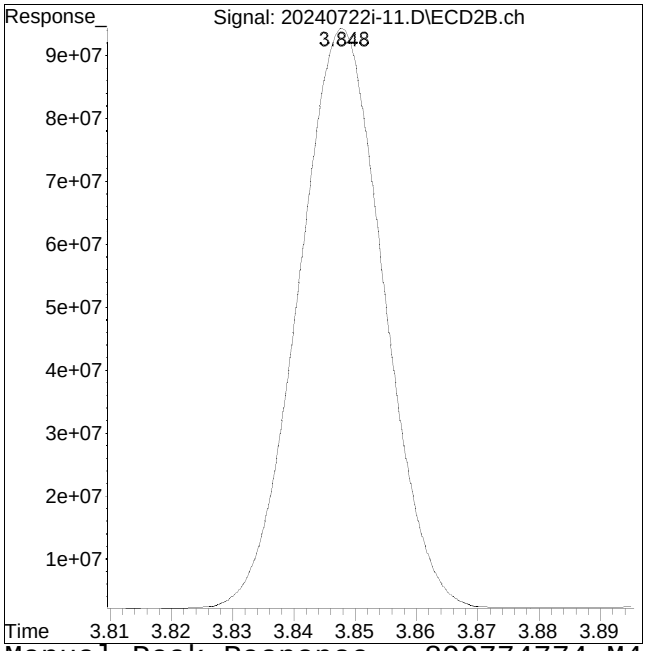
Original Peak Response = 386688741 Manual Peak Response = 385958912 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #45: delta-BHC #2



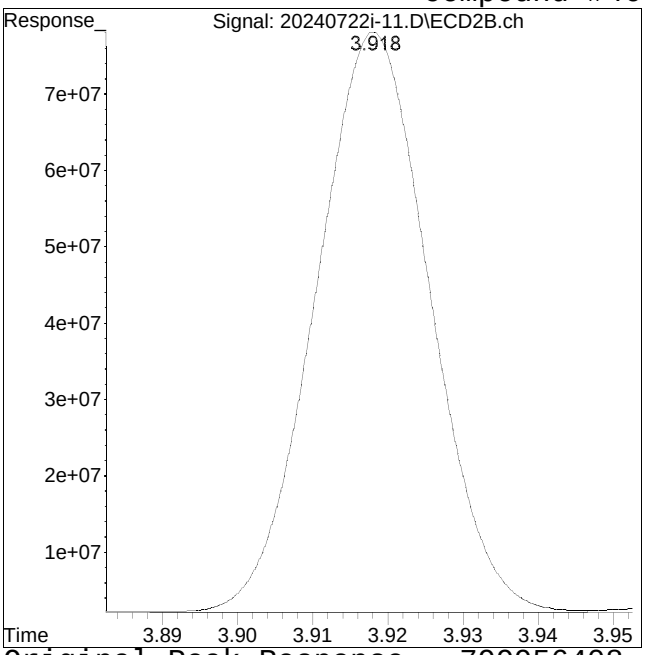


Original Peak Response = 893271737 Manual Peak Response = 892774774 M4
M4 = Poor automated baseline construction.

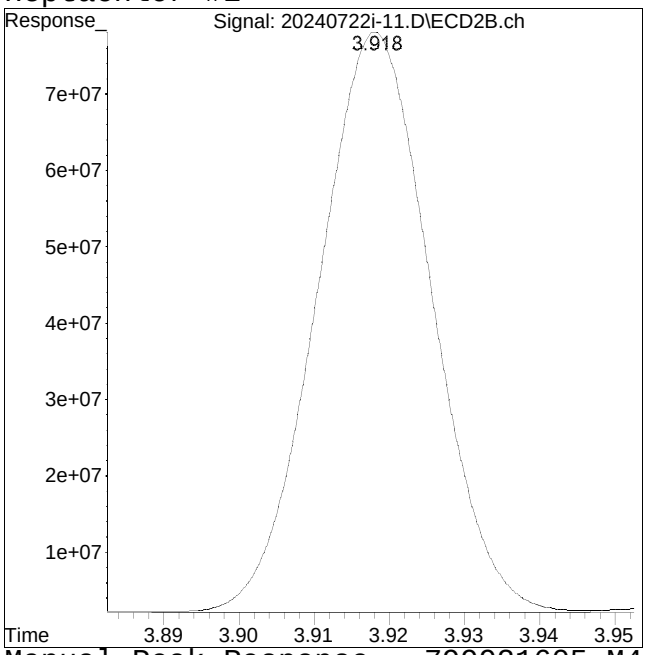
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #46: Heptachlor #2



Original Peak Response = 799956408

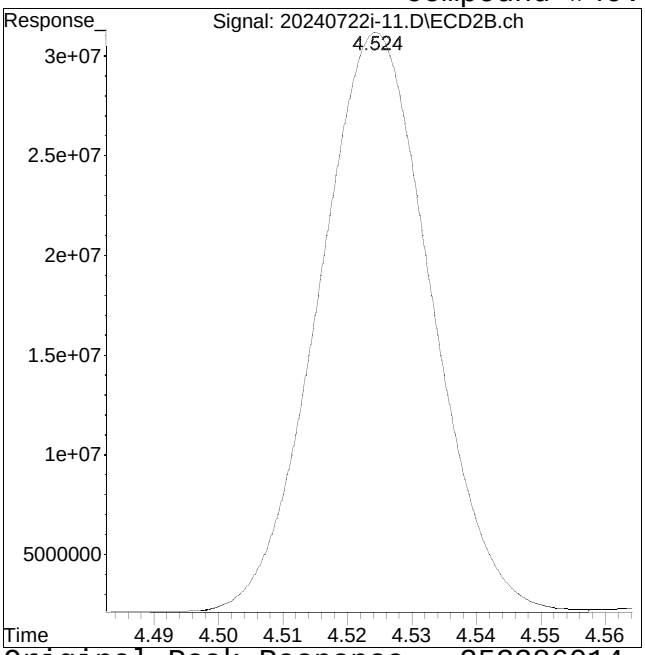


Manual Peak Response = 799921605 M4
M4 = Poor automated baseline construction.

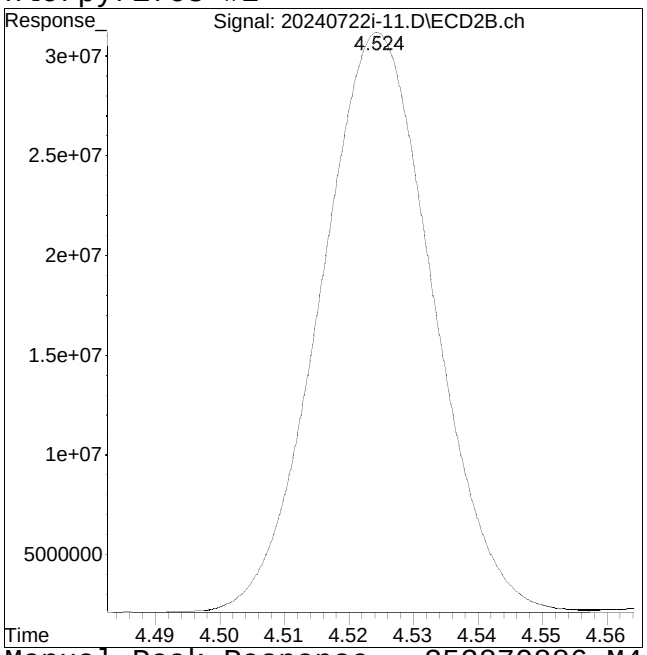
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 353386014



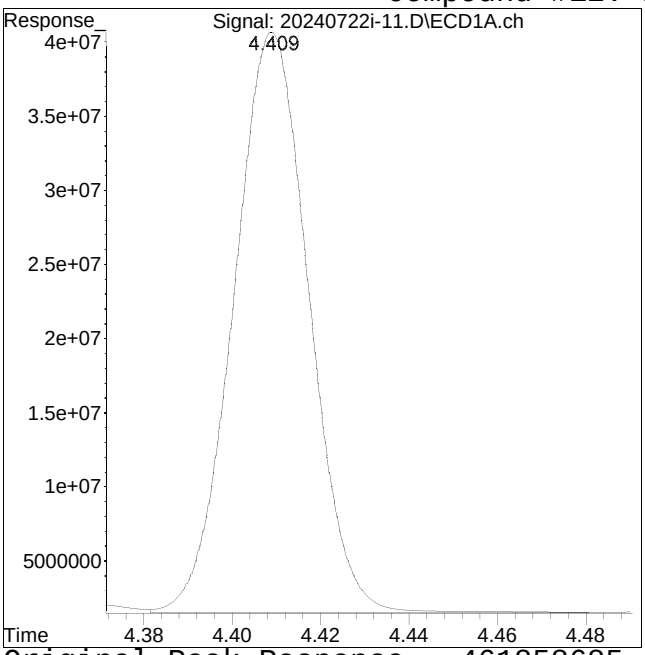
Manual Peak Response = 352870886 M4

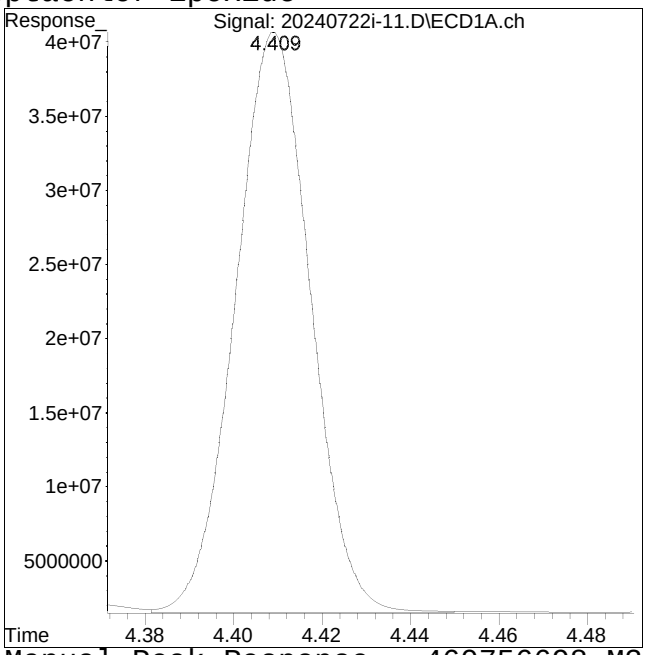
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #12: Heptachlor Epoxide



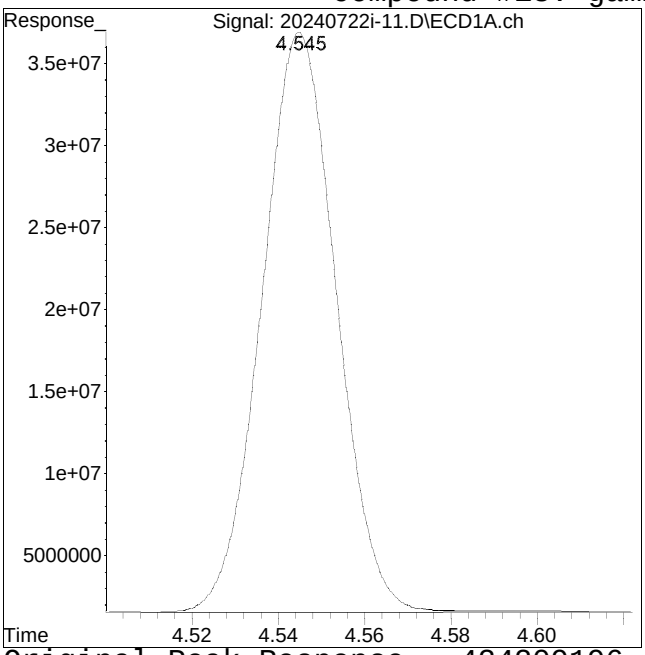


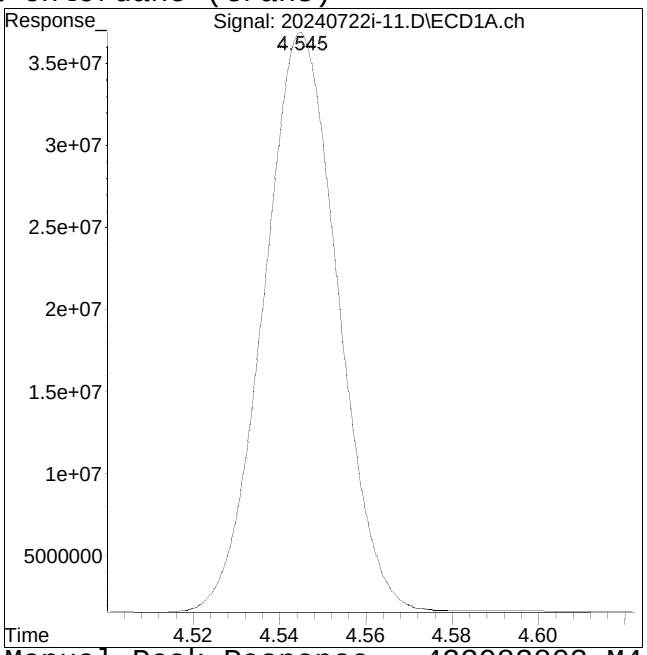
Original Peak Response = 461858685 Manual Peak Response = 460756698 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #13: gamma-Chlordane (trans)



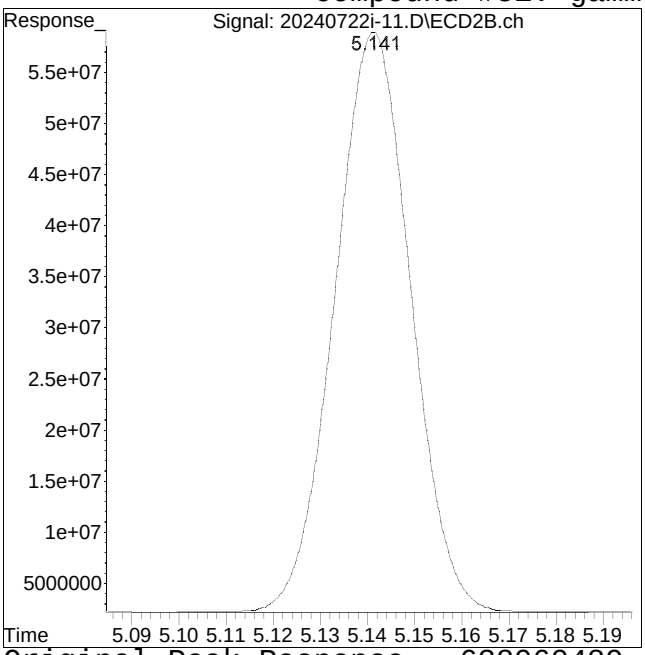


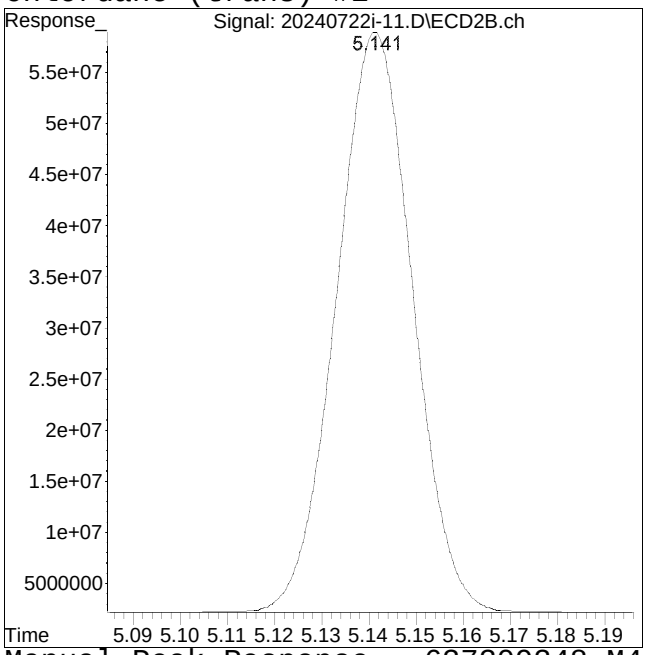
Original Peak Response = 424209196 Manual Peak Response = 423983803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #51: gamma-Chlordane (trans) #2



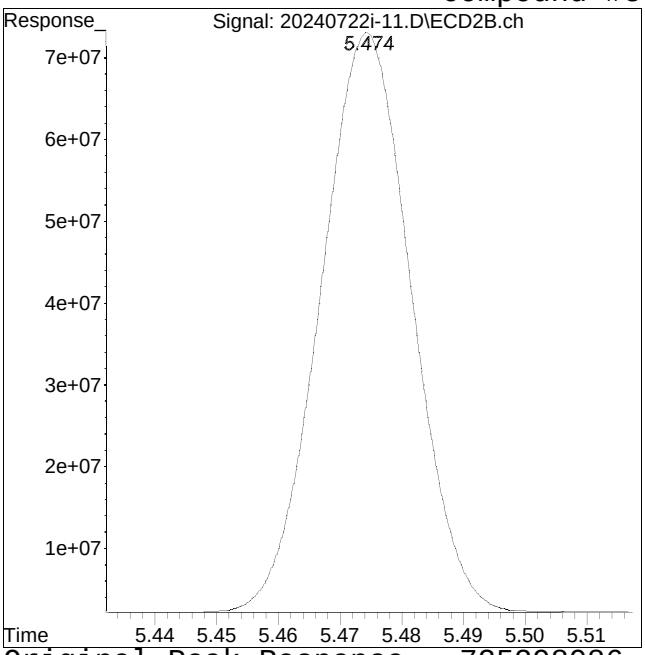


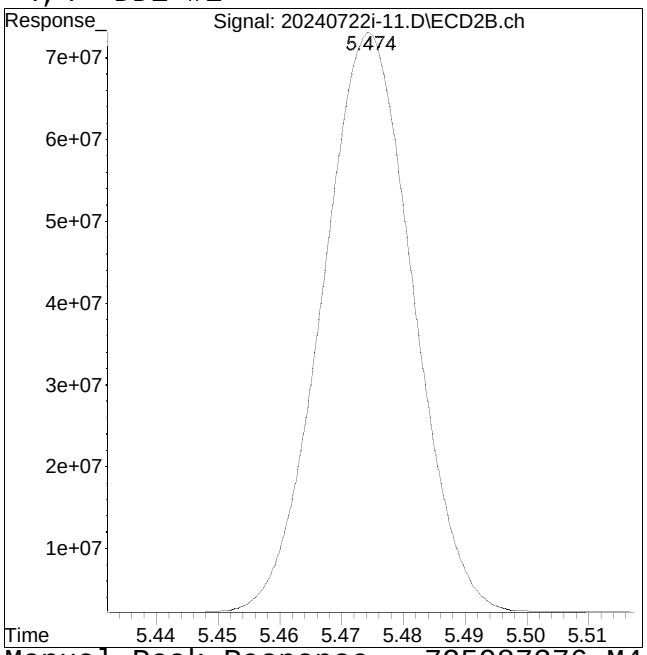
Original Peak Response = 638060489 Manual Peak Response = 637309348 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #53: 4,4'-DDE #2



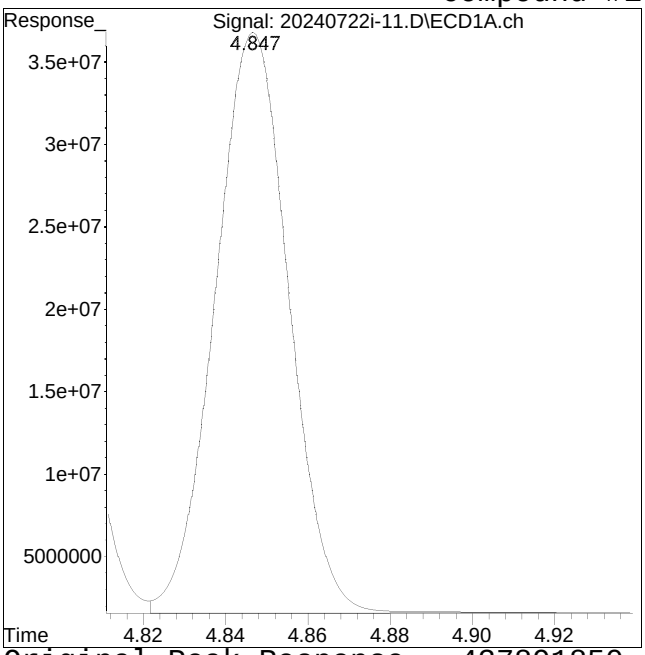


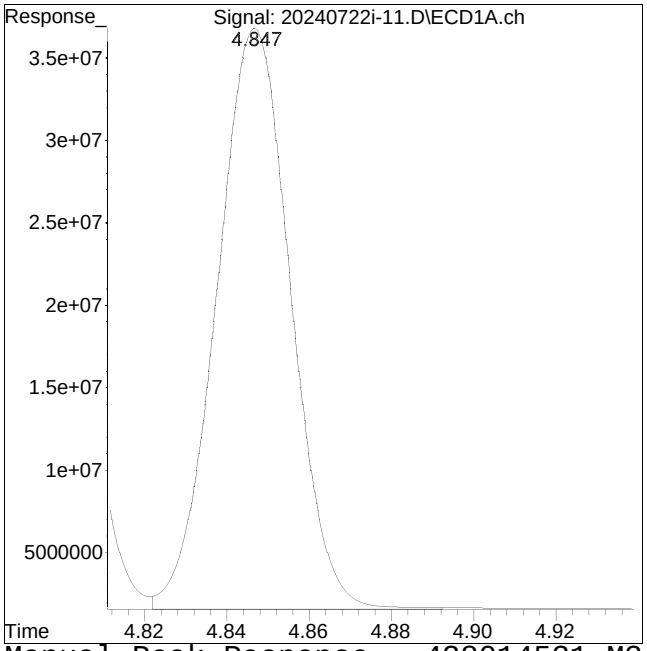
Original Peak Response = 725298986 Manual Peak Response = 725987376 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #16: Endosulfan I



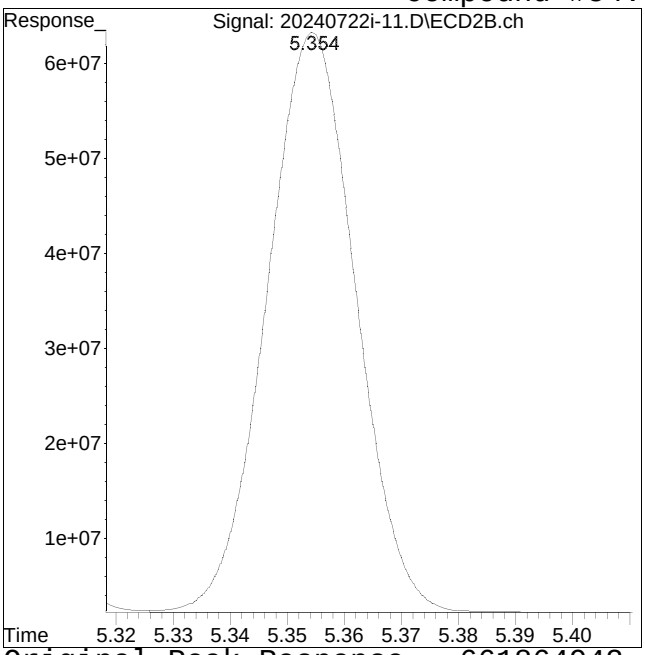


Original Peak Response = 437891850 Manual Peak Response = 438014531 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

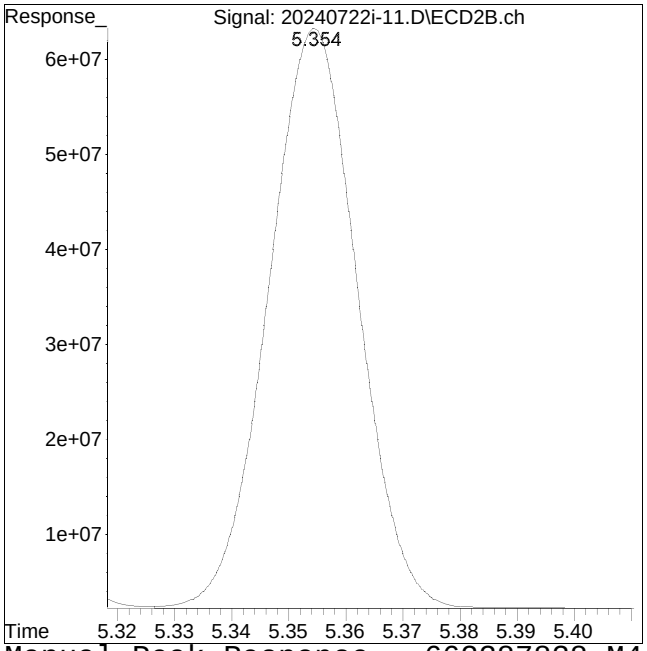
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #54: Endosulfan I #2



Original Peak Response = 661864942



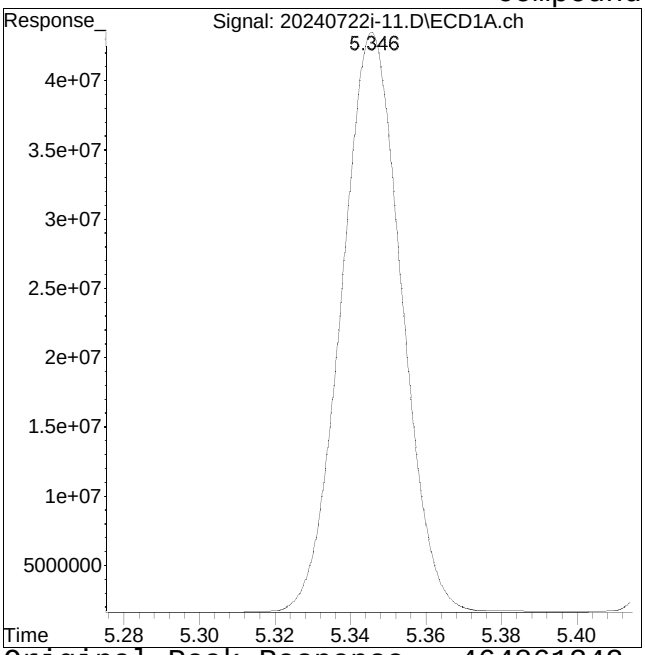
Manual Peak Response = 662387838 M4

M4 = Poor automated baseline construction.

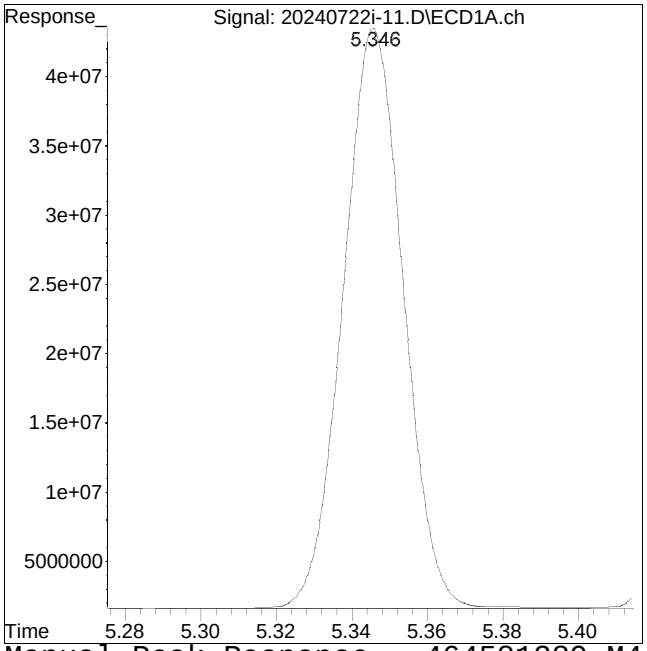
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #18: Endrin



Original Peak Response = 464861342



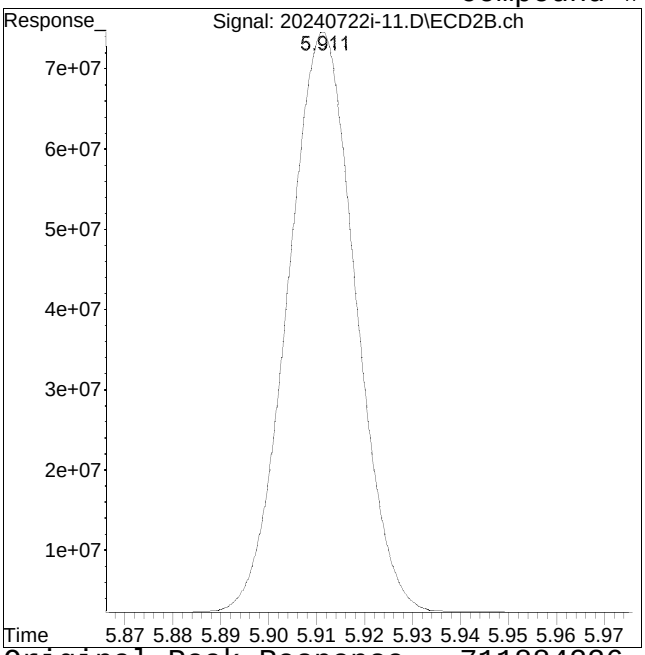
Manual Peak Response = 464581289 M4

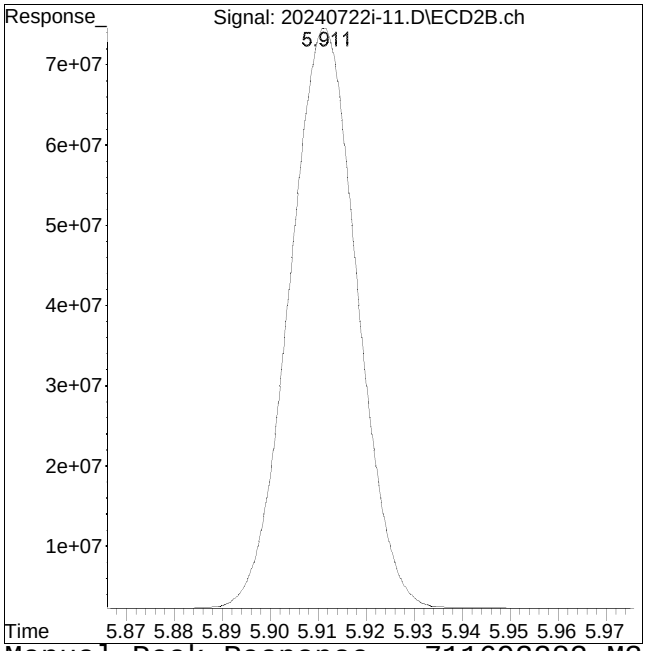
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #56: Endrin #2



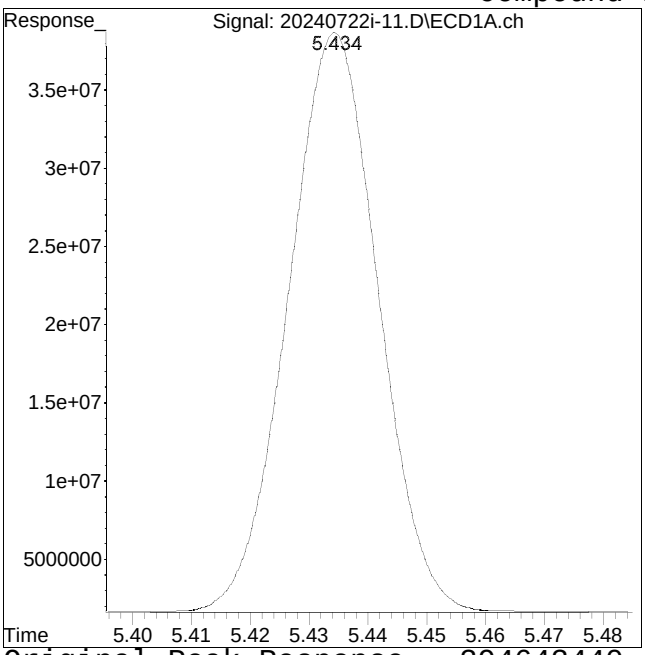


Original Peak Response = 711884226 Manual Peak Response = 711693283 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

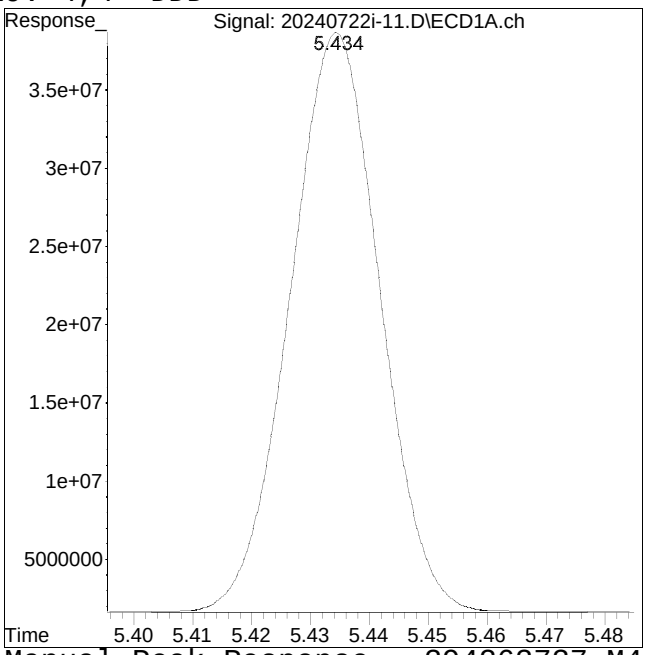
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #19: 4,4'-DDD



Original Peak Response = 394643440

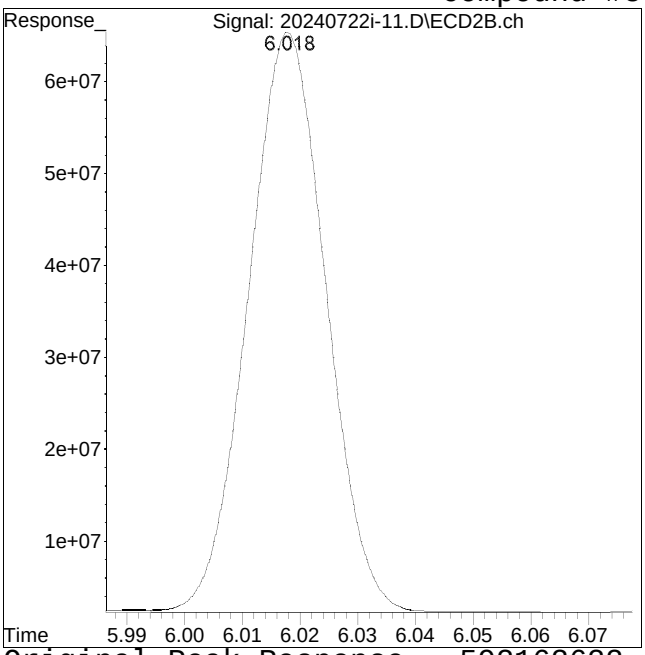


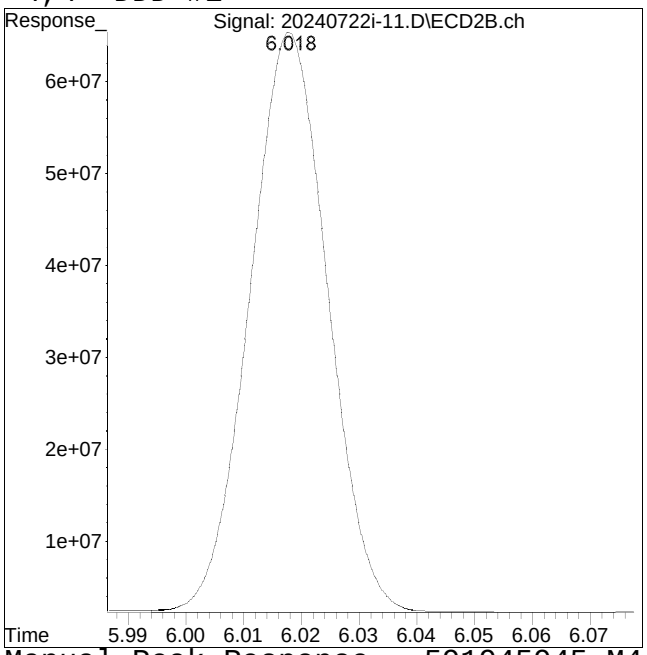
Manual Peak Response = 394263737 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #57: 4,4'-DDD #2



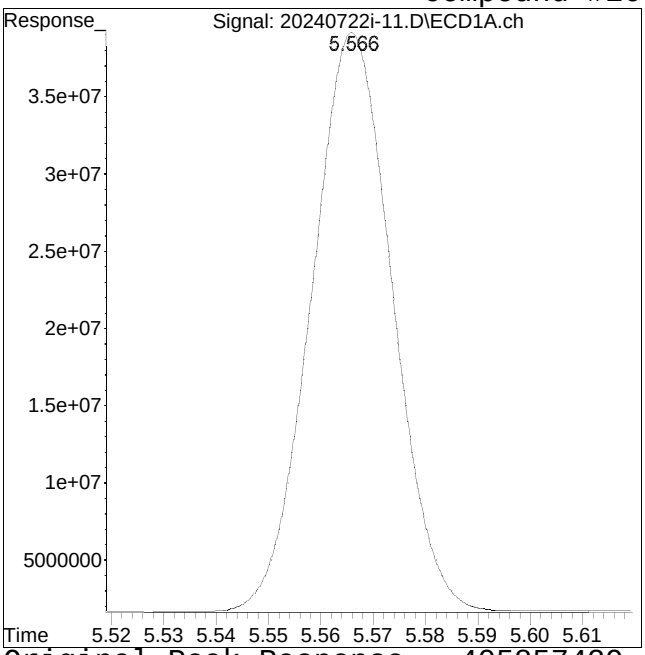


Original Peak Response = 592162622 Manual Peak Response = 591945945 M4
M4 = Poor automated baseline construction.

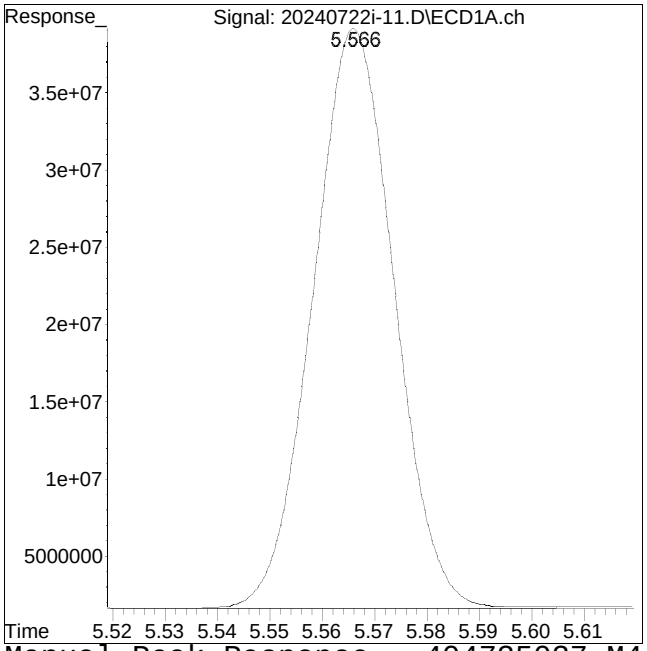
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #20: Endosulfan II



Original Peak Response = 405857429



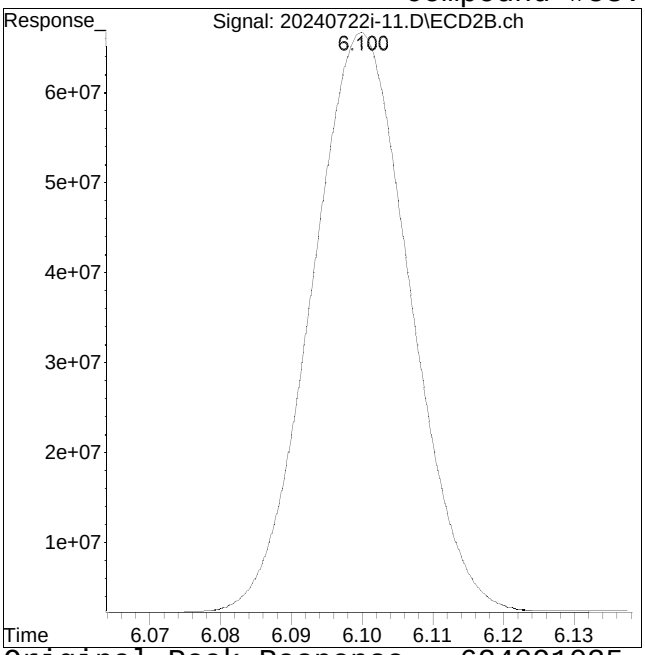
Manual Peak Response = 404735037 M4

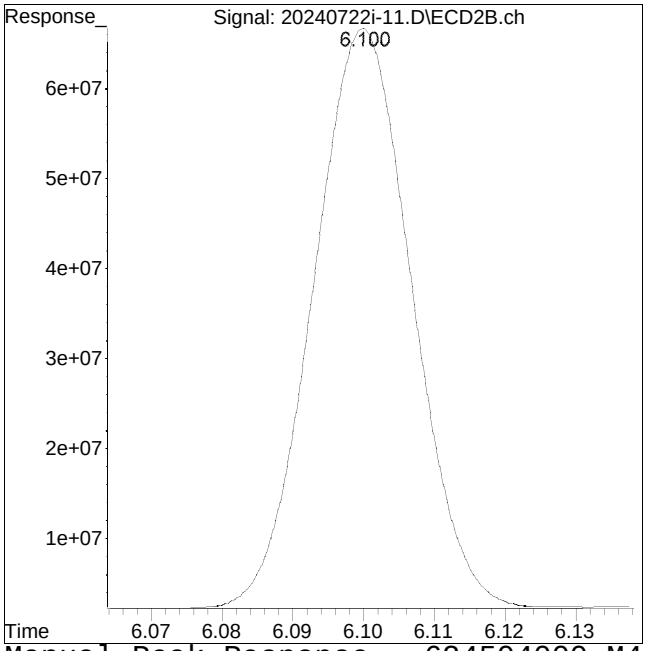
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #58: Endosulfan II #2



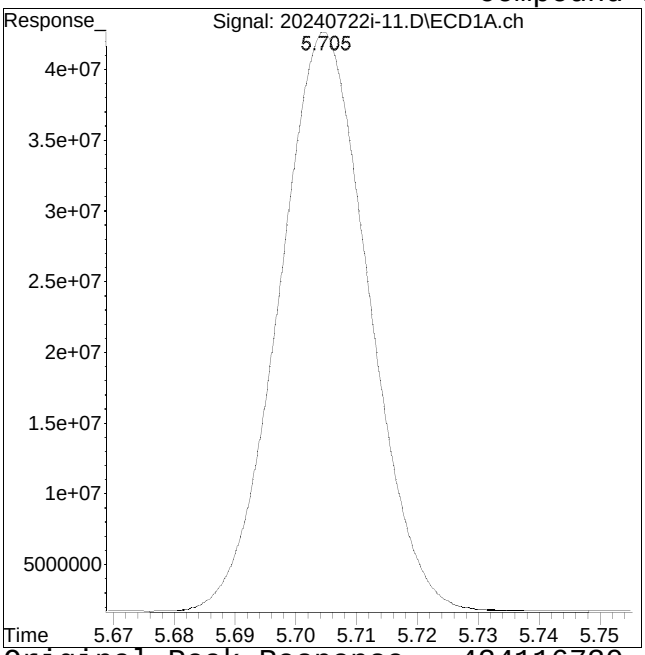


Original Peak Response = 624891035 Manual Peak Response = 624504000 M4
M4 = Poor automated baseline construction.

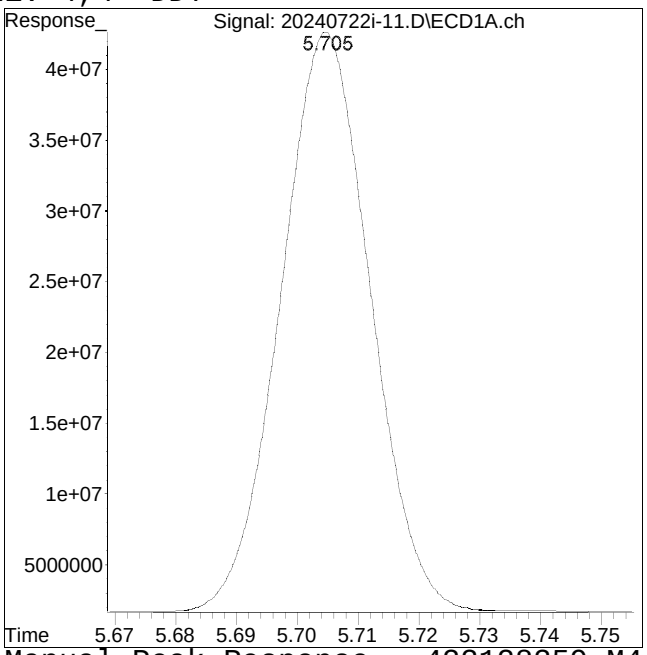
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #21: 4,4'-DDT



Original Peak Response = 424116730



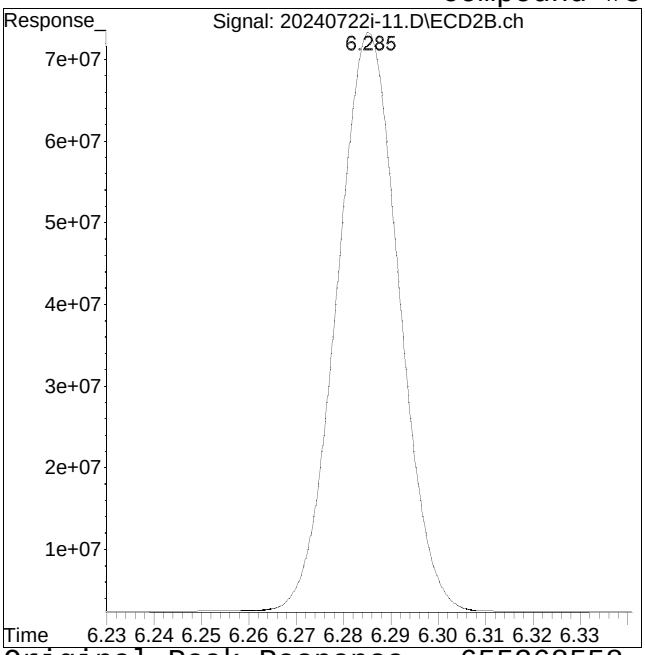
Manual Peak Response = 422128359 M4

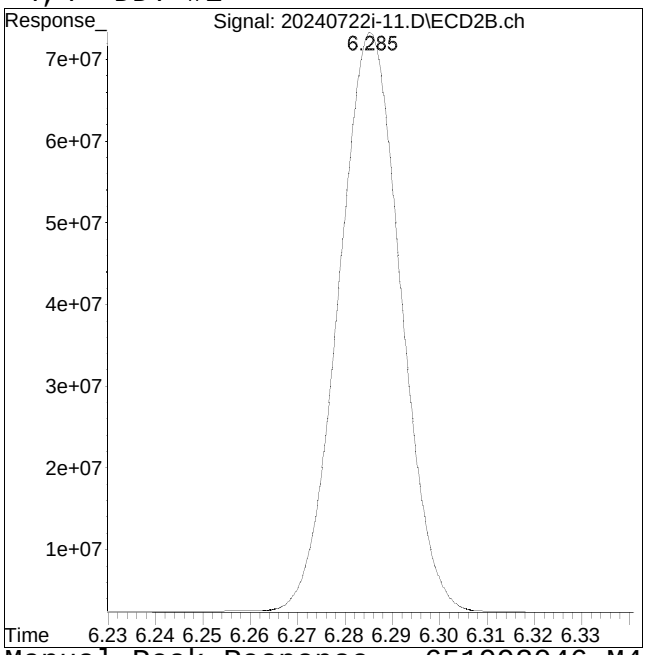
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #59: 4,4'-DDT #2





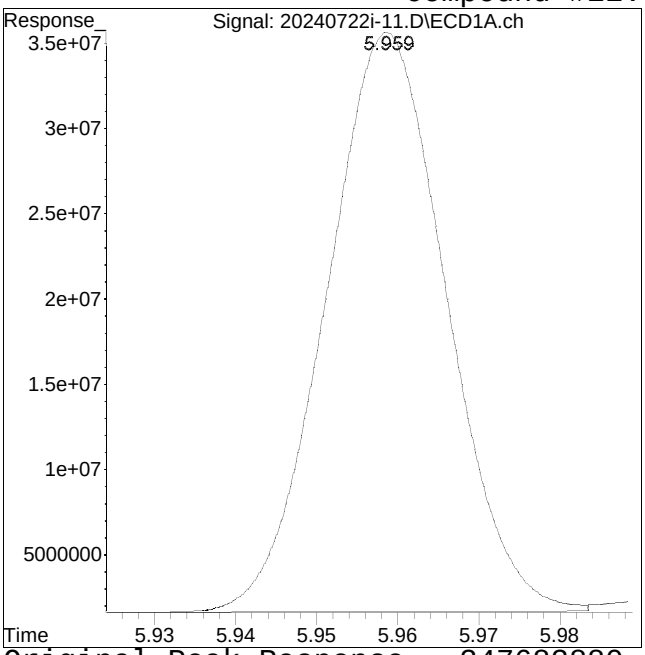
Original Peak Response = 655368558 Manual Peak Response = 651992046 M4
M4 = Poor automated baseline construction.

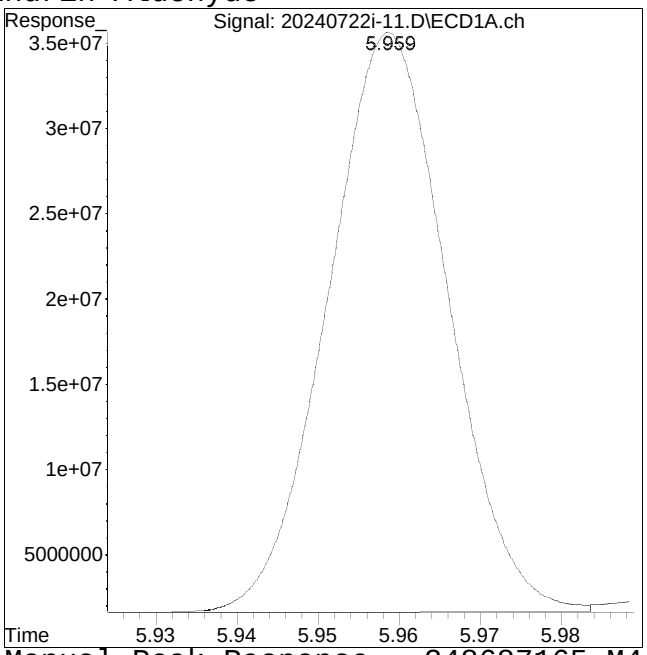
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #22: Endrin Aldehyde





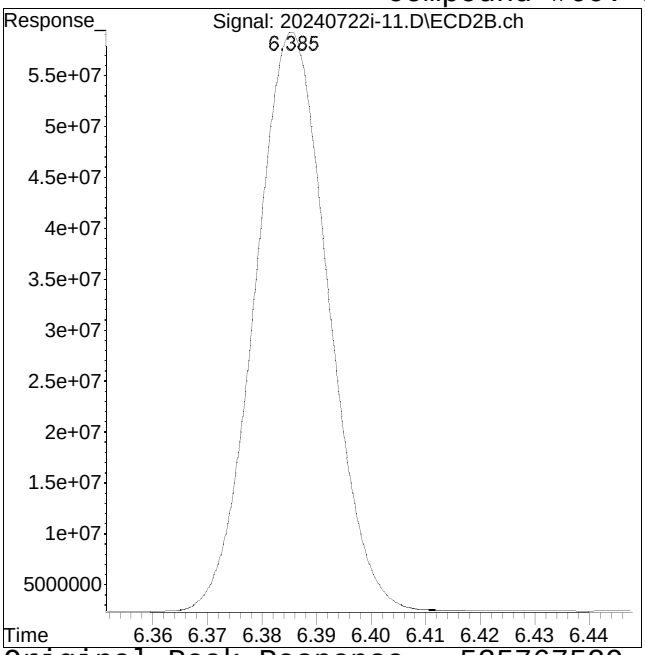
Original Peak Response = 347683880 Manual Peak Response = 348687165 M4
M4 = Poor automated baseline construction.

Manual Integration Report

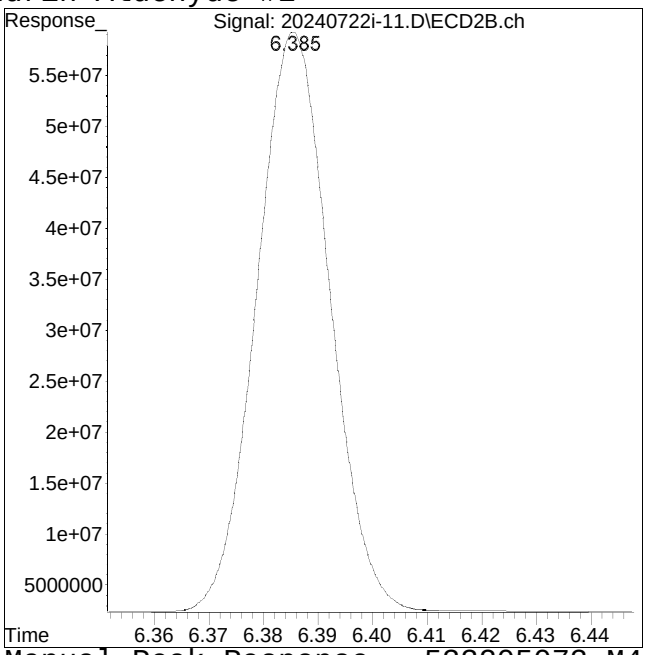
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 535767529



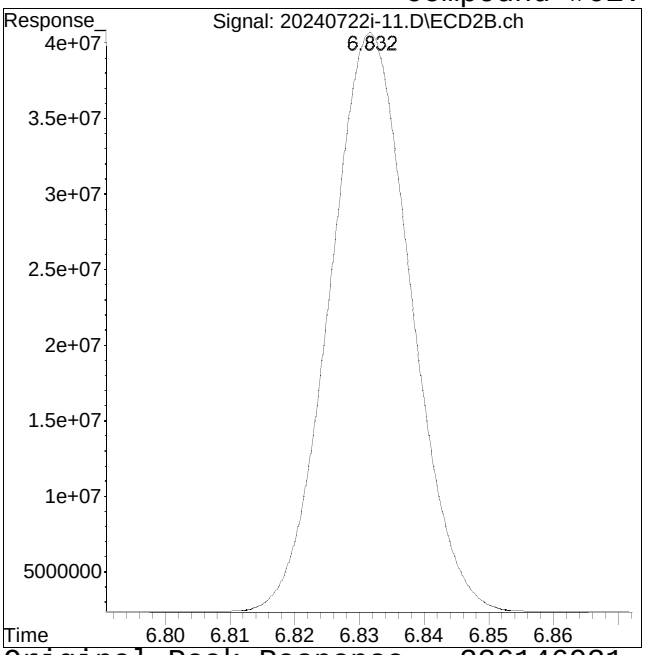
Manual Peak Response = 533205073 M4

M4 = Poor automated baseline construction.

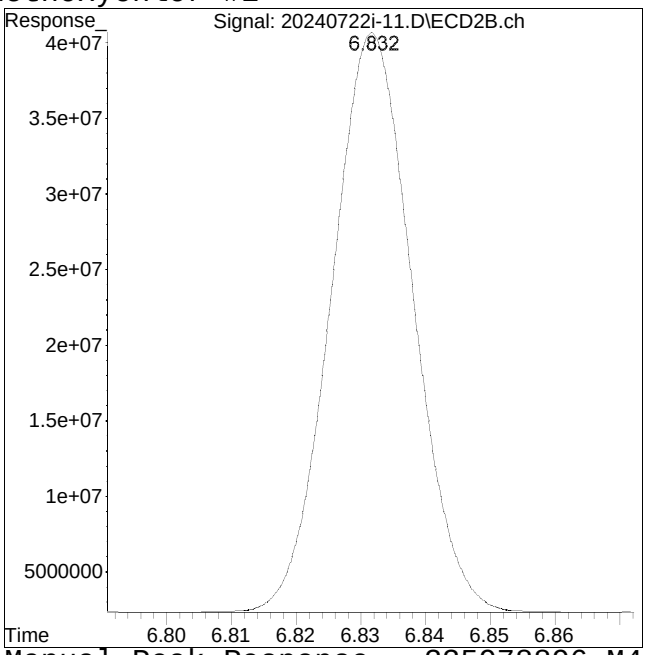
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #61: Methoxychlor #2



Original Peak Response = 336146931



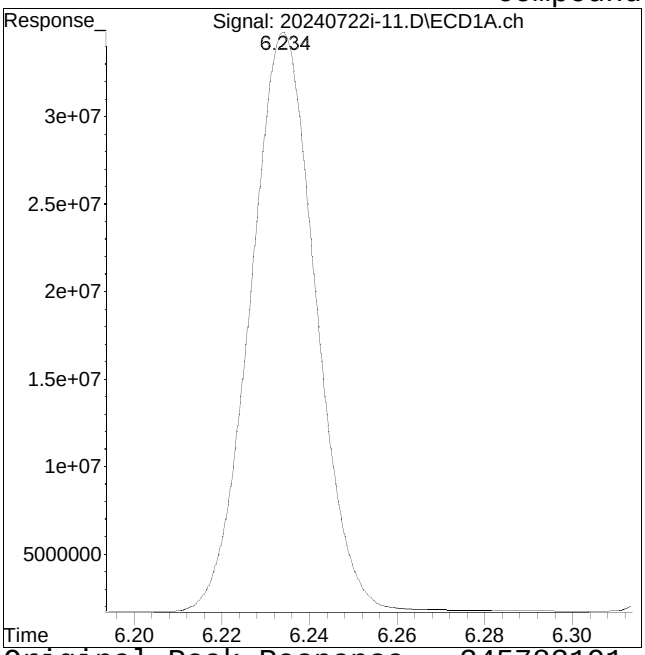
Manual Peak Response = 335978896 M4

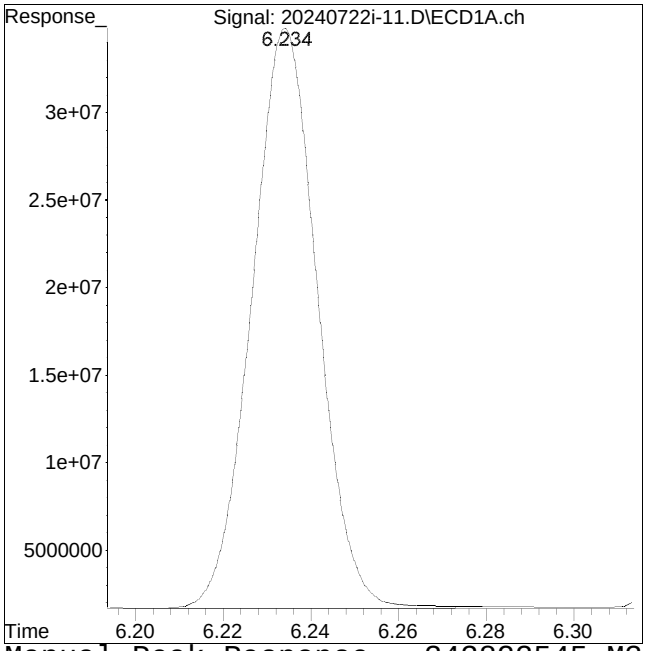
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #24: Mirex



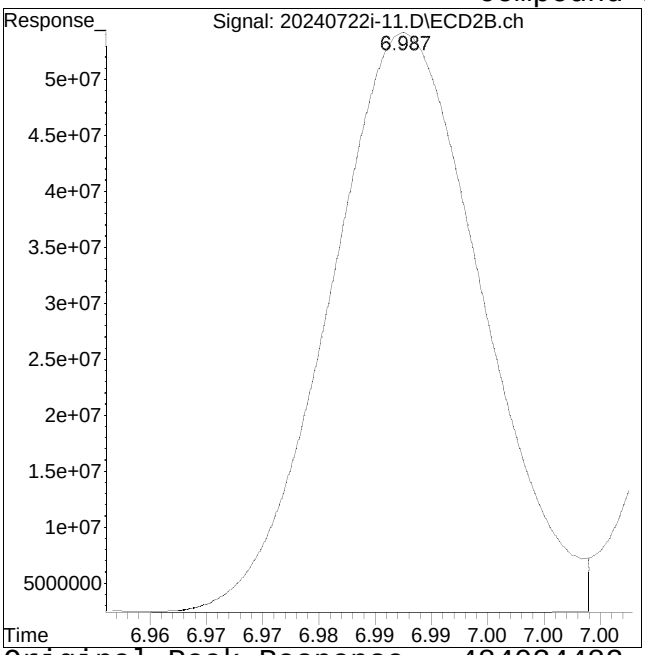


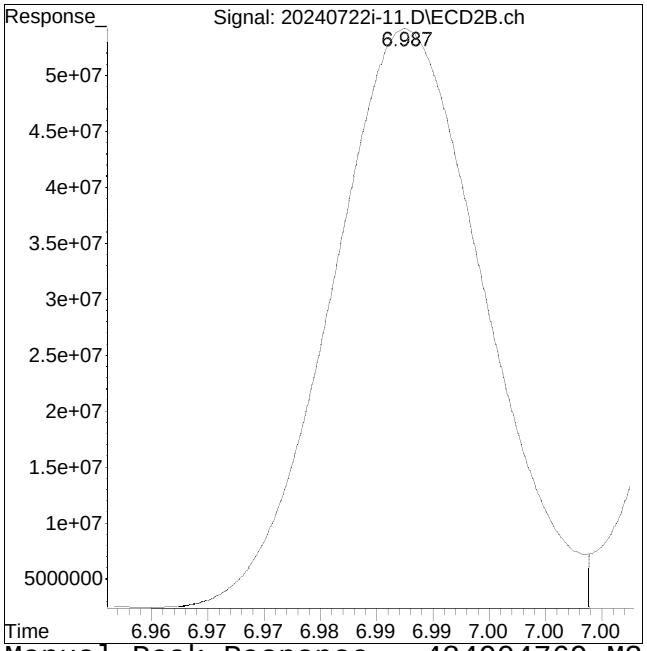
Original Peak Response = 345783191 Manual Peak Response = 343823545 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #62: Mirex #2



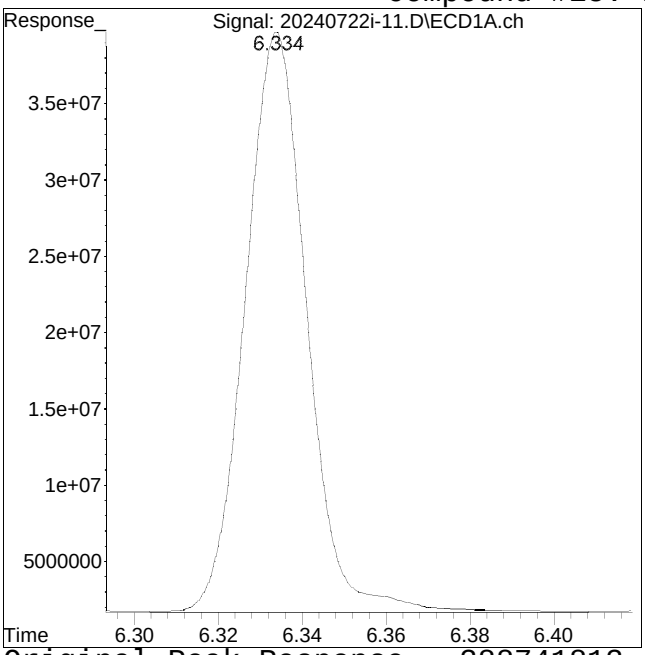


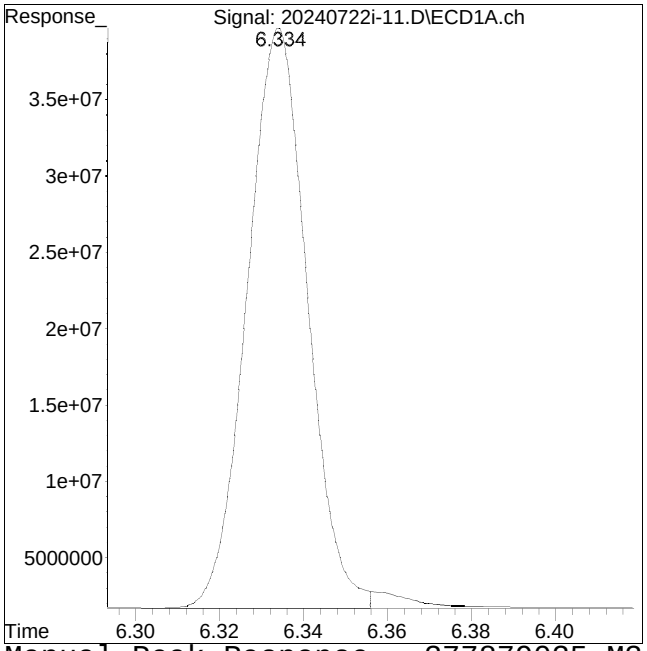
Original Peak Response = 484034482 Manual Peak Response = 484904769 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #25: Endosulfan Sulfate





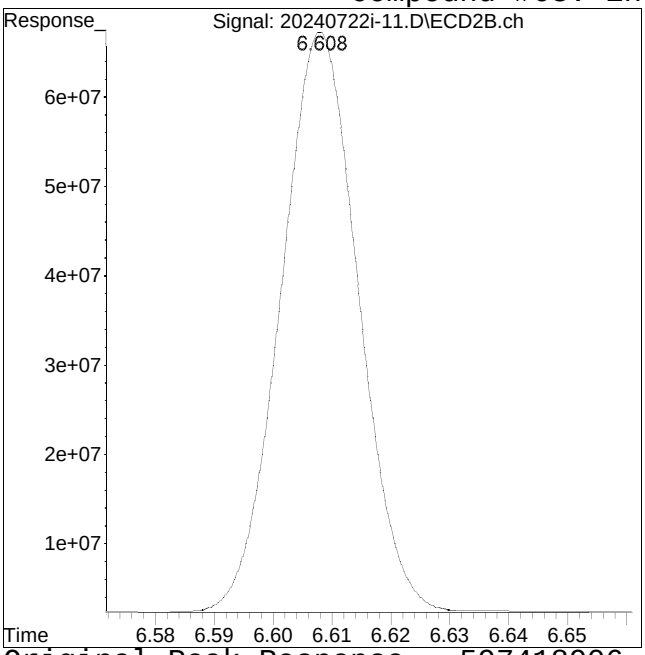
Original Peak Response = 388741813 Manual Peak Response = 377879035 M3

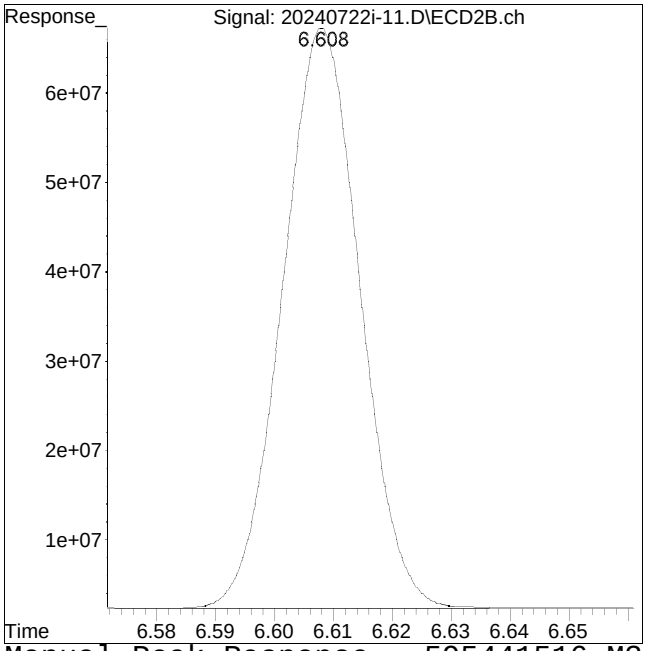
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #63: Endosulfan Sulfate #2





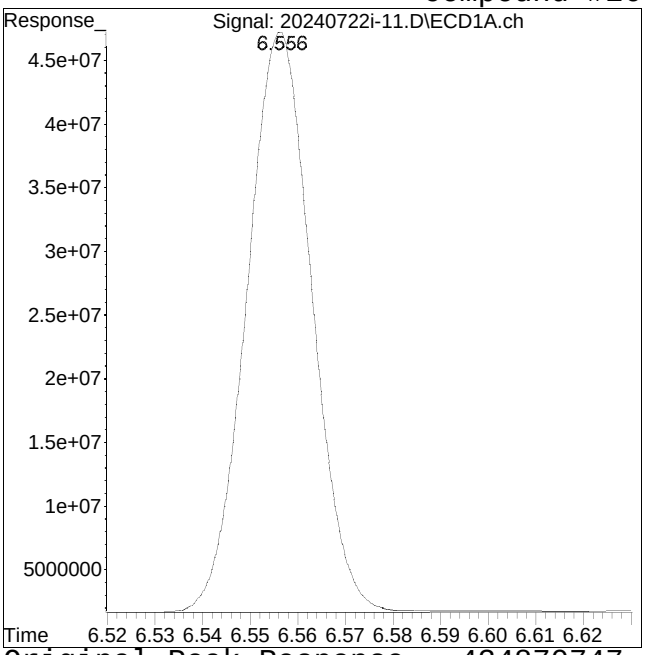
Original Peak Response = 597418906 Manual Peak Response = 595441516 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

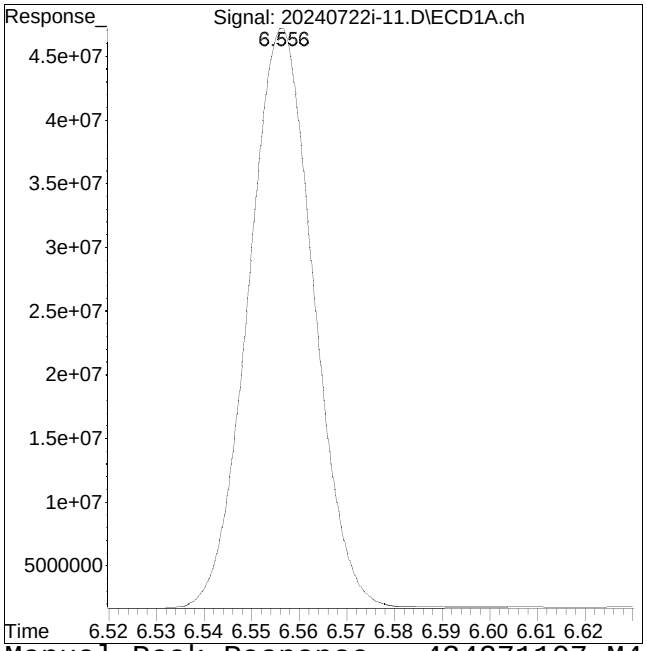
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-11.D
Date Inj'd : 7/22/2024 19:48
Sample : il10pest,42e,,pp 11679 L0.

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:50 pm

Compound #26: Endrin Ketone



Original Peak Response = 434870747



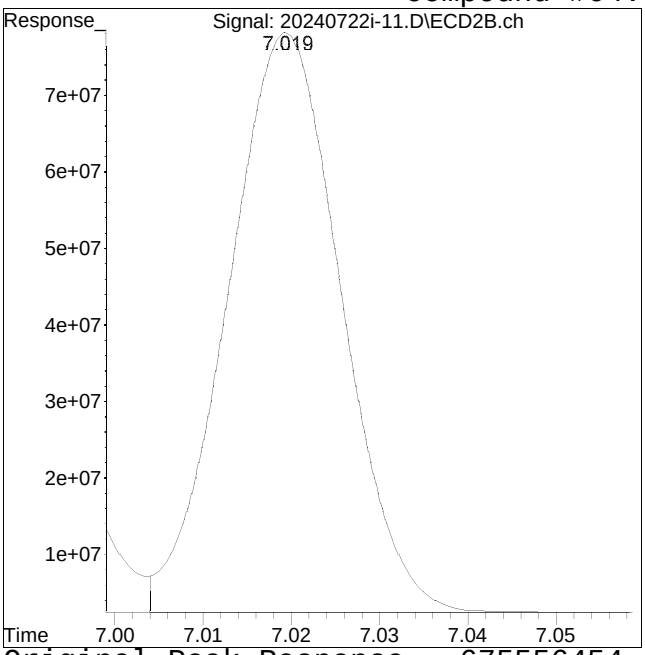
Manual Peak Response = 434271107 M4

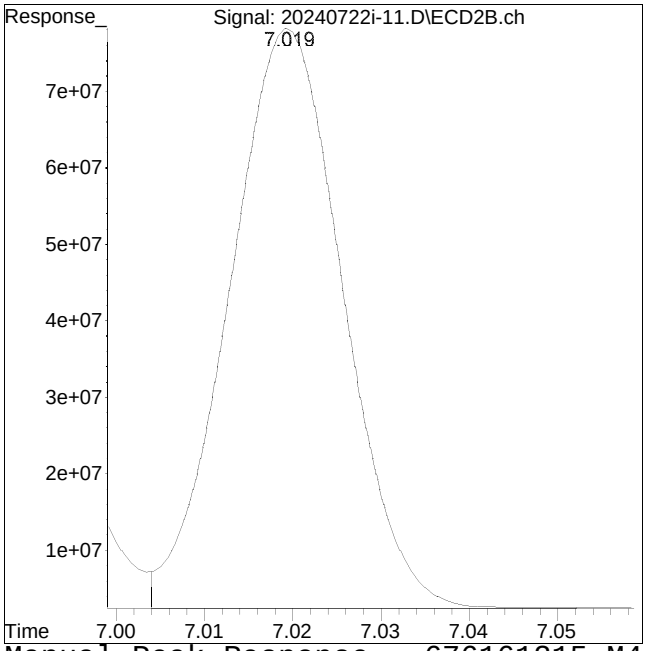
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-11.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 19:48 Instrument : PEST 20
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 7/23/2024 12:50 pm

Compound #64: Endrin Ketone #2





Original Peak Response = 675556454 Manual Peak Response = 676161215 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:01
Operator : pest20:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:56:03 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:55:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.007	2.063	51778957	80973288	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.473	2.663	873.9E6	1390.8E6	374.961M3	384.614
	Spiked Amount	50.000	Range 30 - 150		Recovery =	749.92%#	769.23%#
27) s	Decachlorobi	7.337	7.907	808.7E6	1063.0E6	362.667M4	368.387
	Spiked Amount	50.000	Range 30 - 150		Recovery =	725.33%#	736.77%#
	Target Compounds						
3)	Hexachlorobe	2.740	3.040	899.9E6	1407.3E6	373.883	382.812
4)	alpha-BHC	2.863	3.152	1231.6E6	2002.8E6	392.092M4	403.295
5)	gamma-BHC (l	3.107	3.477	1106.8E6	1805.3E6	389.551M4	400.878
6)	beta-BHC	3.174	3.550	493.4E6	791.1E6	376.377M3	386.283M3
7)	delta-BHC	3.325	3.847	1138.1E6	1866.3E6	396.357	408.132M4
8)	Heptachlor	3.513	3.917	1036.6E6	1618.1E6	381.418M4	388.613M4
9)	Aldrin	3.792	4.267	1035.0E6	1561.6E6	388.288	395.919
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	4.407	4.929	935.5E6	1455.1E6	382.512M3	390.278
13)	gamma-Chlord	4.544	5.140	869.4E6	1306.9E6	389.255M4	397.011M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:01
Operator : pest20:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:56:03 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:55:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14)	alpha-Chlord	4.693	5.296	971.5E6	1440.5E6	386.129M4	393.469M4
15)	4,4'-DDE	4.794	5.474	1004.1E6	1466.3E6	389.272M4	393.749
16)	Endosulfan I	4.845	5.354	893.0E6	1343.3E6	385.208M3	391.400M4
17)	Dieldrin	5.108	5.627	947.1E6	1424.3E6	388.755M4	396.897M4
18)	Endrin	5.345	5.911	939.7E6	1439.9E6	385.086M4	393.853M4
19)	4,4'-DDD	5.434	6.018	798.3E6	1200.6E6	385.939M4	394.753M4
20)	Endosulfan I	5.565	6.100	815.7E6	1255.7E6	380.859M4	387.626M4
21)	4,4'-DDT	5.704	6.285	850.8E6	1314.3E6	381.523M4	388.703M4
22)	Endrin Aldeh	5.958	6.385	696.8E6	1067.1E6	377.112M4	385.885M3
23)	Methoxychlor	6.154	6.833	437.9E6	655.2E6	356.151M4	363.188M4
24)	Mirex	6.234	6.989	683.1E6	974.8E6	364.608M3	372.961M4
25)	Endosulfan S	6.333	6.608	759.8E6	1200.3E6	376.557M3	385.739M3
26)	Endrin Keton	6.556	7.021	866.2E6	1349.7E6	373.431M4	381.166M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:01
Operator : pest20:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:56:03 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:55:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

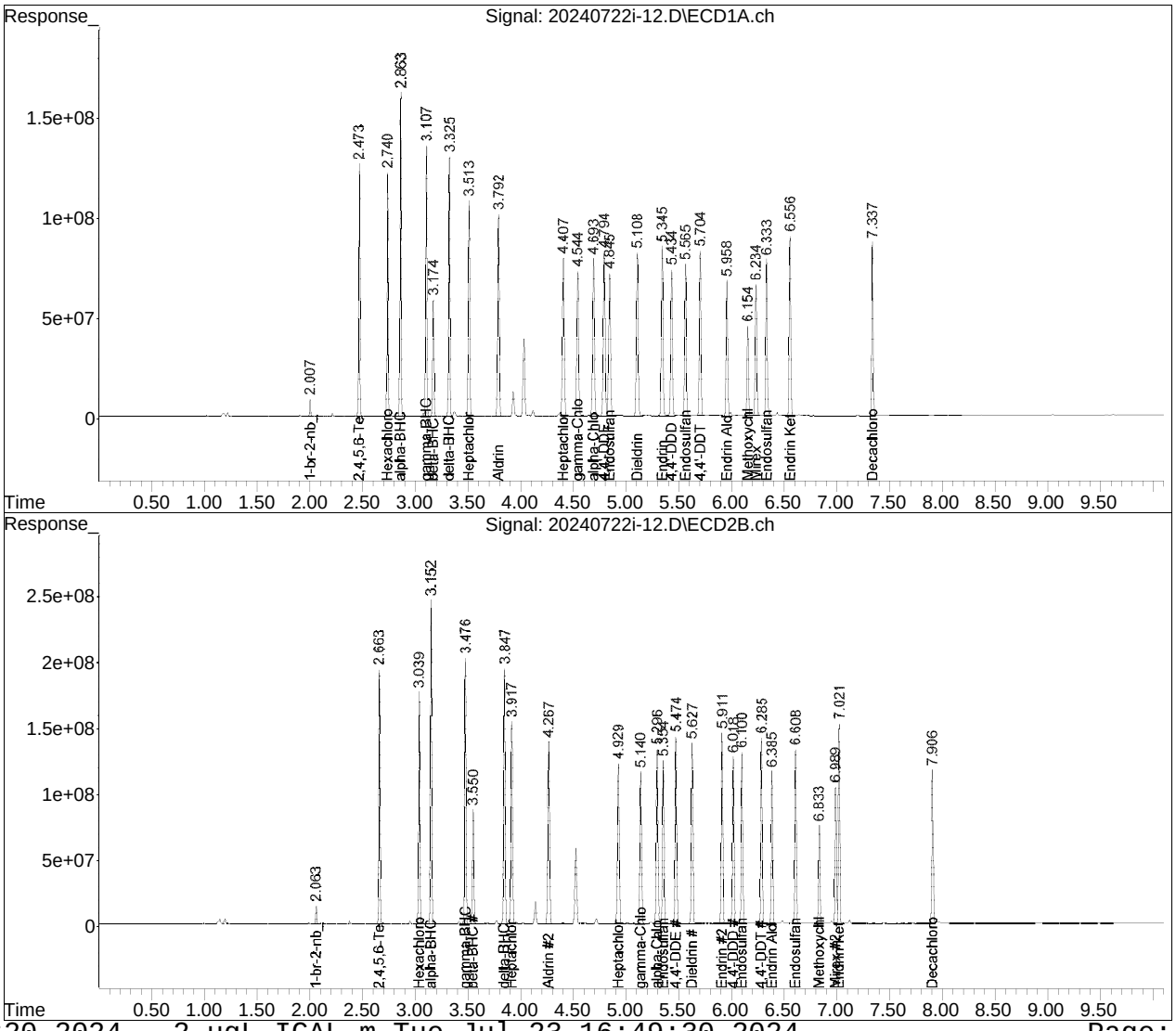
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:01
Operator : pest20:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 12:56:03 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 12:55:55 2024
Response via : Initial Calibration
Integrator: ChemStation

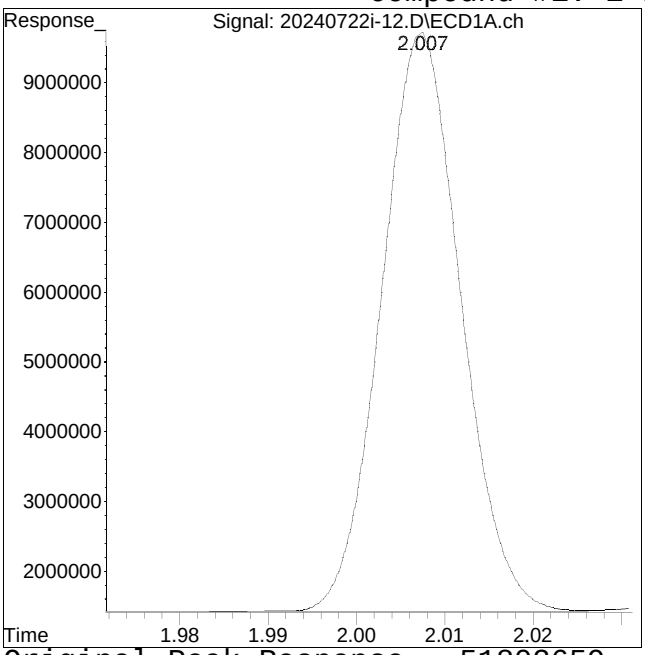
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



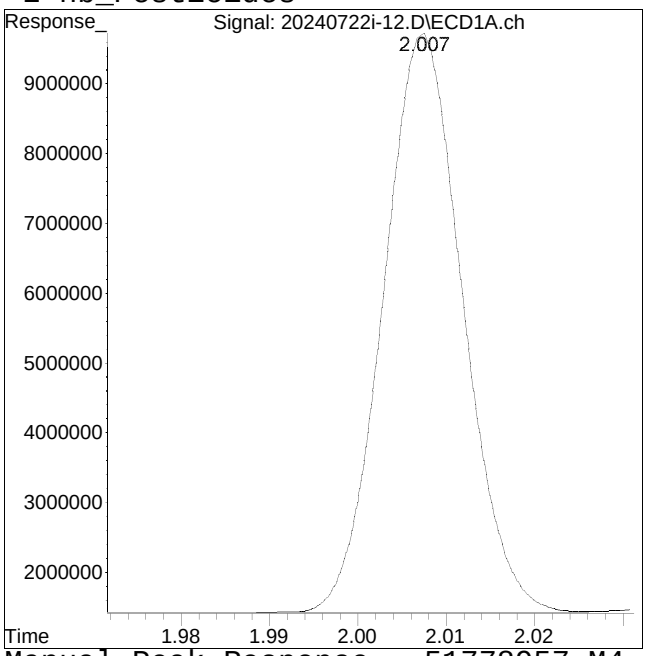
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 51802659



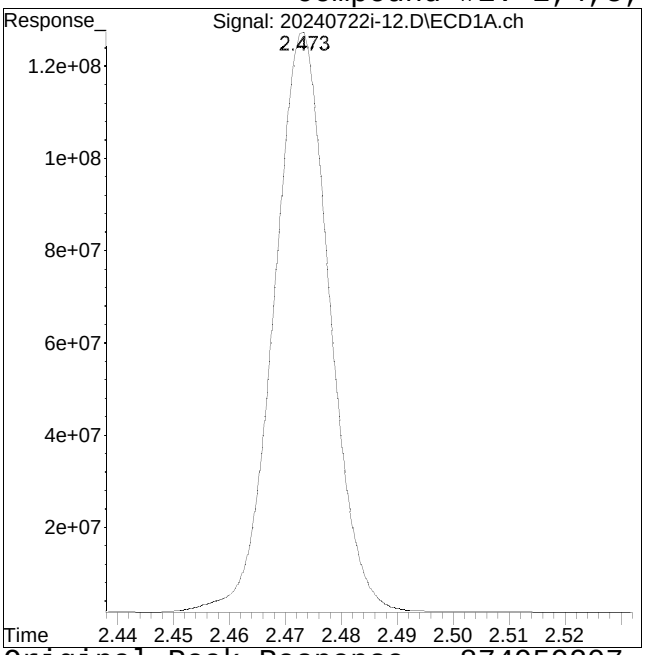
Manual Peak Response = 51778957 M4

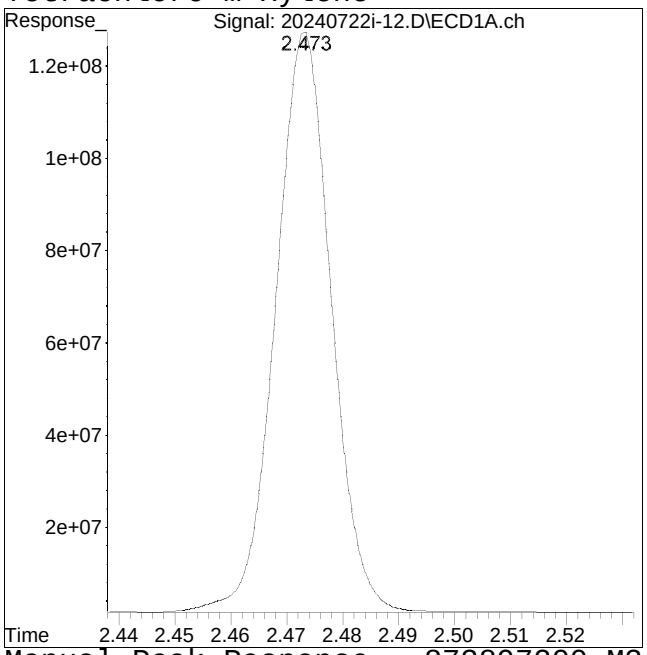
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





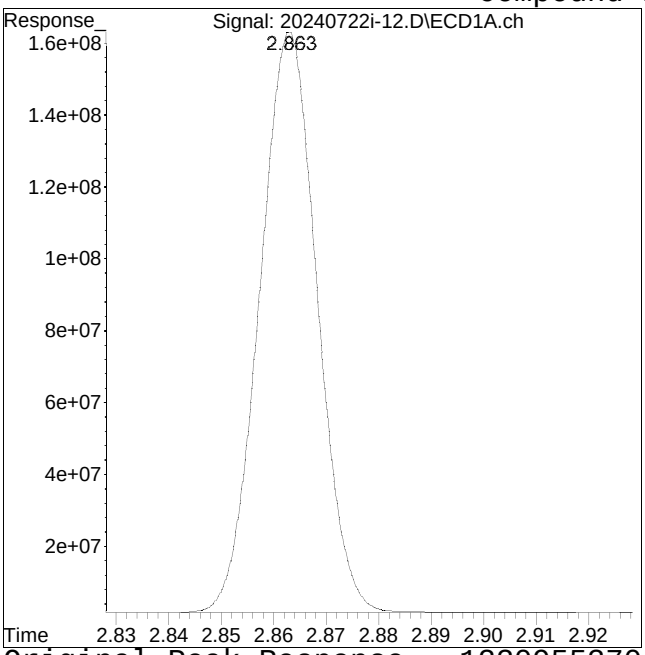
Original Peak Response = 874959207 Manual Peak Response = 873897200 M3

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

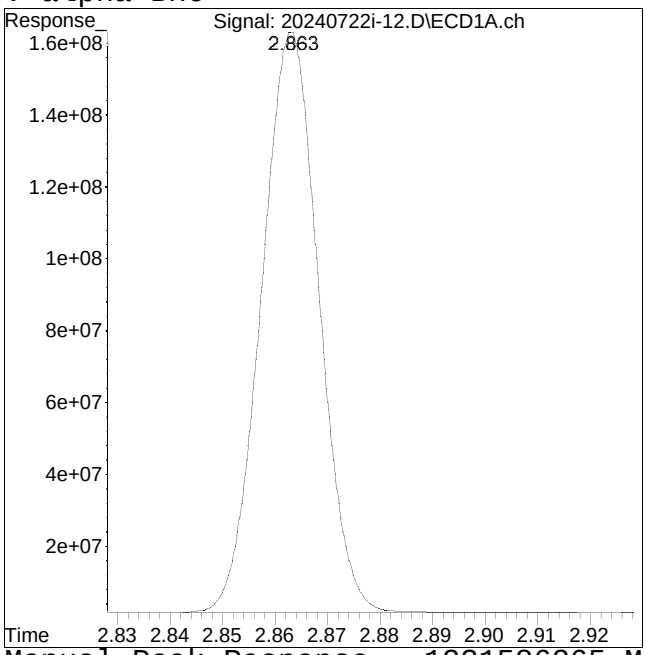
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #4: alpha-BHC



Original Peak Response = 1230955370



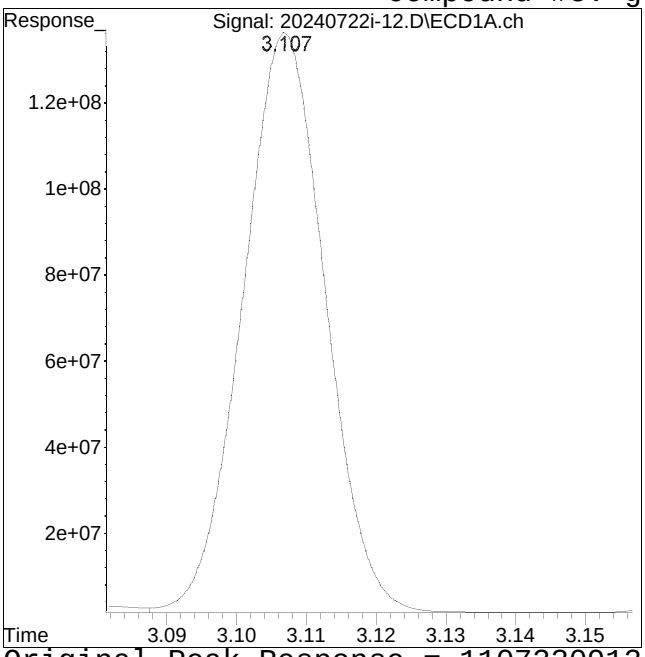
Manual Peak Response = 1231586265 M4

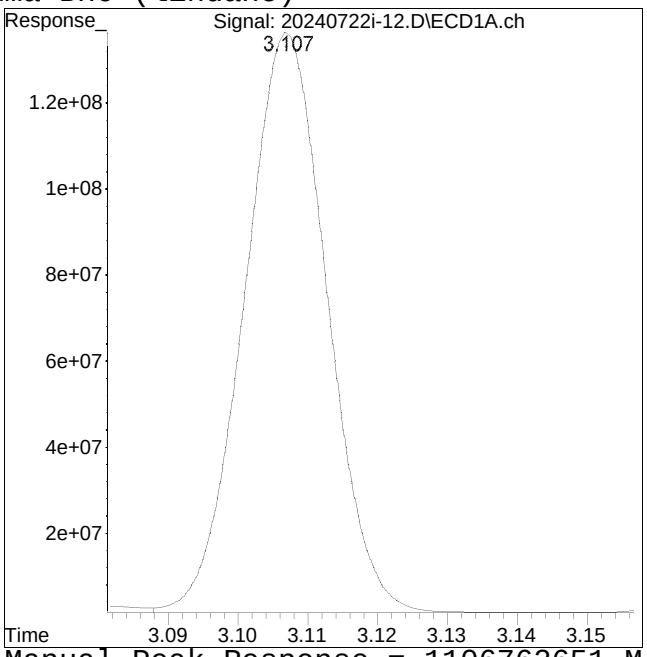
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #5: gamma-BHC (lindane)



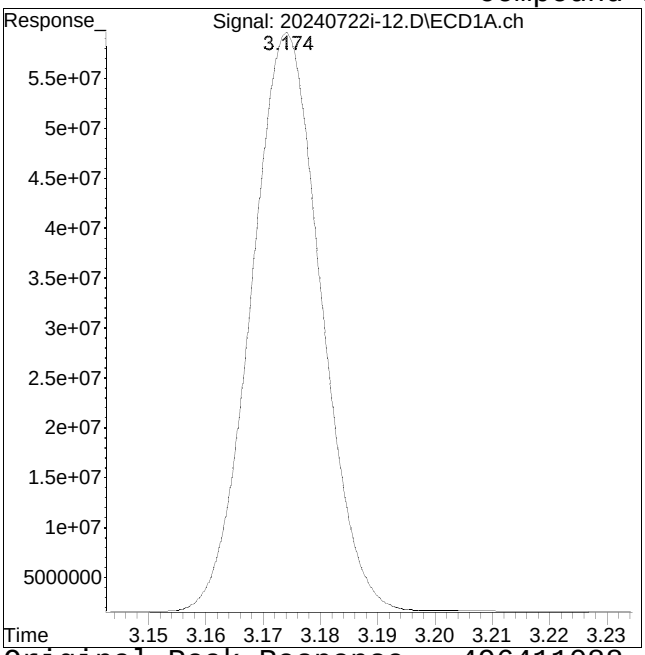


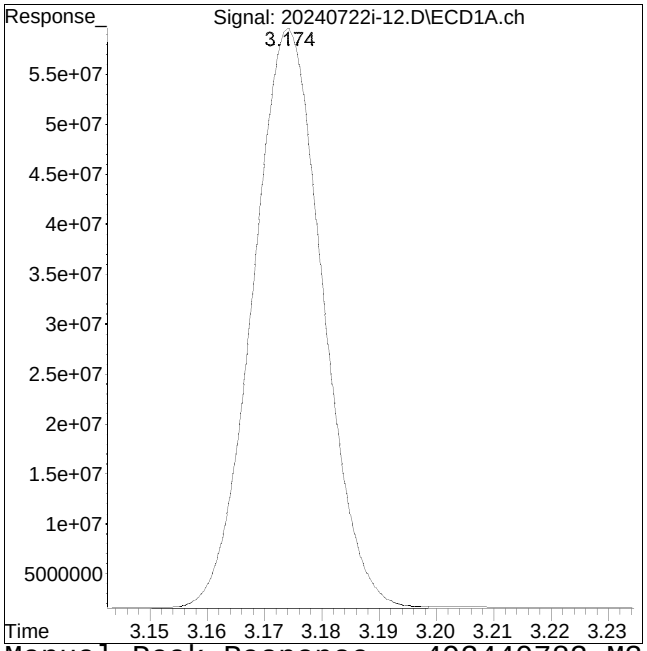
Original Peak Response = 1107330913 Manual Peak Response = 1106762651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #6: beta-BHC





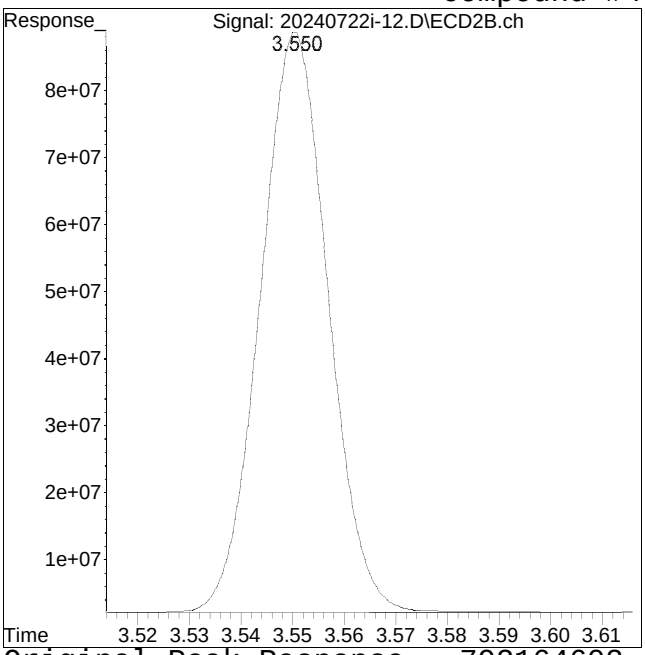
Original Peak Response = 496411088 Manual Peak Response = 493440783 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

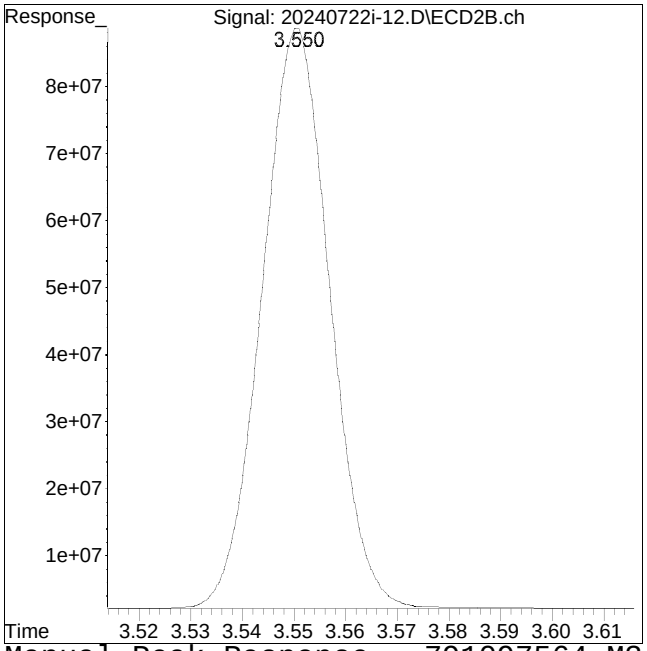
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #44: beta-BHC #2





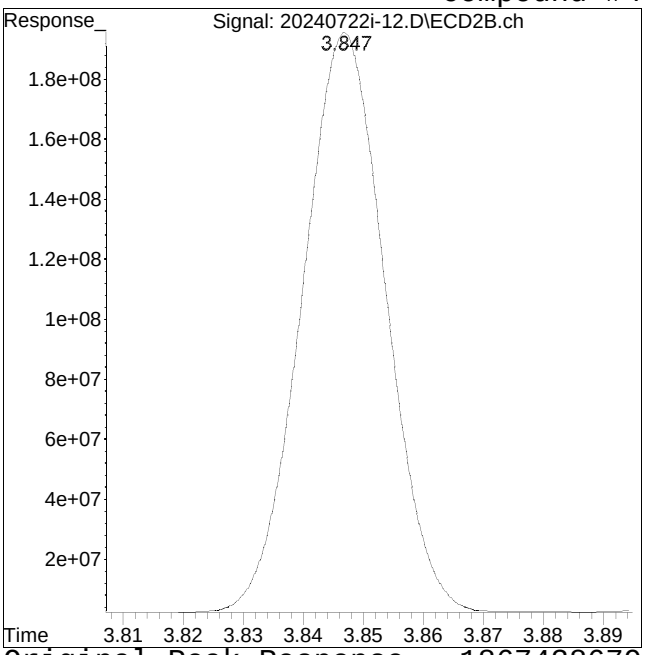
Original Peak Response = 792164602 Manual Peak Response = 791097564 M3

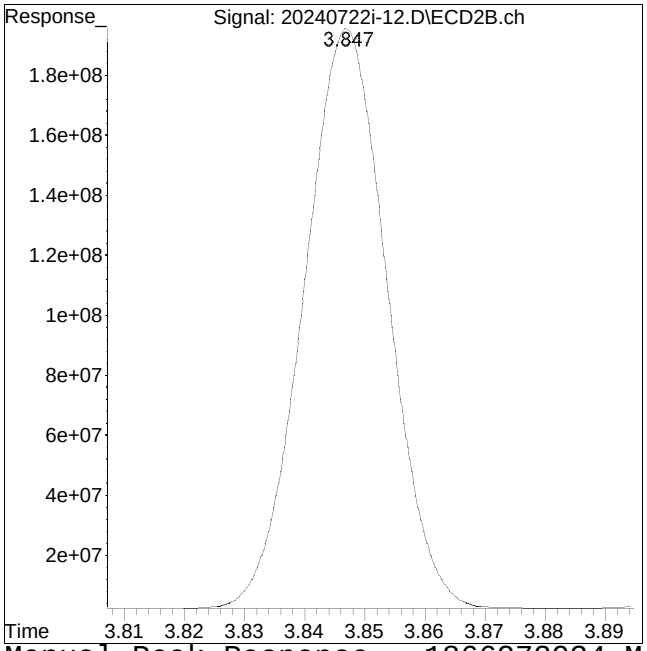
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #45: delta-BHC #2



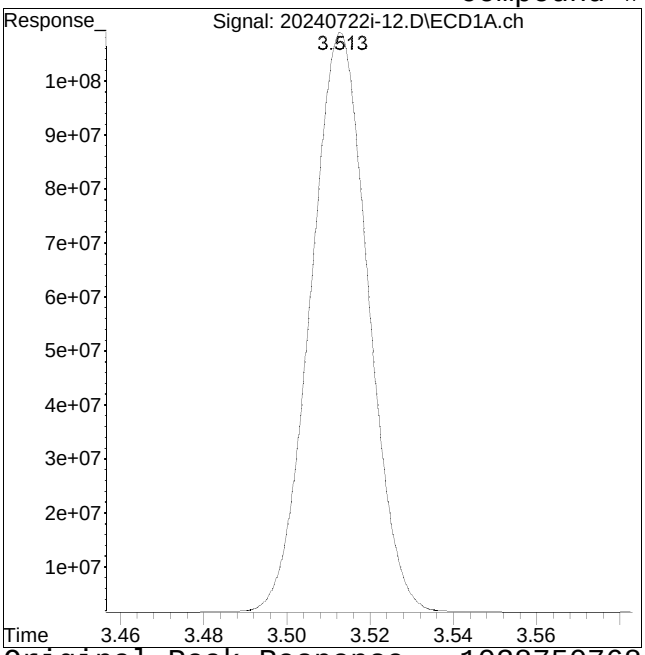


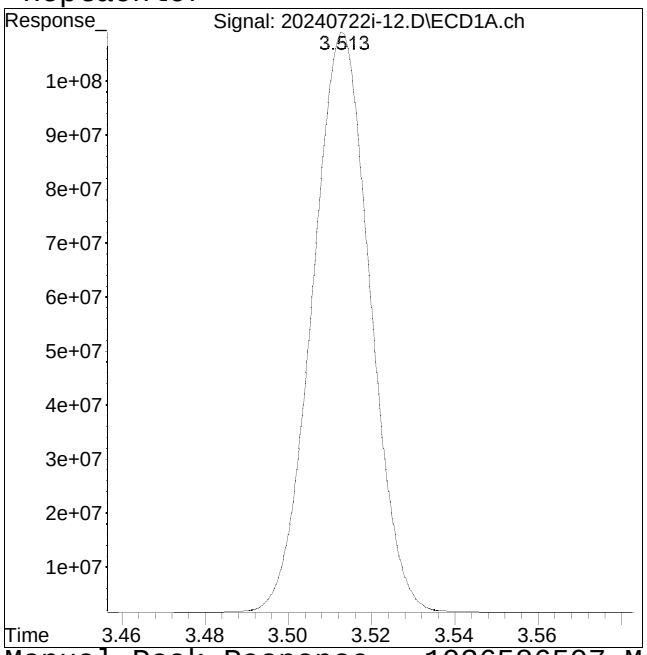
Original Peak Response = 1867438679 Manual Peak Response = 1866272934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #8: Heptachlor





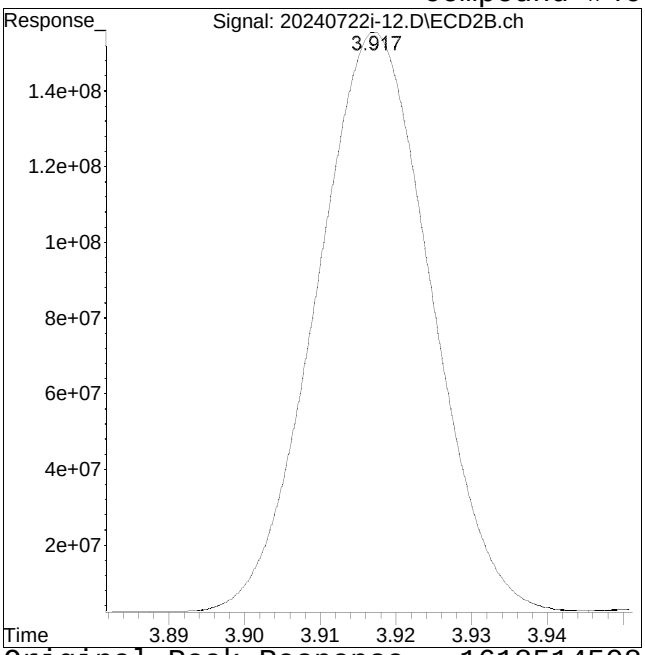
Original Peak Response = 1038750768 Manual Peak Response = 1036586507 M4
M4 = Poor automated baseline construction.

Manual Integration Report

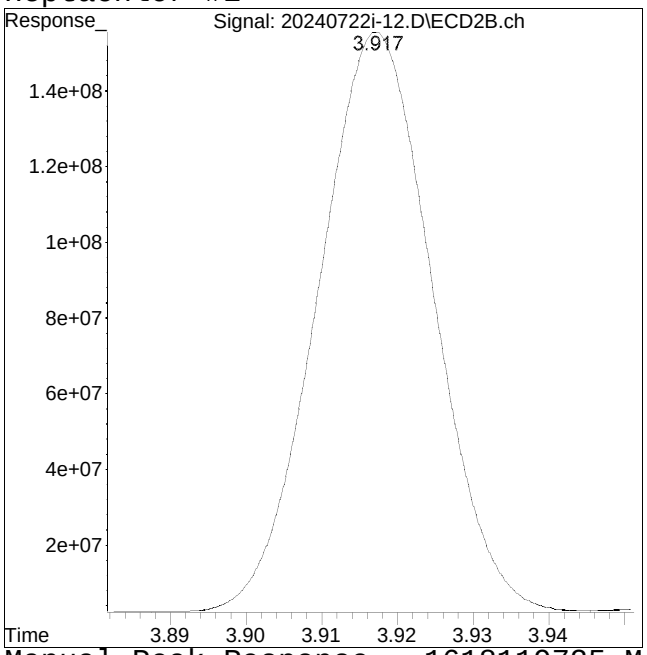
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #46: Heptachlor #2



Original Peak Response = 1618514508



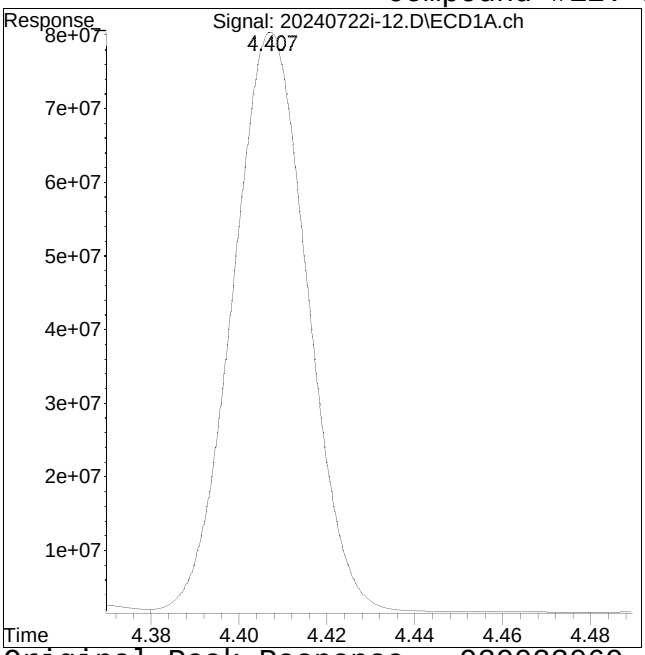
Manual Peak Response = 1618119725 M4

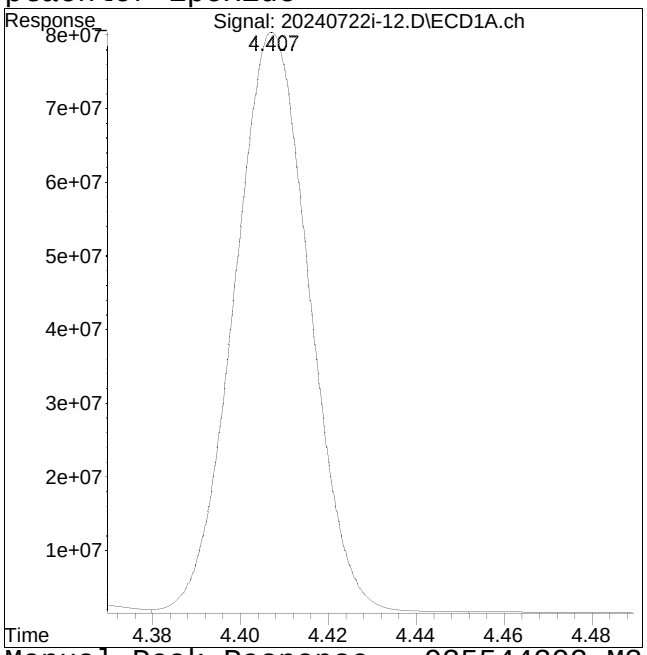
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #12: Heptachlor Epoxide





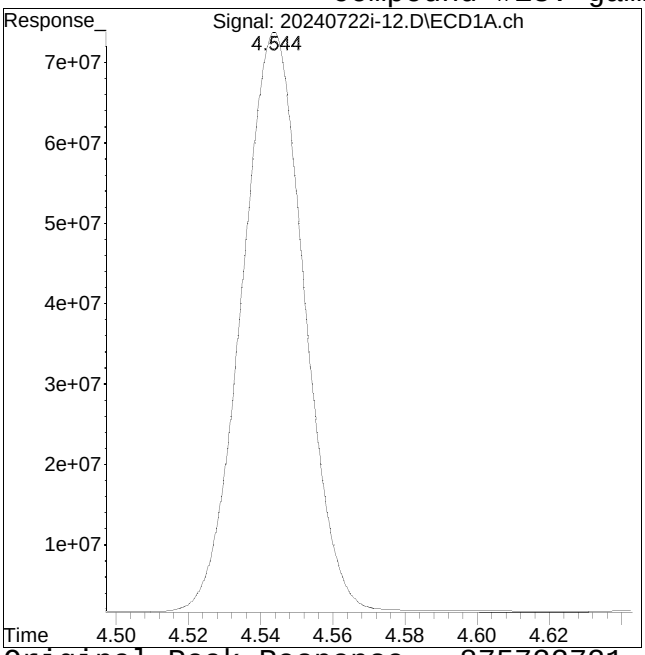
Original Peak Response = 939023069 Manual Peak Response = 935544392 M3

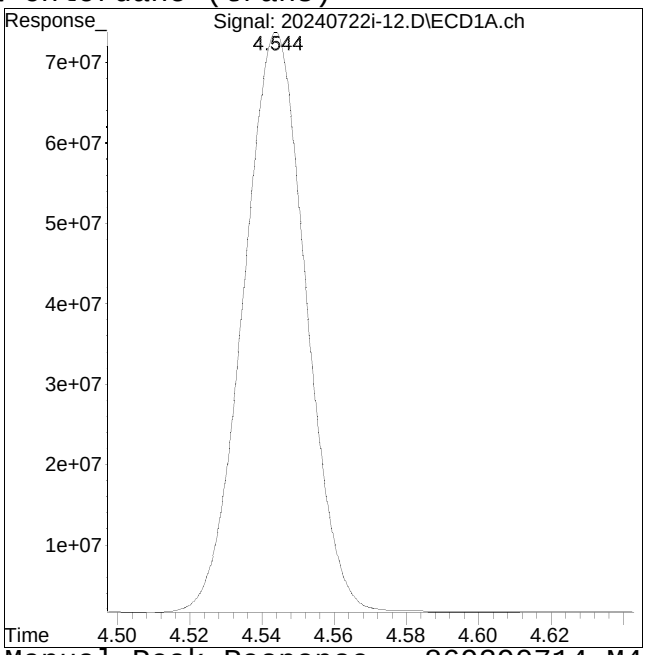
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #13: gamma-Chlordane (trans)



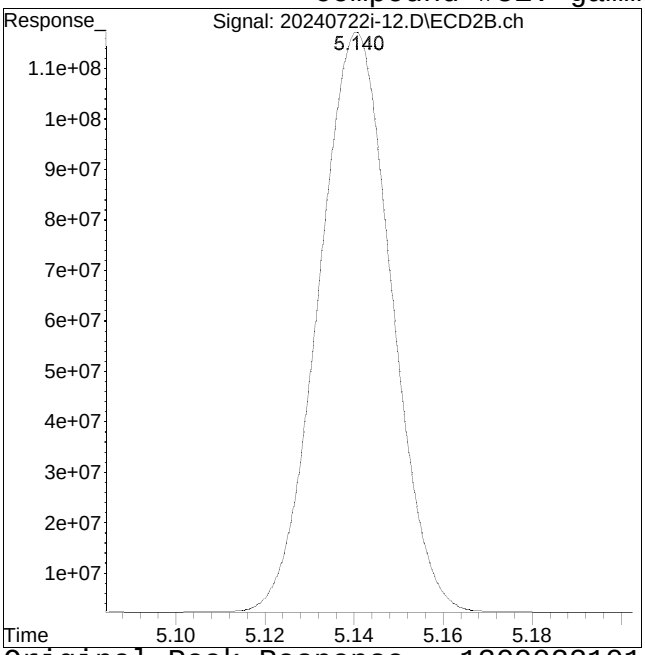


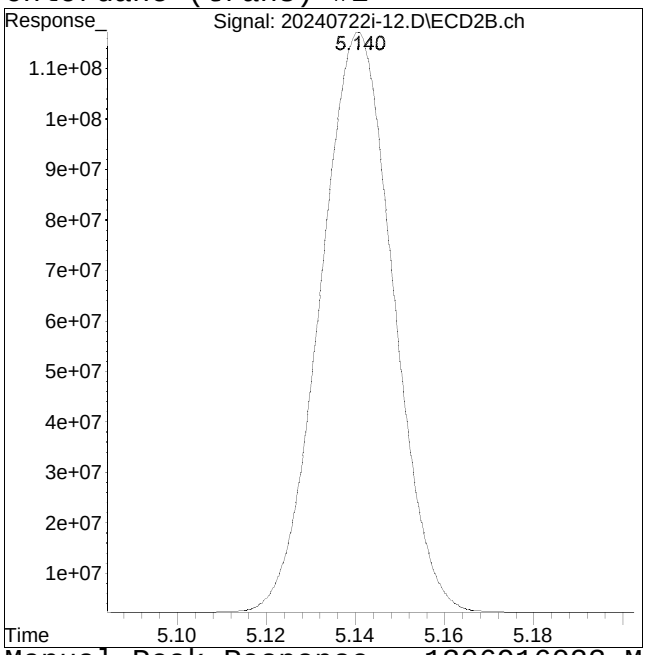
Original Peak Response = 875732721 Manual Peak Response = 869390714 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #51: gamma-Chlordane (trans) #2



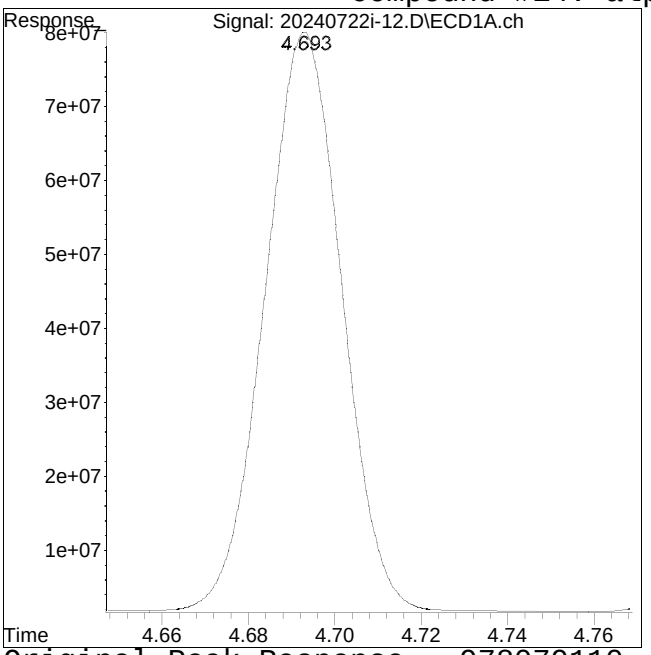


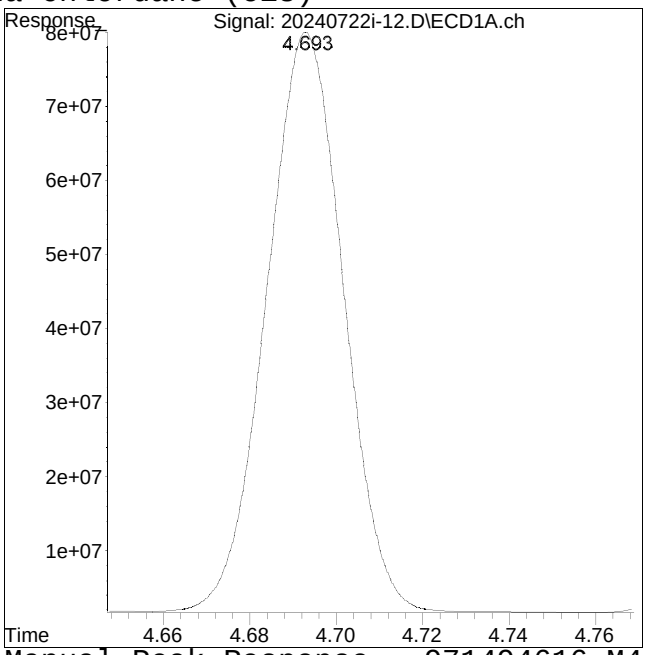
Original Peak Response = 1309023101 Manual Peak Response = 1306916023 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #14: alpha-Chlordane (cis)



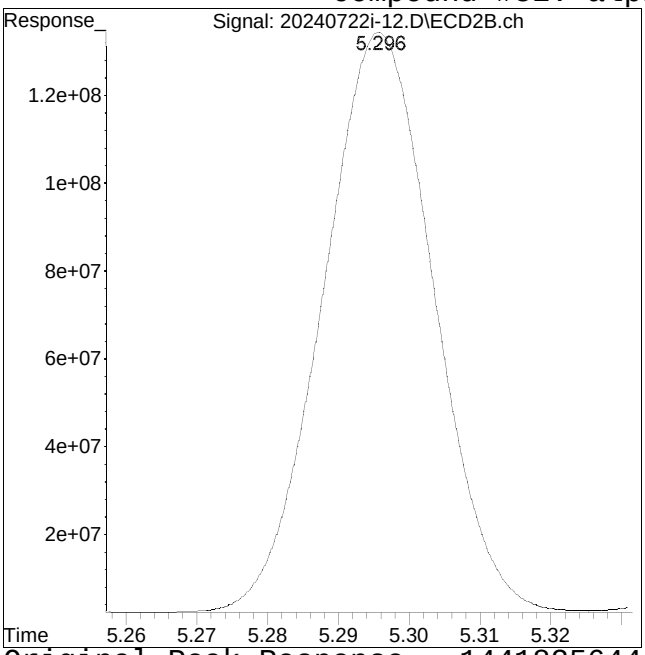


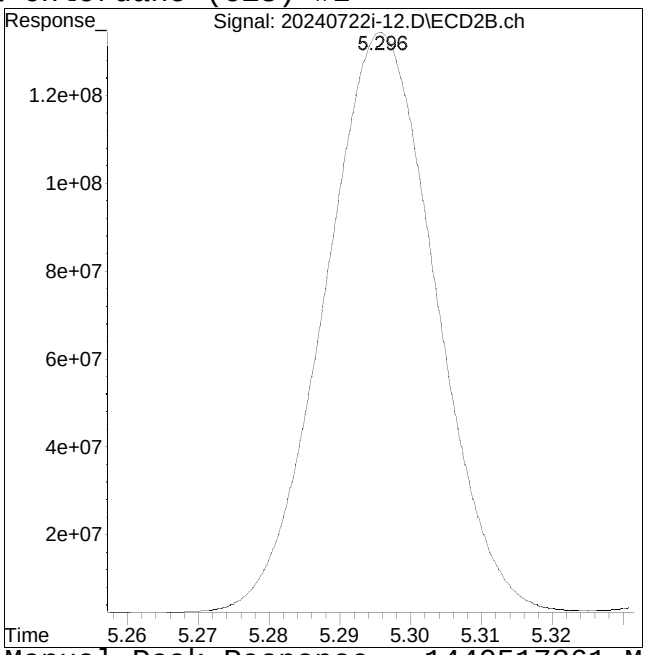
Original Peak Response = 978079110 Manual Peak Response = 971494616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #52: alpha-Chlordane (cis) #2



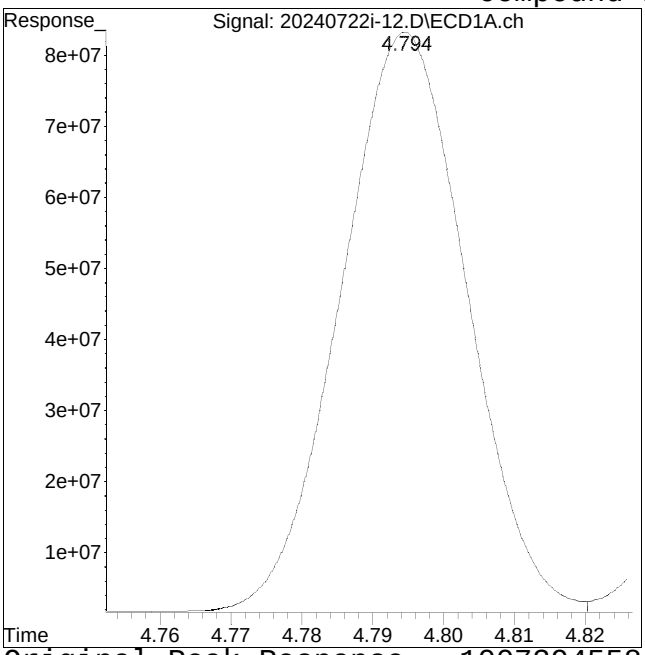


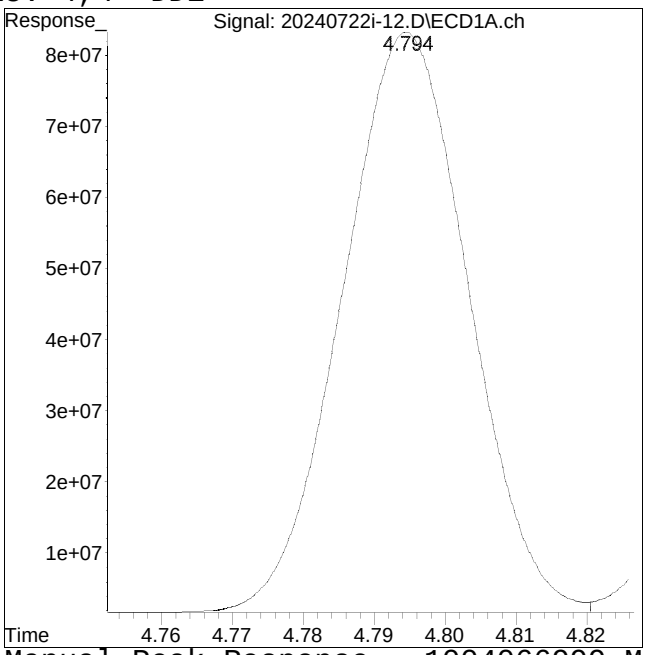
Original Peak Response = 1441825644 Manual Peak Response = 1440517361 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #15: 4,4'-DDE



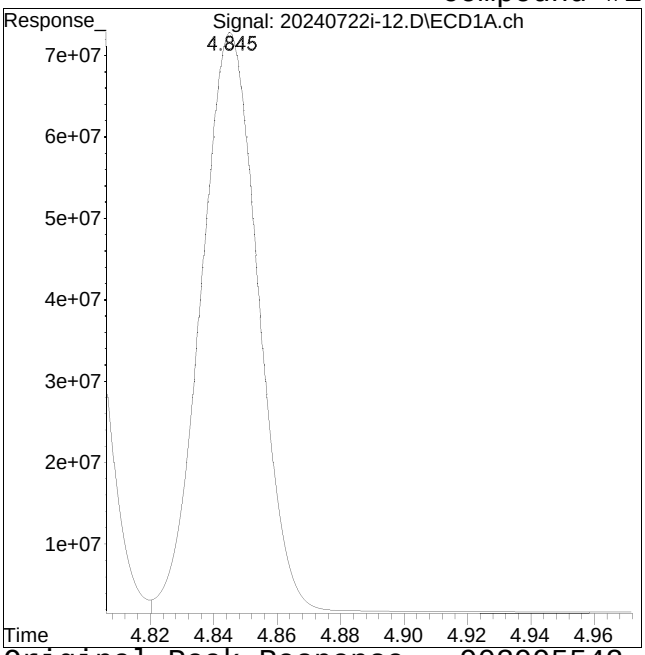


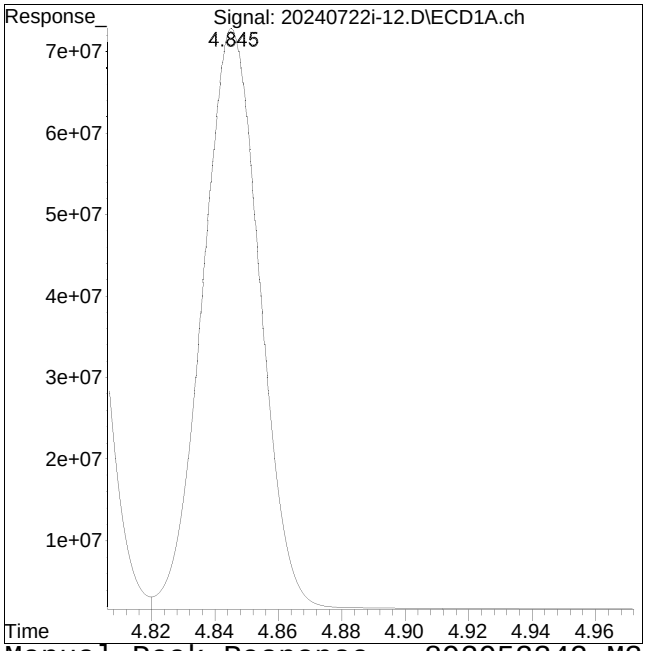
Original Peak Response = 1007394558 Manual Peak Response = 1004066999 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #16: Endosulfan I



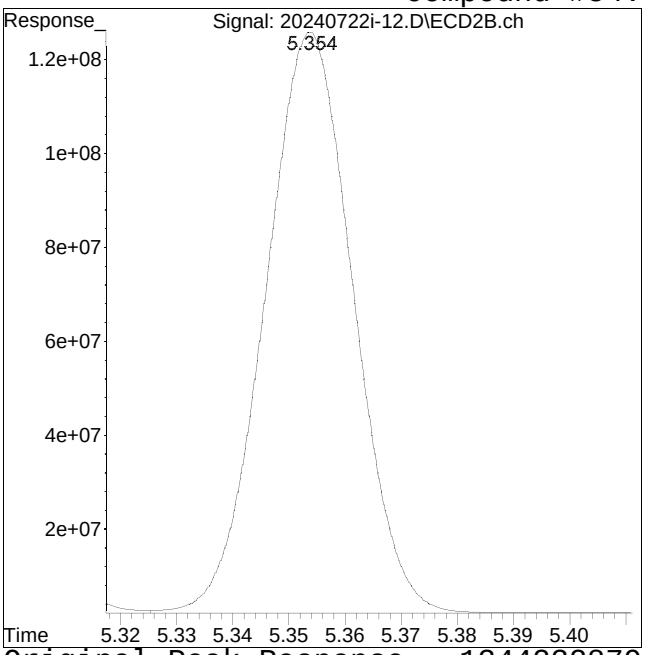


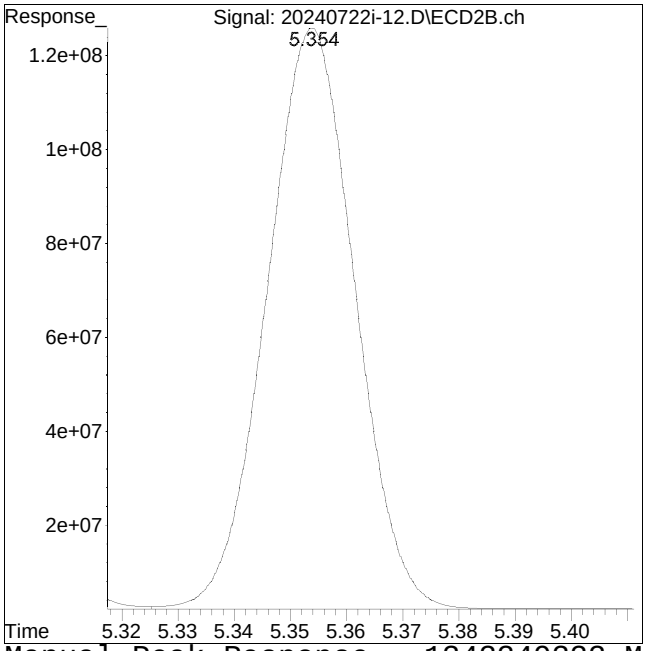
Original Peak Response = 903995542 Manual Peak Response = 892953342 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #54: Endosulfan I #2



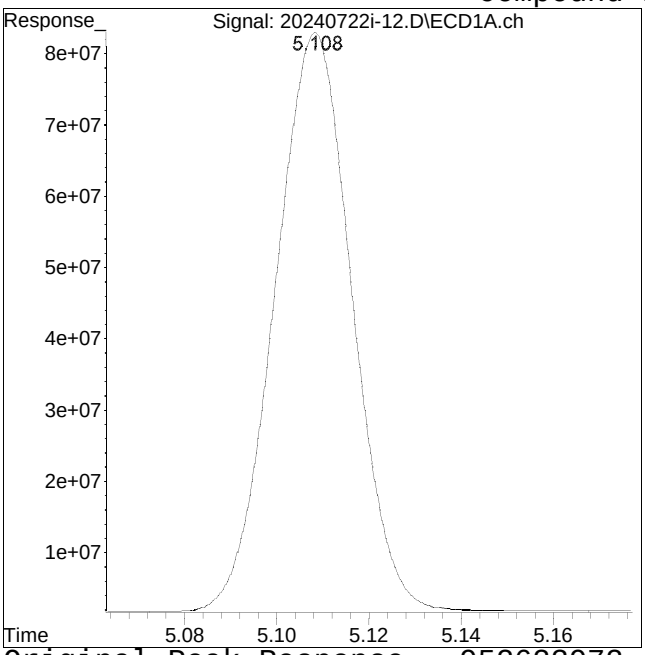


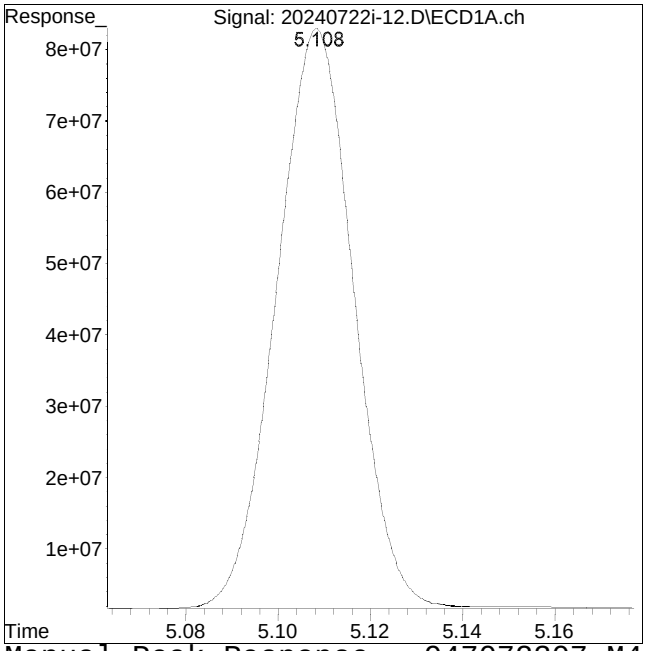
Original Peak Response = 1344232879 Manual Peak Response = 1343349333 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #17: Dieldrin



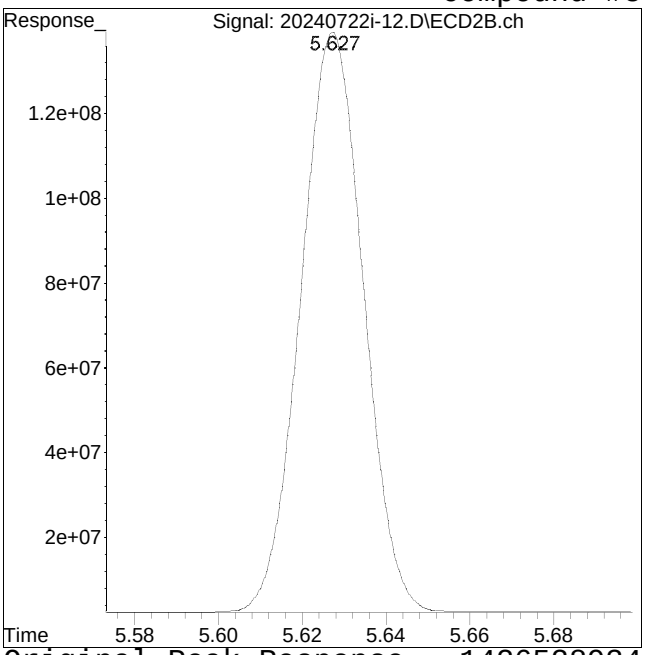


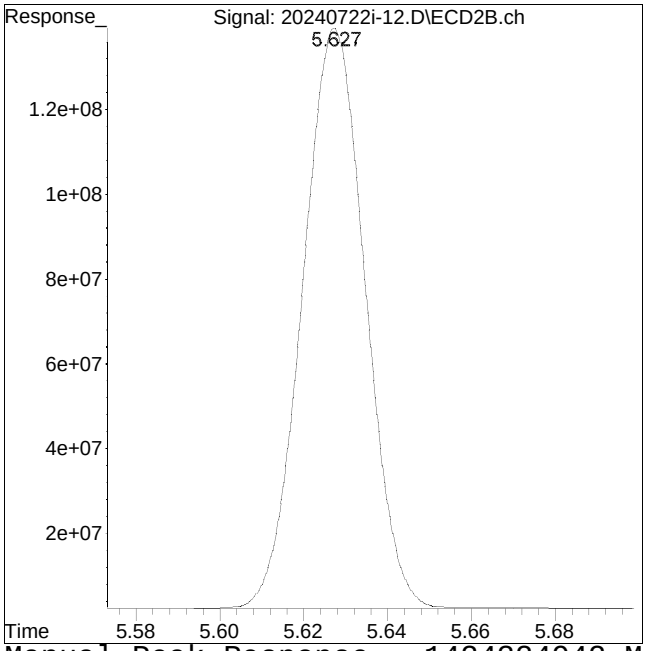
Original Peak Response = 952623972 Manual Peak Response = 947072307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #55: Dieldrin #2



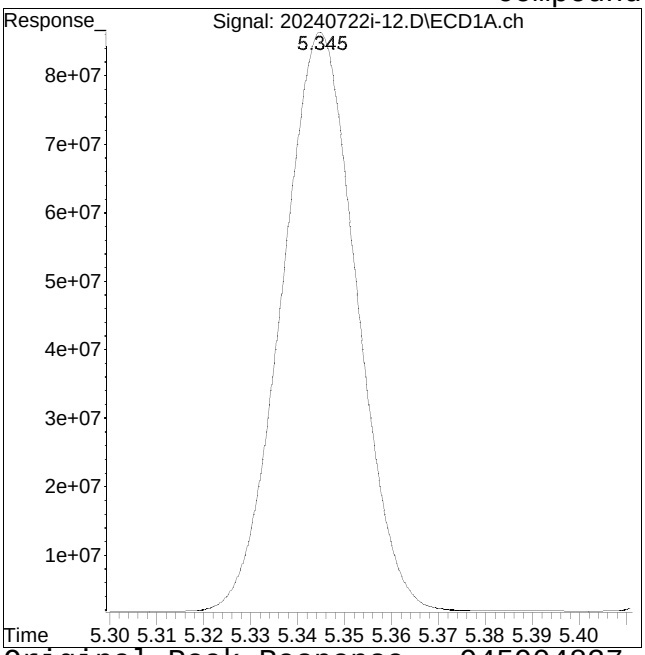


Original Peak Response = 1426528934 Manual Peak Response = 1424324942 M4
M4 = Poor automated baseline construction.

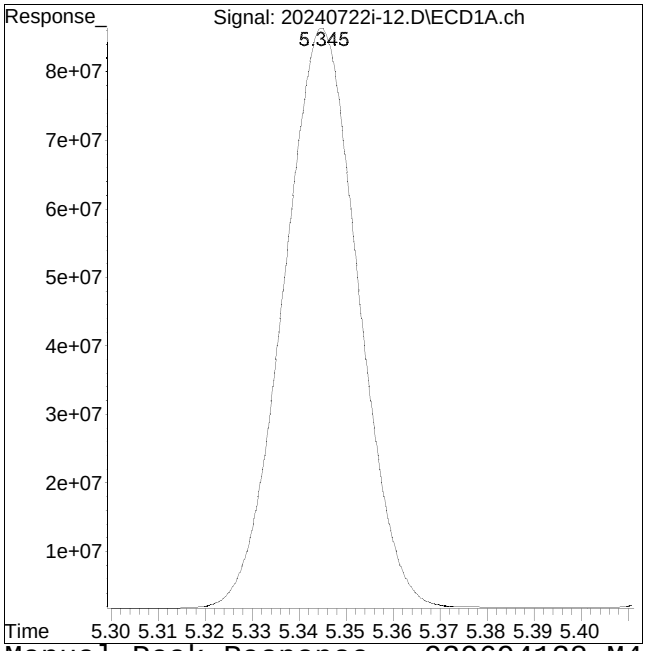
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #18: Endrin



Original Peak Response = 945904837



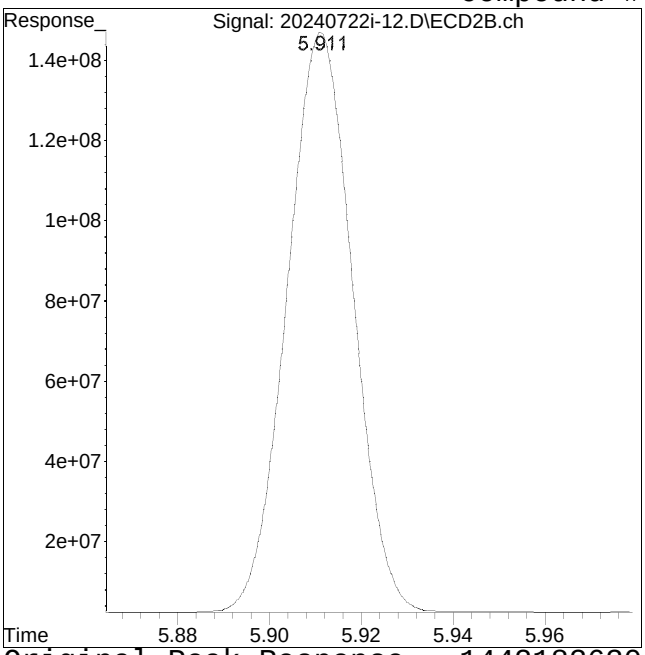
Manual Peak Response = 939694138 M4

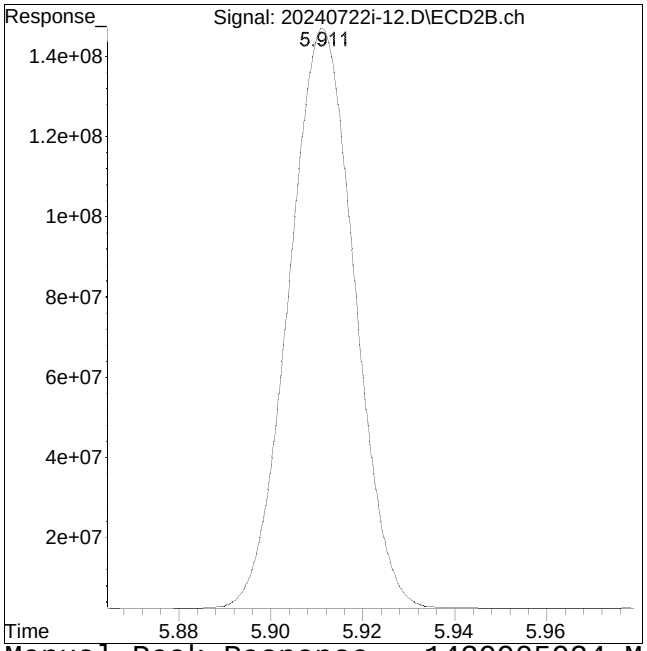
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #56: Endrin #2



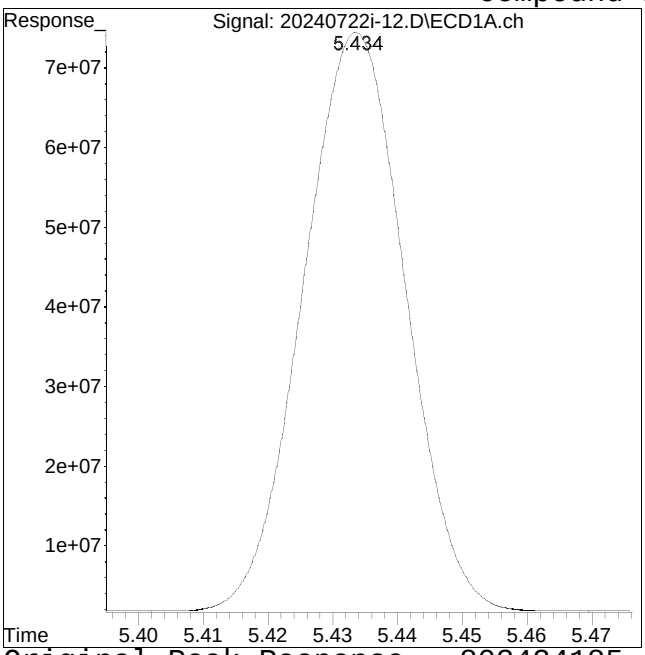


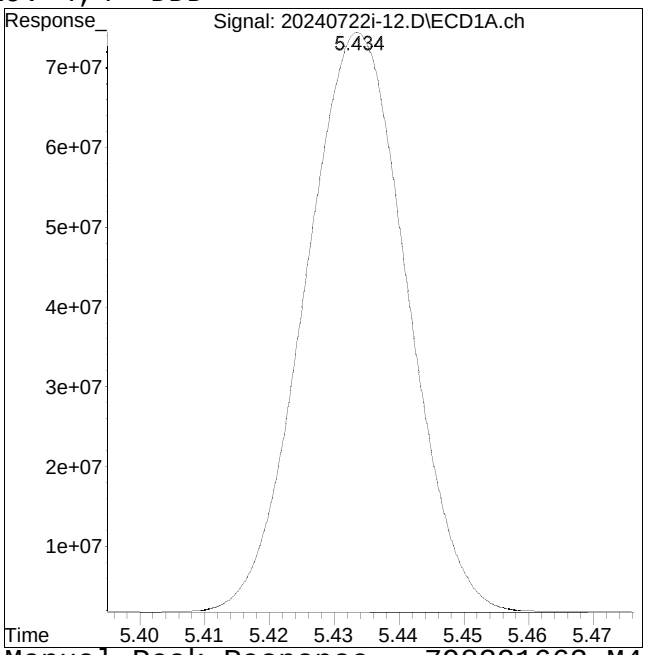
Original Peak Response = 1442183630 Manual Peak Response = 1439905924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #19: 4,4'-DDD



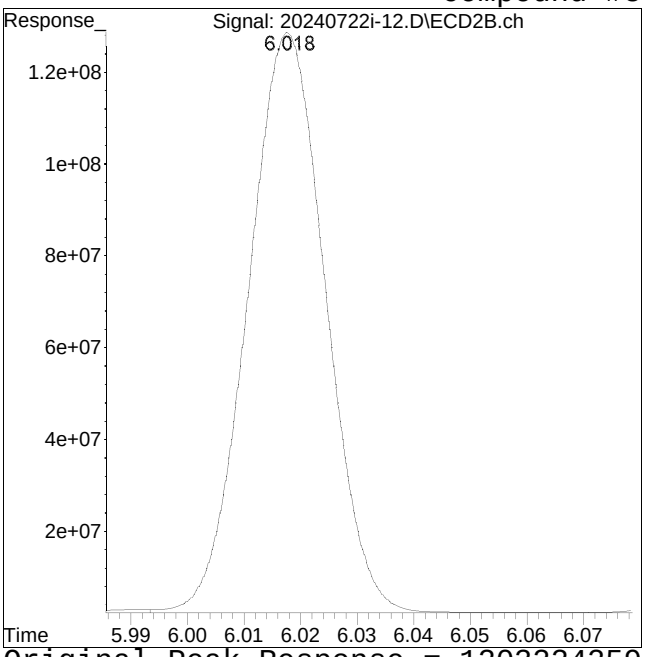


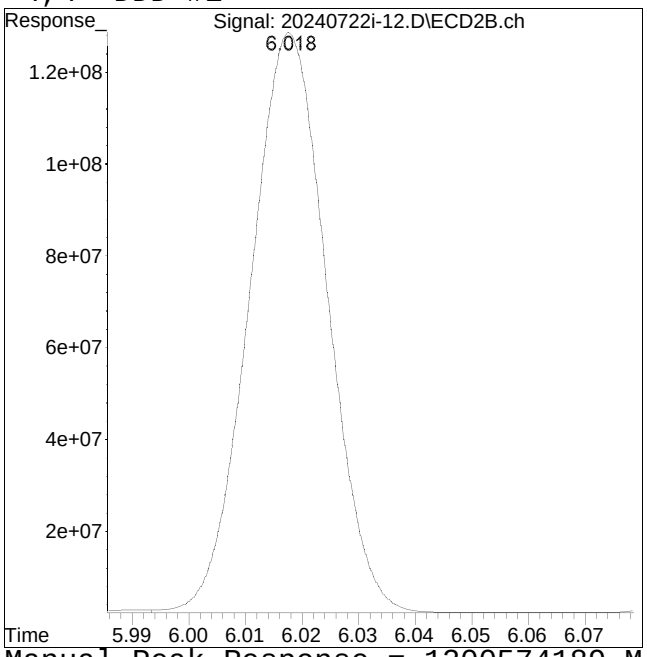
Original Peak Response = 803424185 Manual Peak Response = 798321663 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #57: 4,4'-DDD #2



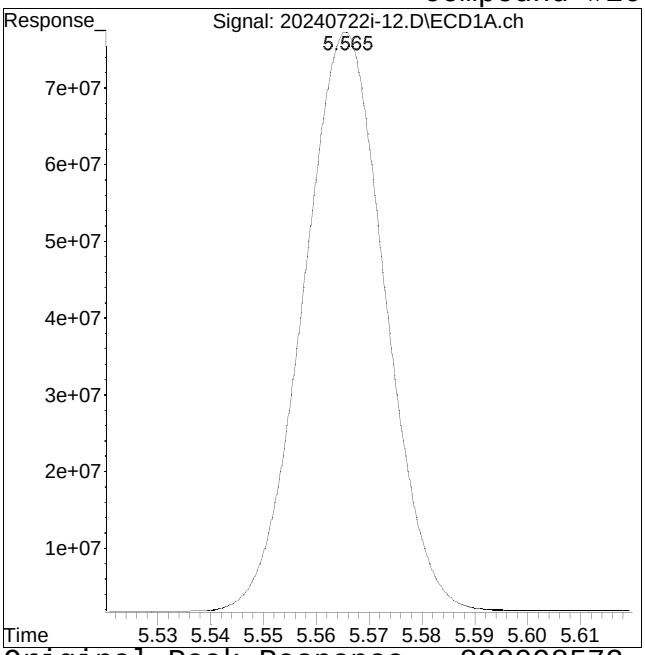


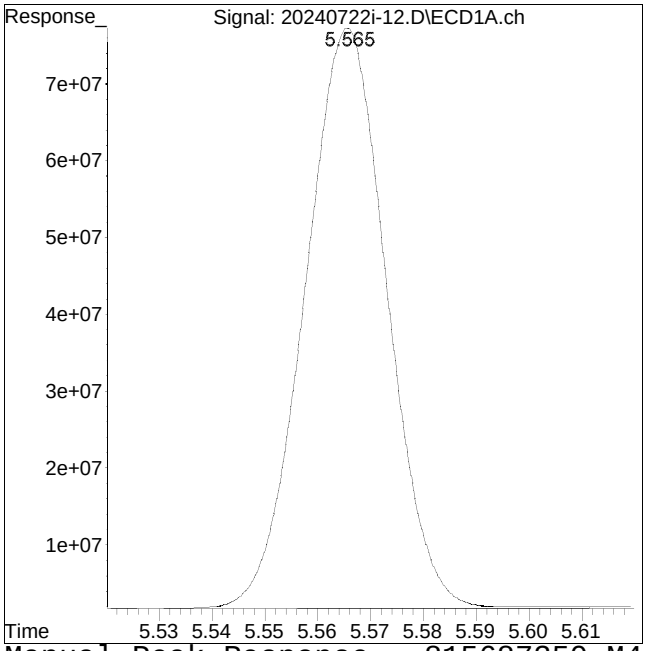
Original Peak Response = 1203224259 Manual Peak Response = 1200574189 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #20: Endosulfan II



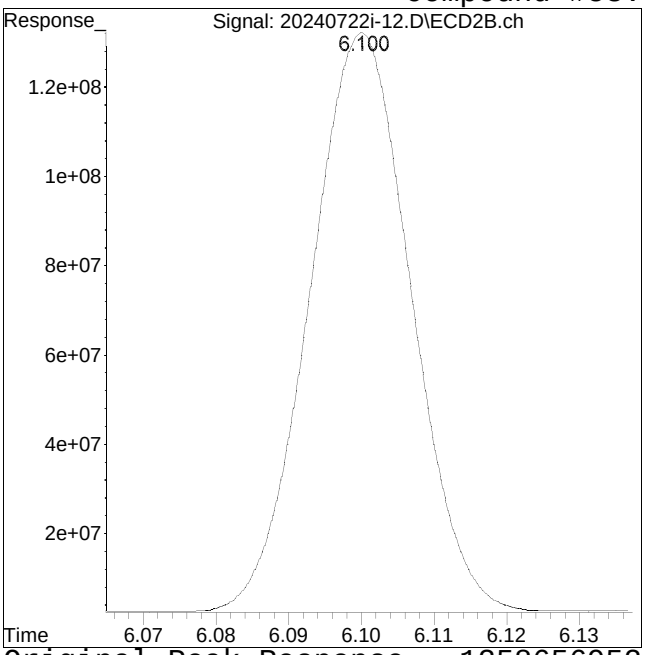


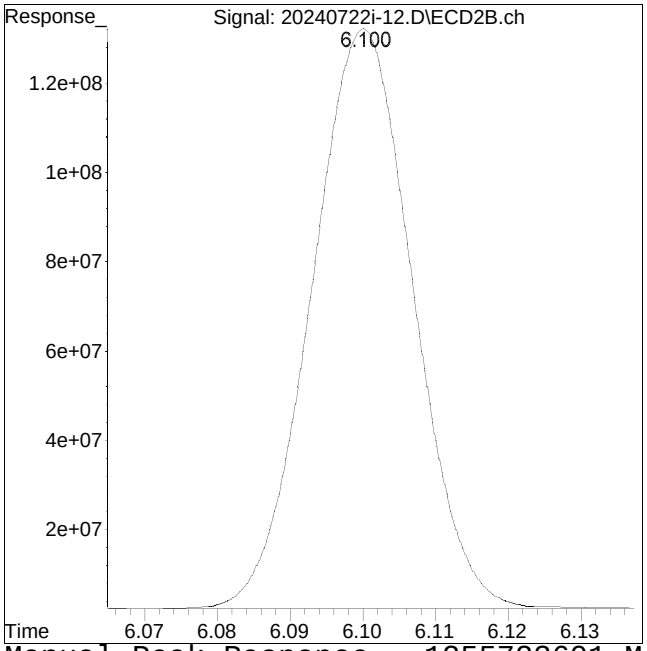
Original Peak Response = 822098572 Manual Peak Response = 815687350 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #58: Endosulfan II #2



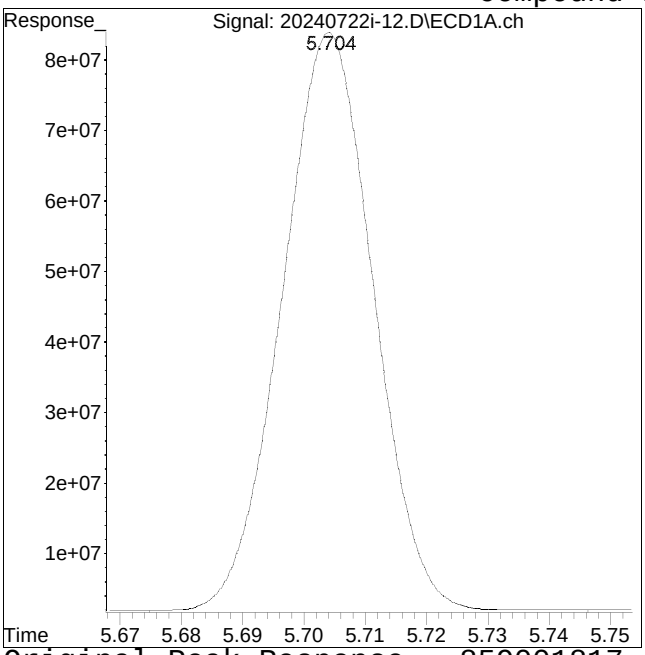


Original Peak Response = 1258656952 Manual Peak Response = 1255723601 M4
M4 = Poor automated baseline construction.

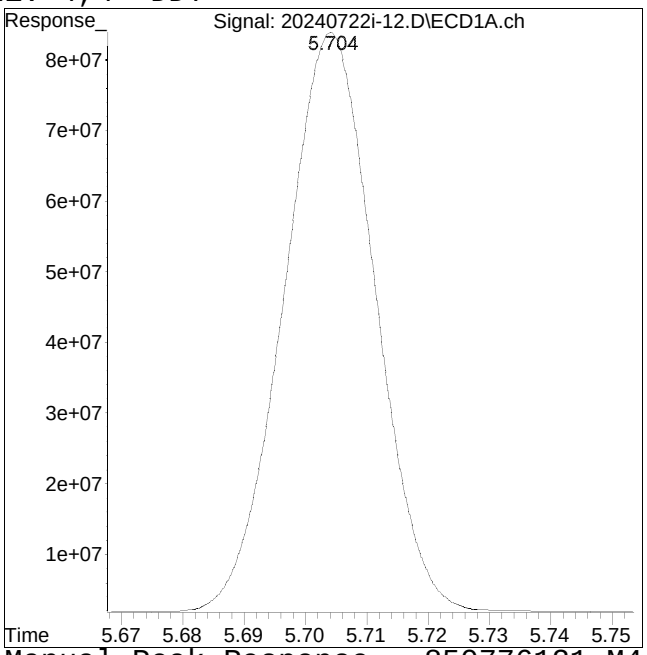
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #21: 4,4'-DDT



Original Peak Response = 859001817



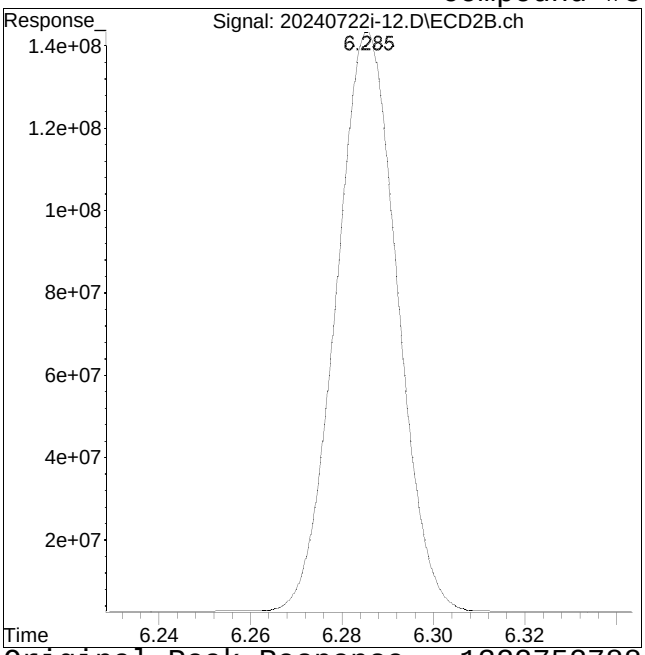
Manual Peak Response = 850776121 M4

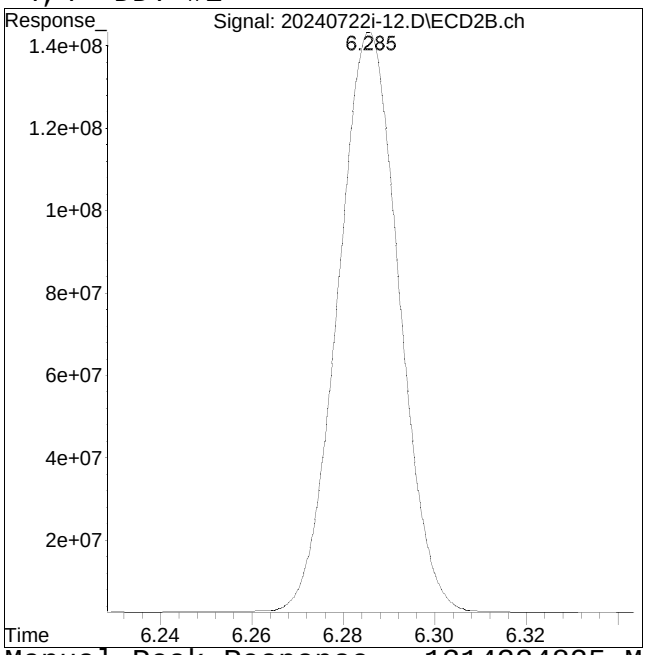
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #59: 4,4'-DDT #2



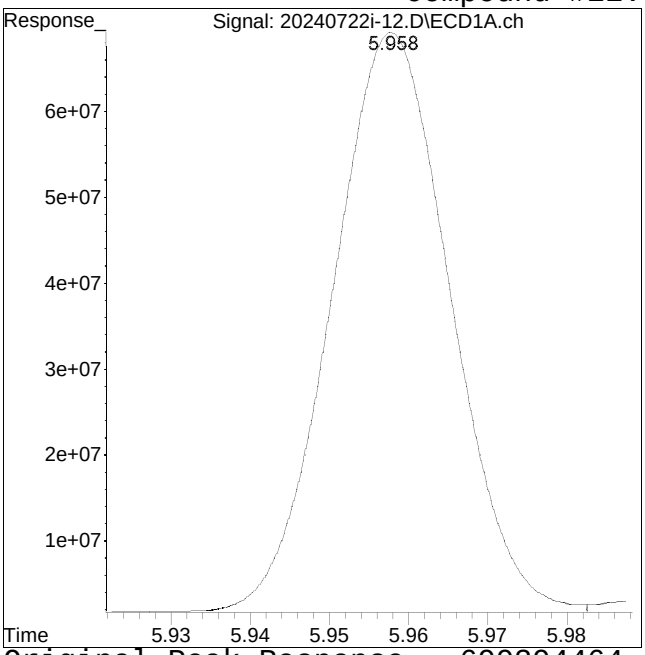


Original Peak Response = 1322752788 Manual Peak Response = 1314334825 M4
M4 = Poor automated baseline construction.

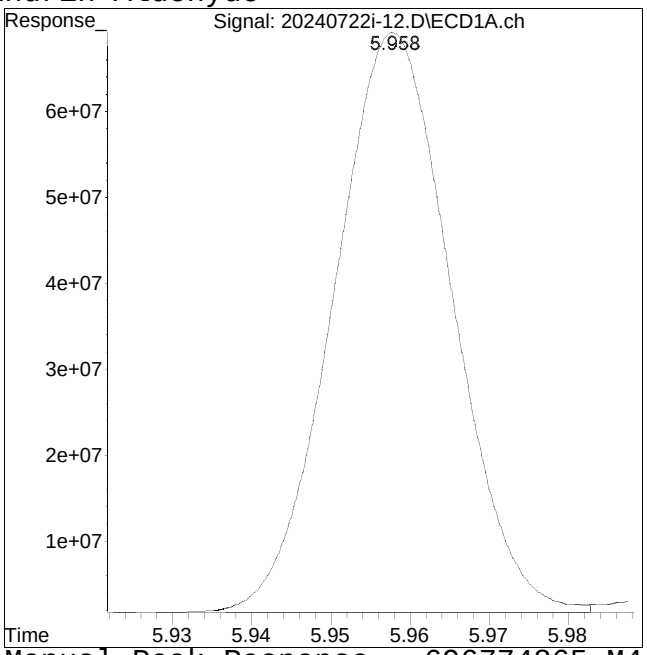
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 699394464



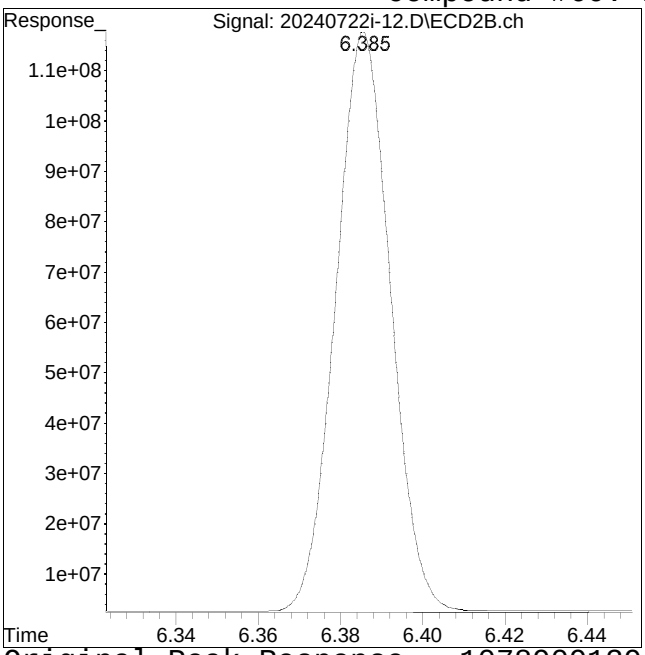
Manual Peak Response = 696774865 M4

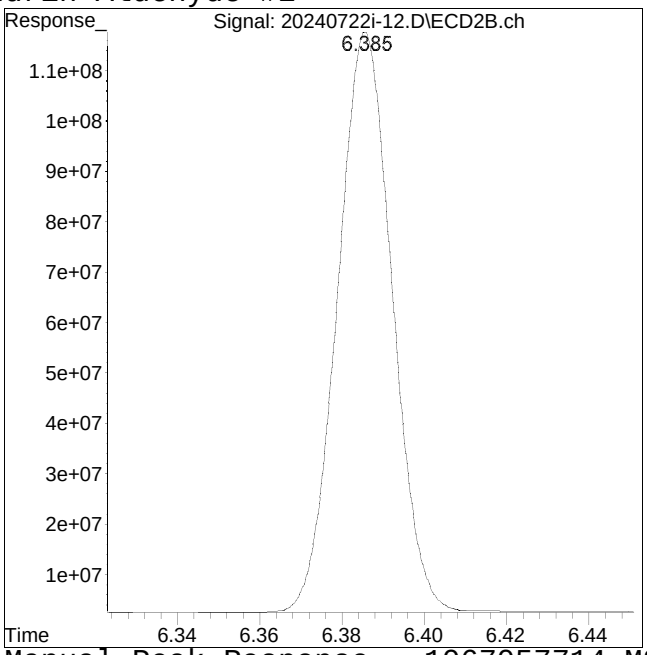
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #60: Endrin Aldehyde #2



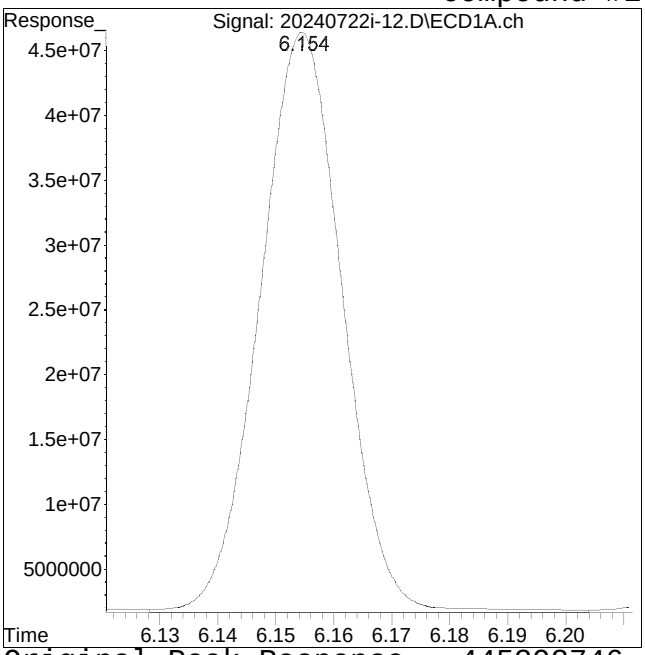


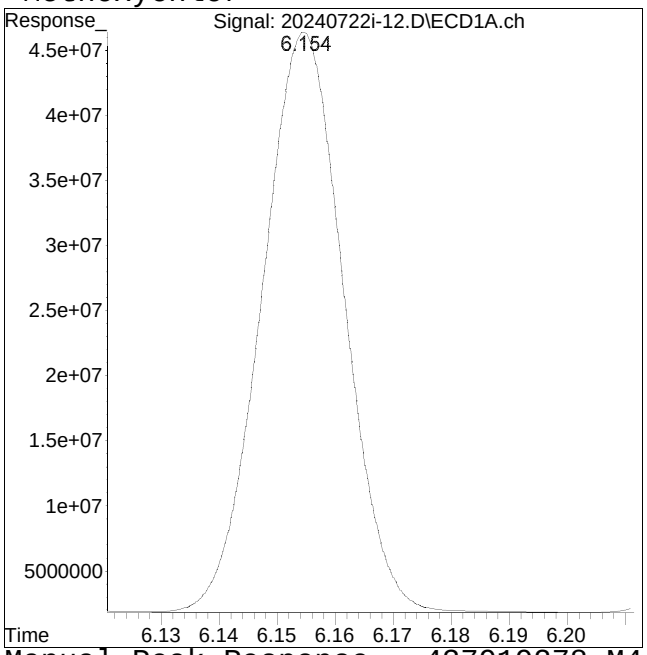
Original Peak Response = 1078909139 Manual Peak Response = 1067057714 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #23: Methoxychlor



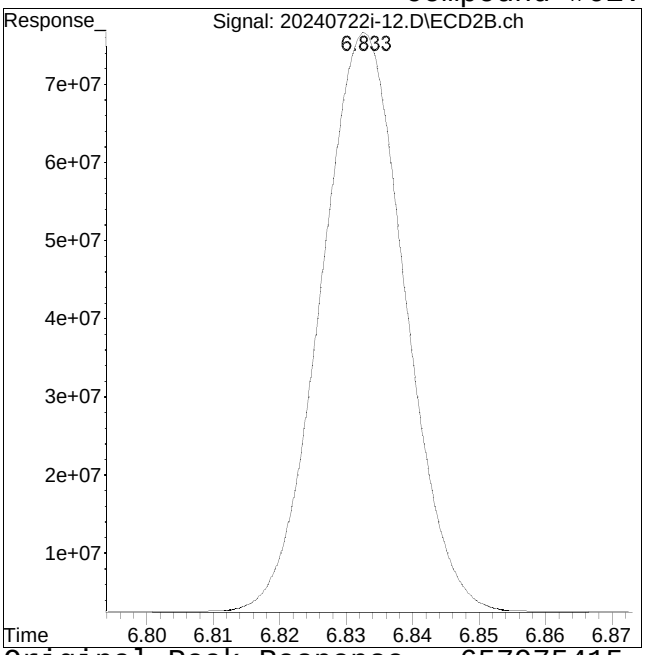


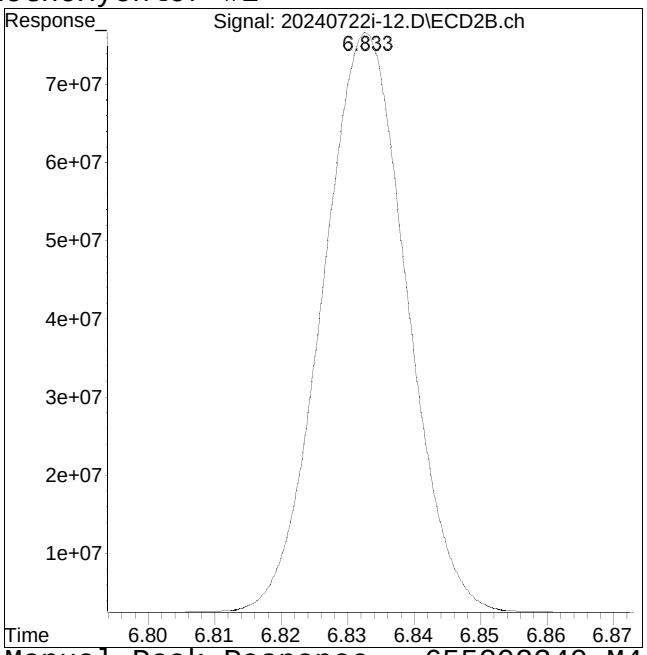
Original Peak Response = 445392746 Manual Peak Response = 437919278 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #61: Methoxychlor #2





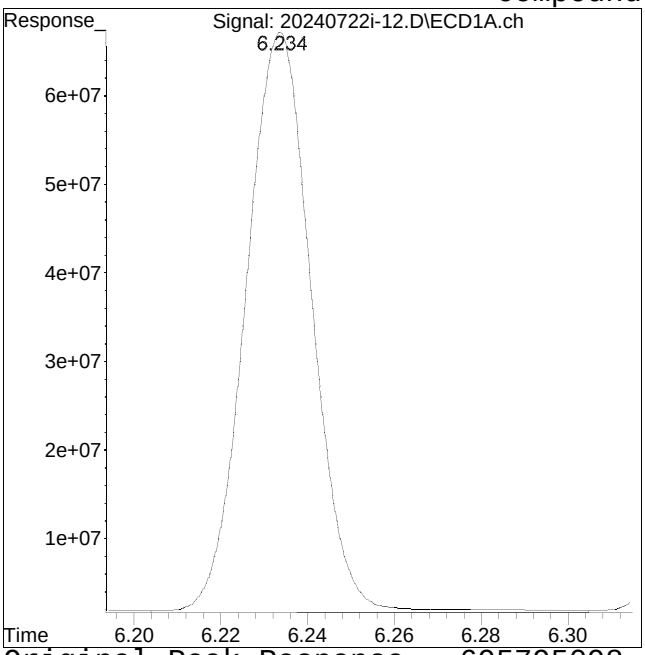
Original Peak Response = 657975415 Manual Peak Response = 655202340 M4
M4 = Poor automated baseline construction.

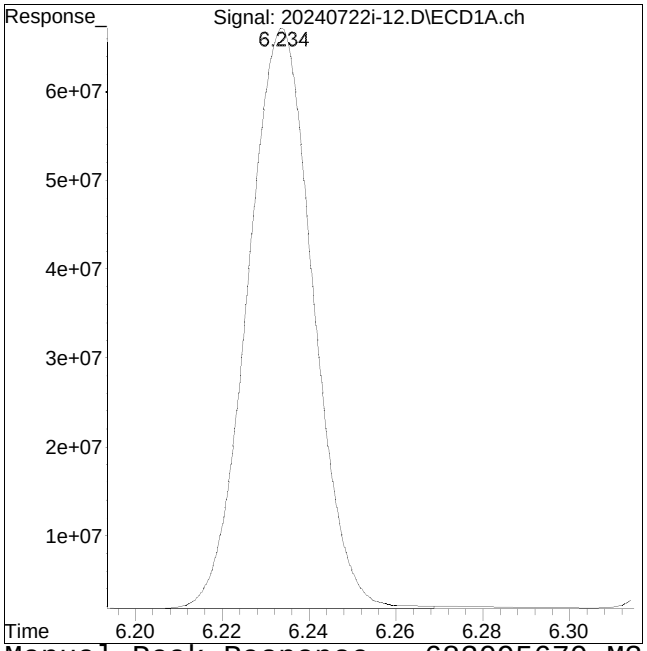
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #24: Mirex





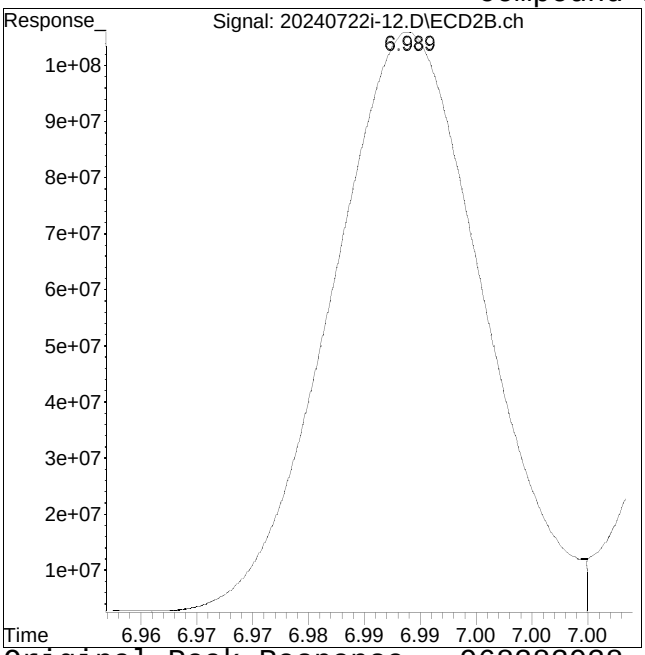
Original Peak Response = 695795098 Manual Peak Response = 683095670 M3

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

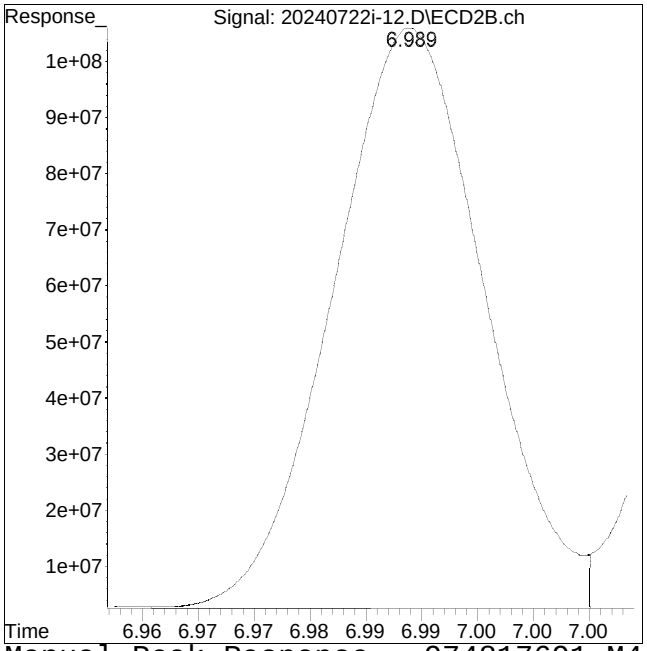
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-12.D
Date Inj'd : 7/22/2024 20:01
Sample : il11pest,42e,,pp 11678 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 12:56 pm

Compound #62: Mirex #2



Original Peak Response = 968383938



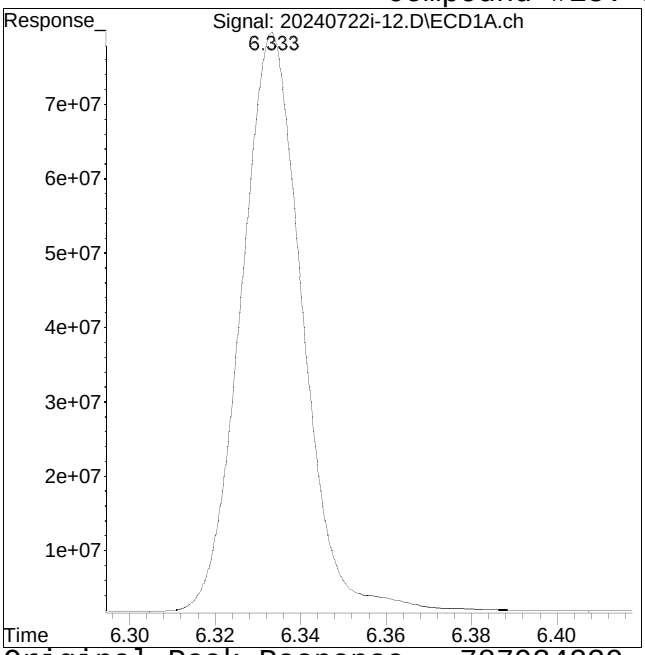
Manual Peak Response = 974817691 M4

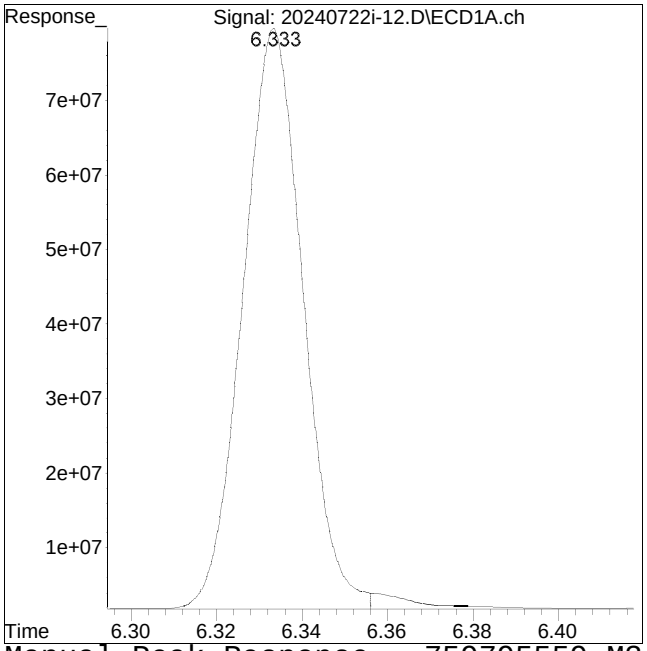
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #25: Endosulfan Sulfate



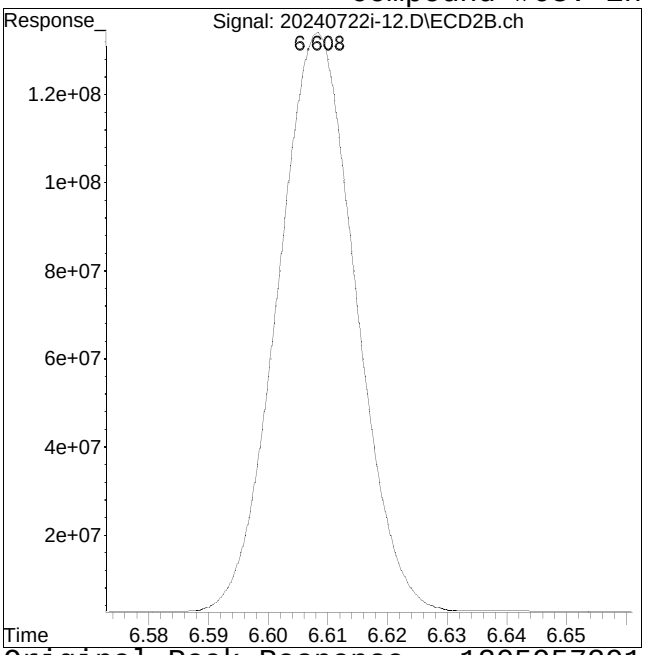


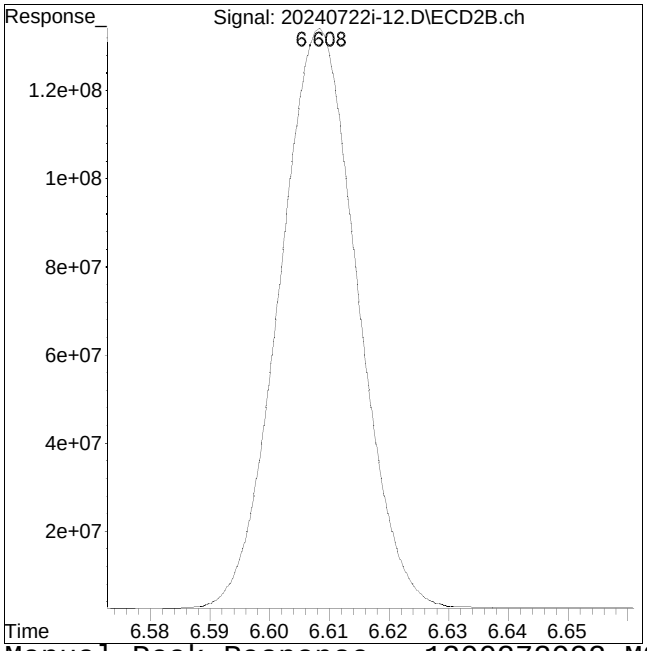
Original Peak Response = 787934239 Manual Peak Response = 759795559 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #63: Endosulfan Sulfate #2



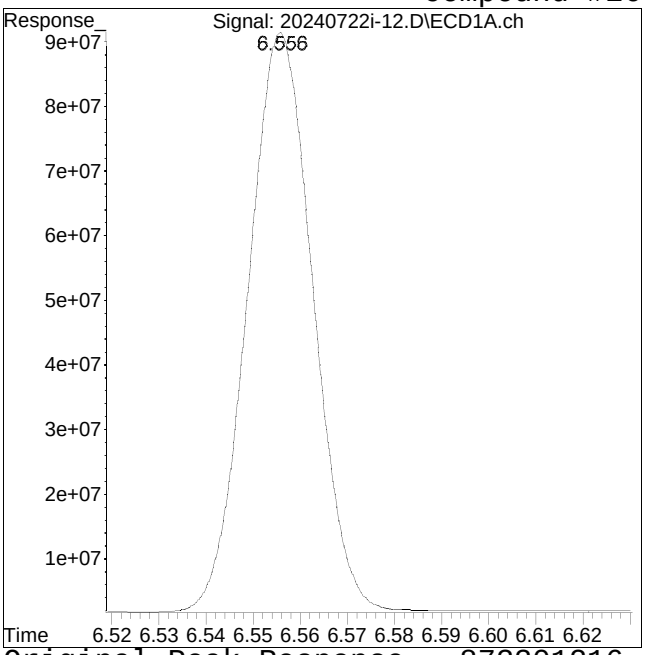


Original Peak Response = 1205957291 Manual Peak Response = 1200272932 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

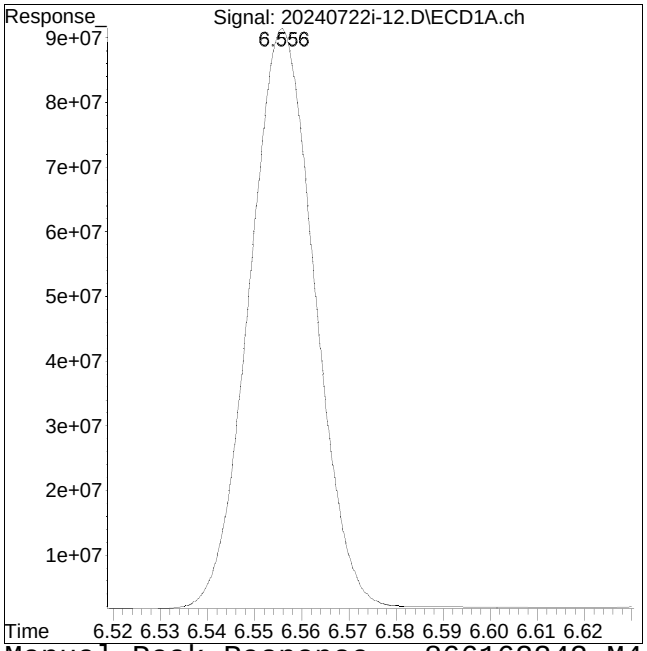
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #26: Endrin Ketone



Original Peak Response = 873301216



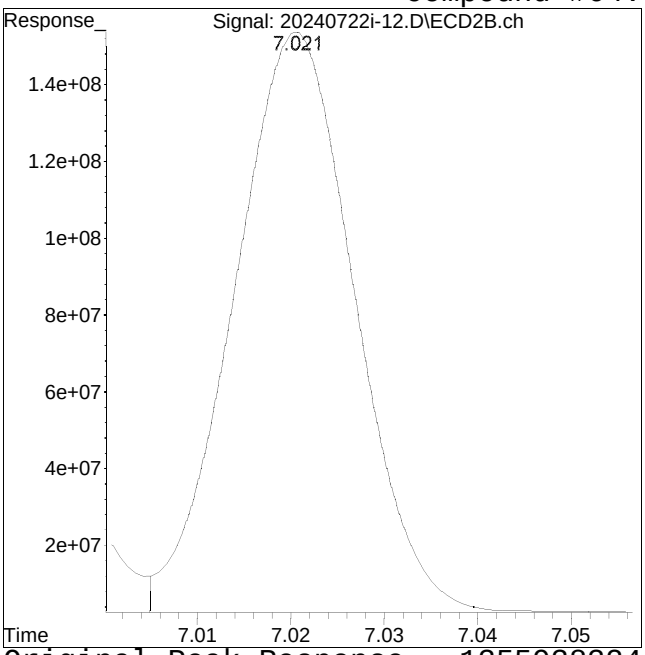
Manual Peak Response = 866162242 M4

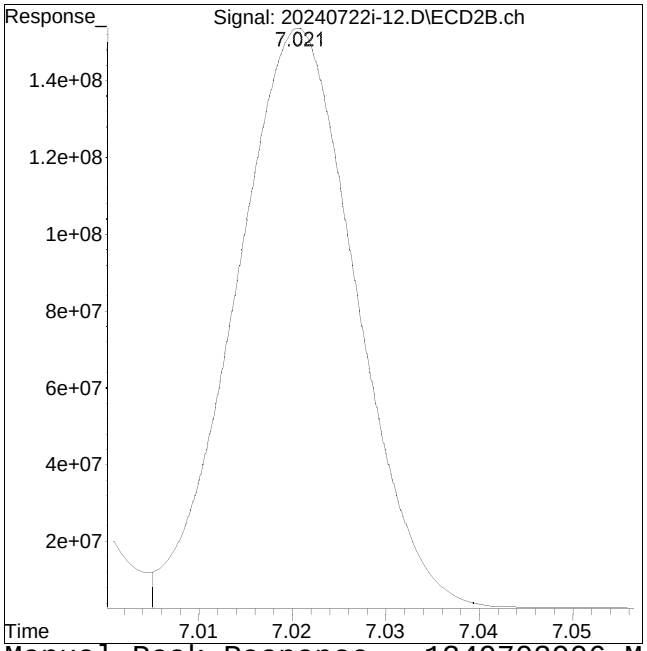
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #64: Endrin Ketone #2



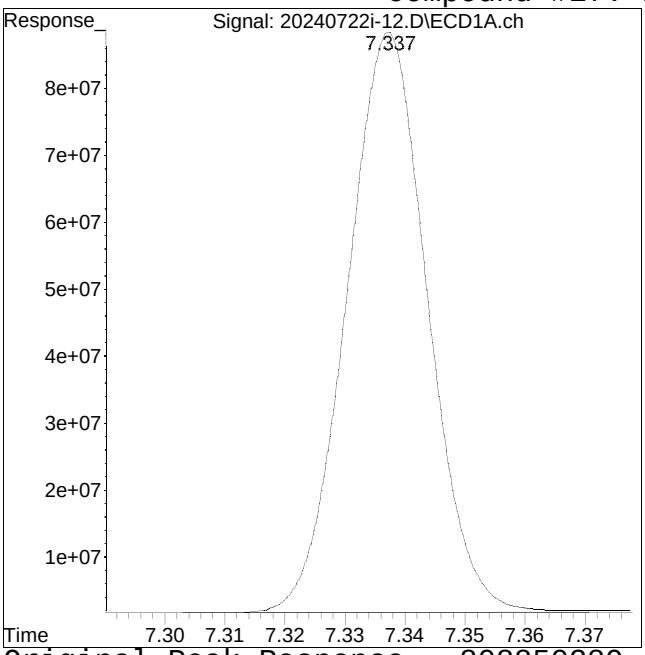


Original Peak Response = 1355938324 Manual Peak Response = 1349703906 M4
M4 = Poor automated baseline construction.

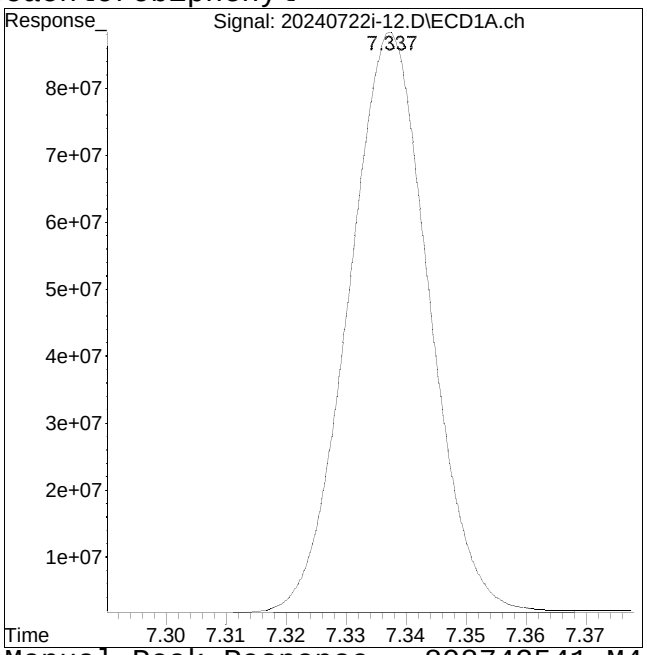
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-12.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:01 Instrument : PEST 20
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 7/23/2024 12:56 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 808850389



Manual Peak Response = 808742541 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 20:13
Operator : pest20:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1950439,
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:12:29 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:12:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	98	0.02
2	s	2,4,5,6-Tetrachloro-m-xylen	*	50.000	52.890	-5.8	97	0.02
3		Hexachlorobenzene	*	50.000	53.212	-6.4	97	0.02
4		alpha-BHC		1.586	1.508	4.9	95	0.02
5		gamma-BHC (lindane)		1.529	1.351	11.6	94	0.02
6		beta-BHC	*	50.000	52.317	-4.6	95	0.02
7		delta-BHC		1.478	1.321	10.6	92	0.02
8		Heptachlor		1.494	1.335	10.6	96	0.02
9		Aldrin		1.394	1.301	6.7	97	0.02
10		Alachlor	*	50.000	55.202	-10.4	96	0.02
11		Chlorpyrifos	*	50.000	53.969	-7.9	96	0.02
12		Heptachlor Epoxide		1.349	1.183	12.3	95	0.02
13		gamma-Chlordane (trans)	*	50.000	56.188	-12.4	106	0.02
14		alpha-Chlordane (cis)	*	50.000	49.714	0.6	93	0.02
15		4,4'-DDE		1.333	1.196	10.3	92	0.02
16		Endosulfan I		1.261	1.101	12.7	93	0.02
17		Dieldrin		1.315	1.228	6.6	100	0.02
18		Endrin		1.292	1.136	12.1	92	0.02
19		4,4'-DDD		1.086	1.011	6.9	97	0.02
20		Endosulfan II		1.175	1.033	12.1	94	0.02
21		4,4'-DDT	*	50.000	49.061	1.9	91	0.02
22		Endrin Aldehyde	*	50.000	45.620	8.8	84	0.02
23		Methoxychlor	*	50.000	53.417	-6.8	93	0.02
24		Mirex	*	50.000	52.753	-5.5	94	0.02
25		Endosulfan Sulfate	*	50.000	49.954	0.1	94	0.02
26		Endrin Ketone		1.275	1.154	9.5	97	0.02
27	s	Decachlorobiphenyl	*	50.000	50.862	-1.7	94	0.02

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 20:13
Operator : pest20:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1950439,
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:12:29 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:12:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.223	1.132	7.4	96	0.00
3		Hexachlorobenzene	*	50.000	52.175	-4.3	97	0.00
4		alpha-BHC		1.533	1.482	3.3	94	0.00
5		gamma-BHC (lindane)		1.477	1.334	9.7	93	0.00
6		beta-BHC	*	50.000	50.212	-0.4	94	0.00
7		delta-BHC		1.443	1.308	9.4	91	0.00
8		Heptachlor		1.403	1.269	9.6	95	0.00
9		Aldrin		1.268	1.195	5.8	95	0.00
10		Alachlor	*	50.000	54.281	-8.6	97	0.00
11		Chlorpyrifos	*	50.000	52.365	-4.7	95	0.00
12		Heptachlor Epoxide		1.268	1.115	12.1	93	0.00
13		gamma-Chlordane (trans)		1.090	1.119	-2.7	106	0.00
14		alpha-Chlordane (cis)		1.237	1.098	11.2	93	0.00
15		4,4'-DDE		1.193	1.074	10.0	91	0.00
16		Endosulfan I		1.153	1.020	11.5	93	0.00
17		Dieldrin		1.161	1.132	2.5	100	0.00
18		Endrin		1.185	1.054	11.1	91	0.00
19		4,4'-DDD		0.979	0.918	6.2	95	0.00
20		Endosulfan II		1.098	0.974	11.3	94	0.00
21		4,4'-DDT		1.110	0.971	12.5	90	0.00
22		Endrin Aldehyde	*	50.000	43.461	13.1	83	0.00
23		Methoxychlor	*	50.000	51.227	-2.5	92	0.00
24		Mirex	*	50.000	51.370	-2.7	93	0.00
25		Endosulfan Sulfate	*	50.000	48.446	3.1	93	0.00
26		Endrin Ketone		1.192	1.109	7.0	97	0.00
27	s	Decachlorobiphenyl	*	50.000	49.665	0.7	93	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 20:13
Operator : pest20:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1950439,
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:12:29 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:12:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-2.01#
29	l1	chlordane-1	*	0.047	0.000	100.0#	0#	-3.44#
30	l1	chlordane-3	*	0.059	0.000	100.0#	0#	-3.92#
31	l1	chlordane-4	*	0.202	0.000	100.0#	0#	-4.54#
32	l1	chlordane-5	*	0.290	0.000	100.0#	0#	-4.68#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-2.01#
34	l2	toxaphene-1	*	0.043	0.000	100.0#	0#	-5.56#
35	l2	toxaphene-2	*	0.043	0.000	100.0#	0#	-6.07#
36	l2	toxaphene-4	*	0.030	0.000	100.0#	0#	-6.16#
37	l2	toxaphene-5	*	0.044	0.000	100.0#	0#	-6.24#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-2.06#
29	l1	chlordane-1	*	0.041	0.000	100.0#	0#	-3.77#
30	l1	chlordane-3	*	0.051	0.000	100.0#	0#	-4.43#
31	l1	chlordane-4	*	0.153	0.000	100.0#	0#	-5.14#
32	l1	chlordane-5	*	0.121	0.000	100.0#	0#	-5.30#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-2.06#
34	l2	toxaphene-1	*	0.023	0.000	100.0#	0#	-6.06#
35	l2	toxaphene-2	*	0.034	0.000	100.0#	0#	-6.09#
36	l2	toxaphene-4	*	0.039	0.000	100.0#	0#	-6.39#
37	l2	toxaphene-5	*	0.038	0.000	100.0#	0#	-6.79#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:13
Operator : pest20:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1950439,
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:12:29 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:12:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	2.028f	2.063	49755444	78622282	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.494f	2.663	115.2E6	178.1E6	52.890	46.279
	Spiked Amount 50.000	Range 30 - 150		Recovery =		105.78%	92.56%
27) s	Decachlorobi	7.357f	7.906	109.0E6	139.3E6	50.862	49.665
	Spiked Amount 50.000	Range 30 - 150		Recovery =		101.72%	99.33%
	Target Compounds						
3)	Hexachlorobe	2.761f	3.039	120.3E6	183.9E6	53.212	52.175
4)	alpha-BHC	2.883f	3.152	150.1E6	233.1E6	47.561	48.329
5)	gamma-BHC (l	3.127f	3.476	134.5E6	209.8E6	44.189	45.183
6)	beta-BHC	3.195f	3.551	64742861	99164577	52.317	50.212
7)	delta-BHC	3.345f	3.847	131.5E6	205.7E6	44.695	45.319
8)	Heptachlor	3.533f	3.917	132.8E6	199.5E6	44.677	45.227
9)	Aldrin	3.812f	4.268	129.5E6	187.9E6	46.650	47.116
10)	Alachlor	3.954f	4.141	21263587	28821121	55.202	54.281
11)	Chlorpyrifos	4.054f	4.524	62761635	97738918	53.969	52.365
12)	Heptachlor E	4.428f	4.929	117.7E6	175.3E6	43.862	43.948
13)	gamma-Chlord	4.565f	5.141	120.3E6	176.0E6	56.188	51.325
14)	alpha-Chlord	4.713f	5.296	119.0E6	172.7E6	49.714M3	44.399
15)	4,4'-DDE	4.816f	5.474	119.0E6	168.9E6	44.859	45.030
16)	Endosulfan I	4.866f	5.354	109.5E6	160.4E6	43.655	44.239
17)	Dieldrin	5.129f	5.627	122.2E6	177.9E6	46.683	48.736
18)	Endrin	5.366f	5.910	113.0E6	165.7E6	43.954	44.465M3
19)	4,4'-DDD	5.454f	6.018	100.6E6	144.4E6	46.537	46.890
20)	Endosulfan I	5.586f	6.100	102.8E6	153.1E6	43.938M3	44.364

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:13
Operator : pest20:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1950439,
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:12:29 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:12:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	5.725f	6.285	103.3E6	152.6E6	49.061	43.742M3
22)	Endrin Aldeh	5.979f	6.386	79127084	115.2E6	45.620	43.461
23)	Methoxychlor	6.175f	6.832	60331442	86612800	53.417M3	51.227
24)	Mirex	6.254f	6.989	92100105	127.7E6	52.753	51.370
25)	Endosulfan S	6.354f	6.608	97255778	147.2E6	49.954	48.446M4
26)	Endrin Keton	6.577f	7.020	114.8E6	174.3E6	45.224	46.513
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

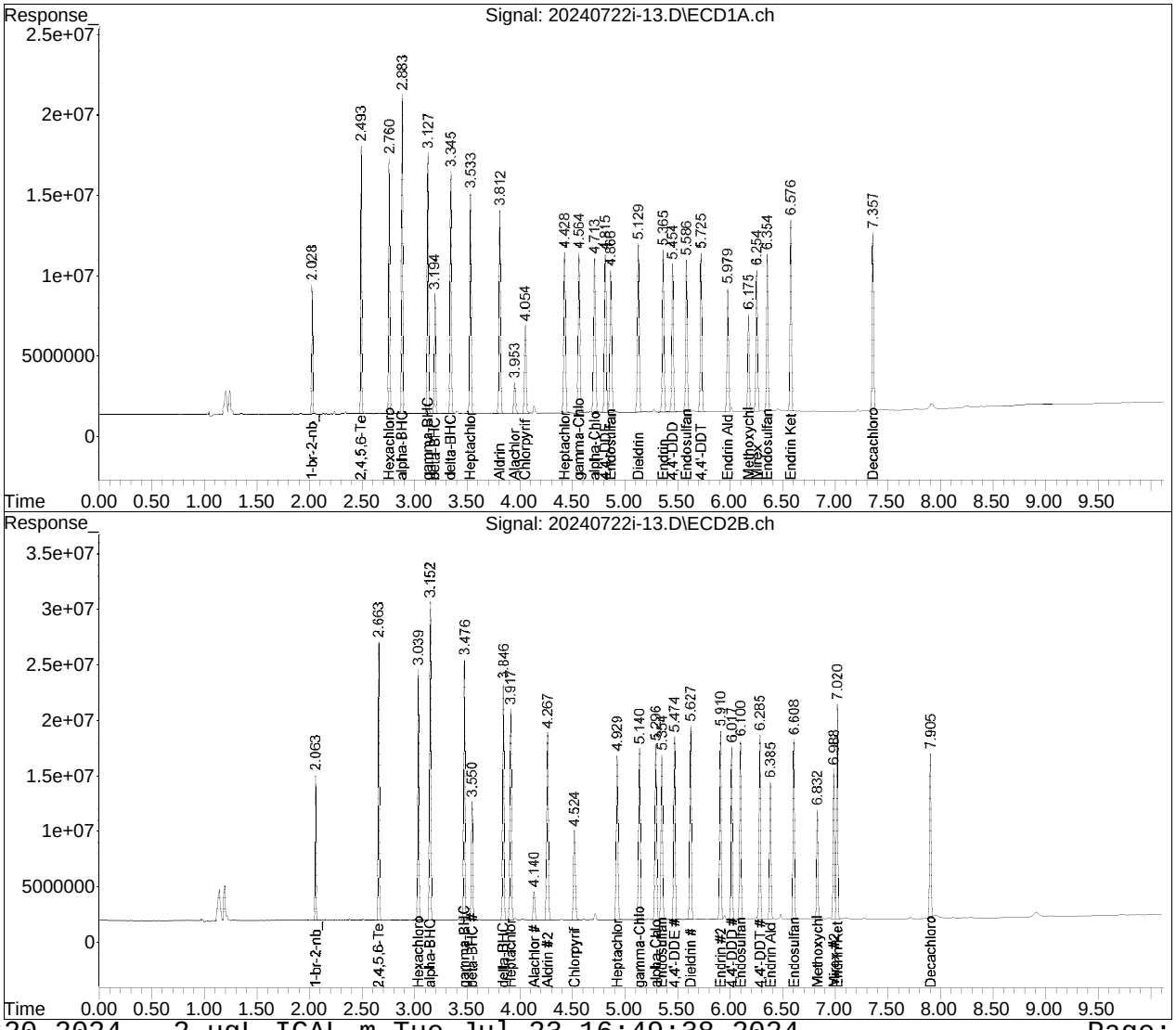
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:13
Operator : pest20:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1950439,
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:12:29 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:12:29 2024
Response via : Initial Calibration
Integrator: ChemStation

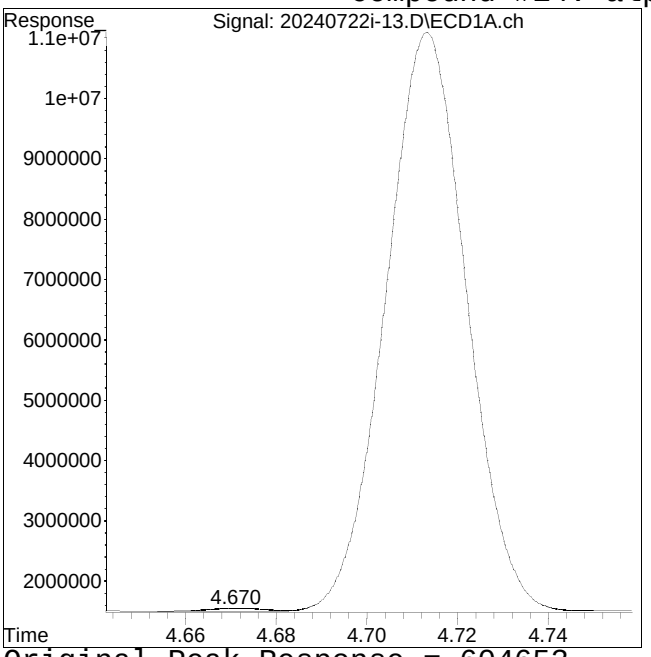
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

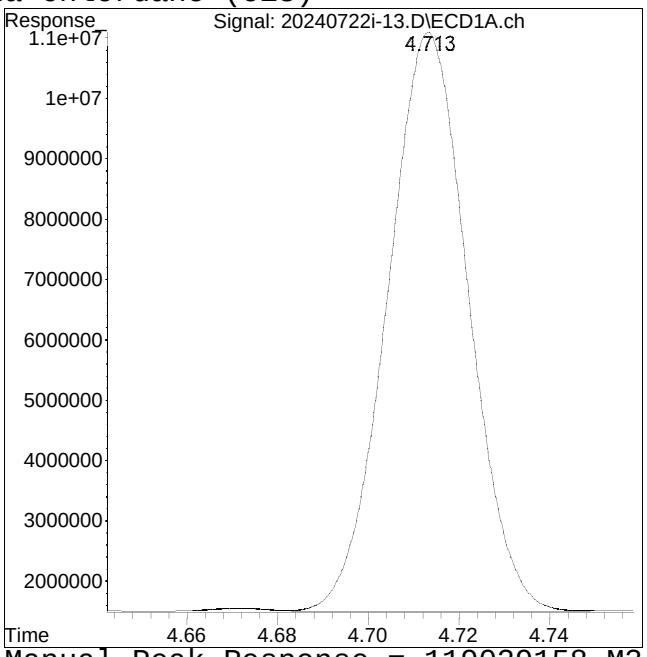


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-13.D
Date Inj'd : 7/22/2024 20:13
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:12 pm

Compound #14: alpha-Chlordane (cis)





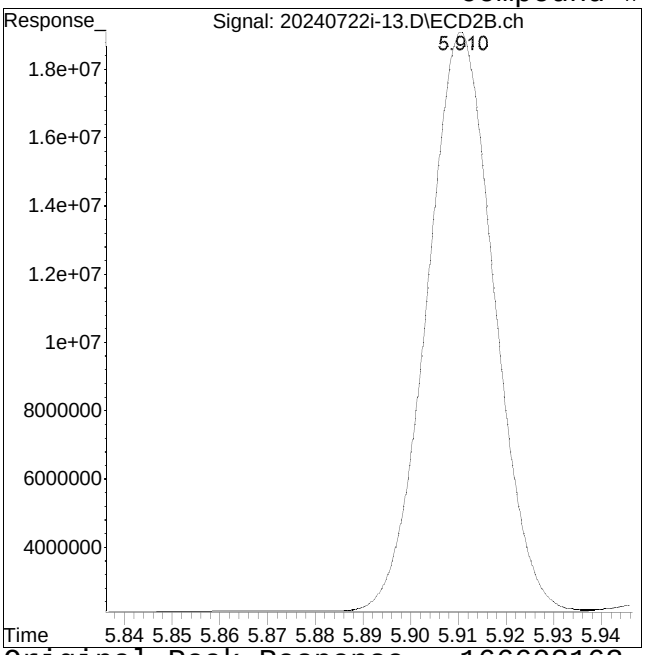
Original Peak Response = 604653 Manual Peak Response = 119029158 M3

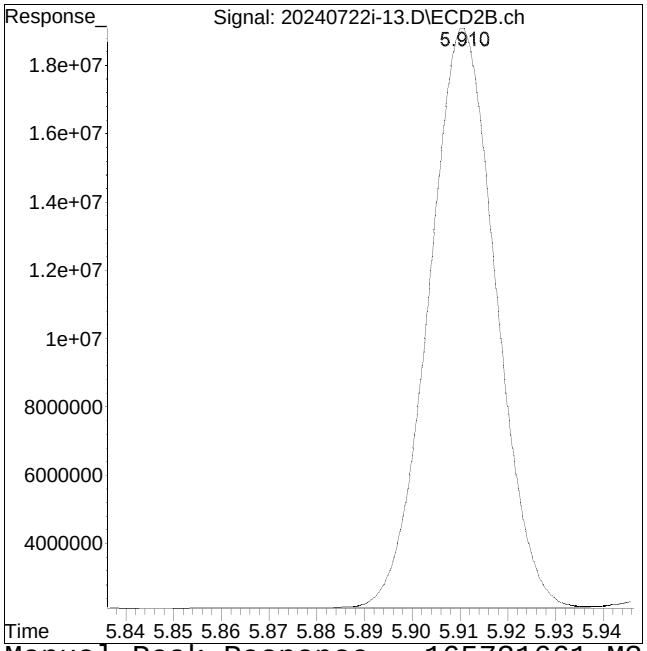
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-13.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:13 Instrument : PEST 20
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 7/23/2024 2:12 pm

Compound #56: Endrin #2



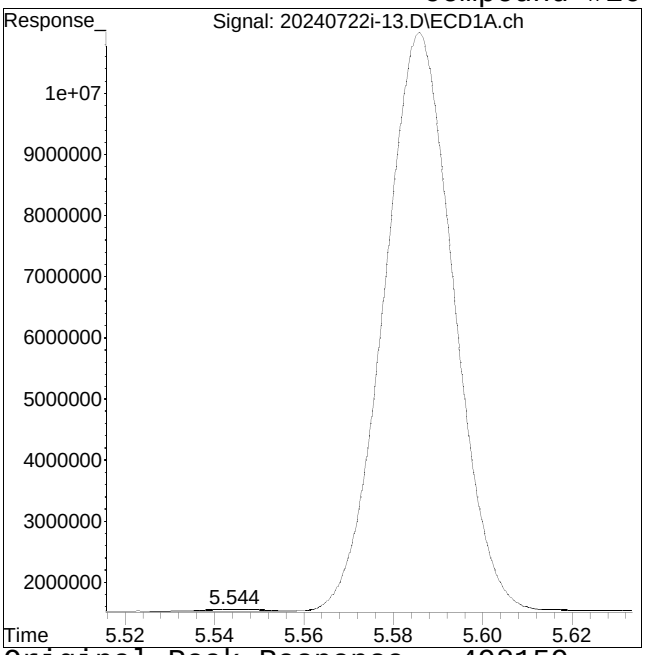


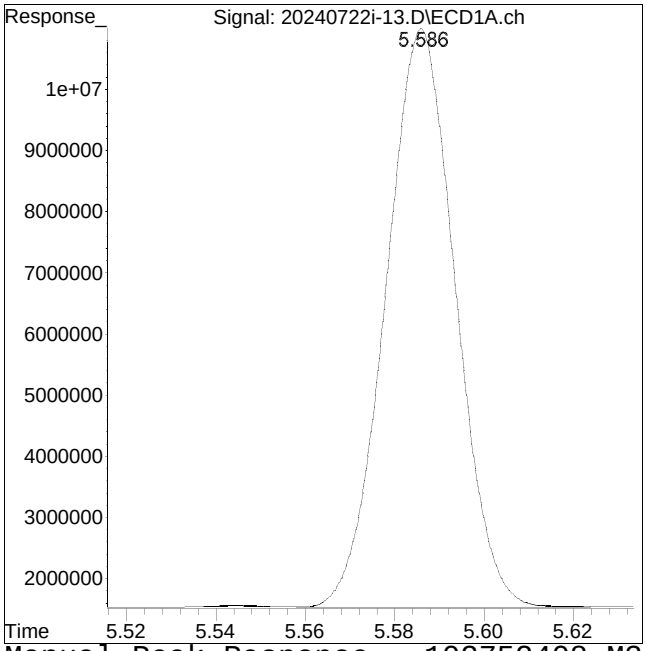
Original Peak Response = 166603163 Manual Peak Response = 165731661 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-13.D
Date Inj'd : 7/22/2024 20:13
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:12 pm

Compound #20: Endosulfan II





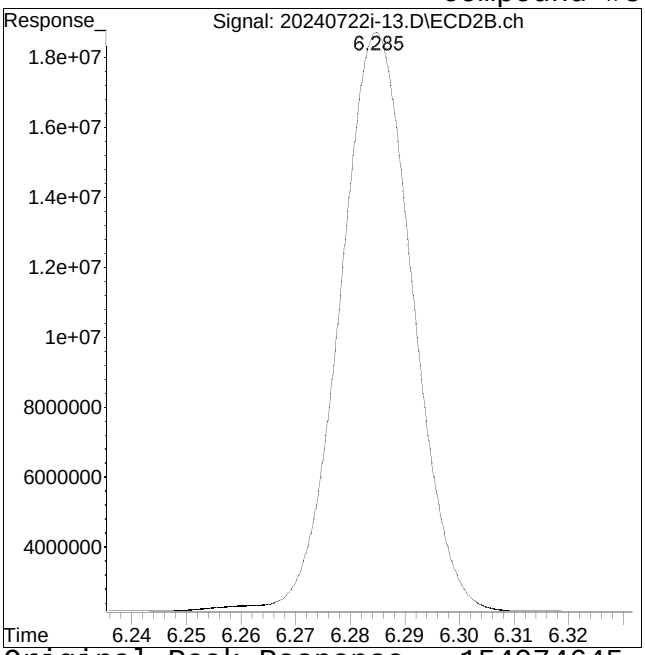
Original Peak Response = 498159 Manual Peak Response = 102752408 M3

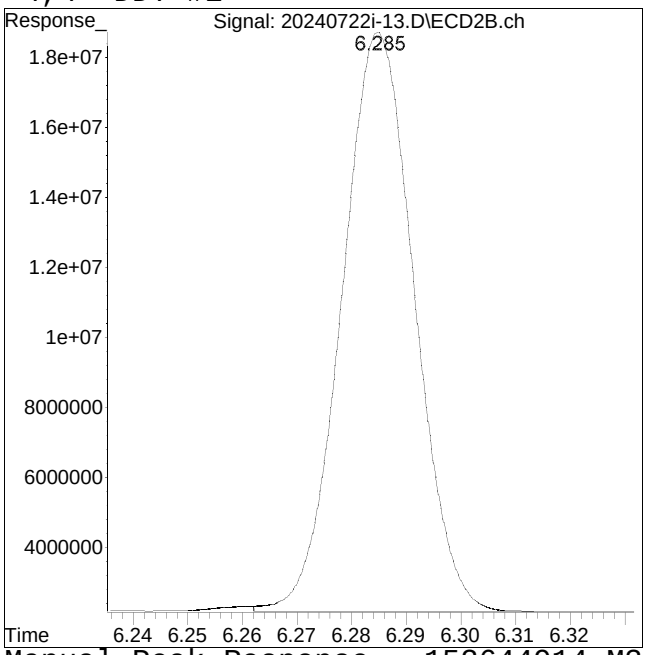
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-13.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:13 Instrument : PEST 20
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 7/23/2024 2:12 pm

Compound #59: 4,4'-DDT #2



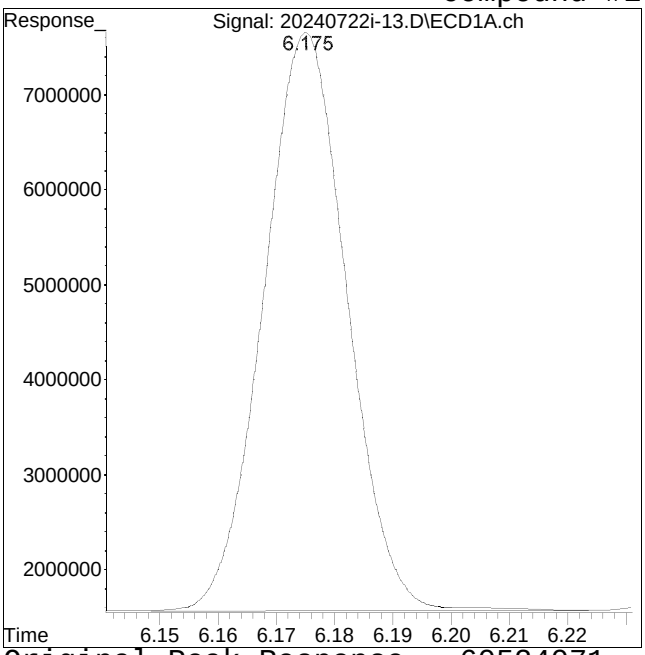


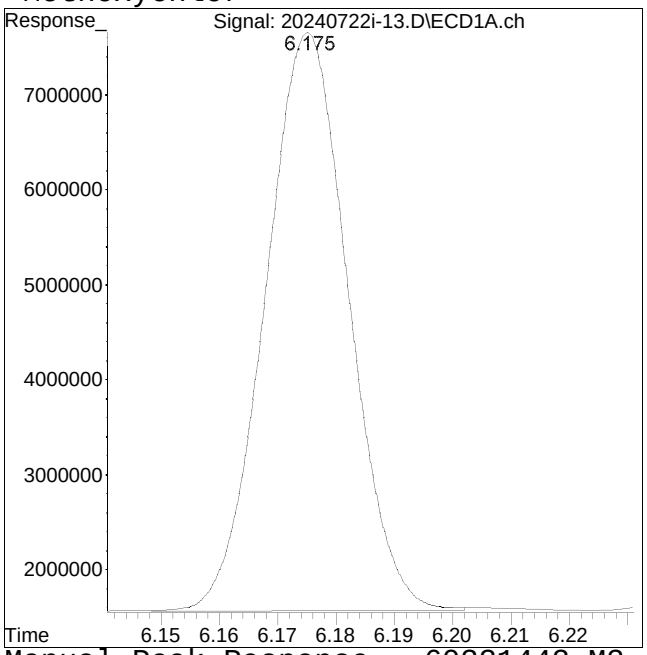
Original Peak Response = 154074645 Manual Peak Response = 152644914 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-13.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:13 Instrument : PEST 20
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 7/23/2024 2:12 pm

Compound #23: Methoxychlor





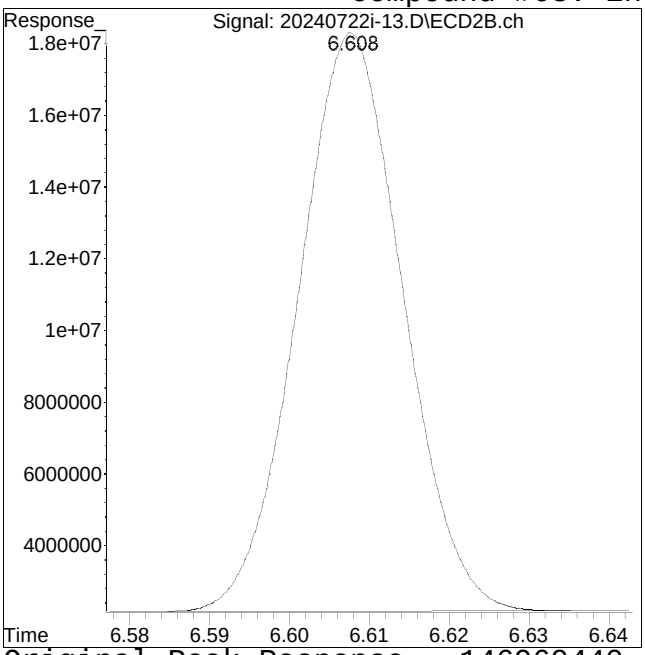
Original Peak Response = 60524071 Manual Peak Response = 60331442 M3

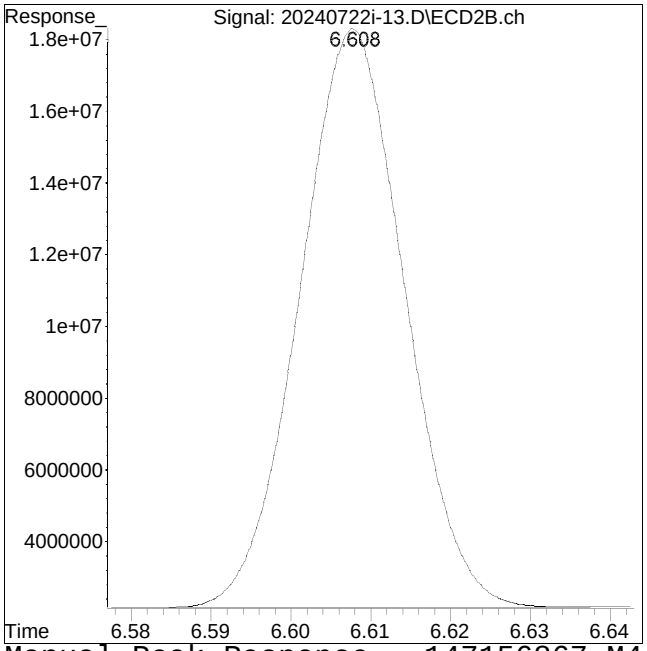
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-13.D
Date Inj'd : 7/22/2024 20:13
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:12 pm

Compound #63: Endosulfan Sulfate #2





Original Peak Response = 146969440 Manual Peak Response = 147156867 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:26
Operator : pest20:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:21:55 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:21:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	2.007	2.063	51466490	81338537	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:26
Operator : pest20:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:21:55 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:21:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D.	N.D.
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	3.441	3.768	1168509	1632123	13.114	13.475
30) l1	chlordane-3	3.921	4.433	1540373	2072270	13.895	14.028M4
31) l1	chlordane-4	4.542	5.141	6075511	6164982	16.599	13.653
32) l1	chlordane-5	4.679	5.296	7377194	4884542	13.303	13.738
Sum	chlordane-1			16161587	14753918	NoCal	NoCal D
Average	chlordane-1					14.228	13.723
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

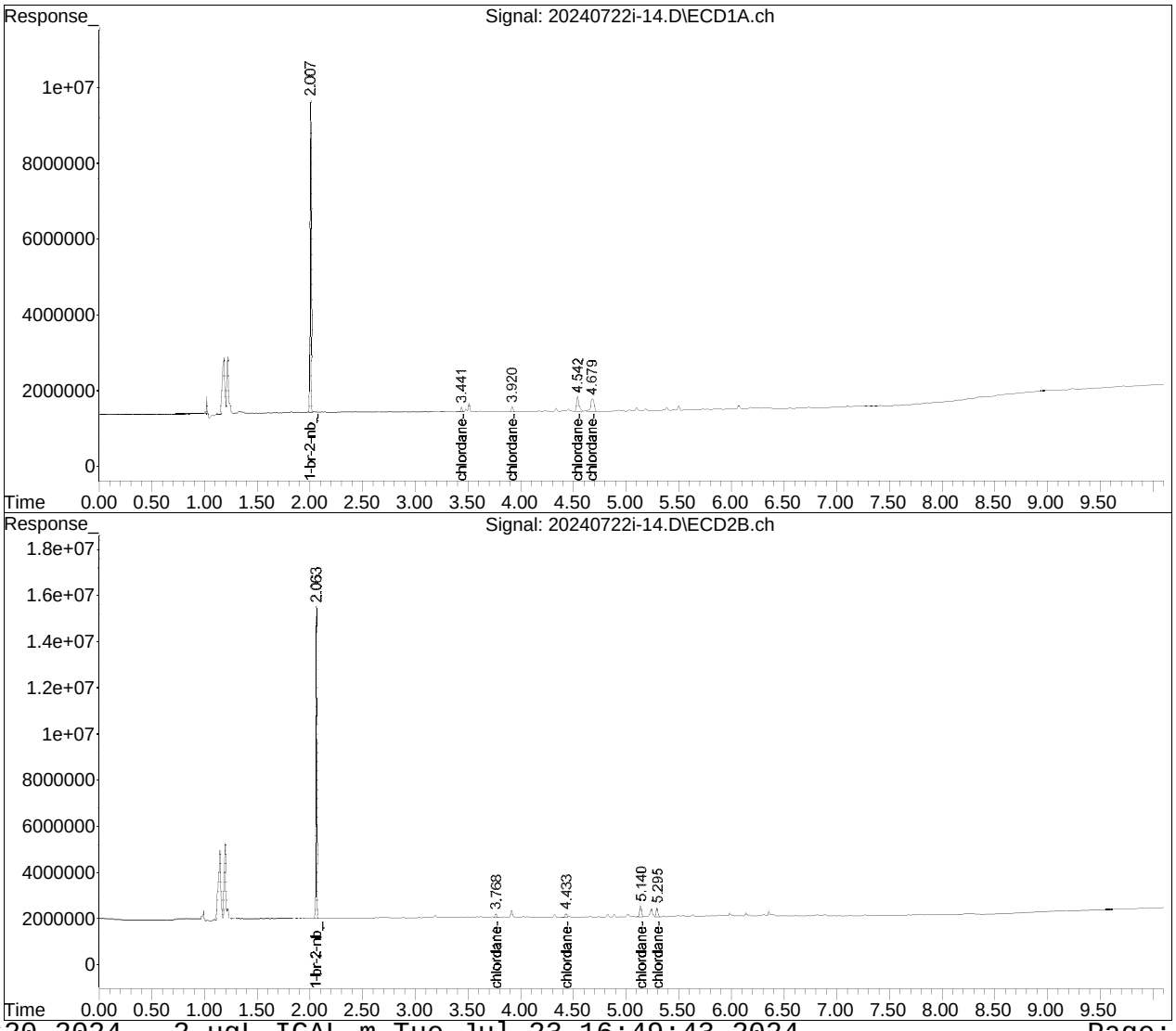
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:26
Operator : pest20:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:21:55 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:21:46 2024
Response via : Initial Calibration
Integrator: ChemStation

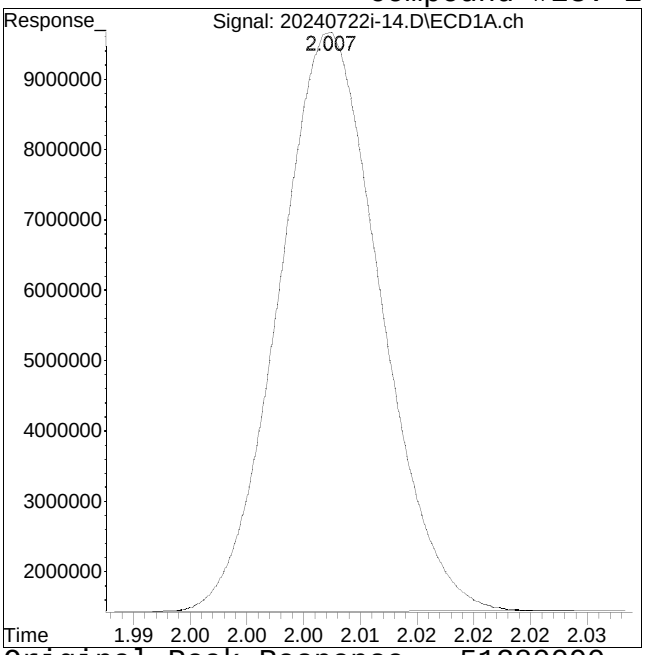
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



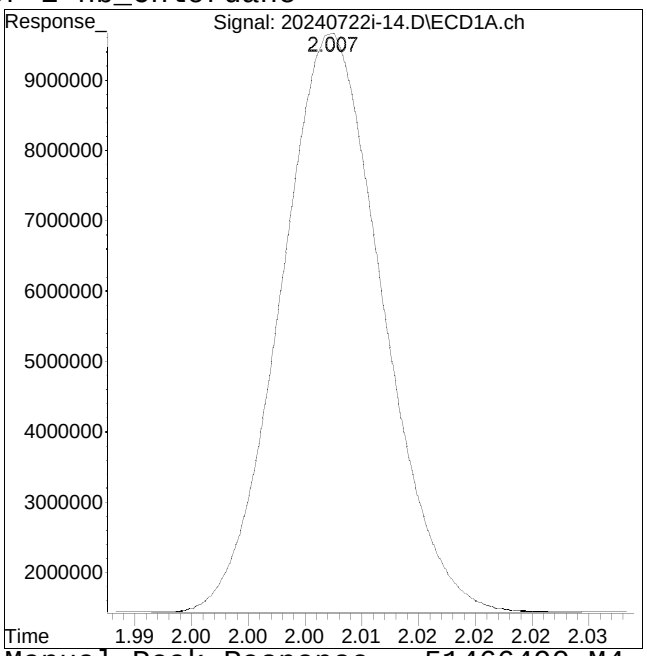
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-14.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:26 Instrument : PEST 20
Sample : il3chlor,42e,,pp 11694 L0.Quant Date : 7/23/2024 2:21 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 51280090



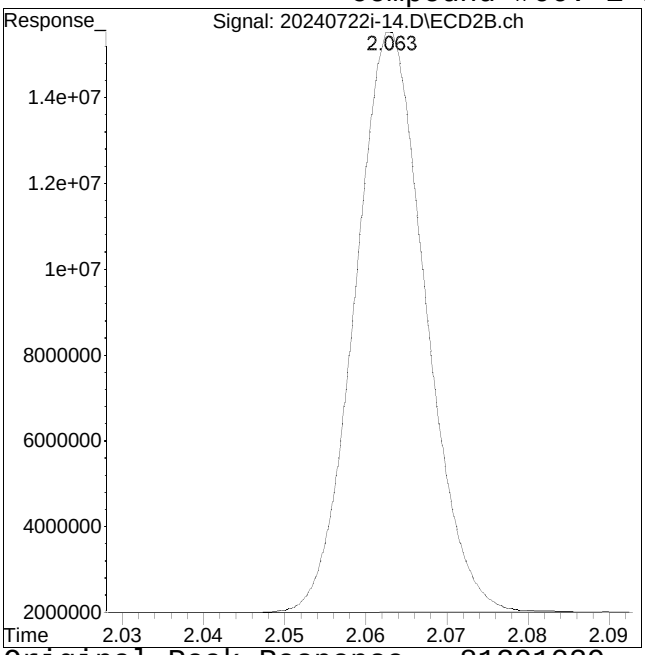
Manual Peak Response = 51466490 M4

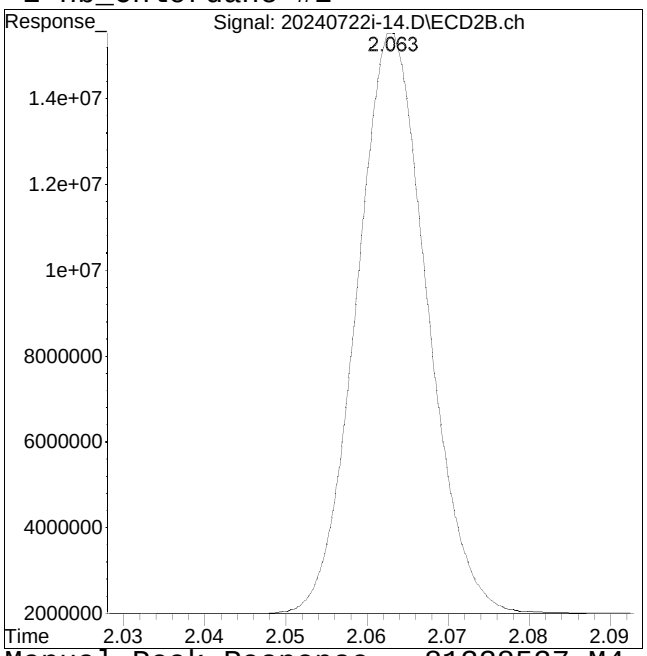
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-14.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:26 Instrument : PEST 20
Sample : il3chlor,42e,,pp 11694 L0.Quant Date : 7/23/2024 2:21 pm

Compound #66: 1-br-2-nb_Chlordane #2



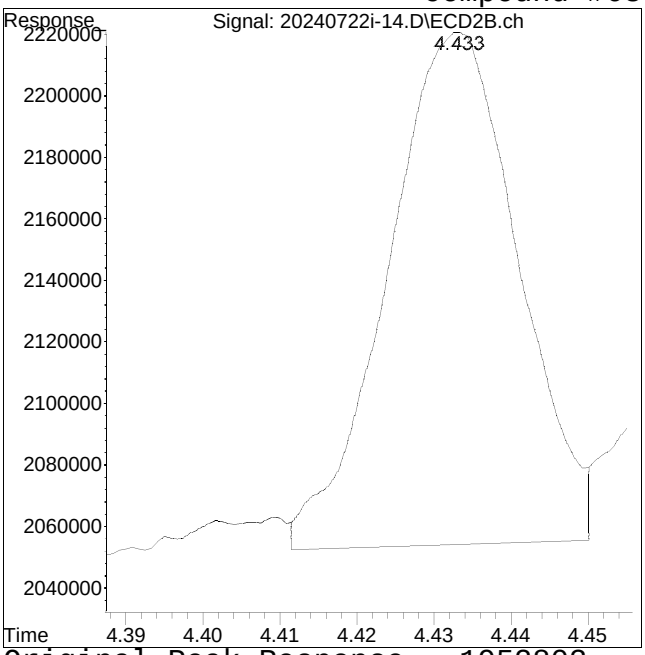


Original Peak Response = 81291039 Manual Peak Response = 81338537 M4
M4 = Poor automated baseline construction.

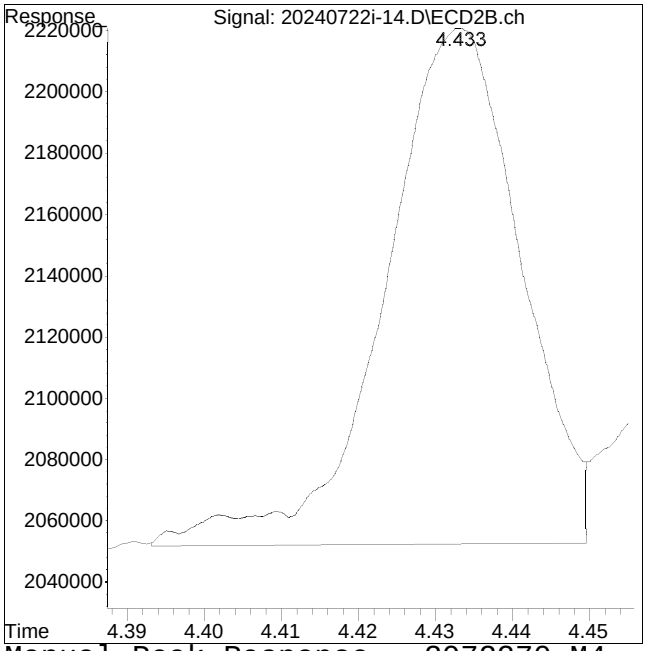
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-14.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:26 Instrument : PEST 20
Sample : il3chlor,42e,,pp 11694 L0.Quant Date : 7/23/2024 2:21 pm

Compound #68: chlordane-3 #2



Original Peak Response = 1952803



Manual Peak Response = 2072270 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:38
Operator : pest20:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:20:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:20:35 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	2.007	2.062	50285949	79236110	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:38
Operator : pest20:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:20:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:20:35 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D.	N.D.
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29)	l1	chlordane-1	3.441	3.768	2227662	3104416	27.101	28.083
30)	l1	chlordane-3	3.922	4.433	2901092	4124008	28.733	31.374
31)	l1	chlordane-4	4.543	5.140	9506821	11074077	28.456	26.549M3
32)	l1	chlordane-5	4.679	5.295	13476530	8814752	26.146M3	26.916M4
Sum		chlordane-1			28112105	27117252	NoCal	NoCal D
Average		chlordane-1					27.609	28.231
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

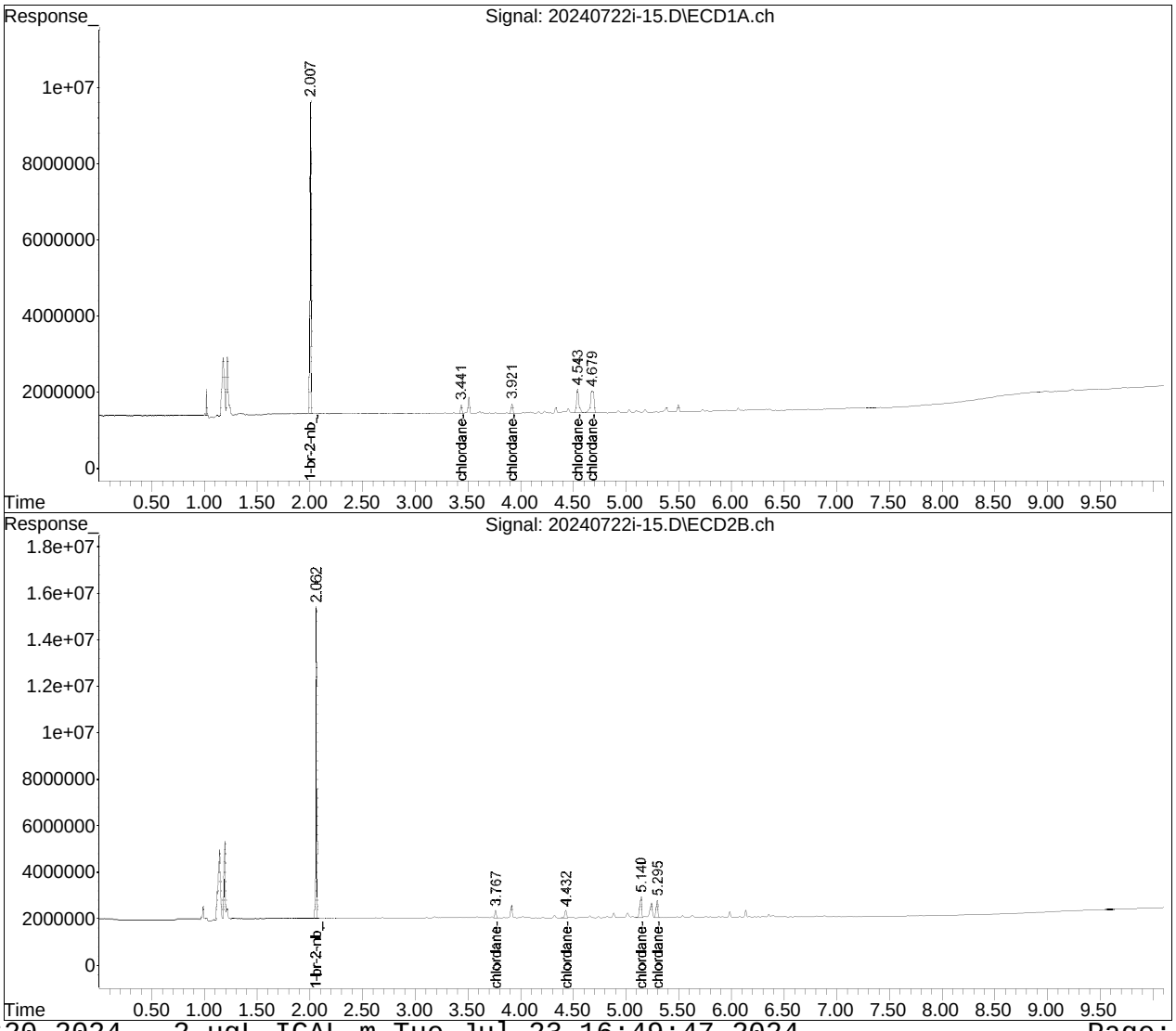
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:38
Operator : pest20:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:20:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:20:35 2024
Response via : Initial Calibration
Integrator: ChemStation

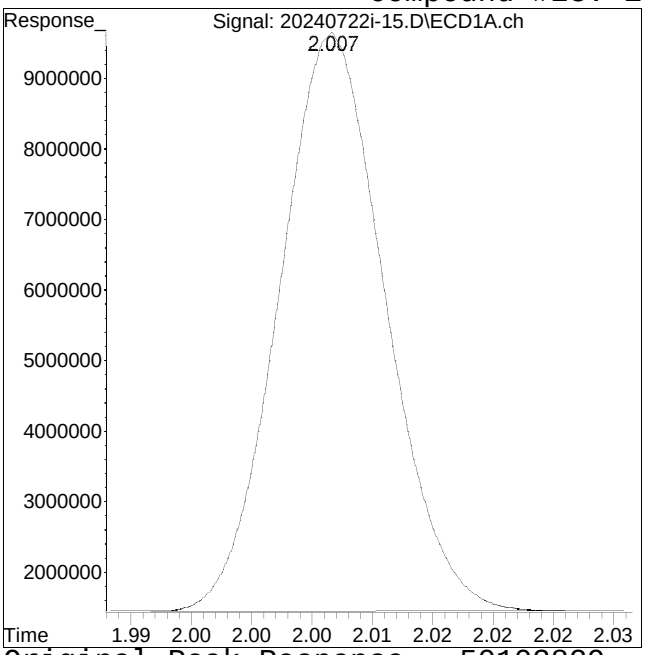
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



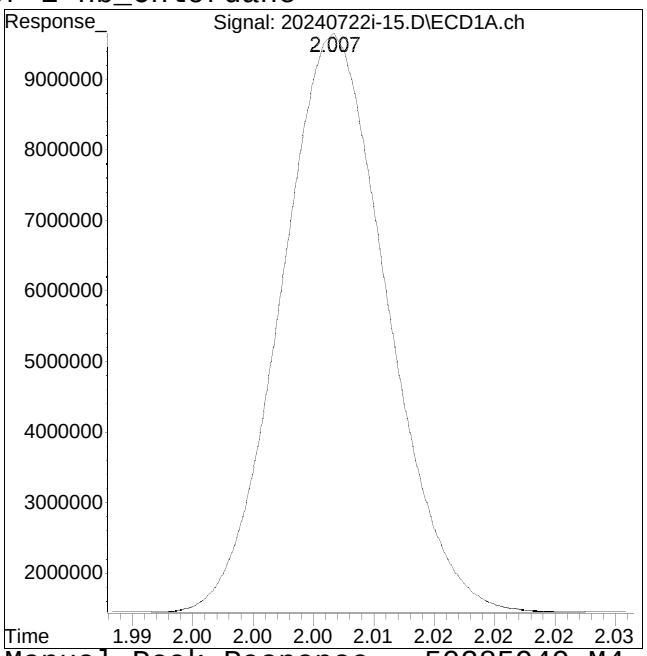
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-15.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:38 Instrument : PEST 20
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 7/23/2024 2:20 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 50103829



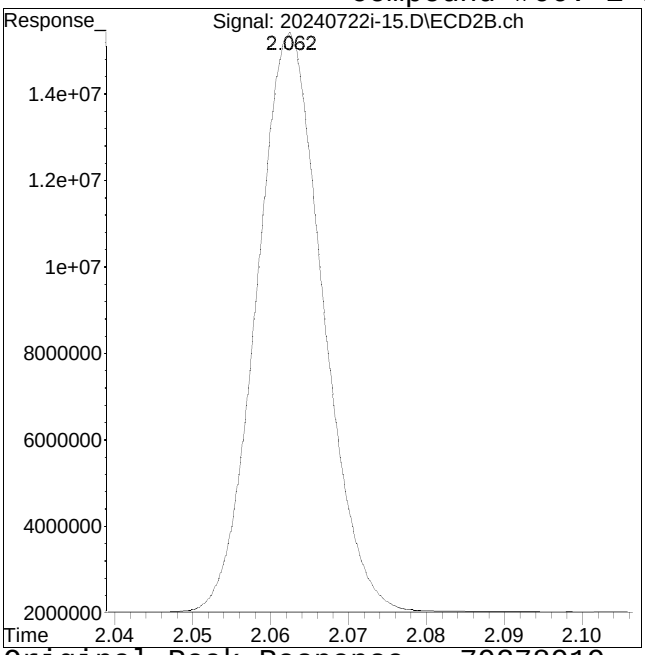
Manual Peak Response = 50285949 M4

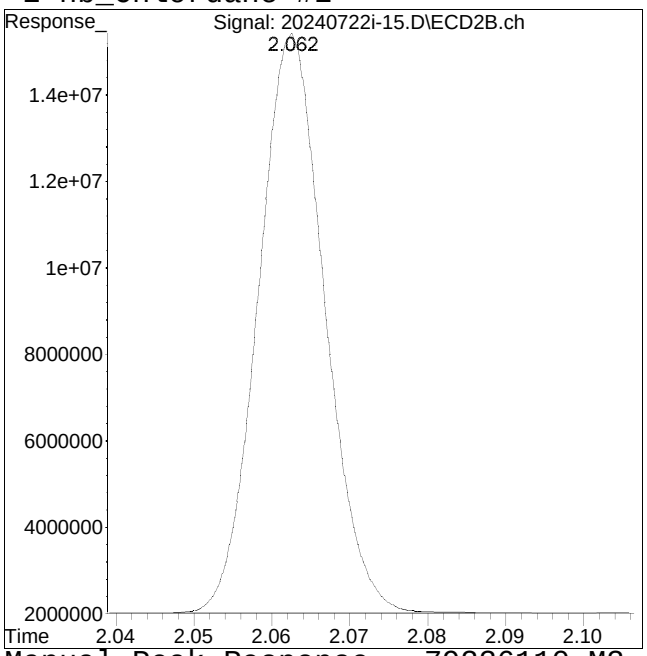
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-15.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:38 Instrument : PEST 20
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 7/23/2024 2:20 pm

Compound #66: 1-br-2-nb_Chlordane #2



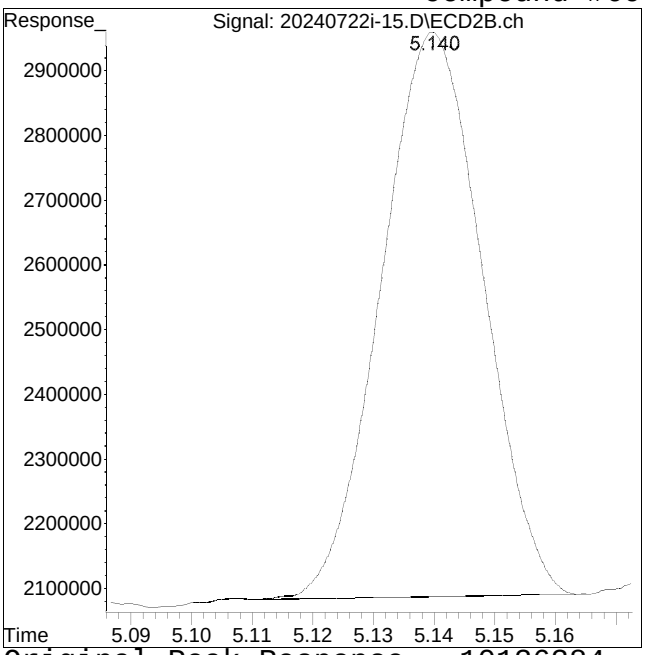


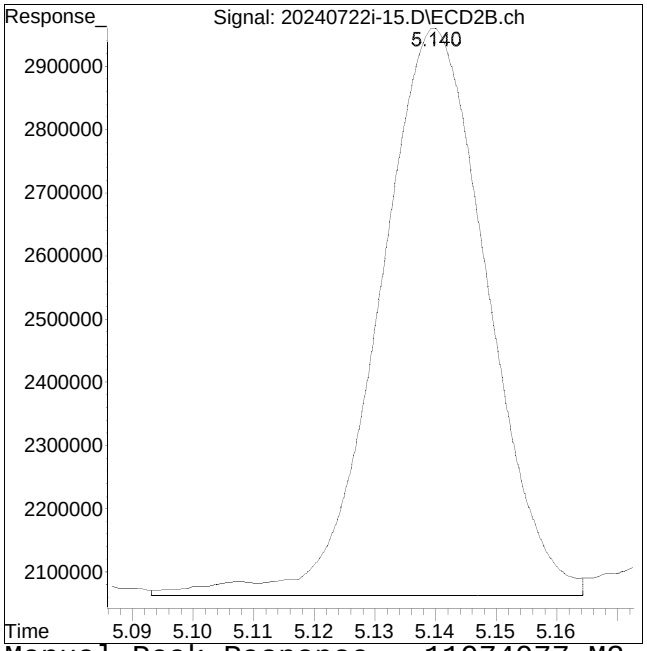
Original Peak Response = 79278919 Manual Peak Response = 79236110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-15.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:38 Instrument : PEST 20
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 7/23/2024 2:20 pm

Compound #69: chlordane-4 #2



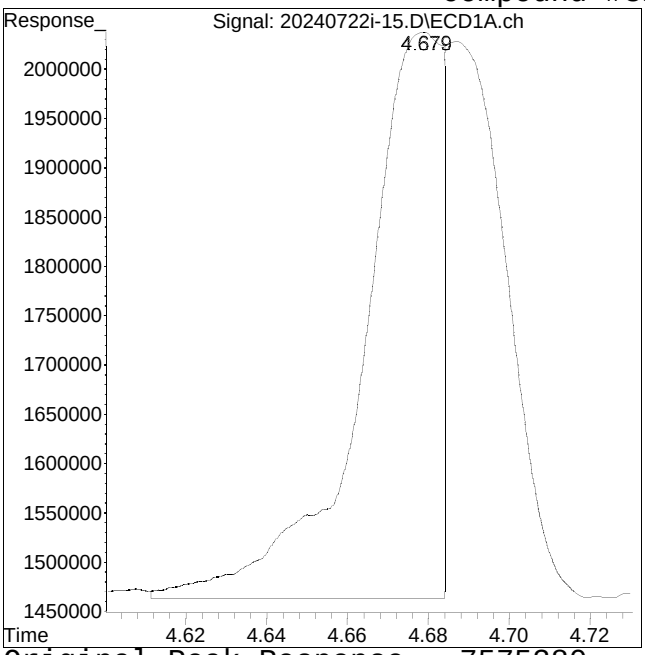


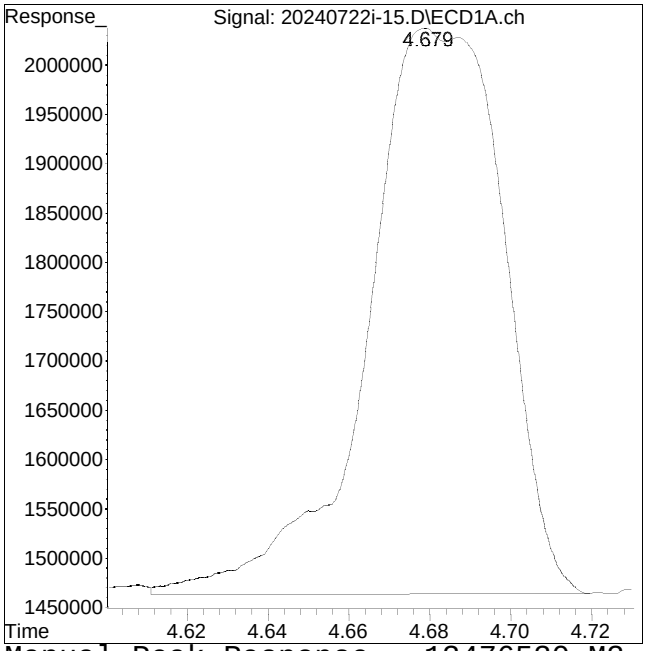
Original Peak Response = 10136384 Manual Peak Response = 11074077 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-15.D
Date Inj'd : 7/22/2024 20:38
Sample : il4chlor,42e,,pp 11693 L0.
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:20 pm

Compound #32: chlordane-5





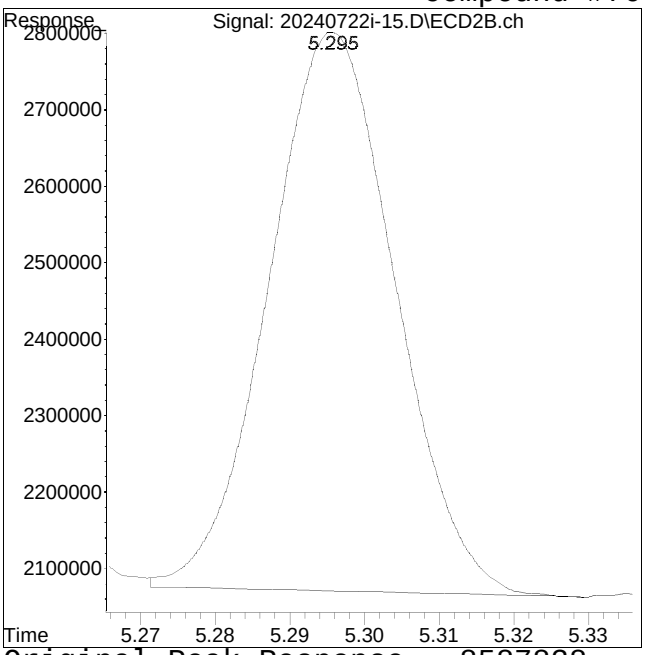
Original Peak Response = 7575380 Manual Peak Response = 13476530 M3

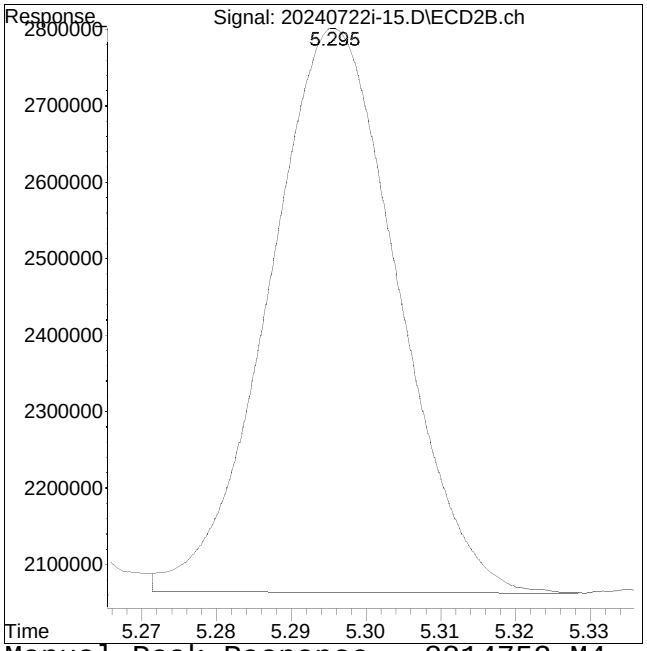
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-15.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:38 Instrument : PEST 20
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 7/23/2024 2:20 pm

Compound #70: chlordane-5 #2





Original Peak Response = 8587838 Manual Peak Response = 8814752 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:51
Operator : pest20:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:19:19 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:19:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	2.014	2.068	53065082	84184890	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:51
Operator : pest20:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:19:19 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:19:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.446	3.770	10188218	14403222	122.816	129.991
30)	l1	chlordane-3	3.926	4.435	13137100	17758446	130.923	136.418M3
31)	l1	chlordane-4	4.548	5.142	38766440	50490607	112.768	118.044
32)	l1	chlordane-5	4.682	5.297	59498854	40178741	112.018M3	120.124
		Sum chlordane-1			121.6E6	122.8E6	NoCal	NoCal D
		Average chlordane-1					119.632	126.144
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

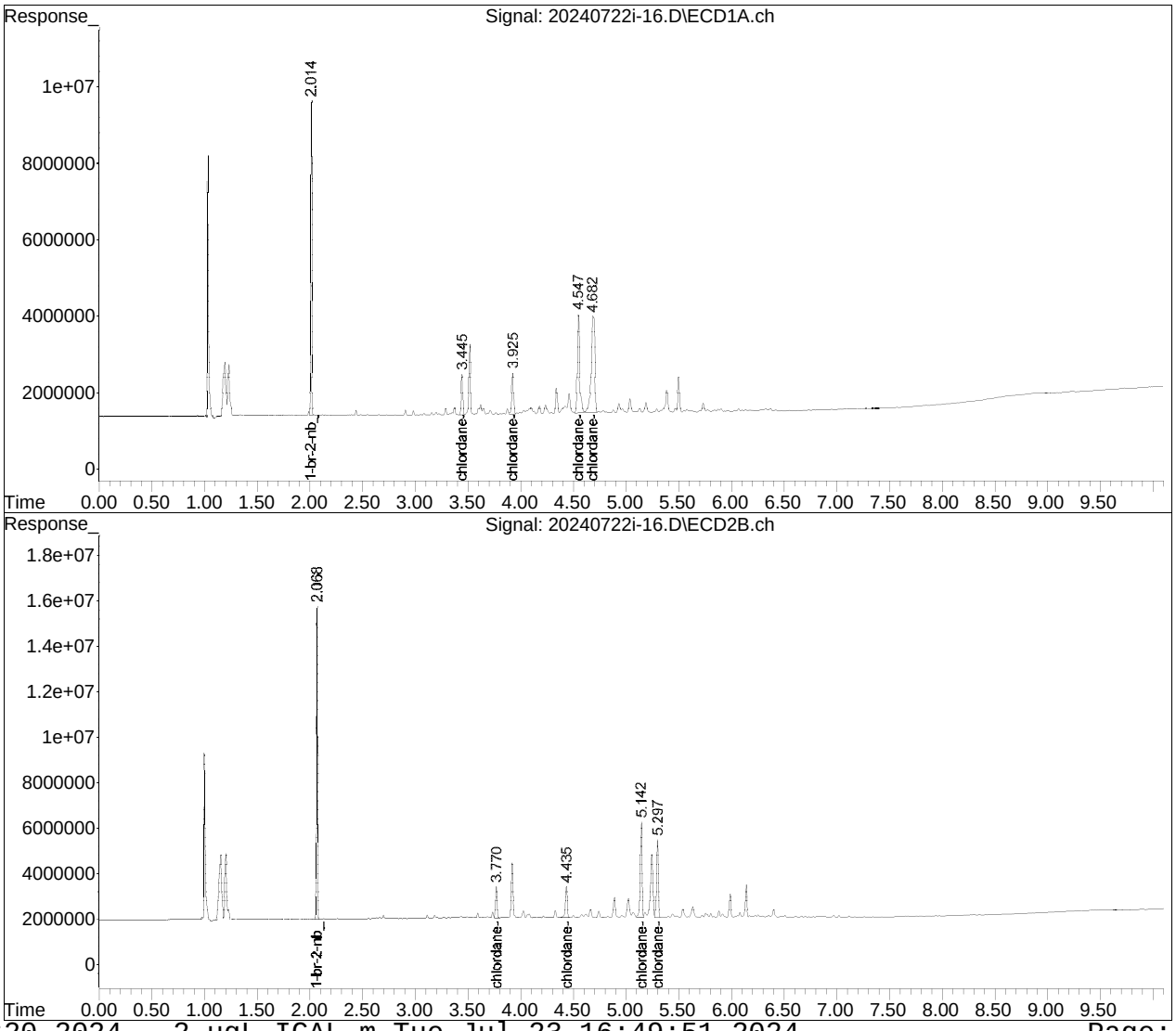
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 20:51
Operator : pest20:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:19:19 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:19:13 2024
Response via : Initial Calibration
Integrator: ChemStation

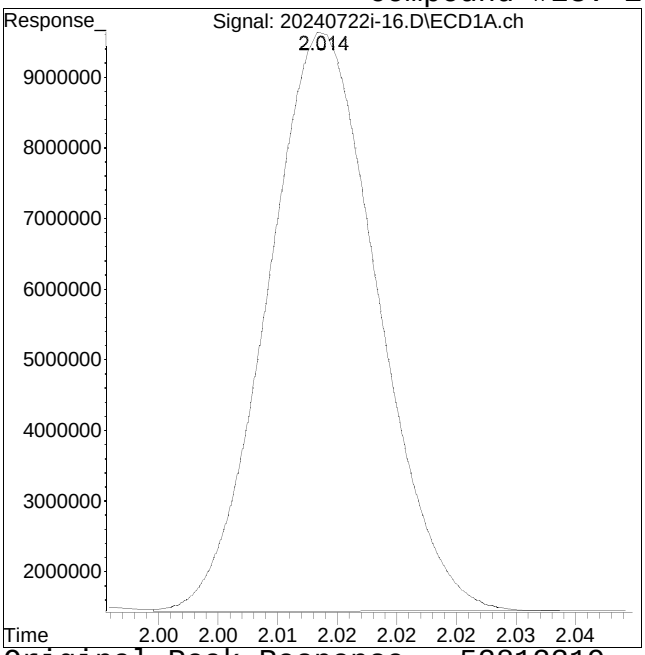
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



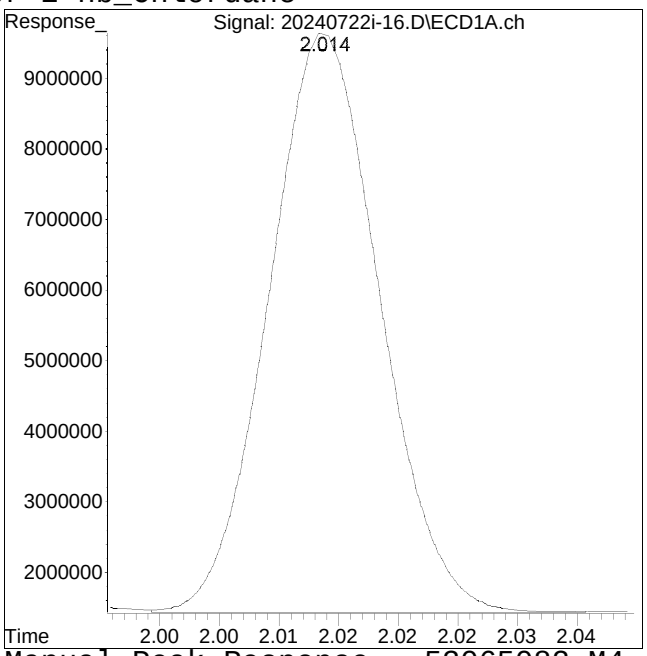
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-16.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:51 Instrument : PEST 20
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 7/23/2024 2:19 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 52812319



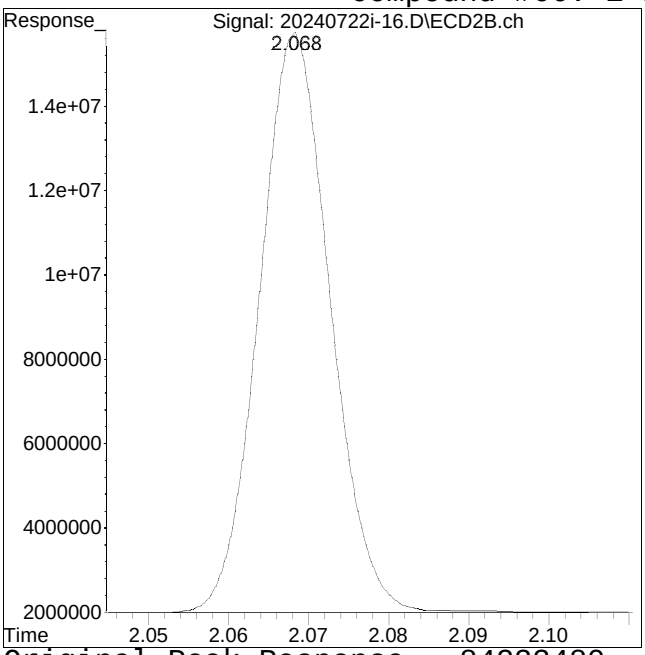
Manual Peak Response = 53065082 M4

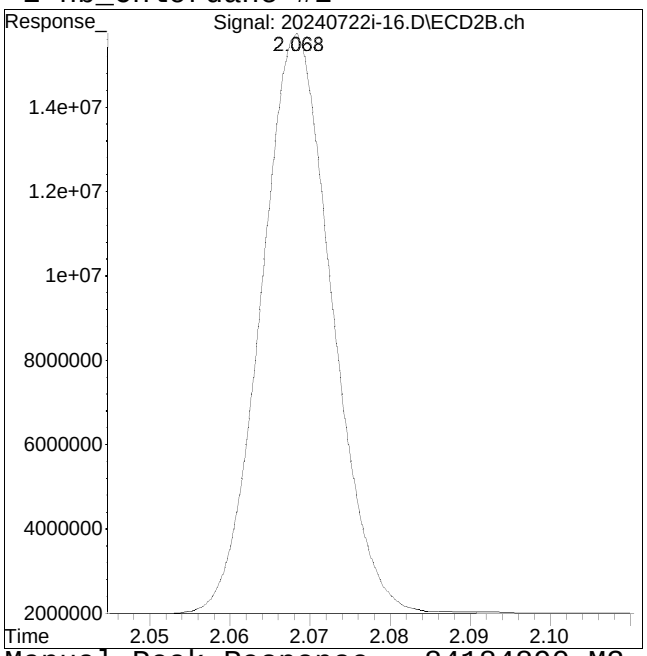
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-16.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:51 Instrument : PEST 20
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 7/23/2024 2:19 pm

Compound #66: 1-br-2-nb_Chlordane #2



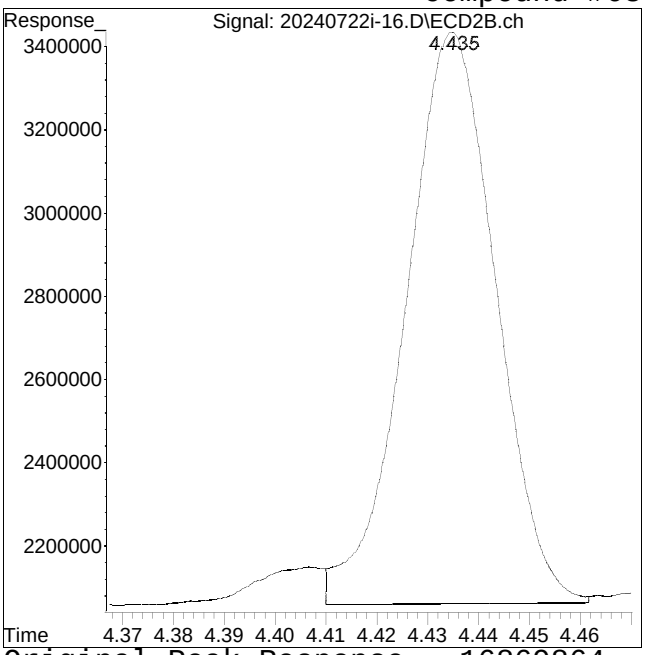


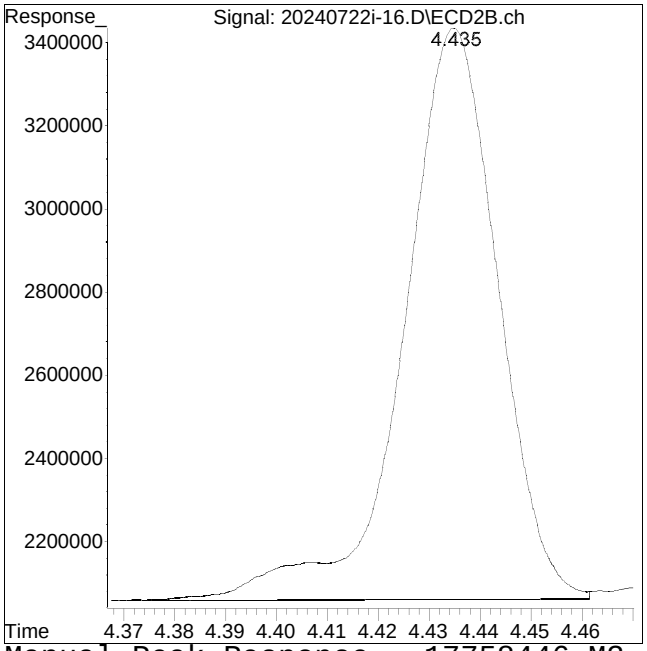
Original Peak Response = 84233480 Manual Peak Response = 84184890 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-16.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:51 Instrument : PEST 20
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 7/23/2024 2:19 pm

Compound #68: chlordane-3 #2



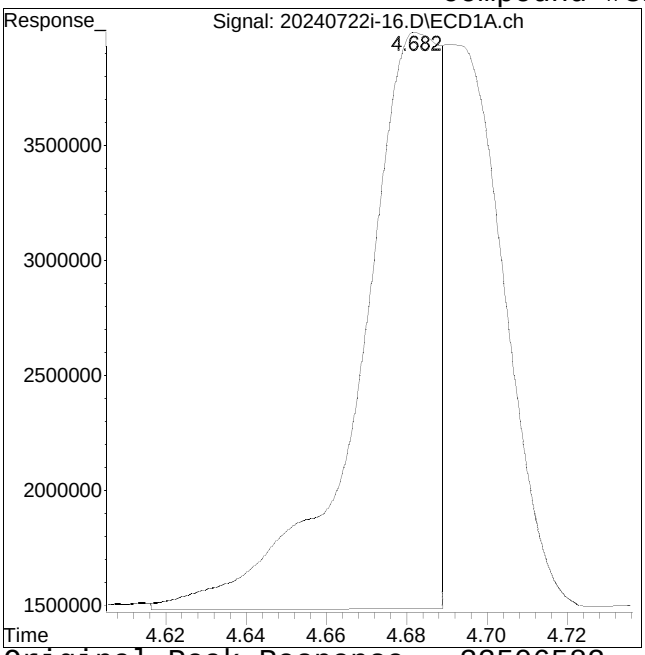


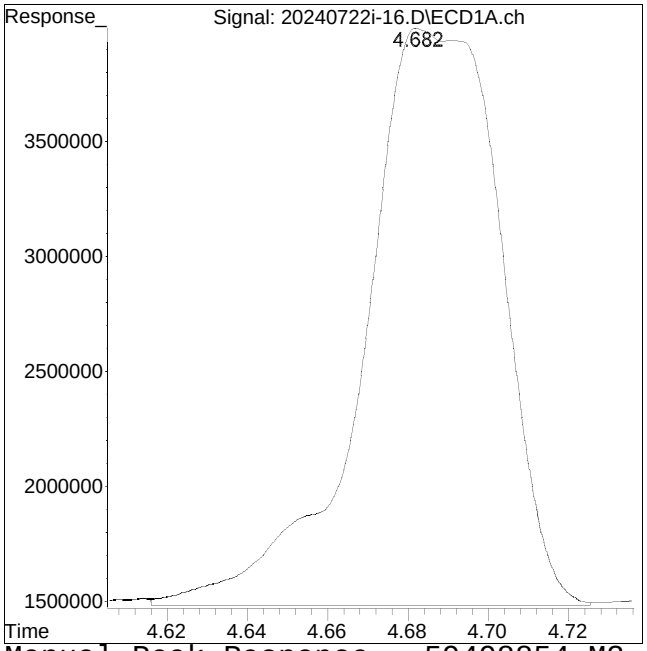
Original Peak Response = 16869864 Manual Peak Response = 17758446 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-16.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 20:51 Instrument : PEST 20
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 7/23/2024 2:19 pm

Compound #32: chlordane-5





Original Peak Response = 33506582 Manual Peak Response = 59498854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:03
Operator : pest20:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:18:15 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:18:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	2.009	2.065	52196079	84894463	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:03
Operator : pest20:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:18:15 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:18:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.442	3.768	43836436	62893386	550.910	587.502
30)	l1	chlordane-3	3.923	4.433	55017278	76935807	579.616	621.749
31)	l1	chlordane-4	4.545	5.140	178.1E6	238.7E6	536.090	573.948M3
32)	l1	chlordane-5	4.680	5.296	275.6E6	187.9E6	537.387	579.048
	Sum	chlordane-1			552.5E6	566.4E6	NoCal	NoCal D
Average		chlordane-1					551.001	590.562
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

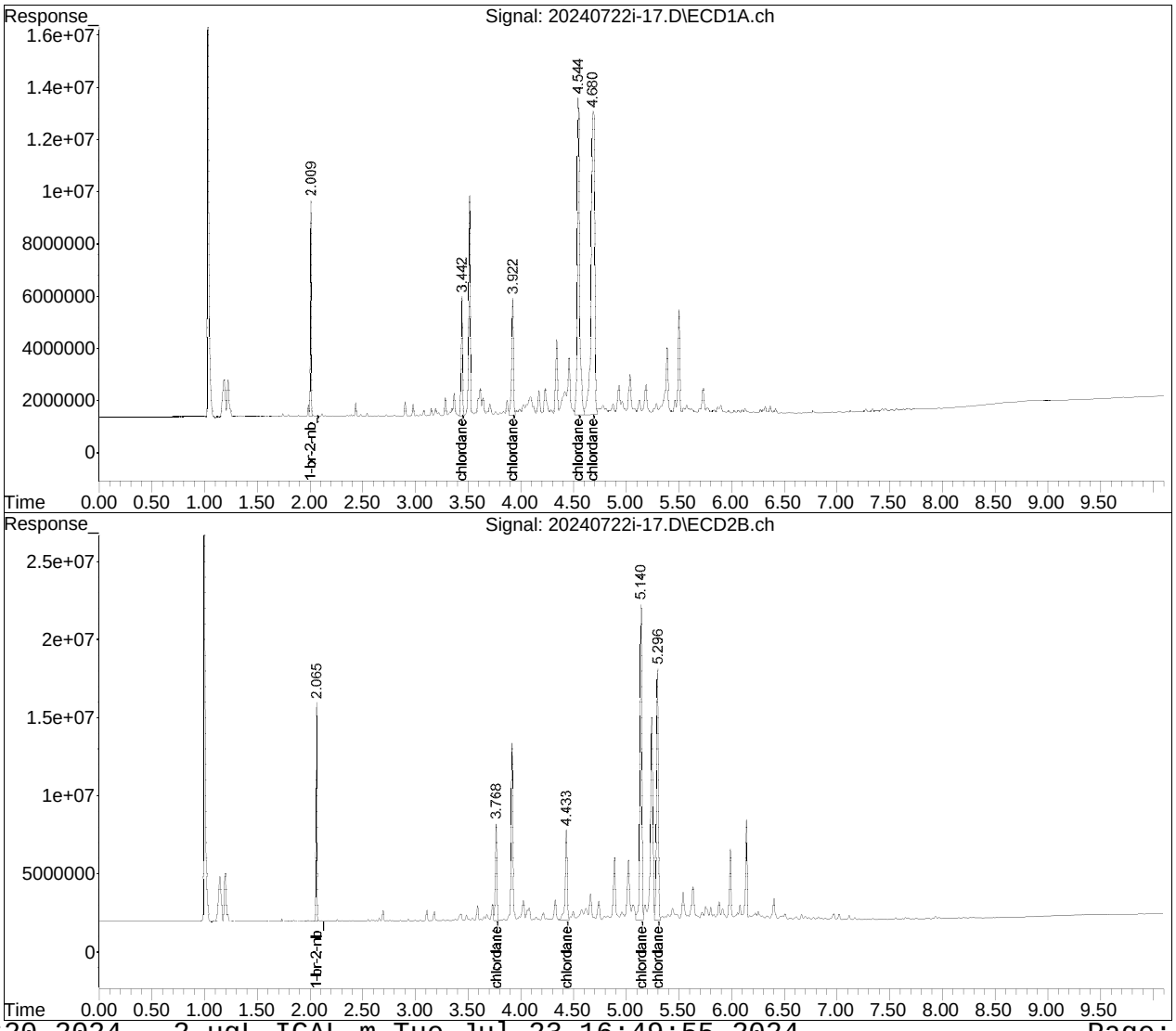
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:03
Operator : pest20:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:18:15 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:18:09 2024
Response via : Initial Calibration
Integrator: ChemStation

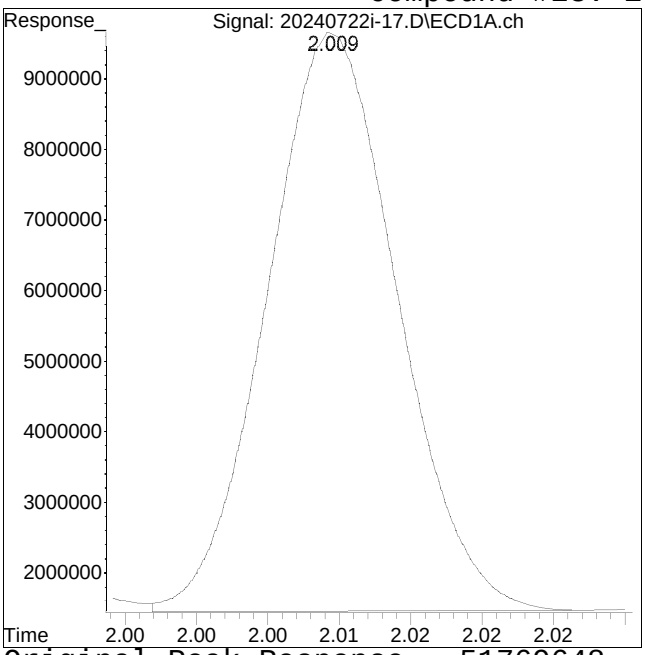
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

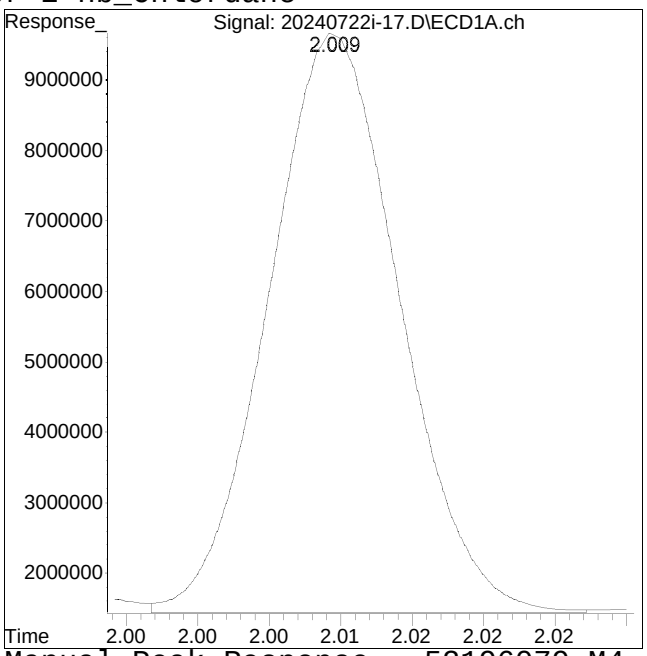


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-17.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:03 Instrument : PEST 20
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 7/23/2024 2:18 pm

Compound #28: 1-br-2-nb_Chlordane



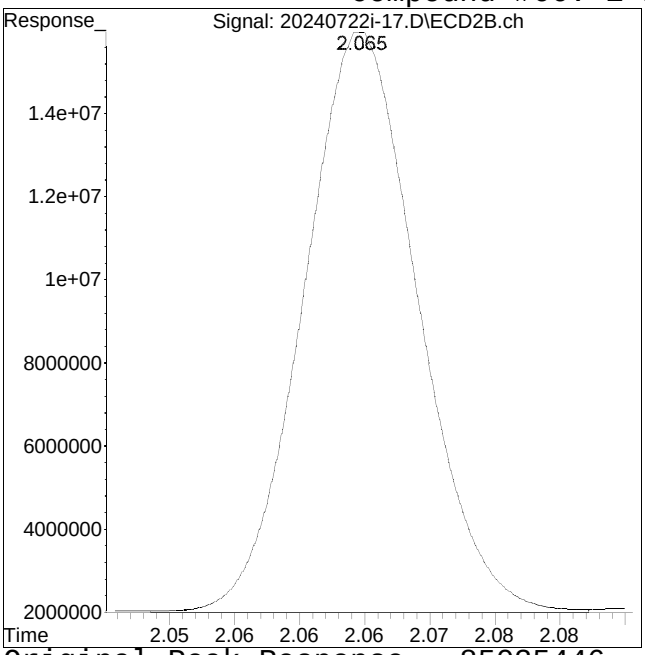


Original Peak Response = 51769648 Manual Peak Response = 52196079 M4
M4 = Poor automated baseline construction.

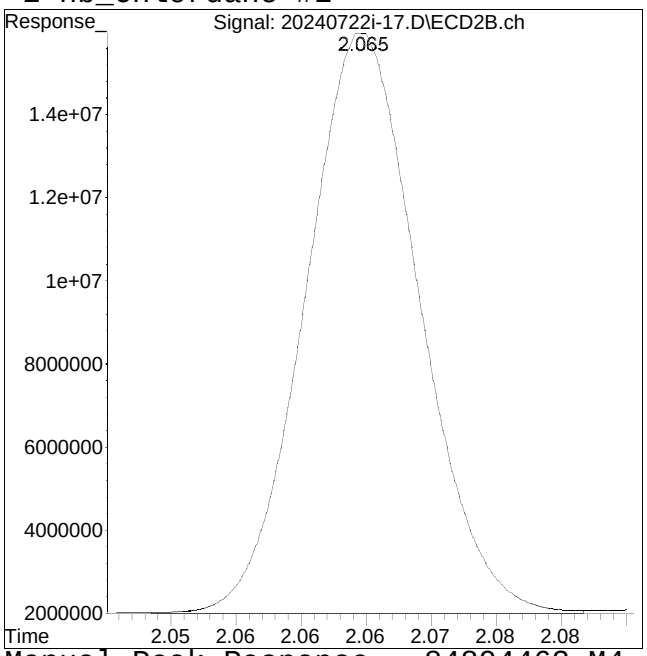
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-17.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:03 Instrument : PEST 20
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 7/23/2024 2:18 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 85035446



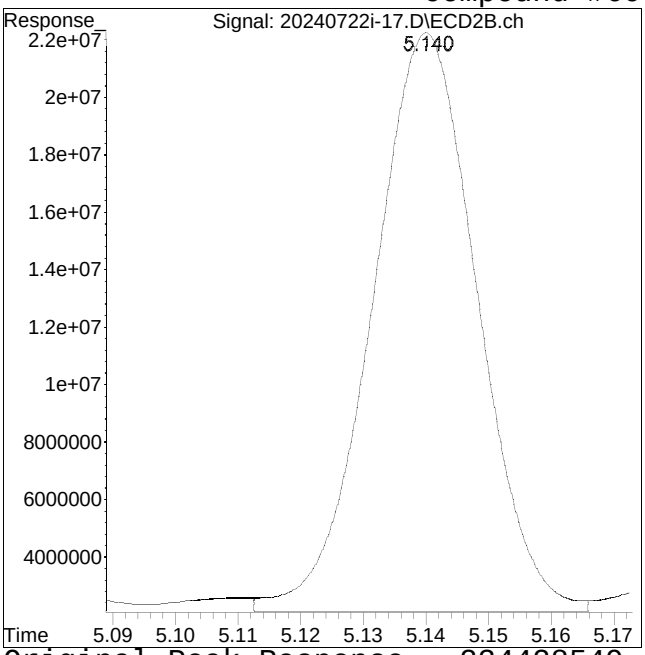
Manual Peak Response = 84894463 M4

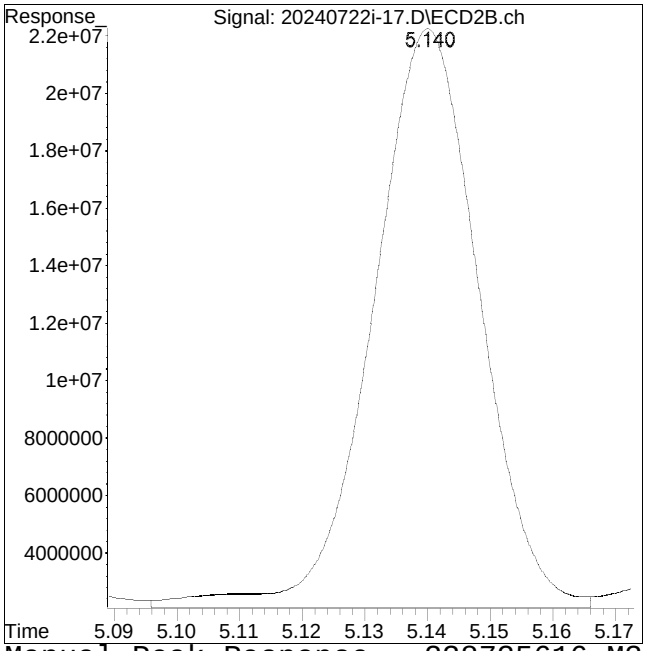
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-17.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:03 Instrument : PEST 20
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 7/23/2024 2:18 pm

Compound #69: chlordane-4 #2





Original Peak Response = 234428549 Manual Peak Response = 238735616 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:16
Operator : pest20:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:14:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:14:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	2.008	2.064	54071095	89744916	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:16
Operator : pest20:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:14:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:14:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.441	3.768	85480740	126.1E6	NoCal	NoCal
30) l1	chlordane-3	3.922	4.433	104.1E6	150.2E6	NoCal	NoCal
31) l1	chlordane-4	4.544	5.140	356.2E6	490.3E6	NoCal	NoCal
32) l1	chlordane-5	4.679	5.296	552.1E6	383.8E6	NoCal M3	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

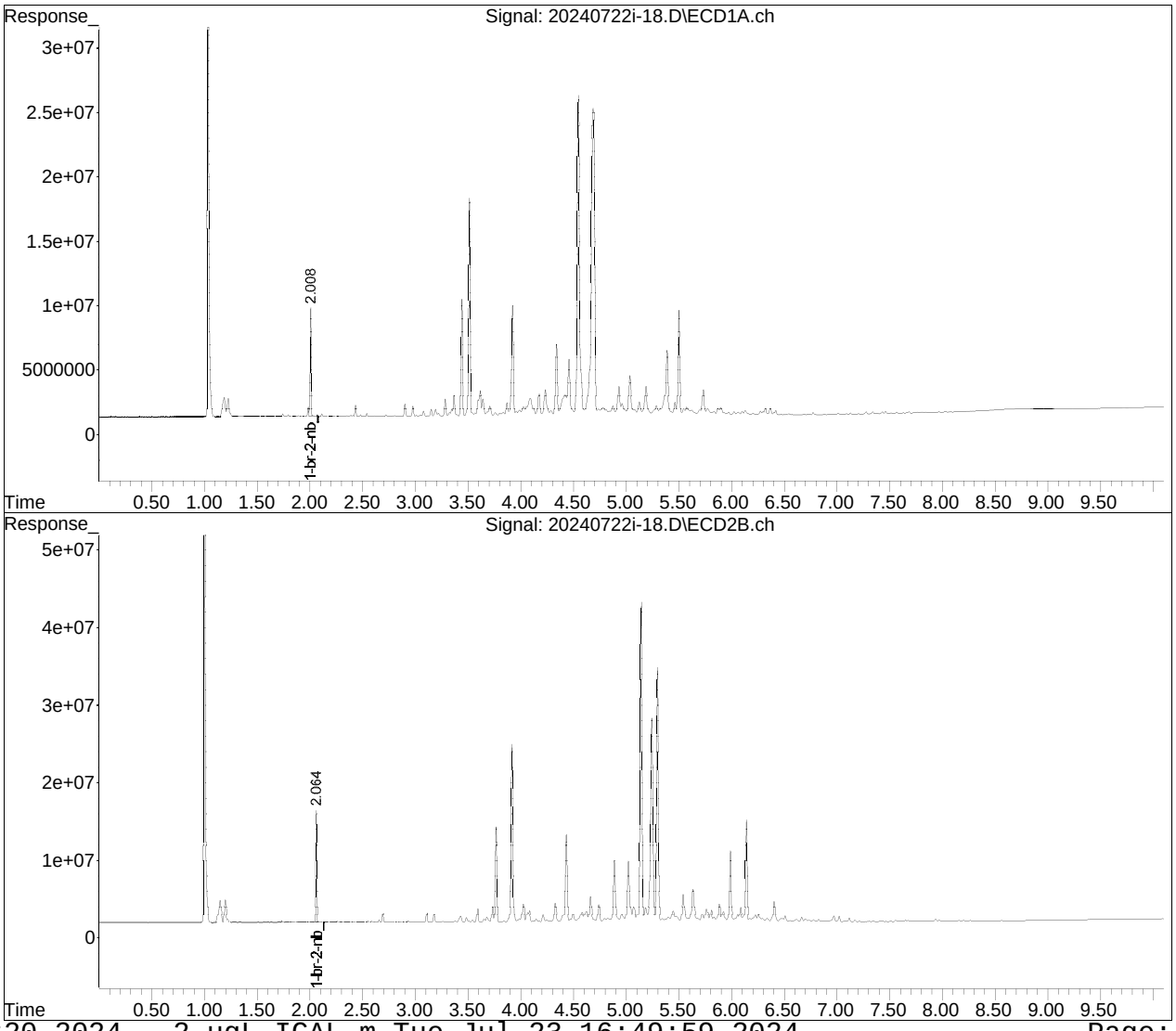
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:16
Operator : pest20:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:14:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:14:34 2024
Response via : Initial Calibration
Integrator: ChemStation

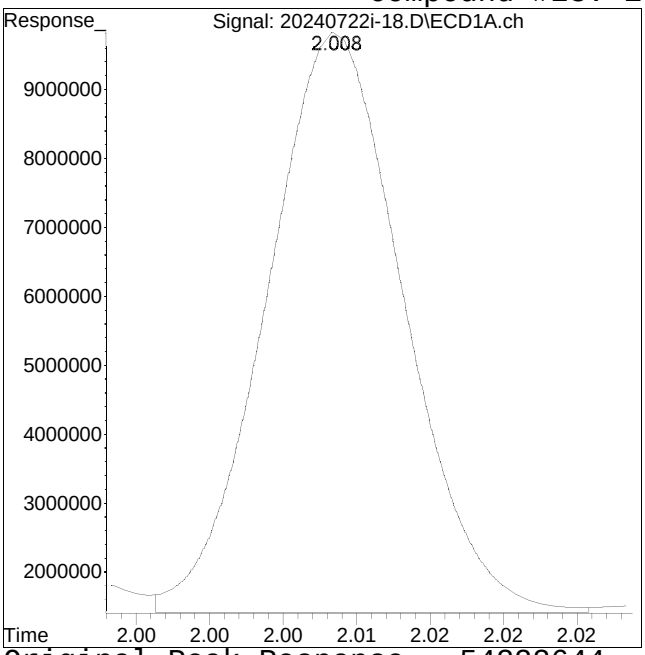
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



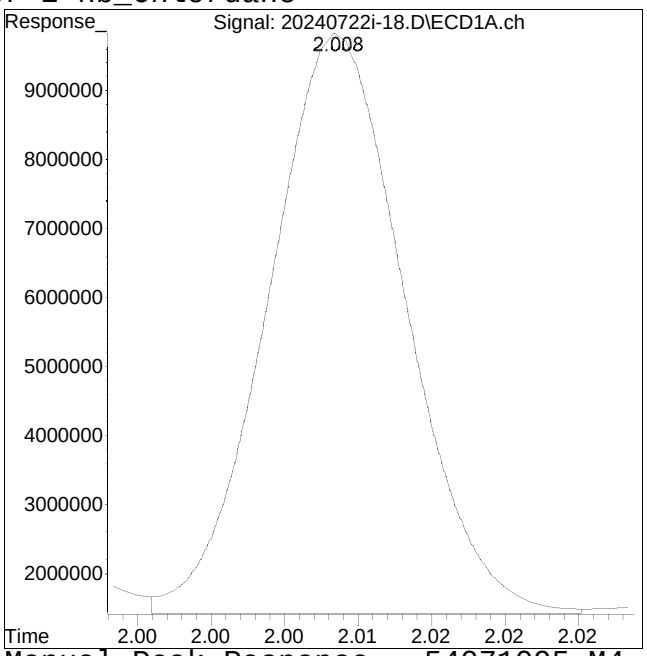
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-18.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:16 Instrument : PEST 20
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 7/23/2024 2:14 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 54222644



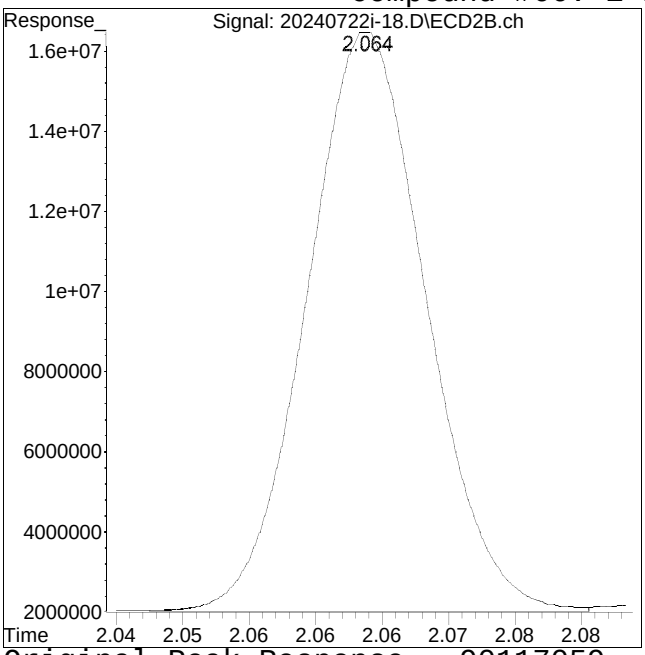
Manual Peak Response = 54071095 M4

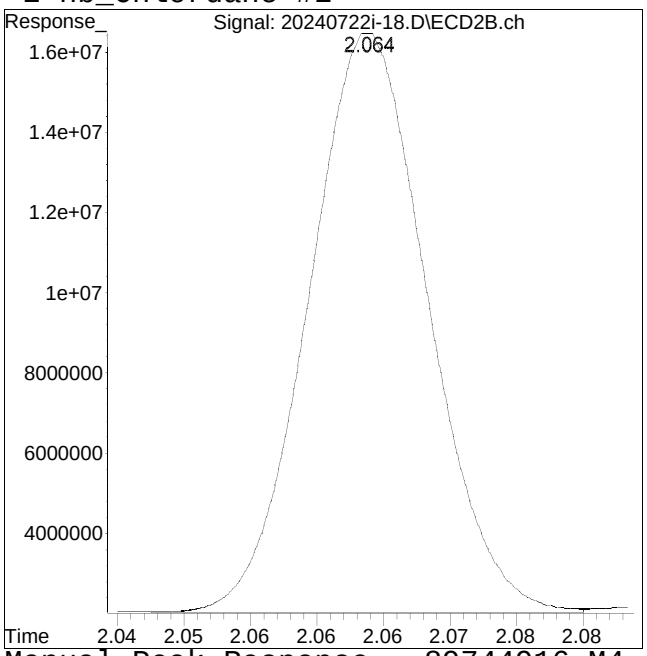
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-18.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:16 Instrument : PEST 20
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 7/23/2024 2:14 pm

Compound #66: 1-br-2-nb_Chlordane #2



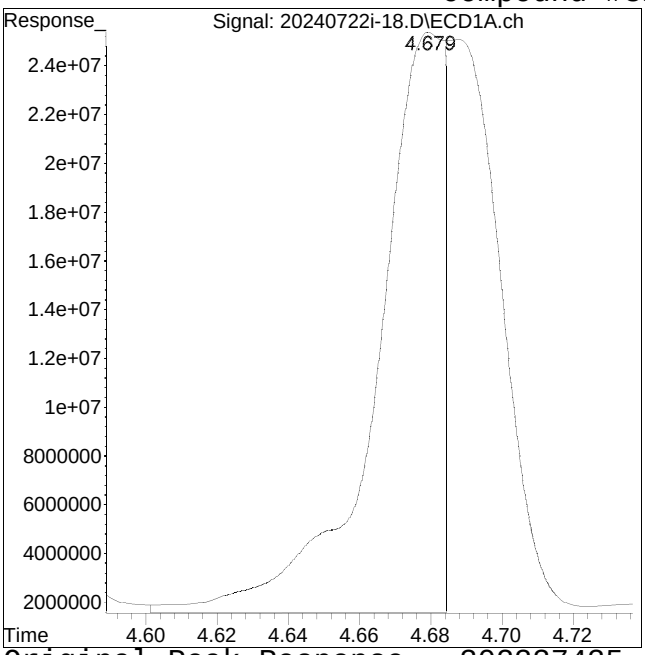


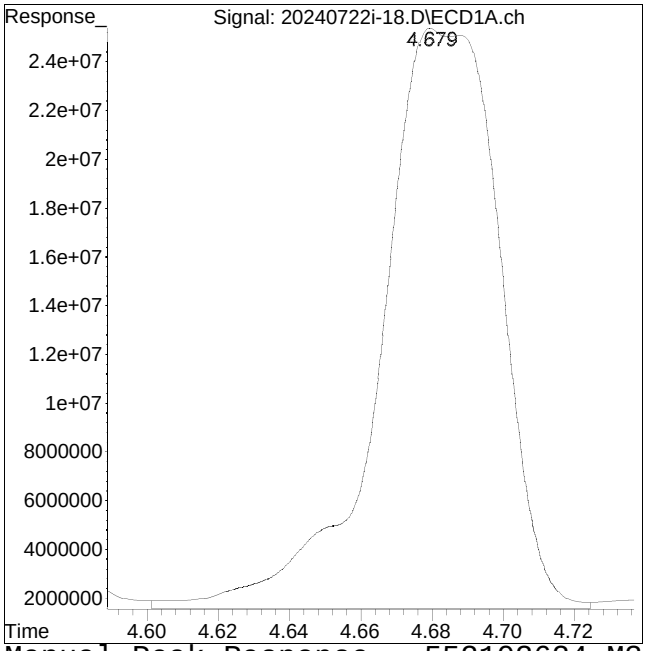
Original Peak Response = 90117059 Manual Peak Response = 89744916 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-18.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:16 Instrument : PEST 20
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 7/23/2024 2:14 pm

Compound #32: chlordane-5





Original Peak Response = 302337435 Manual Peak Response = 552103624 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:28
Operator : pest20:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:15:52 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:15:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	2.008	2.063	53813832	93943731	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:28
Operator : pest20:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:15:52 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:15:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.441	3.768	166.0E6	243.6E6	1951.302	1845.417
30)	l1	chlordane-3	3.921	4.433	198.5E6	281.1E6	1915.964	1788.015
31)	l1	chlordane-4	4.544	5.140	693.4E6	944.1E6	1956.079	1839.611
32)	l1	chlordane-5	4.680	5.296	1067.1E6	736.1E6	1941.986M3	1832.469
Sum		chlordane-1			2125.0E6	2205.0E6	NoCal	NoCal D
Average		chlordane-1					1941.333	1826.378
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

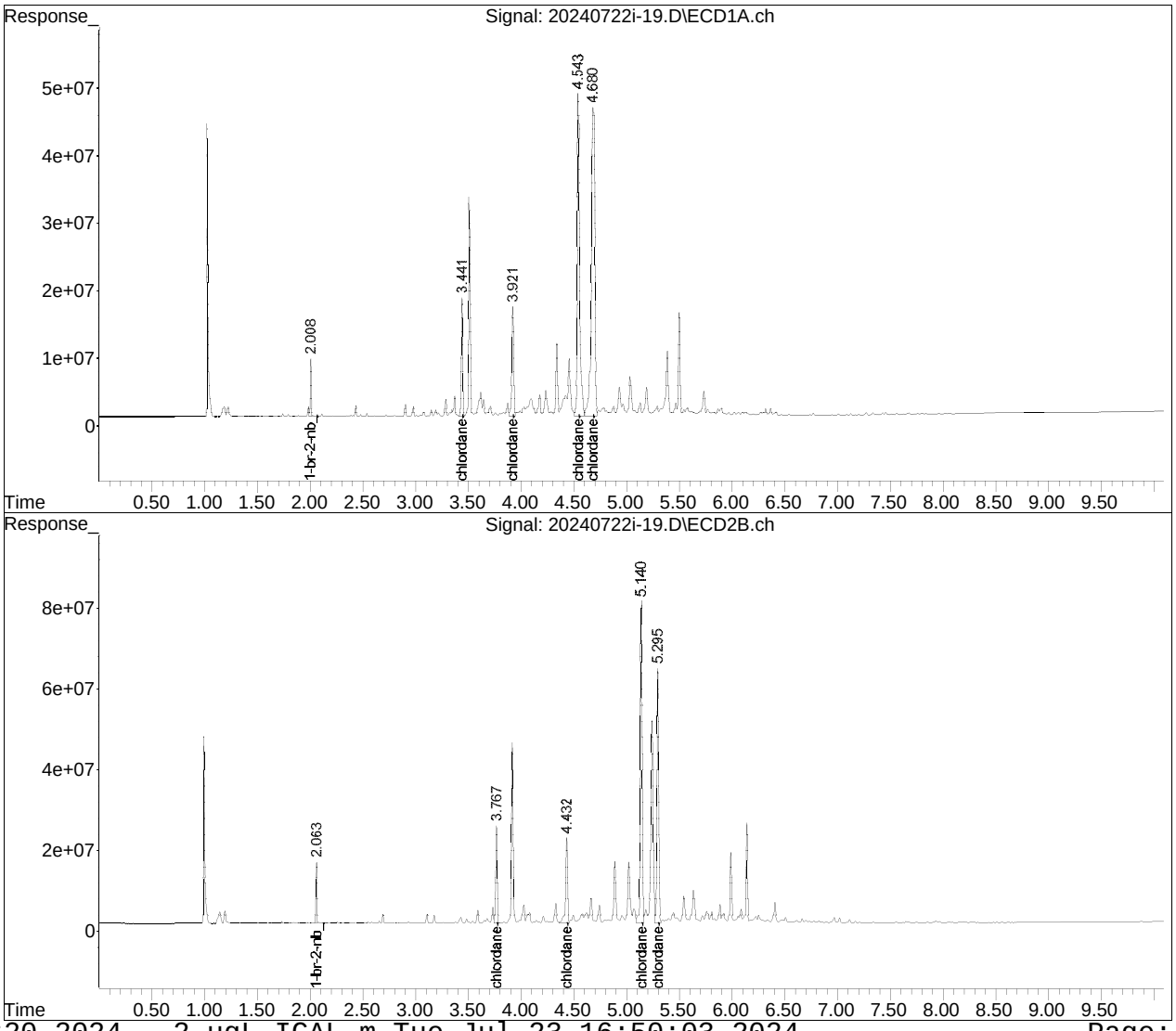
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:28
Operator : pest20:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:15:52 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:15:44 2024
Response via : Initial Calibration
Integrator: ChemStation

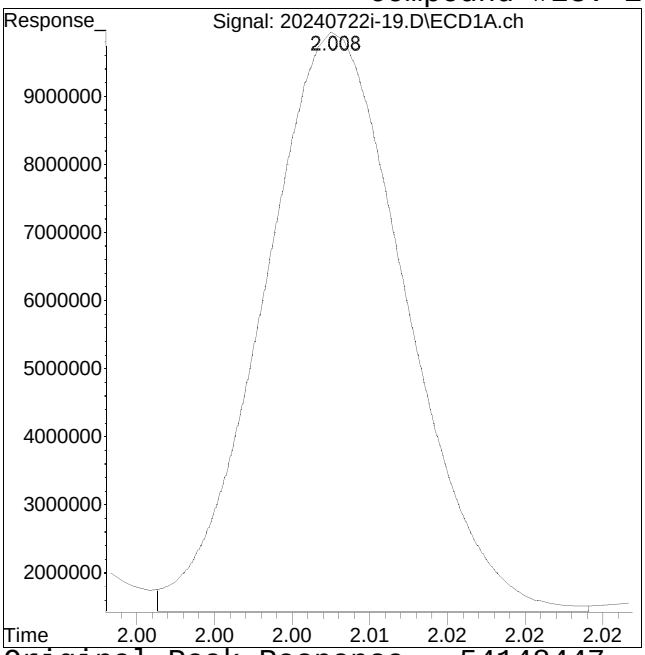
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

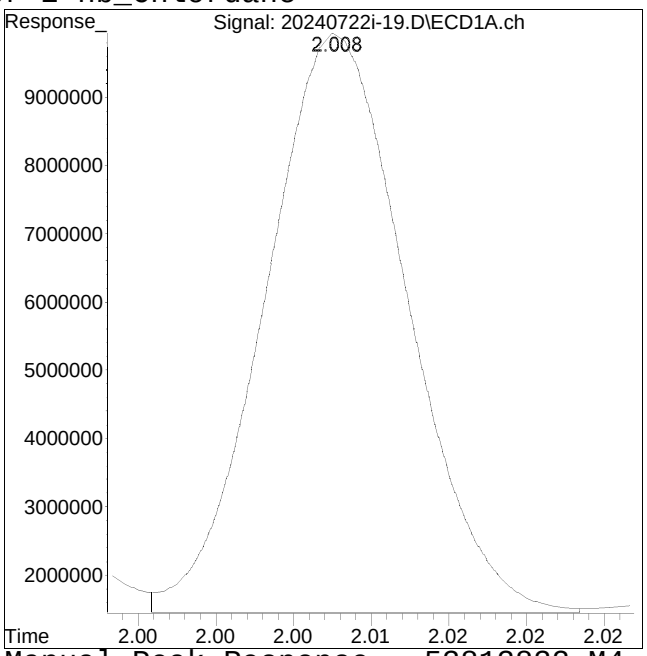


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-19.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:28 Instrument : PEST 20
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 7/23/2024 2:15 pm

Compound #28: 1-br-2-nb_Chlordane



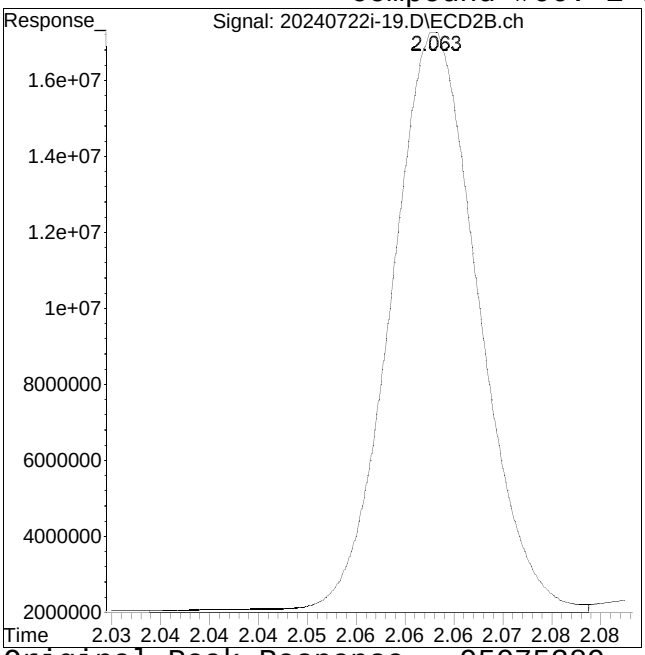


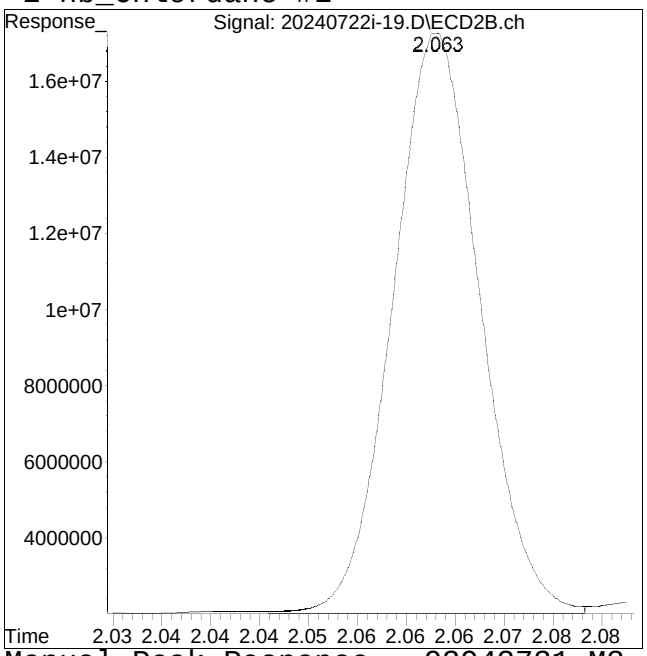
Original Peak Response = 54148447 Manual Peak Response = 53813832 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-19.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:28 Instrument : PEST 20
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 7/23/2024 2:15 pm

Compound #66: 1-br-2-nb_Chlordane #2



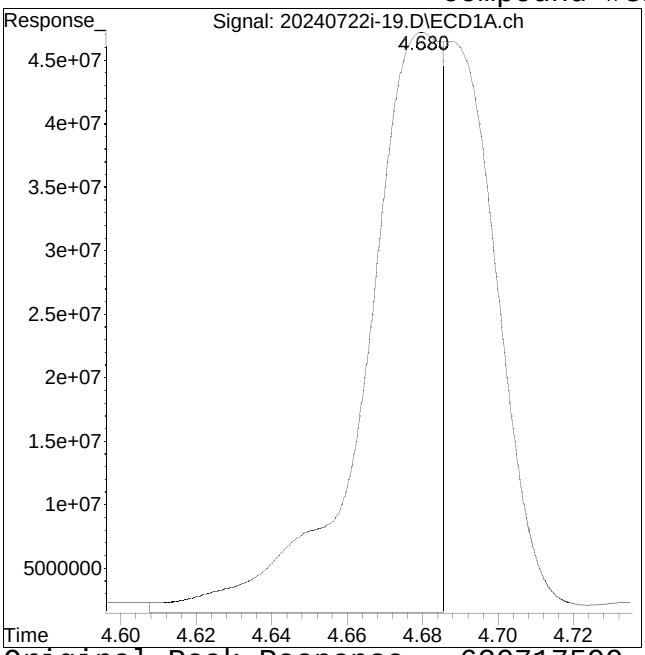


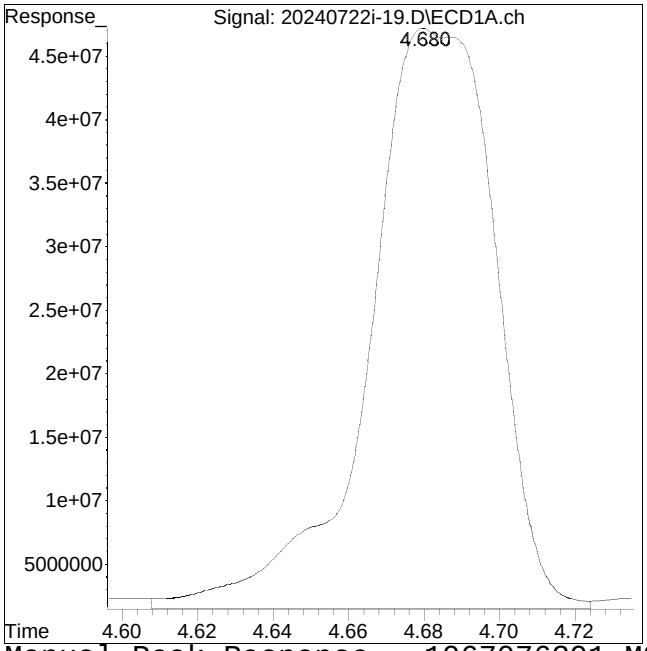
Original Peak Response = 95075389 Manual Peak Response = 93943731 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-19.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:28 Instrument : PEST 20
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 7/23/2024 2:15 pm

Compound #32: chlordane-5





Original Peak Response = 620717599 Manual Peak Response = 1067076391 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:40
Operator : pest20:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:16:54 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:16:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	2.009	2.064	55809863	110.6E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:40
Operator : pest20:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:16:54 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:16:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.442	3.768	404.6E6	597.8E6	4642.822	4001.095
30)	l1	chlordane-3	3.922	4.433	470.4E6	665.2E6	4471.299	3795.501
31)	l1	chlordane-4	4.544	5.140	1691.1E6	2328.6E6	4650.862	4015.476M3
32)	l1	chlordane-5	4.679	5.296	2609.7E6	1809.2E6	4646.971M3	3993.051
Sum		chlordane-1			5175.8E6	5400.7E6	NoCal	NoCal D
Average		chlordane-1					4602.989	3951.281
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

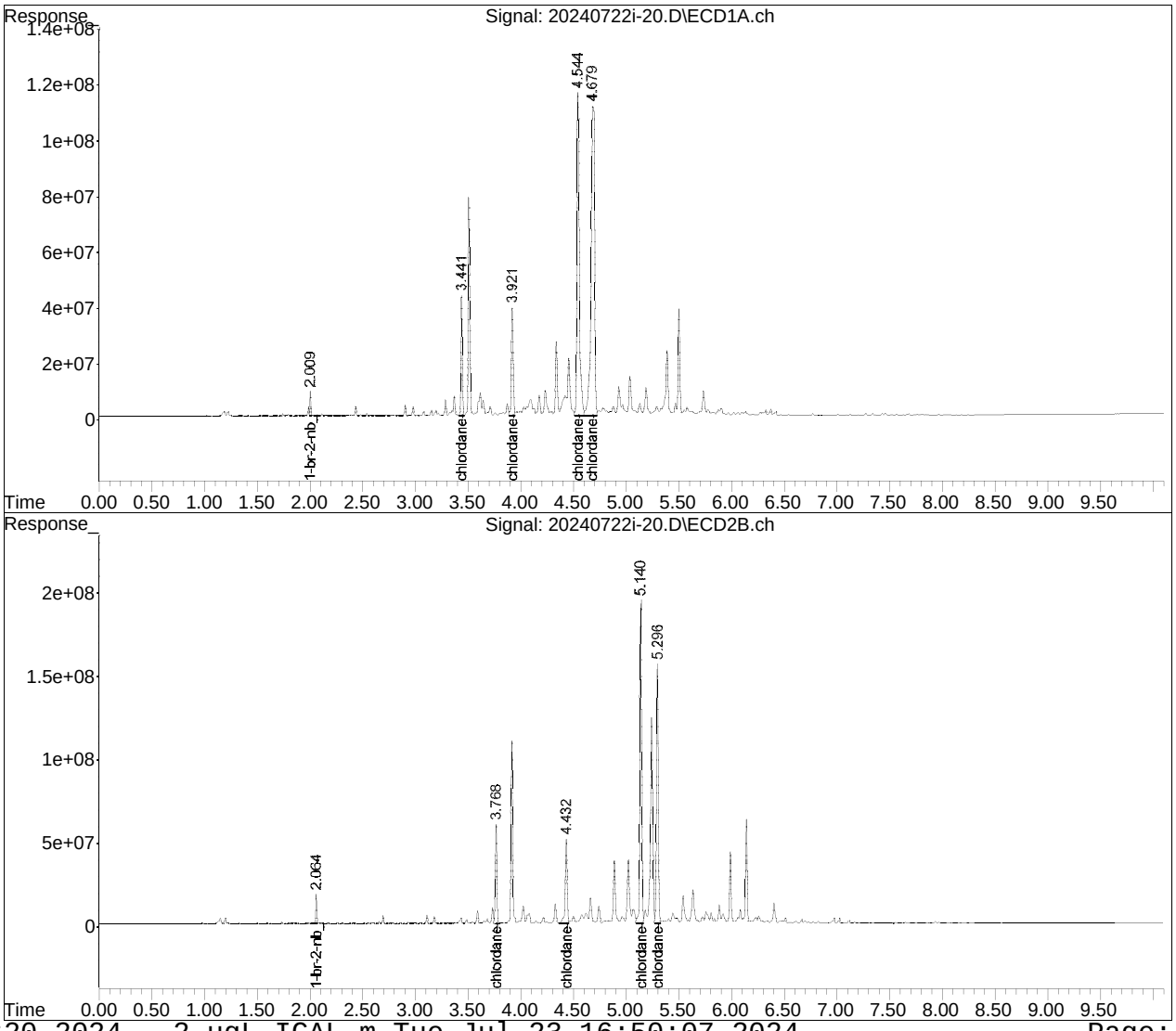
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:40
Operator : pest20:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:16:54 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:16:47 2024
Response via : Initial Calibration
Integrator: ChemStation

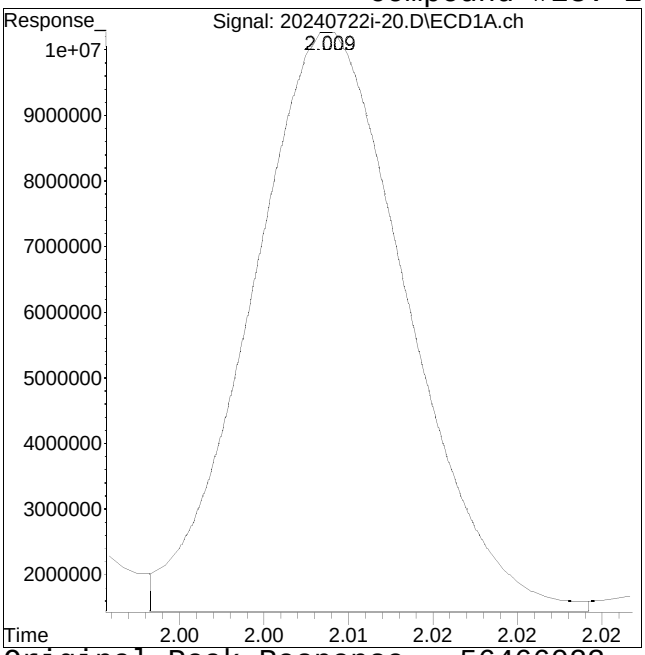
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



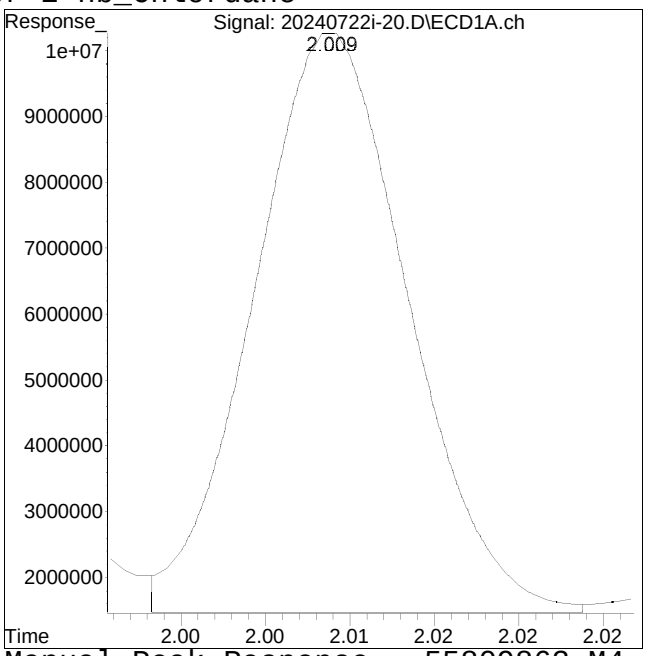
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-20.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:40 Instrument : PEST 20
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 7/23/2024 2:16 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 56466023

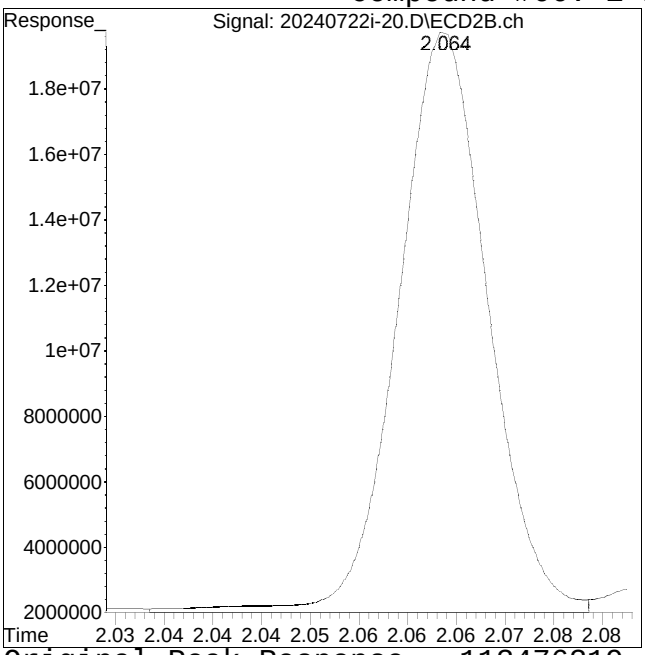


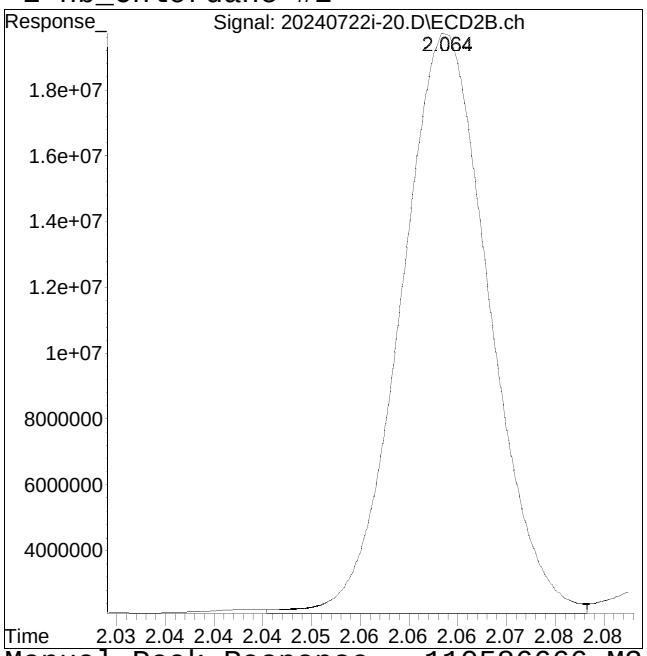
Manual Peak Response = 55809863 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-20.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:40 Instrument : PEST 20
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 7/23/2024 2:16 pm

Compound #66: 1-br-2-nb_Chlordane #2



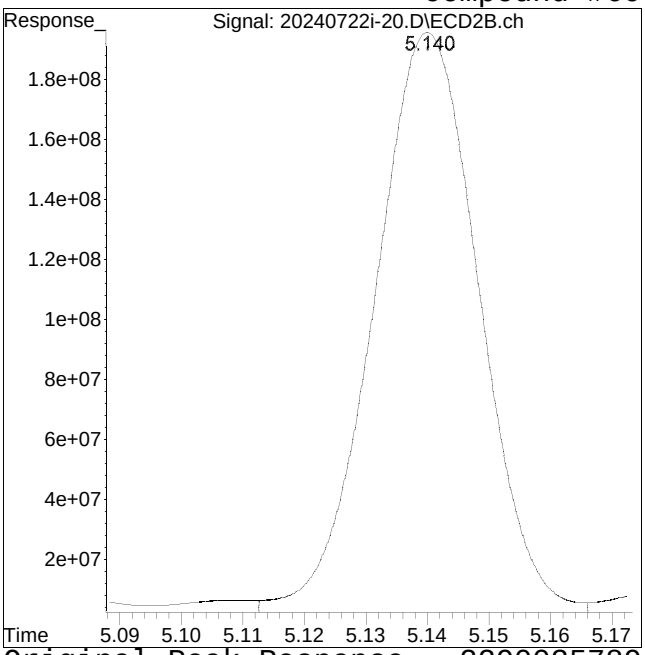


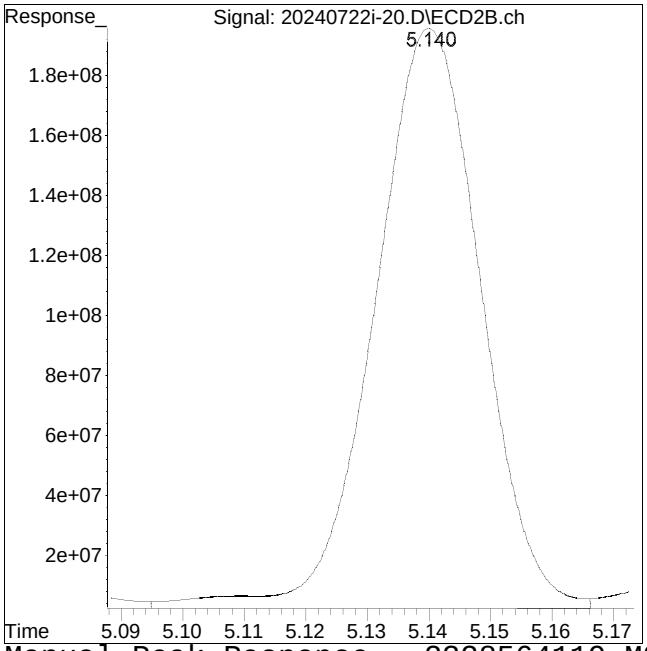
Original Peak Response = 113476319 Manual Peak Response = 110586666 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-20.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:40 Instrument : PEST 20
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 7/23/2024 2:16 pm

Compound #69: chlordane-4 #2



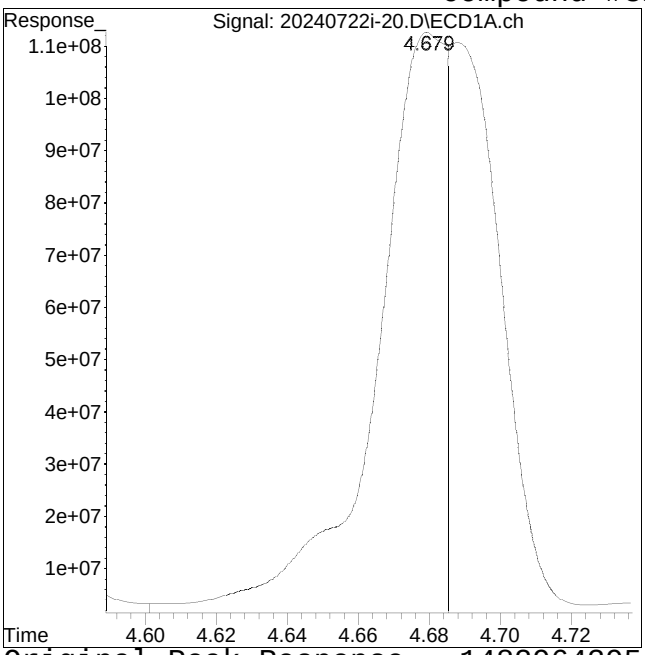


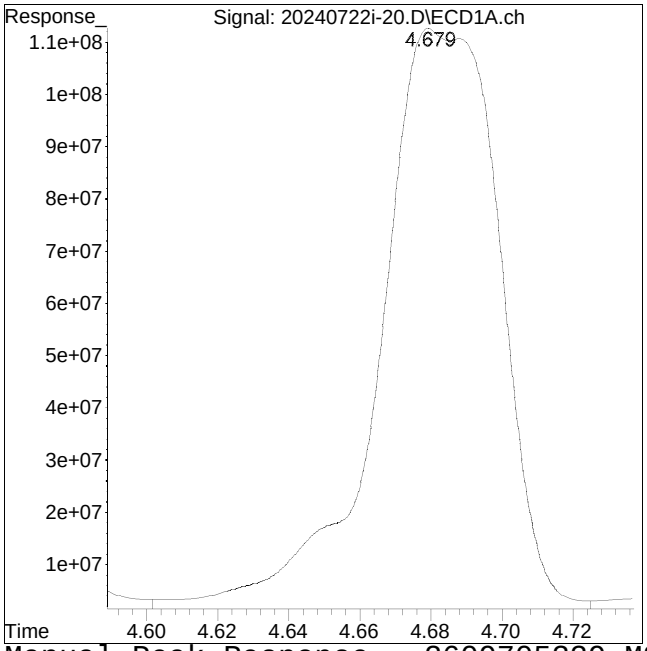
Original Peak Response = 2290035789 Manual Peak Response = 2328564119 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-20.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:40 Instrument : PEST 20
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 7/23/2024 2:16 pm

Compound #32: chlordane-5





Original Peak Response = 1482964395 Manual Peak Response = 2609705339 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 21:53
Operator : pest20:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:24:30 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:23:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	101	0.00
29	l1	chlordane-1		*1000.000	874.631	12.5	86	0.00
30	l1	chlordane-3		*1000.000	874.303	12.6	86	0.00
31	l1	chlordane-4		*1000.000	851.331	14.9	84	0.00
32	l1	chlordane-5		*1000.000	942.704	5.7	92	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	92	0.00
29	l1	chlordane-1		*1000.000	954.598	4.5	85	0.00
30	l1	chlordane-3		*1000.000	952.183	4.8	83	0.00
31	l1	chlordane-4		*1000.000	908.193	9.2	80	0.00
32	l1	chlordane-5		*1000.000	894.940	10.5	79	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-2.01#
2	s	2,4,5,6-Tetrachloro-m-xylen	*	50.000	0.000	100.0#	0	-2.47#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.74#
4		alpha-BHC		1.586	0.000	100.0#	0#	-2.86#
5		gamma-BHC (lindane)		1.529	0.000	100.0#	0#	-3.11#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.17#
7		delta-BHC		1.478	0.000	100.0#	0#	-3.32#
8		Heptachlor		1.494	0.000	100.0#	0#	-3.51#
9		Aldrin		1.394	0.000	100.0#	0#	-3.79#
10		Alachlor	*	50.000	0.000	100.0#	0	-3.93#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.03#
12		Heptachlor Epoxide		1.349	0.000	100.0#	0#	-4.41#
13		gamma-Chlordane (trans)	*	50.000	0.000	100.0#	0	-4.54#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 21:53
Operator : pest20:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:24:30 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:23:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.69#
15		4,4'-DDE		1.333	0.000	100.0#	0#	-4.79#
16		Endosulfan I		1.261	0.000	100.0#	0#	-4.84#
17		Dieldrin		1.315	0.000	100.0#	0#	-5.11#
18		Endrin		1.292	0.000	100.0#	0#	-5.34#
19		4,4'-DDD		1.086	0.000	100.0#	0#	-5.43#
20		Endosulfan II		1.175	0.000	100.0#	0#	-5.57#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.70#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.96#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.15#
24		Mirex	*	50.000	0.000	100.0#	0	-6.23#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-6.33#
26		Endrin Ketone		1.275	0.000	100.0#	0#	-6.56#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.33#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-2.01#
34	l2	toxaphene-1	*	0.043	0.000	100.0#	0#	-5.56#
35	l2	toxaphene-2	*	0.043	0.000	100.0#	0#	-6.07#
36	l2	toxaphene-4	*	0.030	0.000	100.0#	0#	-6.16#
37	l2	toxaphene-5	*	0.044	0.000	100.0#	0#	-6.24#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-2.06#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.223	0.000	100.0#	0#	-2.66#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-3.04#
4		alpha-BHC		1.533	0.000	100.0#	0#	-3.15#
5		gamma-BHC (lindane)		1.477	0.000	100.0#	0#	-3.48#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.55#
7		delta-BHC		1.443	0.000	100.0#	0#	-3.85#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 21:53
Operator : pest20:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:24:30 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:23:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.403	0.000	100.0#	0#	-3.92#
9		Aldrin		1.268	0.000	100.0#	0#	-4.27#
10		Alachlor	*	50.000	0.000	100.0#	0	-4.14#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.52#
12		Heptachlor Epoxide		1.268	0.000	100.0#	0#	-4.93#
13		gamma-Chlordane (trans)		1.090	0.000	100.0#	0#	-5.14#
14		alpha-Chlordane (cis)		1.237	0.000	100.0#	0#	-5.30#
15		4,4'-DDE		1.193	0.000	100.0#	0#	-5.47#
16		Endosulfan I		1.153	0.000	100.0#	0#	-5.35#
17		Dieldrin		1.161	0.000	100.0#	0#	-5.63#
18		Endrin		1.185	0.000	100.0#	0#	-5.91#
19		4,4'-DDD		0.979	0.000	100.0#	0#	-6.02#
20		Endosulfan II		1.098	0.000	100.0#	0#	-6.10#
21		4,4'-DDT		1.110	0.000	100.0#	0#	-6.29#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.38#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.83#
24		Mirex	*	50.000	0.000	100.0#	0	-6.99#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-6.61#
26		Endrin Ketone		1.192	0.000	100.0#	0#	-7.02#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.90#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-2.06#
34	l2	toxaphene-1	*	0.023	0.000	100.0#	0#	-6.06#
35	l2	toxaphene-2	*	0.034	0.000	100.0#	0#	-6.09#
36	l2	toxaphene-4	*	0.039	0.000	100.0#	0#	-6.39#
37	l2	toxaphene-5	*	0.038	0.000	100.0#	0#	-6.79#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:53
Operator : pest20:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:24:30 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:23:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	2.010	2.065	53282302	81942988	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:53
Operator : pest20:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:24:30 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:23:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.443	3.768	73746032	106.6E6	874.631	954.598
30)	l1	chlordane-3	3.923	4.433	89470488	125.2E6	874.303	952.183M3
31)	l1	chlordane-4	4.545	5.140	297.7E6	391.0E6	851.331	908.193M3
32)	l1	chlordane-5	4.679	5.296	508.3E6	301.4E6	942.704	894.940
	Sum	chlordane-1			969.1E6	924.2E6	NoCal	NoCal D
Average		chlordane-1					885.742	927.479
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

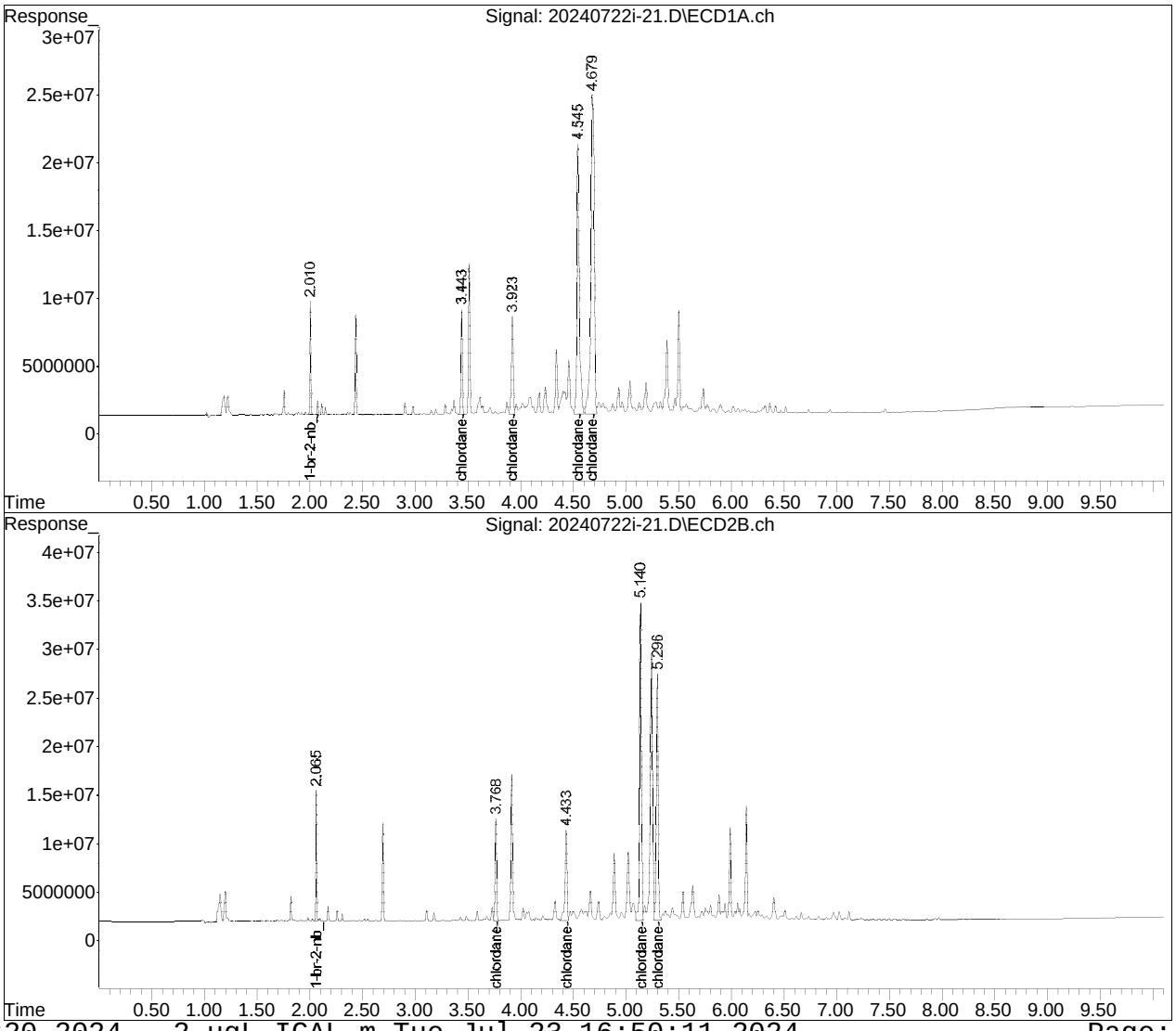
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 21:53
Operator : pest20:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:24:30 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:23:58 2024
Response via : Initial Calibration
Integrator: ChemStation

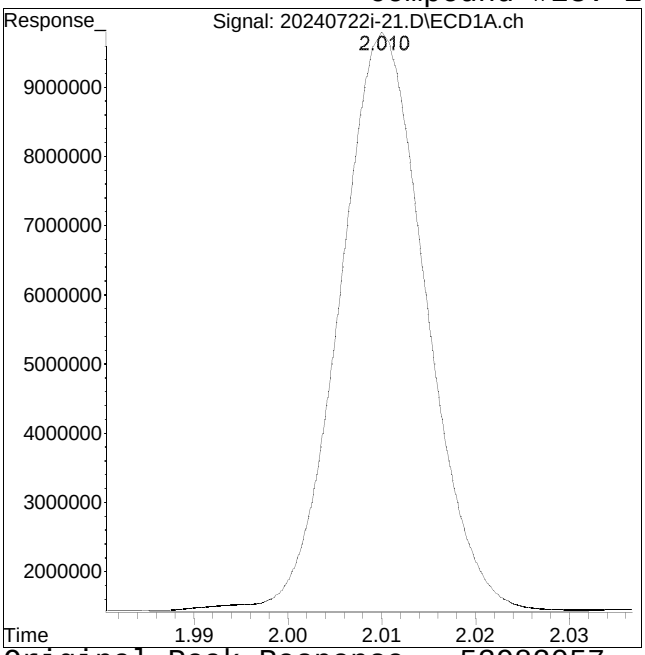
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

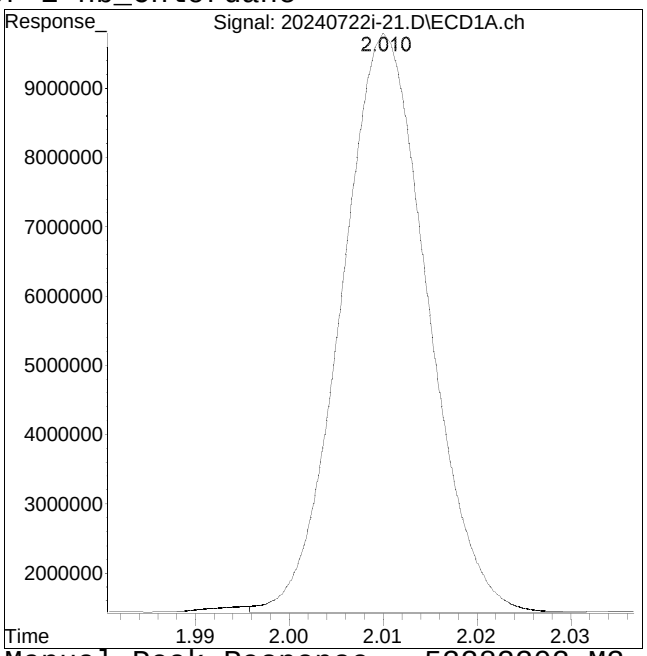


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-21.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:53 Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 7/23/2024 2:24 pm

Compound #28: 1-br-2-nb_Chlordane



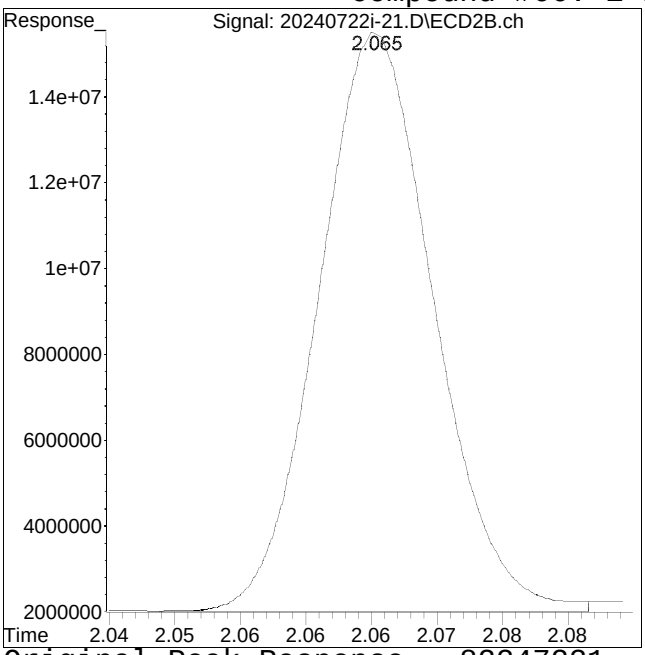


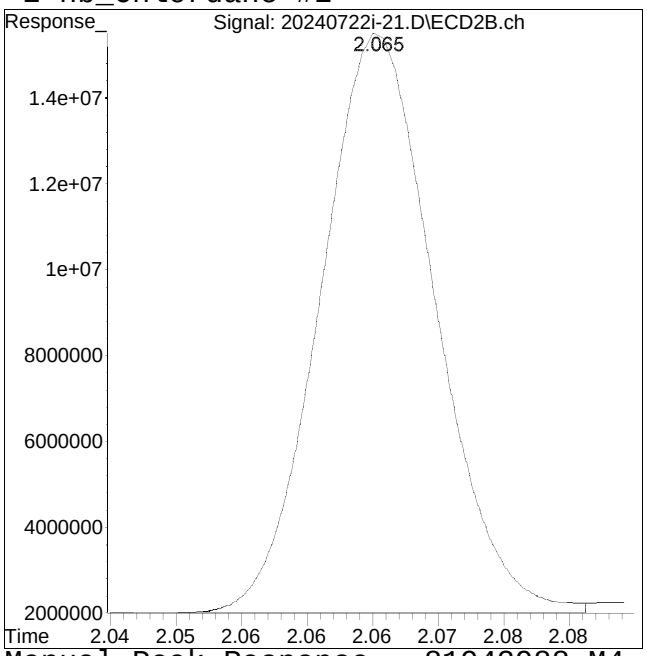
Original Peak Response = 53982057 Manual Peak Response = 53282302 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-21.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:53 Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 7/23/2024 2:24 pm

Compound #66: 1-br-2-nb_Chlordane #2



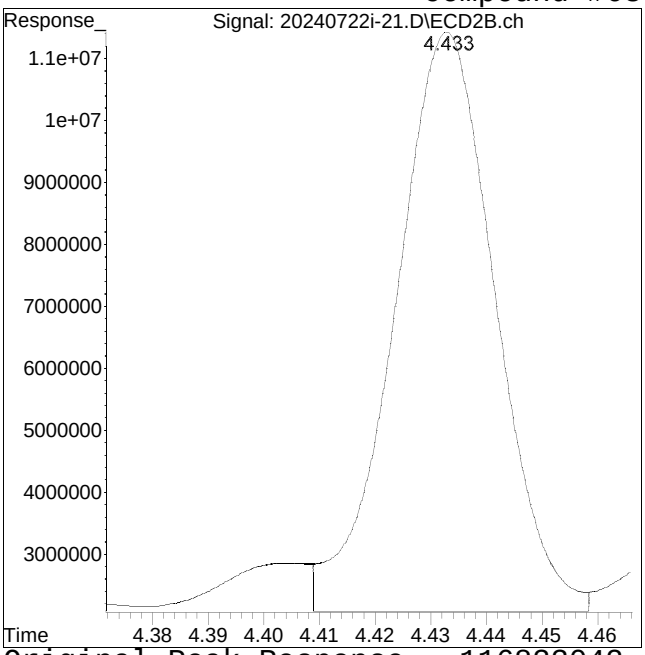


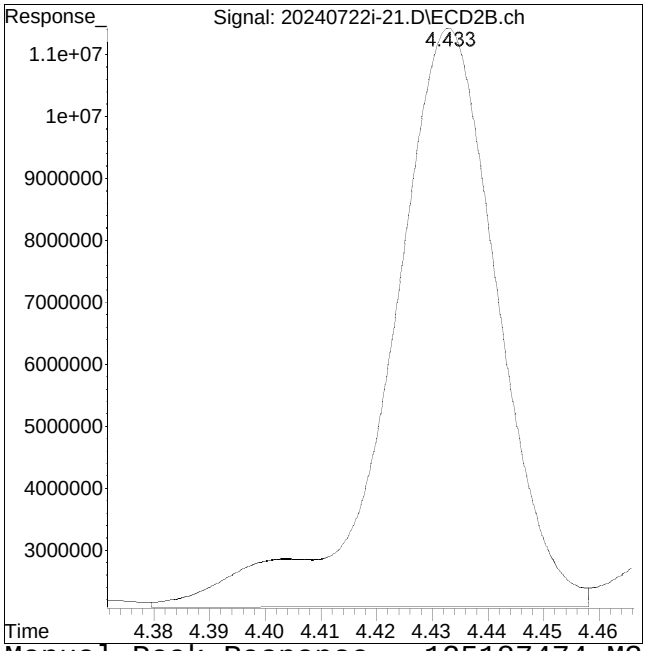
Original Peak Response = 82247231 Manual Peak Response = 81942988 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-21.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:53 Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 7/23/2024 2:24 pm

Compound #68: chlordane-3 #2



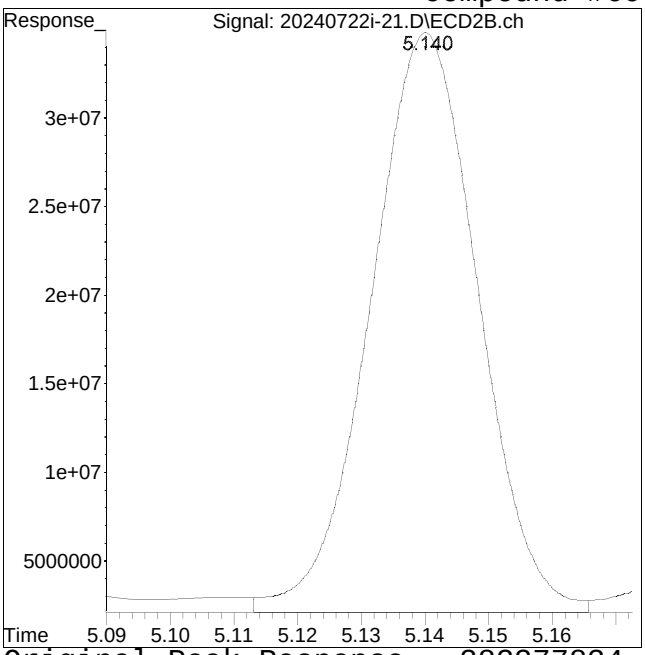


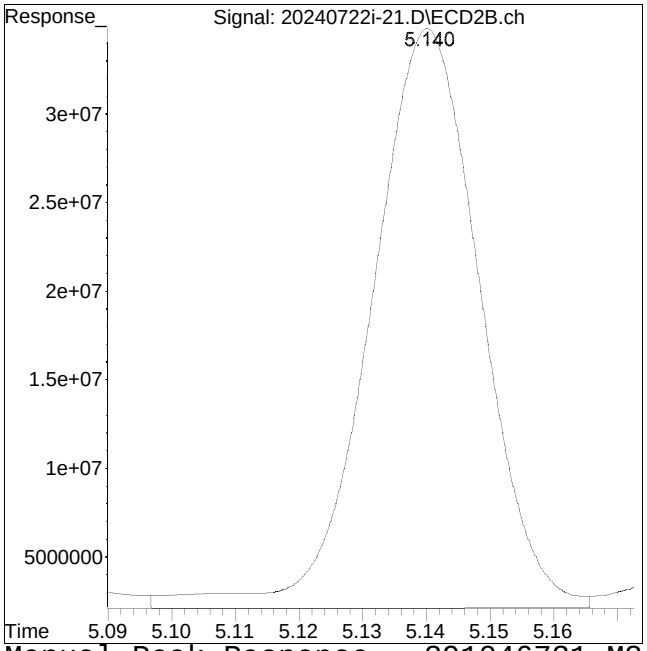
Original Peak Response = 116833042 Manual Peak Response = 125187474 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-21.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 21:53 Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 7/23/2024 2:24 pm

Compound #69: chlordane-4 #2





Original Peak Response = 383377834 Manual Peak Response = 391046731 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:05
Operator : pest20:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:31:13 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:31:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	2.009	2.065	52522268	82768638	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D.	N.D.
14)	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:05
Operator : pest20:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:31:13 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:31:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.557	6.058	1801980	1449965	19.779	19.319M4
35) l2	toxaphene-2	6.067	6.087	1994294	2343061	22.947M4	21.155M4
36) l2	toxaphene-4	6.162	6.389	1602672	2790765	27.696M4	21.904M4
37) l2	toxaphene-5	6.244	6.794	2228060	2948500	25.207M4	24.191M4
Sum	toxaphene-1			7627007	9532291	95.628	86.569
Average	toxaphene-1					23.907	21.642

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			7627007	9532291	95.628	86.569
Average	toxaphene-1					23.907	21.642

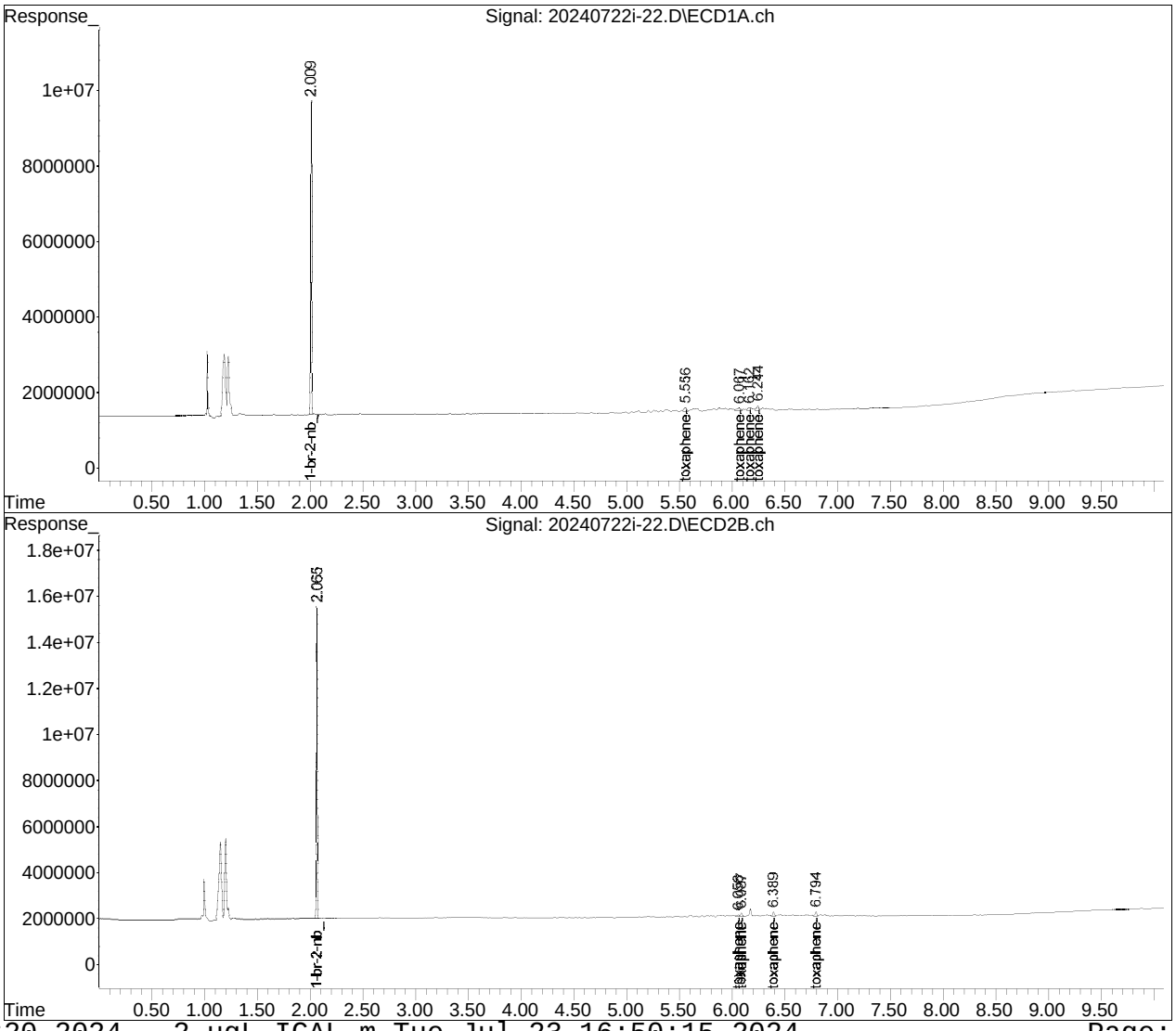
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:05
Operator : pest20:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:31:13 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:31:06 2024
Response via : Initial Calibration
Integrator: ChemStation

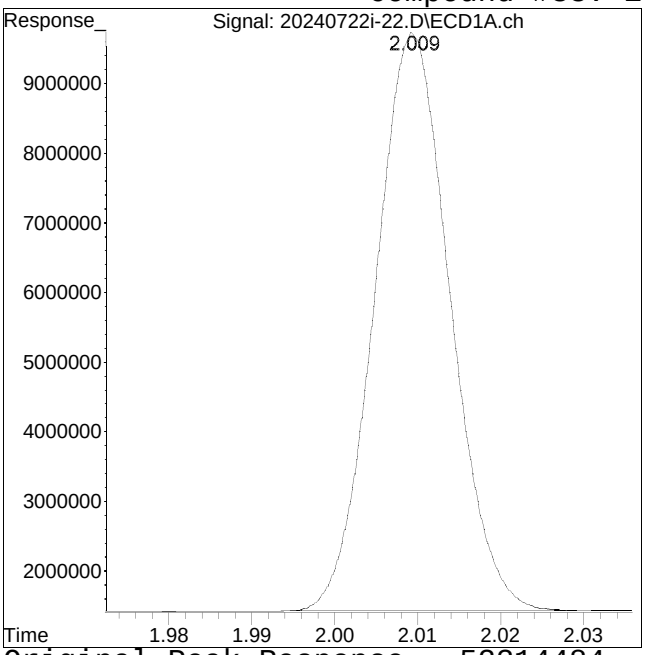
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



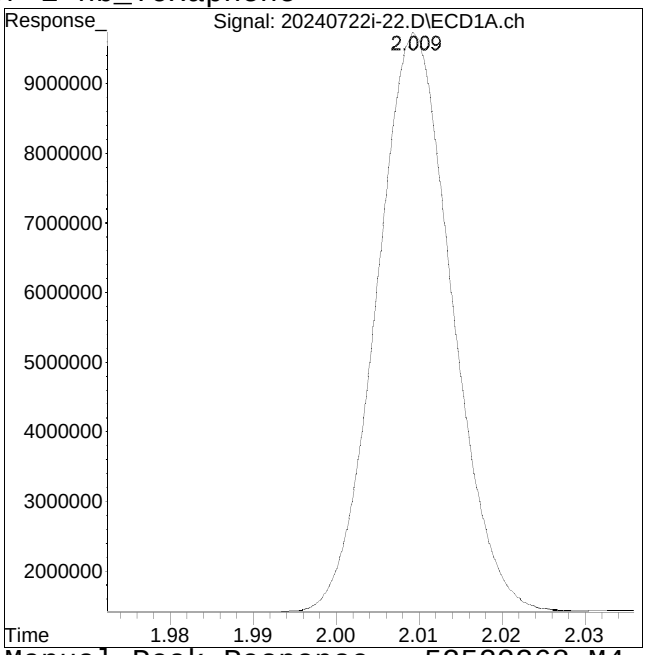
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-22.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:05 Instrument : PEST 20
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 7/23/2024 2:31 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 52314484

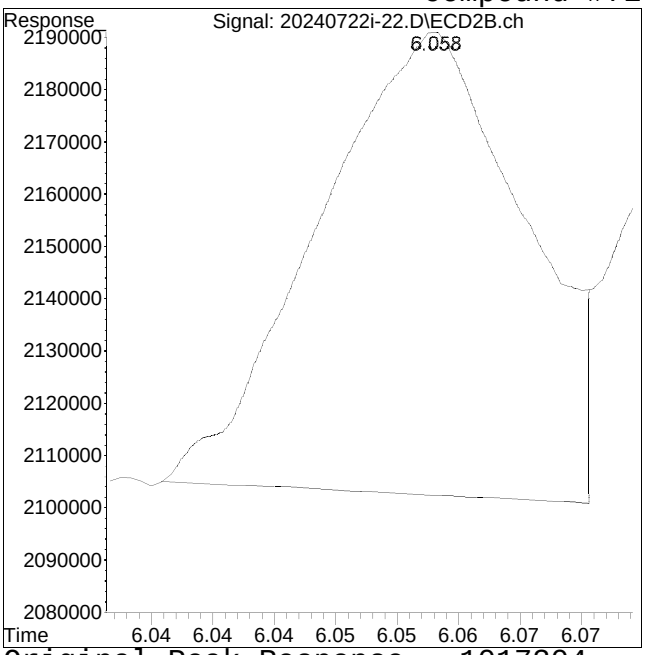


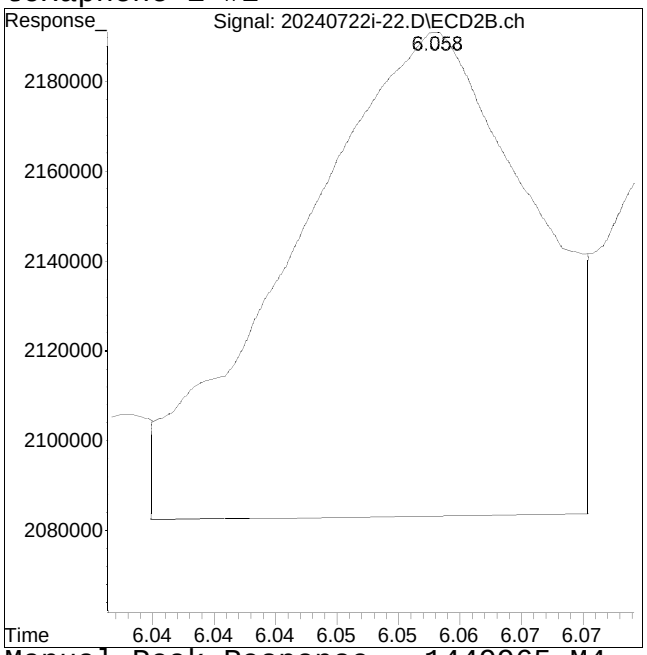
Manual Peak Response = 52522268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-22.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:05 Instrument : PEST 20
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 7/23/2024 2:31 pm

Compound #72: toxaphene-1 #2





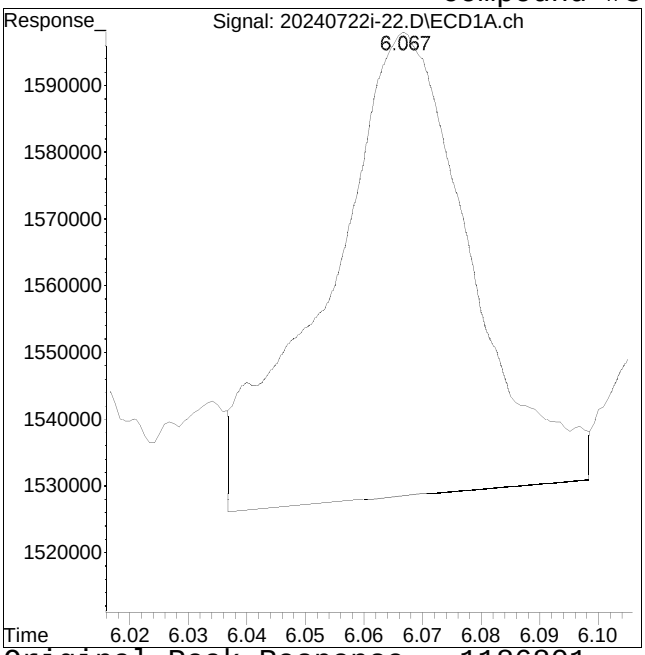
Original Peak Response = 1017304 Manual Peak Response = 1449965 M4
M4 = Poor automated baseline construction.

Manual Integration Report

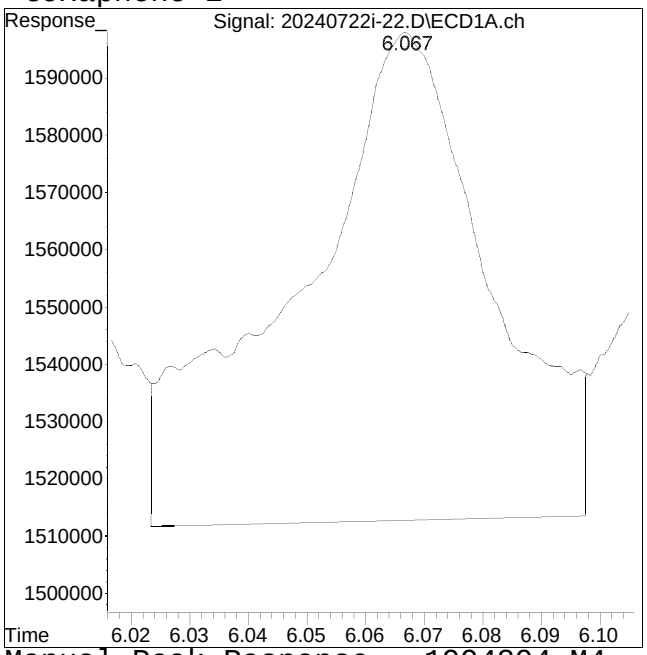
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-22.D
Date Inj'd : 7/22/2024 22:05
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:31 pm

Compound #35: toxaphene-2



Original Peak Response = 1186801



Manual Peak Response = 1994294 M4

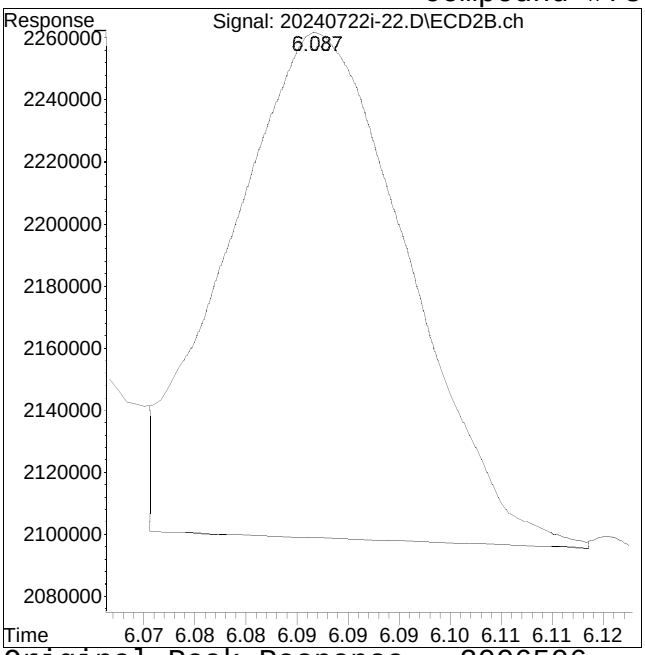
M4 = Poor automated baseline construction.

Manual Integration Report

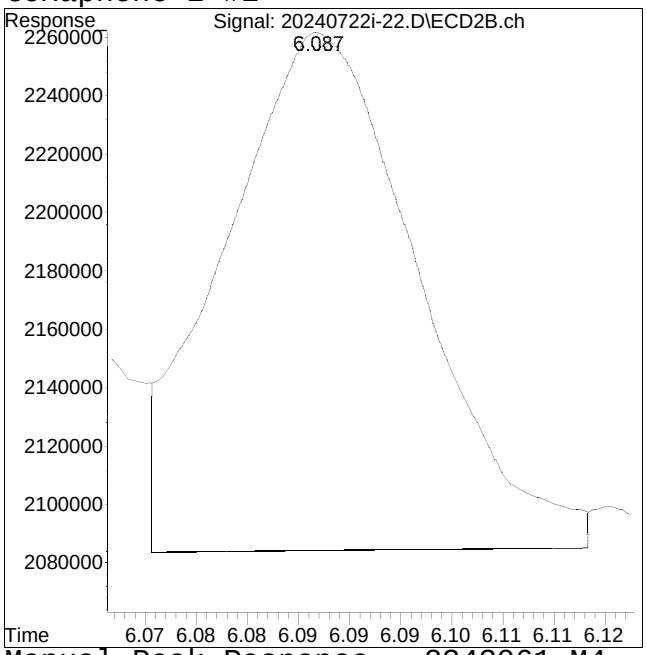
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-22.D
Date Inj'd : 7/22/2024 22:05
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:31 pm

Compound #73: toxaphene-2 #2



Original Peak Response = 2006506



Manual Peak Response = 2343061 M4

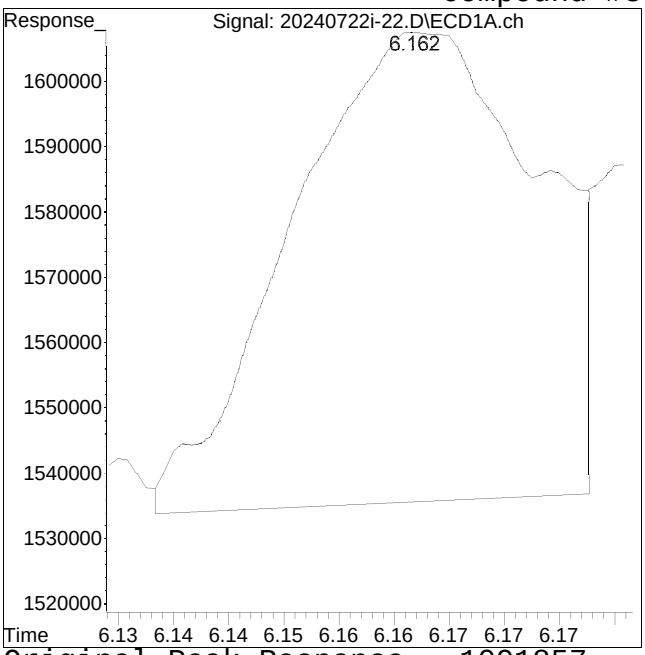
M4 = Poor automated baseline construction.

Manual Integration Report

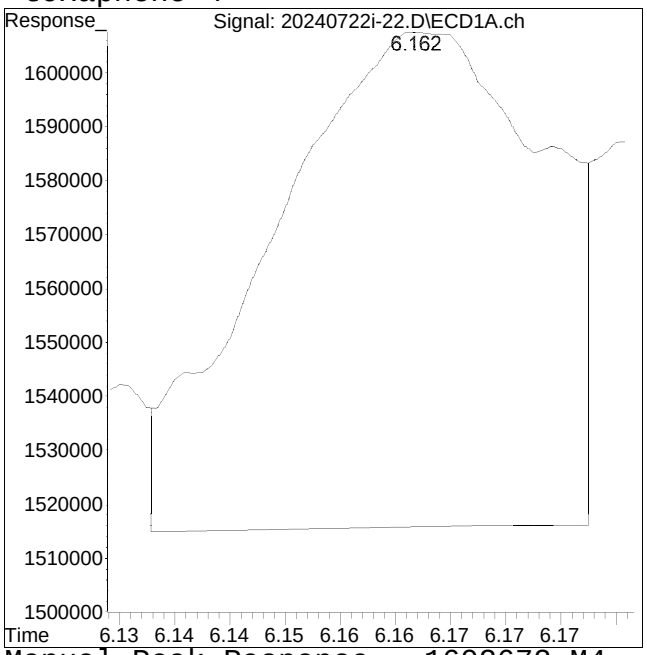
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-22.D
Date Inj'd : 7/22/2024 22:05
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:31 pm

Compound #36: toxaphene-4



Original Peak Response = 1091857



Manual Peak Response = 1602672 M4

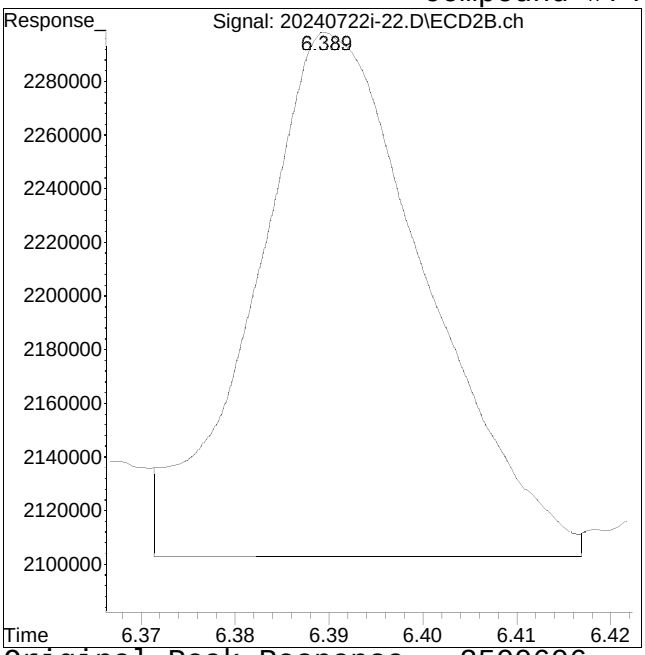
M4 = Poor automated baseline construction.

Manual Integration Report

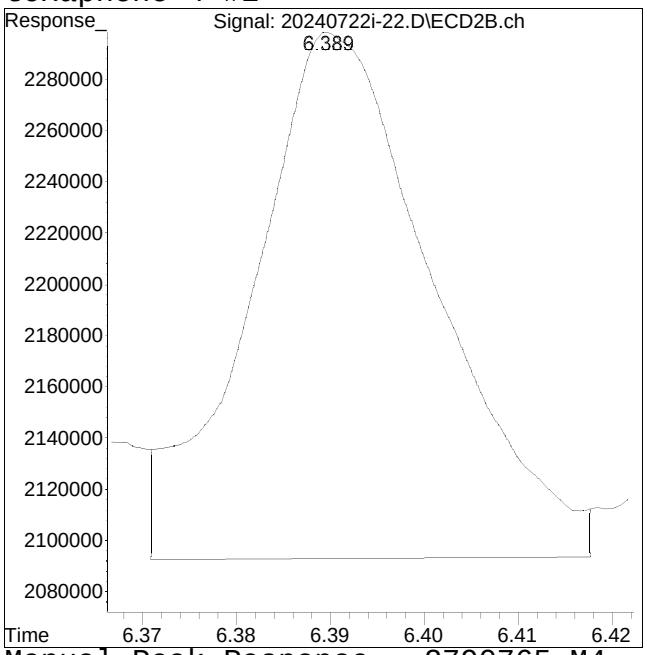
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-22.D
Date Inj'd : 7/22/2024 22:05
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:31 pm

Compound #74: toxaphene-4 #2



Original Peak Response = 2500606



Manual Peak Response = 2790765 M4

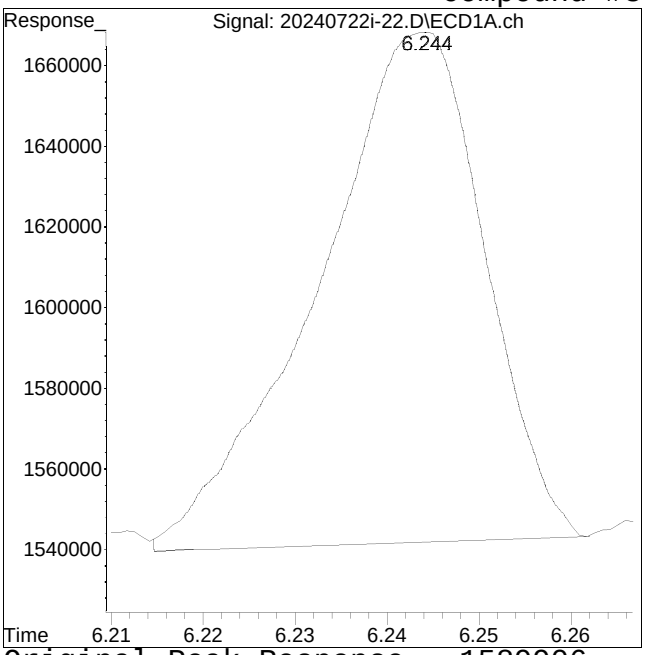
M4 = Poor automated baseline construction.

Manual Integration Report

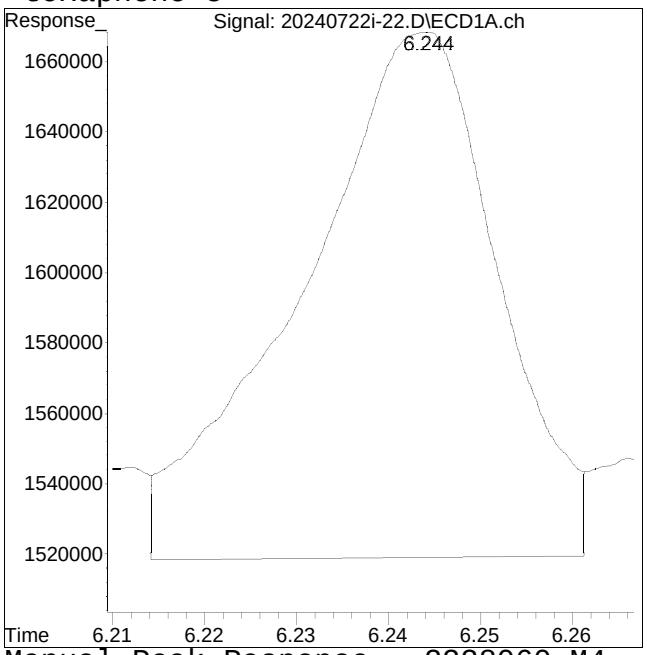
Data Path : I:\PEST\Pest20\2024\240722Q
Data File : 20240722i-22.D
Date Inj'd : 7/22/2024 22:05
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 7/23/2024 2:31 pm

Compound #37: toxaphene-5



Original Peak Response = 1589906



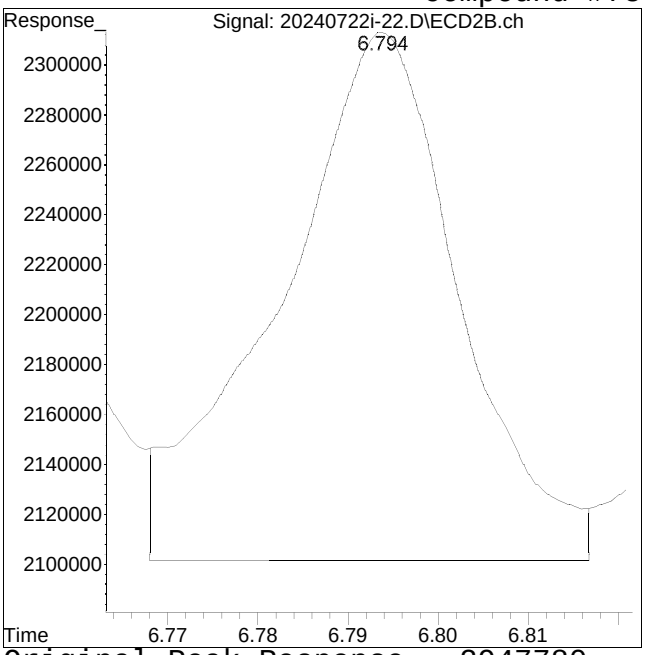
Manual Peak Response = 2228060 M4

M4 = Poor automated baseline construction.

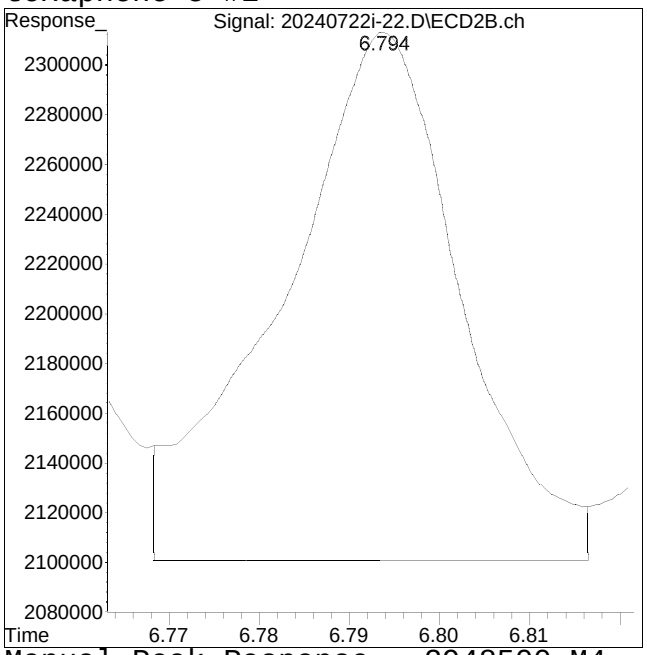
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-22.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:05 Instrument : PEST 20
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 7/23/2024 2:31 pm

Compound #75: toxaphene-5 #2



Original Peak Response = 2947780



Manual Peak Response = 2948500 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:18
Operator : pest20:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:29:13 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:29:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	2.009	2.064	51810590	81156173	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:18
Operator : pest20:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:29:13 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:29:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.556	6.057	10211438	8450116	119.030M4	120.793
35) l2	toxaphene-2	6.065	6.087	9022017	12273629	107.103M3	118.141
36) l2	toxaphene-4	6.163	6.391	6461388	13952728	118.399M4	116.217
37) l2	toxaphene-5	6.244	6.794	9890411	13600372	118.746M4	119.290
Sum	toxaphene-1			35585254	48276844	463.279	474.442
Average	toxaphene-1					115.820	118.610

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			35585254	48276844	463.279	474.442
Average	toxaphene-1					115.820	118.610

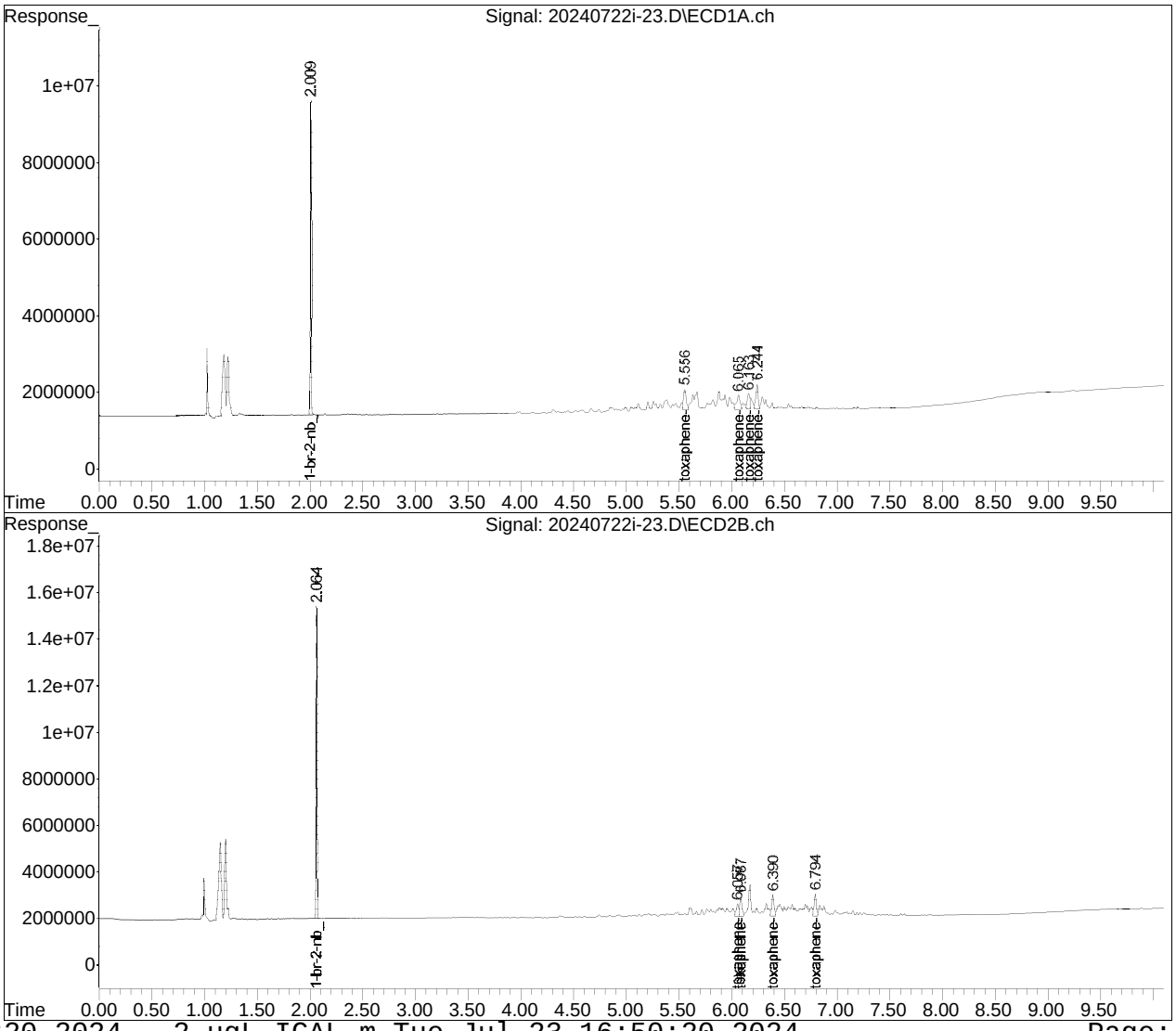
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:18
Operator : pest20:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:29:13 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:29:03 2024
Response via : Initial Calibration
Integrator: ChemStation

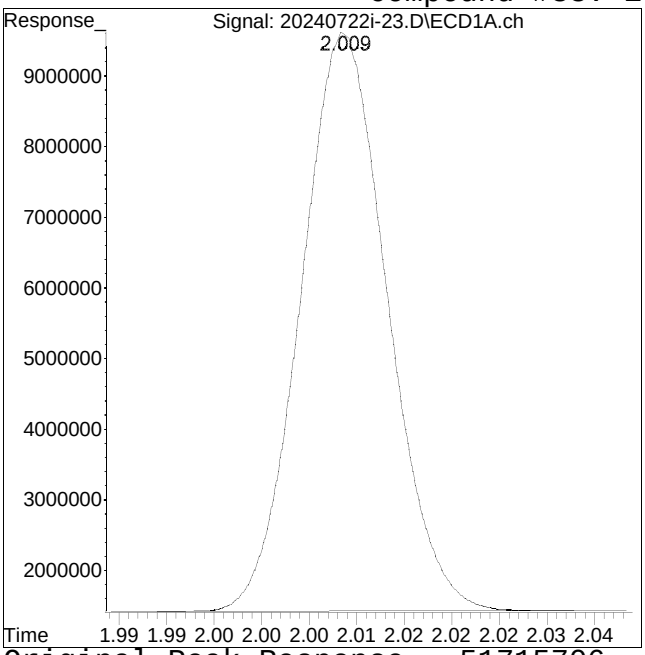
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



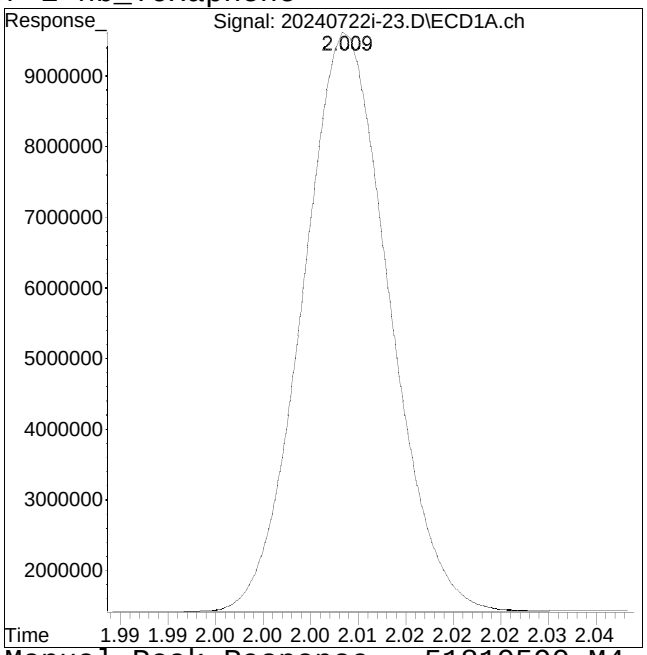
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-23.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:18 Instrument : PEST 20
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 7/23/2024 2:29 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 51715706



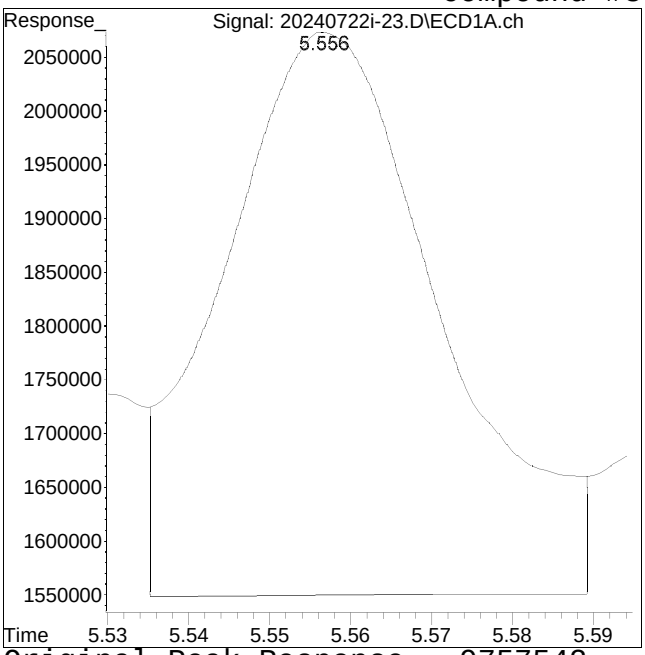
Manual Peak Response = 51810590 M4

M4 = Poor automated baseline construction.

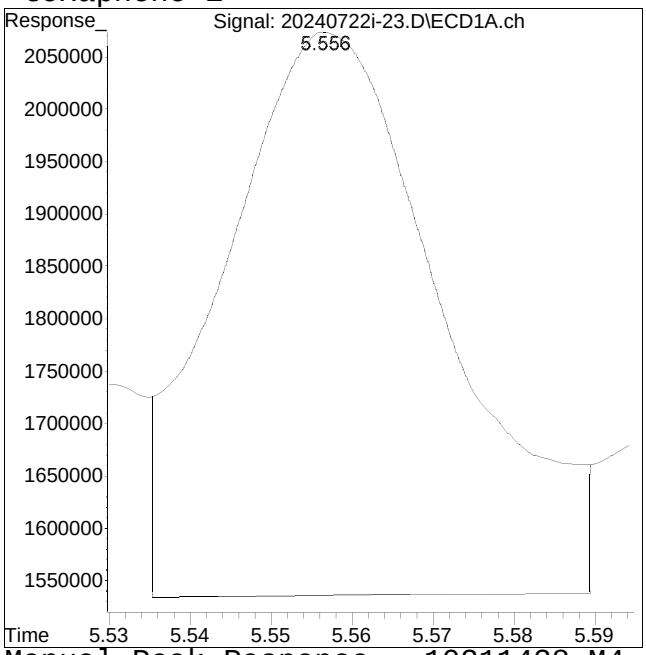
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-23.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:18 Instrument : PEST 20
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 7/23/2024 2:29 pm

Compound #34: toxaphene-1



Original Peak Response = 9757542



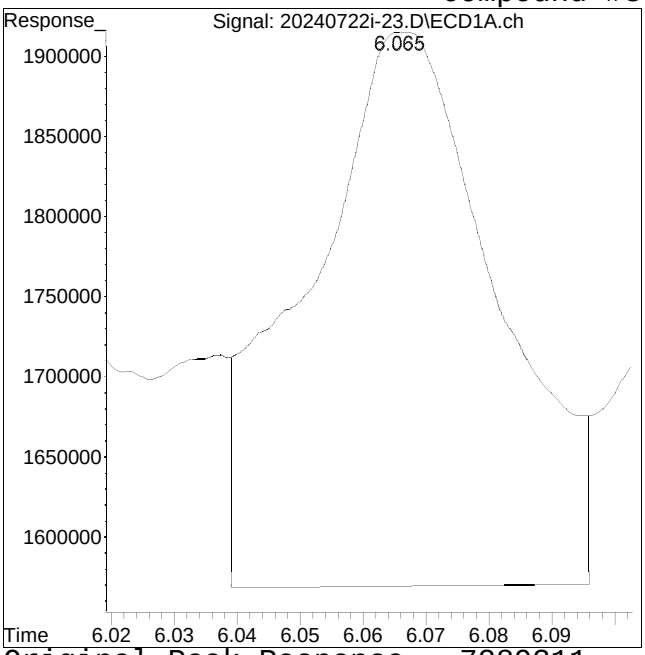
Manual Peak Response = 10211438 M4

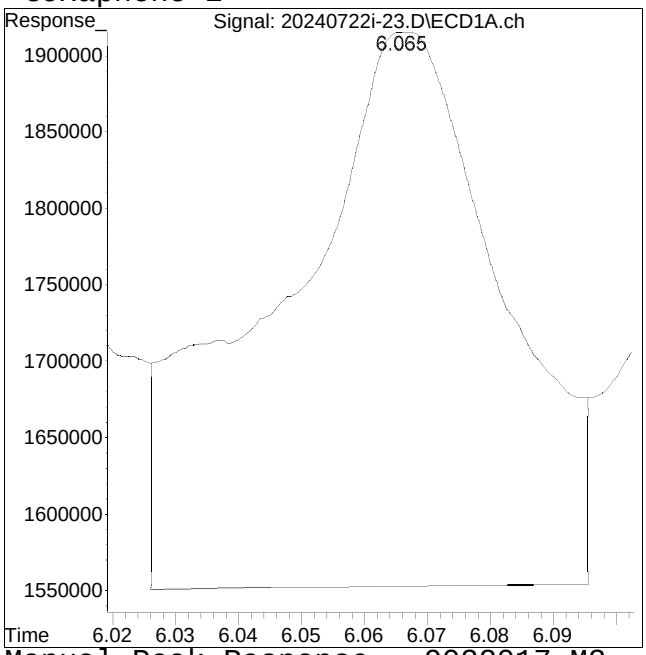
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-23.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:18 Instrument : PEST 20
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 7/23/2024 2:29 pm

Compound #35: toxaphene-2



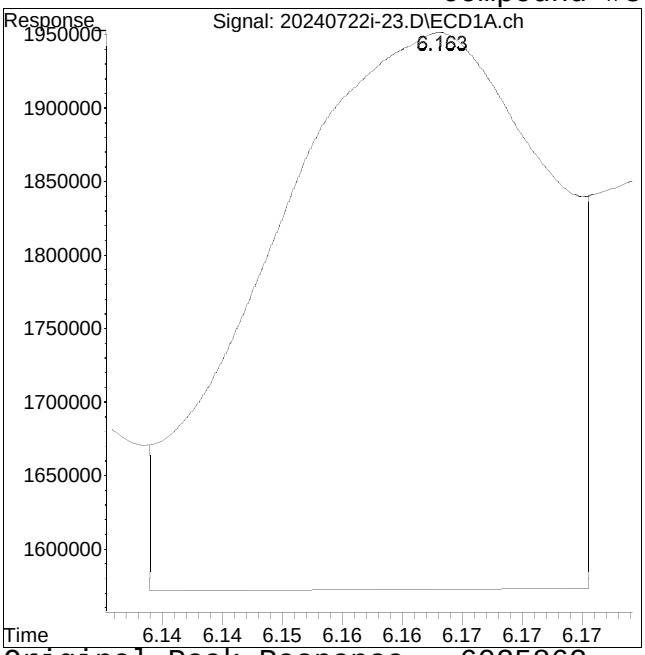


Original Peak Response = 7289311 Manual Peak Response = 9022017 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

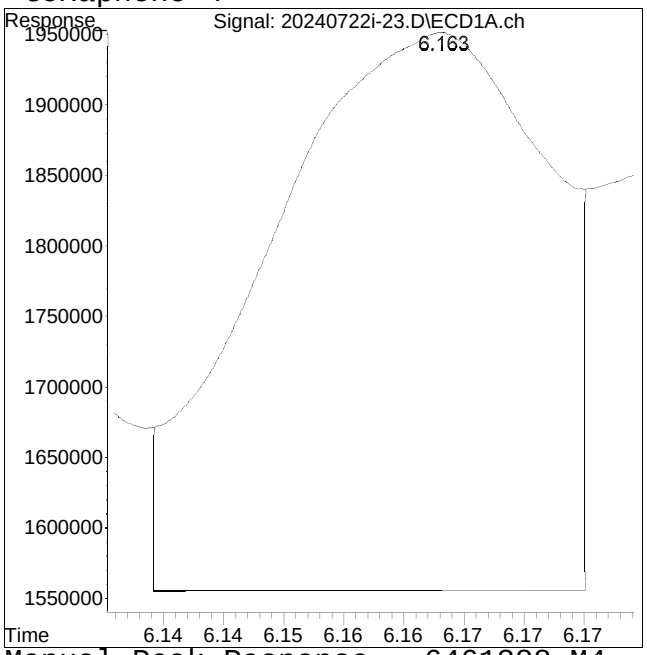
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-23.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:18 Instrument : PEST 20
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 7/23/2024 2:29 pm

Compound #36: toxaphene-4



Original Peak Response = 6025862



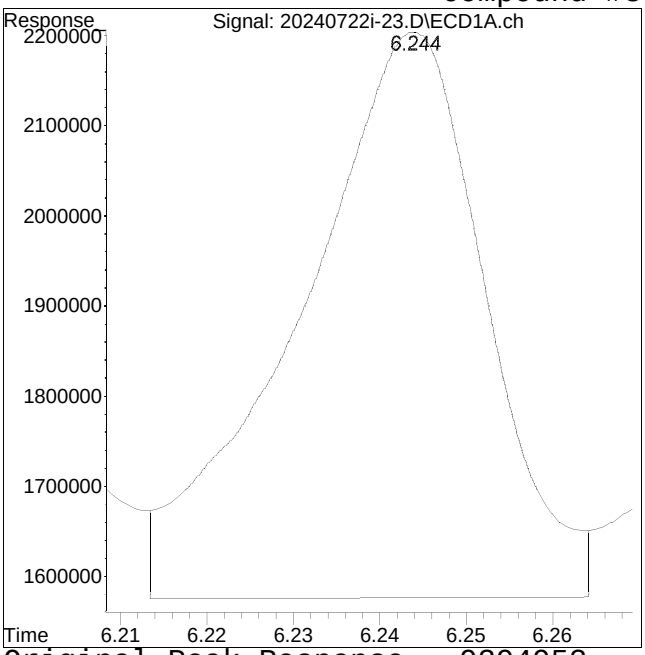
Manual Peak Response = 6461388 M4

M4 = Poor automated baseline construction.

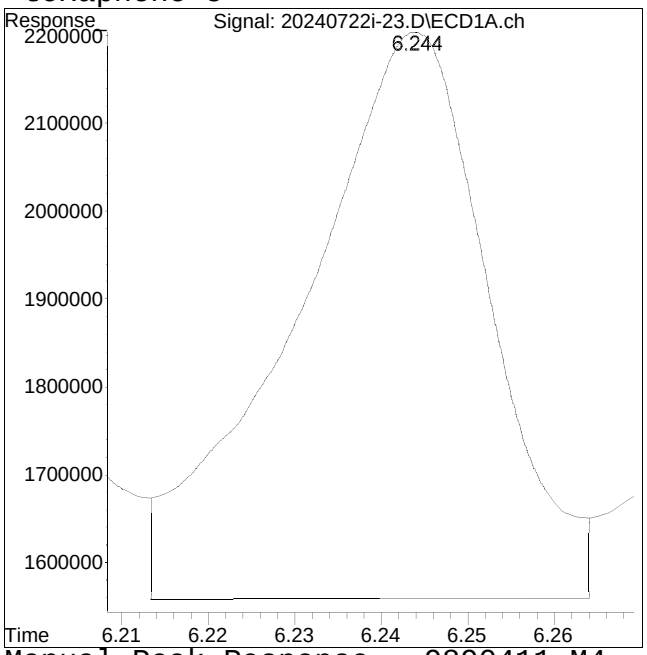
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-23.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:18 Instrument : PEST 20
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 7/23/2024 2:29 pm

Compound #37: toxaphene-5



Original Peak Response = 9394953



Manual Peak Response = 9890411 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:30
Operator : pest20:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:28:23 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	2.009	2.064	53328589	82924599	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:30
Operator : pest20:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:28:23 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.558	6.058	96639621	73444227	1148.651	1041.805
35) l2	toxaphene-2	6.067	6.087	92883487	109.8E6	1110.846	1052.147
36) l2	toxaphene-4	6.162	6.391	60400151	125.8E6	1117.328	1039.152
37) l2	toxaphene-5	6.244	6.795	91901899	119.8E6	1112.005	1043.284
Sum	toxaphene-1			341.8E6	428.9E6	4488.829	4176.388
Average	toxaphene-1					1122.207	1044.097

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			341.8E6	428.9E6	4488.829	4176.388
Average	toxaphene-1					1122.207	1044.097

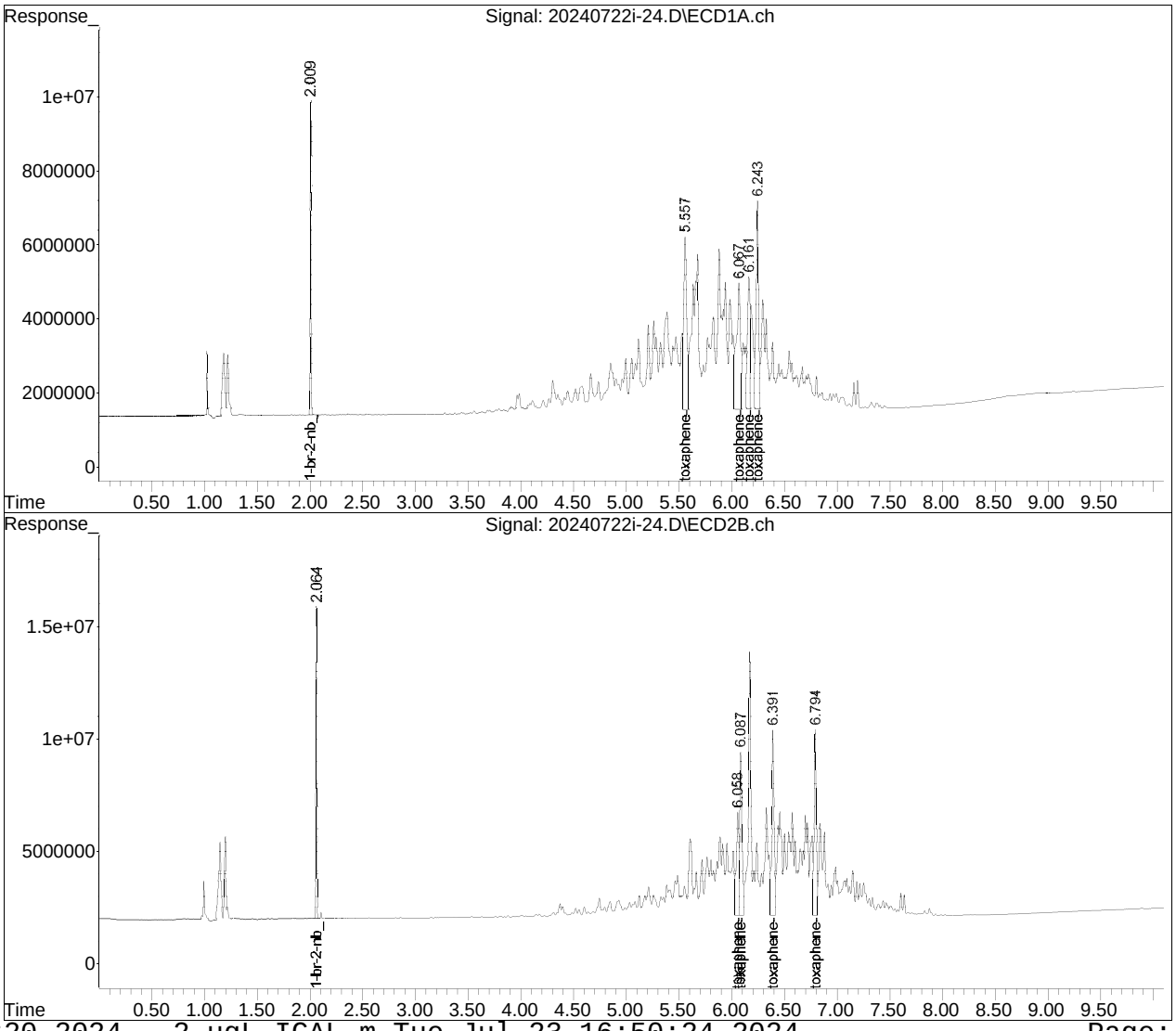
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:30
Operator : pest20:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:28:23 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

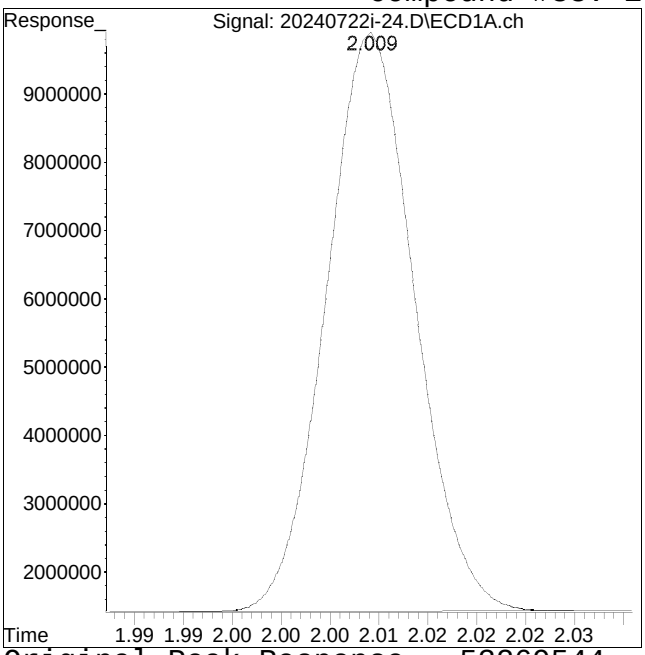
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



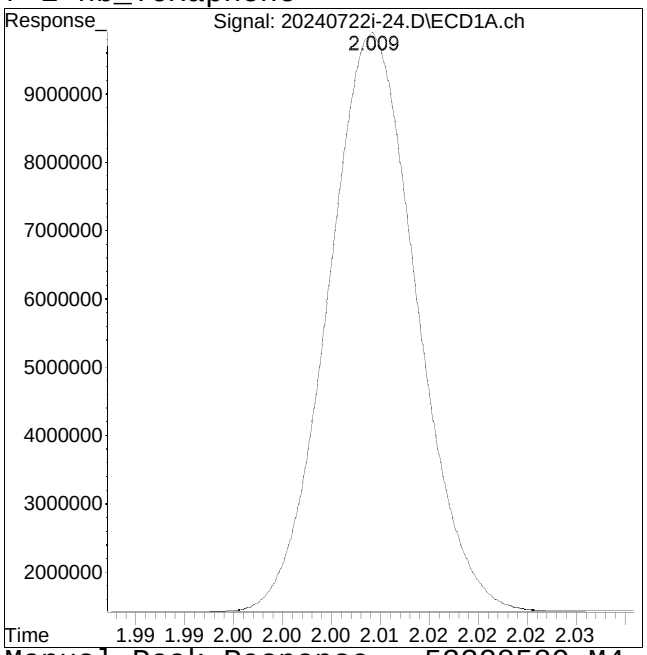
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-24.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:30 Instrument : PEST 20
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 7/23/2024 2:28 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 53269544



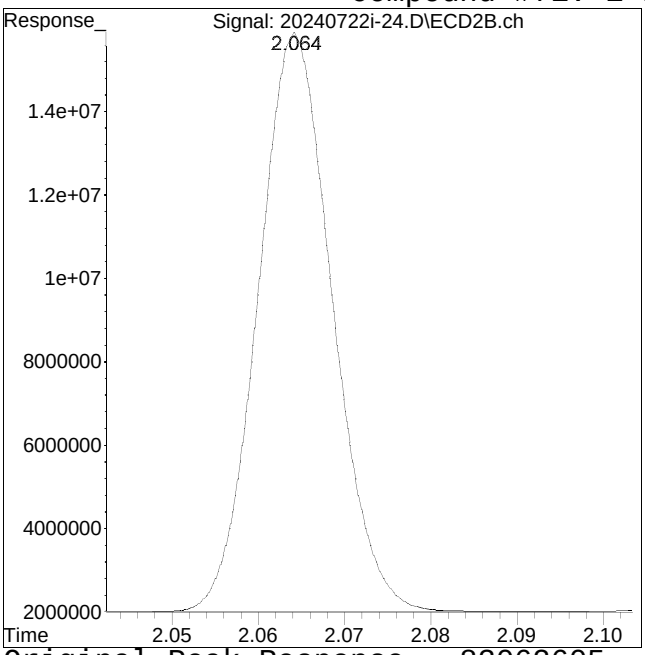
Manual Peak Response = 53328589 M4

M4 = Poor automated baseline construction.

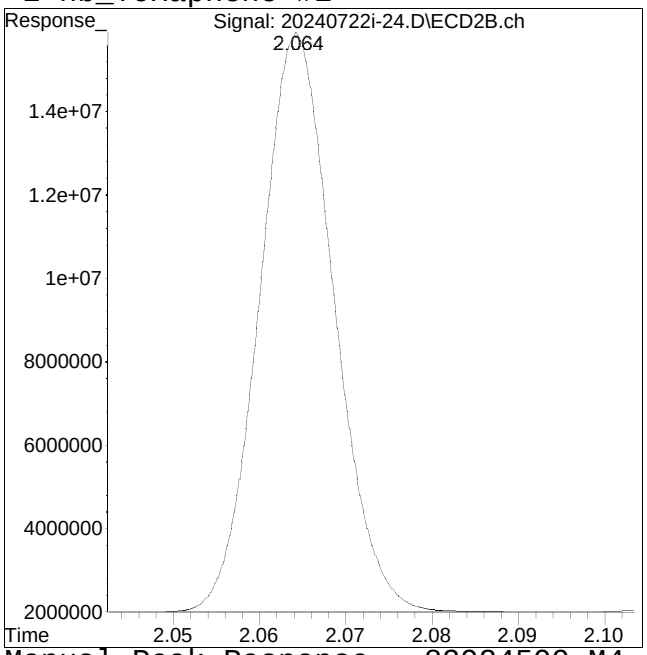
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-24.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:30 Instrument : PEST 20
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 7/23/2024 2:28 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 83062605



Manual Peak Response = 82924599 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:42
Operator : pest20:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:26:56 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:26:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	2.009	2.065	54460607	83405814	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:42
Operator : pest20:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:26:56 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:26:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.558	6.058	183.8E6	145.6E6	NoCal	NoCal
35) l2	toxaphene-2	6.068	6.087	180.2E6	213.4E6	NoCal	NoCal
36) l2	toxaphene-4	6.163	6.391	116.4E6	247.7E6	NoCal	NoCal
37) l2	toxaphene-5	6.244	6.794	176.6E6	233.8E6	NoCal	NoCal
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

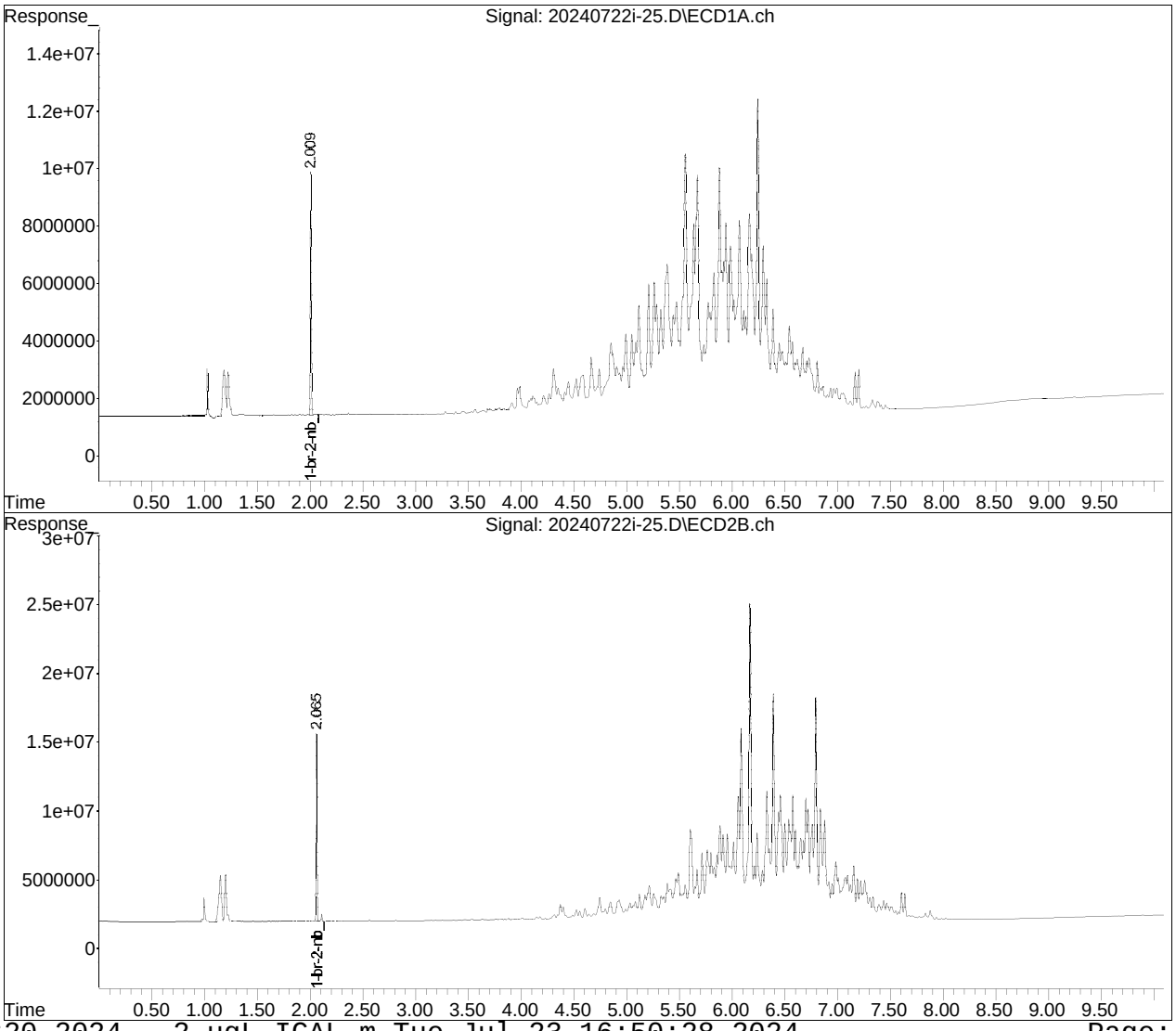
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:42
Operator : pest20:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:26:56 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:26:48 2024
Response via : Initial Calibration
Integrator: ChemStation

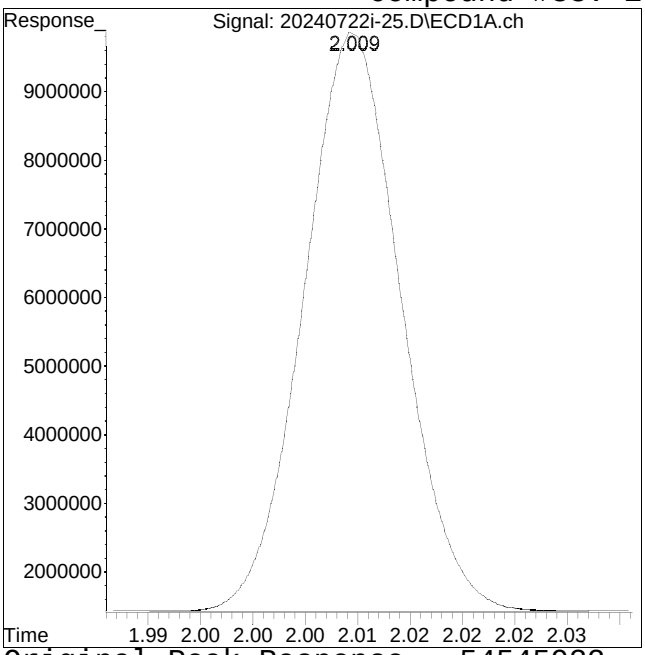
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



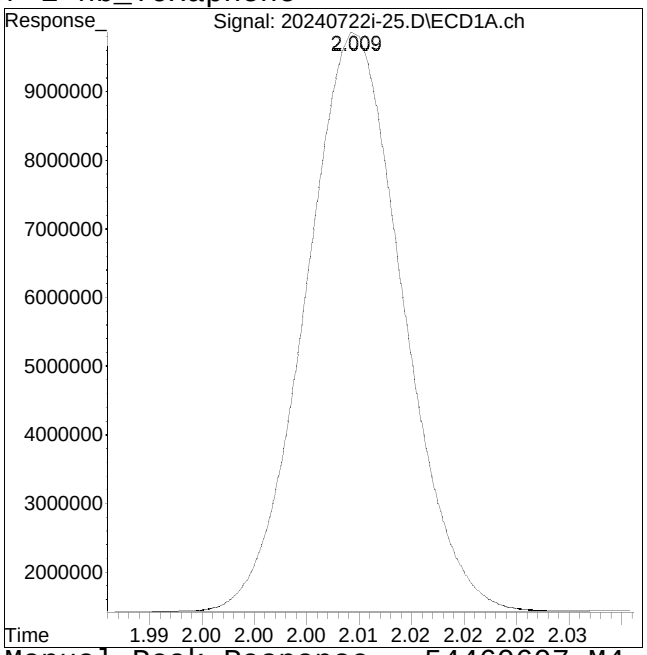
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-25.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:42 Instrument : PEST 20
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 7/23/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 54545932



Manual Peak Response = 54460607 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:55
Operator : pest20:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:27:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:27:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	2.011	2.066	56883381	83929231	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:55
Operator : pest20:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:27:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:27:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.558	6.058	417.4E6	347.1E6	4348.186	4736.796
35) l2	toxaphene-2	6.069	6.087	421.3E6	519.2E6	4475.735	4834.833
36) l2	toxaphene-4	6.163	6.391	272.6E6	602.5E6	4483.989	4834.037
37) l2	toxaphene-5	6.245	6.795	420.3E6	574.2E6	4556.462	4881.238
Sum	toxaphene-1			1531.6E6	2042.9E6	17864.372	19286.904
Average	toxaphene-1					4466.093	4821.726

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1531.6E6	2042.9E6	17864.372	19286.904
Average	toxaphene-1					4466.093	4821.726

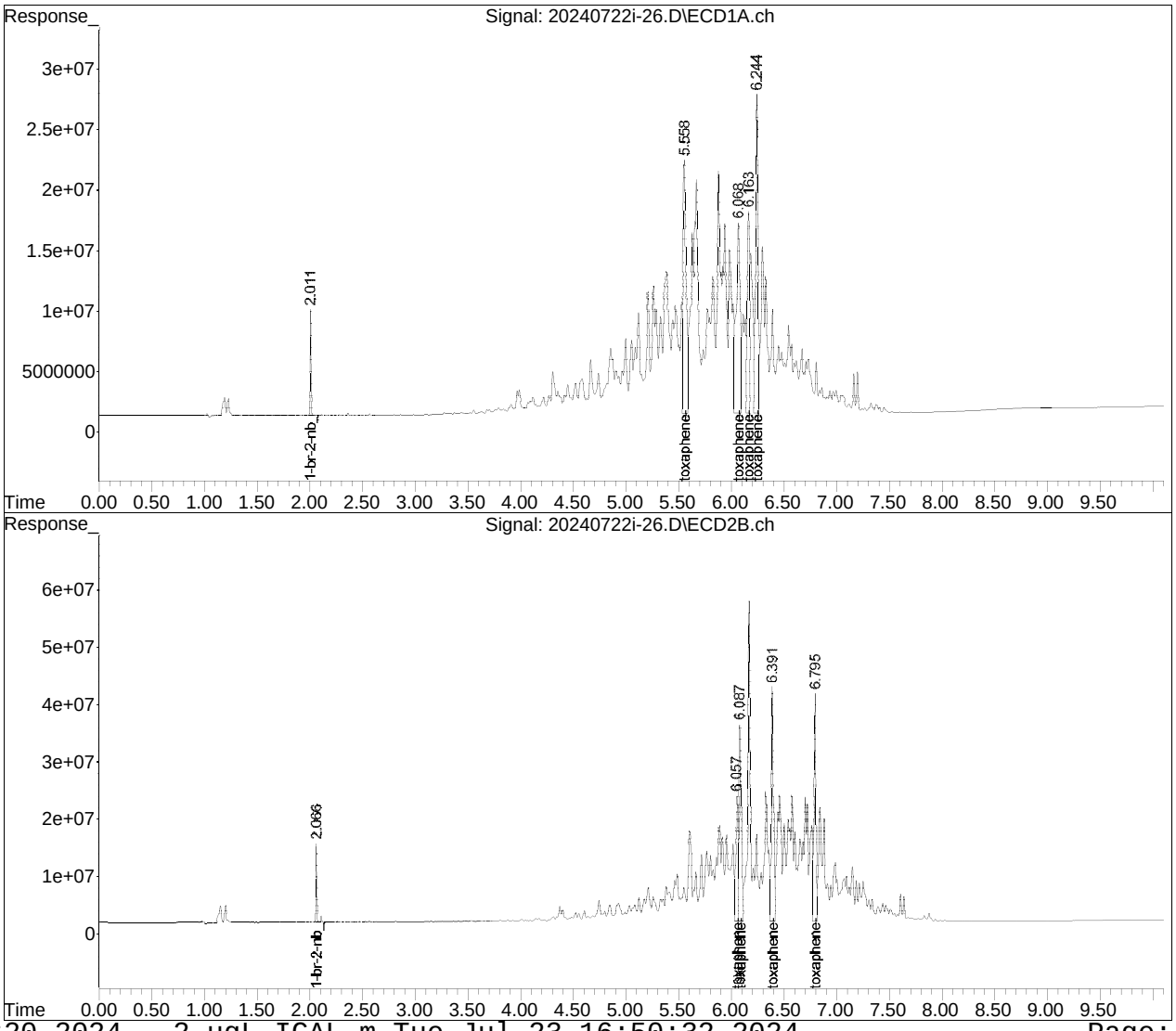
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 22:55
Operator : pest20:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:27:41 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:27:33 2024
Response via : Initial Calibration
Integrator: ChemStation

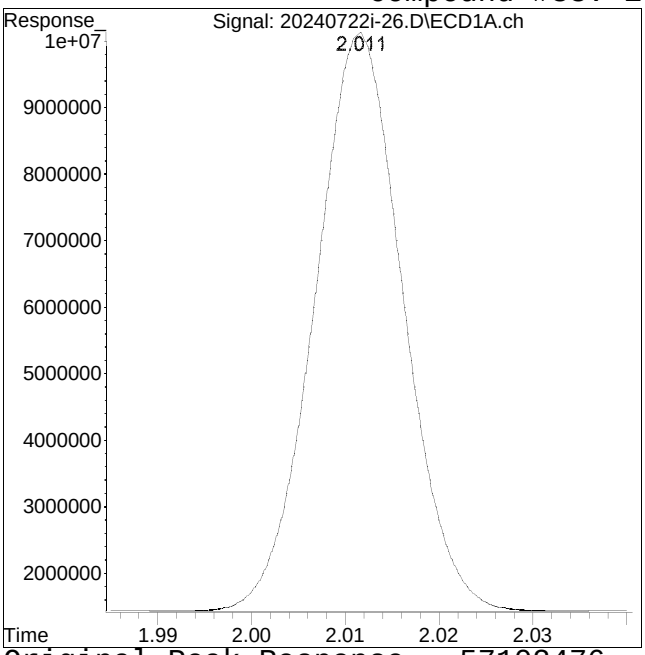
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



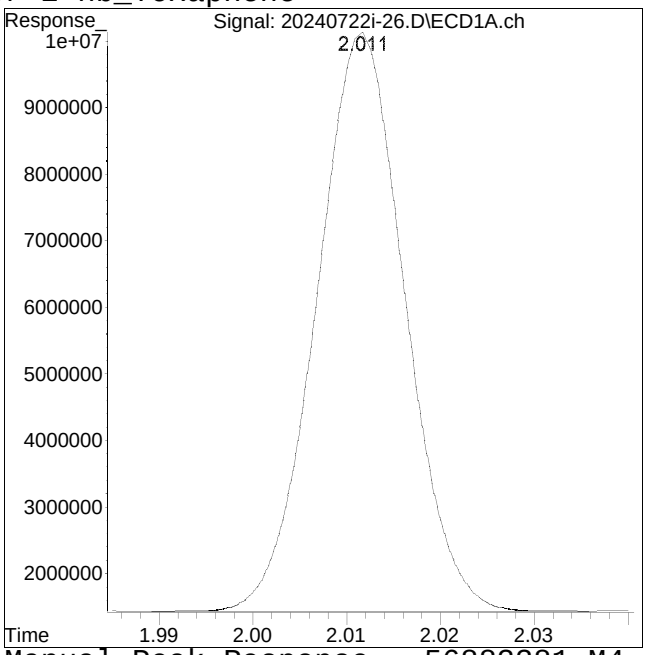
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-26.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:55 Instrument : PEST 20
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 7/23/2024 2:27 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 57102476



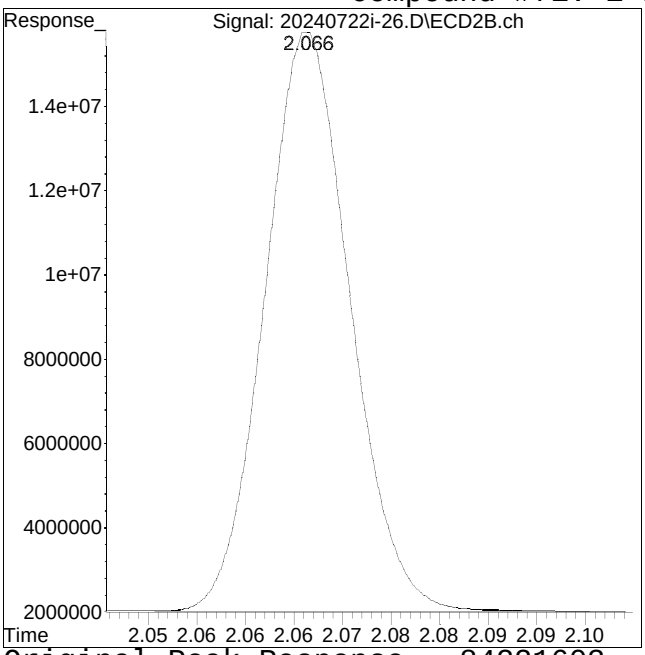
Manual Peak Response = 56883381 M4

M4 = Poor automated baseline construction.

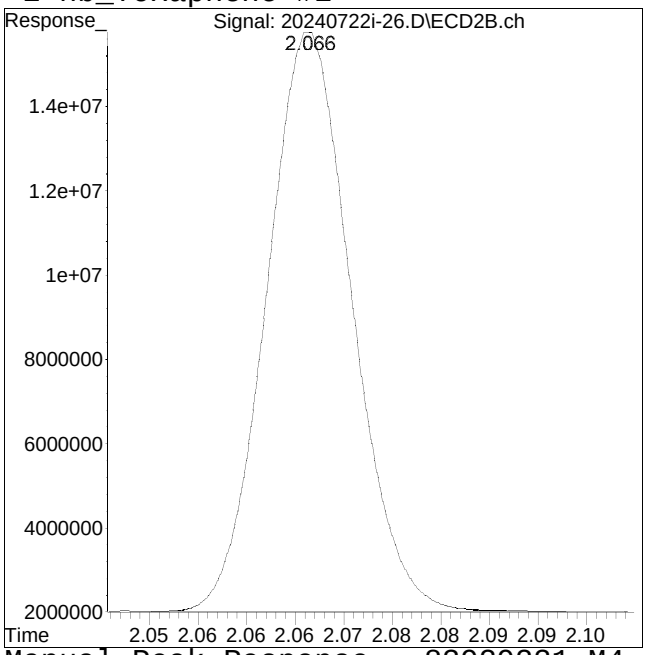
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240722QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240722i-26.D Operator : pest20:ejl
Date Inj'd : 7/22/2024 22:55 Instrument : PEST 20
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 7/23/2024 2:27 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 84221603



Manual Peak Response = 83929231 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 23:07
Operator : pest20:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:35:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:34:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-1		*2000.000	1910.430	4.5	89	0.00
35	l2	toxaphene-2		*2000.000	2020.455	-1.0	96	0.00
36	l2	toxaphene-4		*2000.000	1769.029	11.5	84	0.00
37	l2	toxaphene-5		*2000.000	1906.387	4.7	92	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	100	0.00
34	l2	toxaphene-1		*2000.000	2006.136	-0.3	97	0.00
35	l2	toxaphene-2		*2000.000	1913.492	4.3	93	0.00
36	l2	toxaphene-4		*2000.000	1782.047	10.9	87	0.00
37	l2	toxaphene-5		*2000.000	1904.999	4.8	94	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-2.01#
2	s	2,4,5,6-Tetrachloro-m-xylen	*	50.000	0.000	100.0#	0	-2.47#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.74#
4		alpha-BHC		1.586	0.000	100.0#	0#	-2.86#
5		gamma-BHC (lindane)		1.529	0.000	100.0#	0#	-3.11#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.17#
7		delta-BHC		1.478	0.000	100.0#	0#	-3.32#
8		Heptachlor		1.494	0.000	100.0#	0#	-3.51#
9		Aldrin		1.394	0.000	100.0#	0#	-3.79#
10		Alachlor	*	50.000	0.000	100.0#	0	-3.93#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.03#
12		Heptachlor Epoxide		1.349	0.000	100.0#	0#	-4.41#
13		gamma-Chlordane (trans)	*	50.000	0.000	100.0#	0	-4.54#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 23:07
Operator : pest20:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:35:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:34:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.69#
15		4,4'-DDE		1.333	0.000	100.0#	0#	-4.79#
16		Endosulfan I		1.261	0.000	100.0#	0#	-4.84#
17		Dieldrin		1.315	0.000	100.0#	0#	-5.11#
18		Endrin		1.292	0.000	100.0#	0#	-5.34#
19		4,4'-DDD		1.086	0.000	100.0#	0#	-5.43#
20		Endosulfan II		1.175	0.000	100.0#	0#	-5.57#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.70#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.96#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.15#
24		Mirex	*	50.000	0.000	100.0#	0	-6.23#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-6.33#
26		Endrin Ketone		1.275	0.000	100.0#	0#	-6.56#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.33#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-2.01#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.44#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.92#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.54#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.68#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-2.06#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.223	0.000	100.0#	0#	-2.66#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-3.04#
4		alpha-BHC		1.533	0.000	100.0#	0#	-3.15#
5		gamma-BHC (lindane)		1.477	0.000	100.0#	0#	-3.48#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.55#
7		delta-BHC		1.443	0.000	100.0#	0#	-3.85#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Jul 2024 23:07
Operator : pest20:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:35:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:34:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.403	0.000	100.0#	0#	-3.92#
9		Aldrin		1.268	0.000	100.0#	0#	-4.27#
10		Alachlor	*	50.000	0.000	100.0#	0	-4.14#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.52#
12		Heptachlor Epoxide		1.268	0.000	100.0#	0#	-4.93#
13		gamma-Chlordane (trans)		1.090	0.000	100.0#	0#	-5.14#
14		alpha-Chlordane (cis)		1.237	0.000	100.0#	0#	-5.30#
15		4,4'-DDE		1.193	0.000	100.0#	0#	-5.47#
16		Endosulfan I		1.153	0.000	100.0#	0#	-5.35#
17		Dieldrin		1.161	0.000	100.0#	0#	-5.63#
18		Endrin		1.185	0.000	100.0#	0#	-5.91#
19		4,4'-DDD		0.979	0.000	100.0#	0#	-6.02#
20		Endosulfan II		1.098	0.000	100.0#	0#	-6.10#
21		4,4'-DDT		1.110	0.000	100.0#	0#	-6.29#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.38#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.83#
24		Mirex	*	50.000	0.000	100.0#	0	-6.99#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-6.61#
26		Endrin Ketone		1.192	0.000	100.0#	0#	-7.02#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.90#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-2.06#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.77#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-4.43#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-5.14#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-5.30#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 23:07
Operator : pest20:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:35:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:34:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	2.009	2.064	54779274	82658598	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 23:07
Operator : pest20:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:35:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:34:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.557	6.057	164.3E6	140.6E6	1910.430	2006.136
35) l2	toxaphene-2	6.067	6.087	172.5E6	199.5E6	2020.455	1913.492
36) l2	toxaphene-4	6.163	6.391	98003799	215.3E6	1769.029	1782.047
37) l2	toxaphene-5	6.244	6.795	161.7E6	218.8E6	1906.387	1904.999
Sum	toxaphene-1			596.5E6	774.2E6	7606.302	7606.674
Average	toxaphene-1					1901.576	1901.668

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			596.5E6	774.2E6	7606.302	7606.674
Average	toxaphene-1					1901.576	1901.668

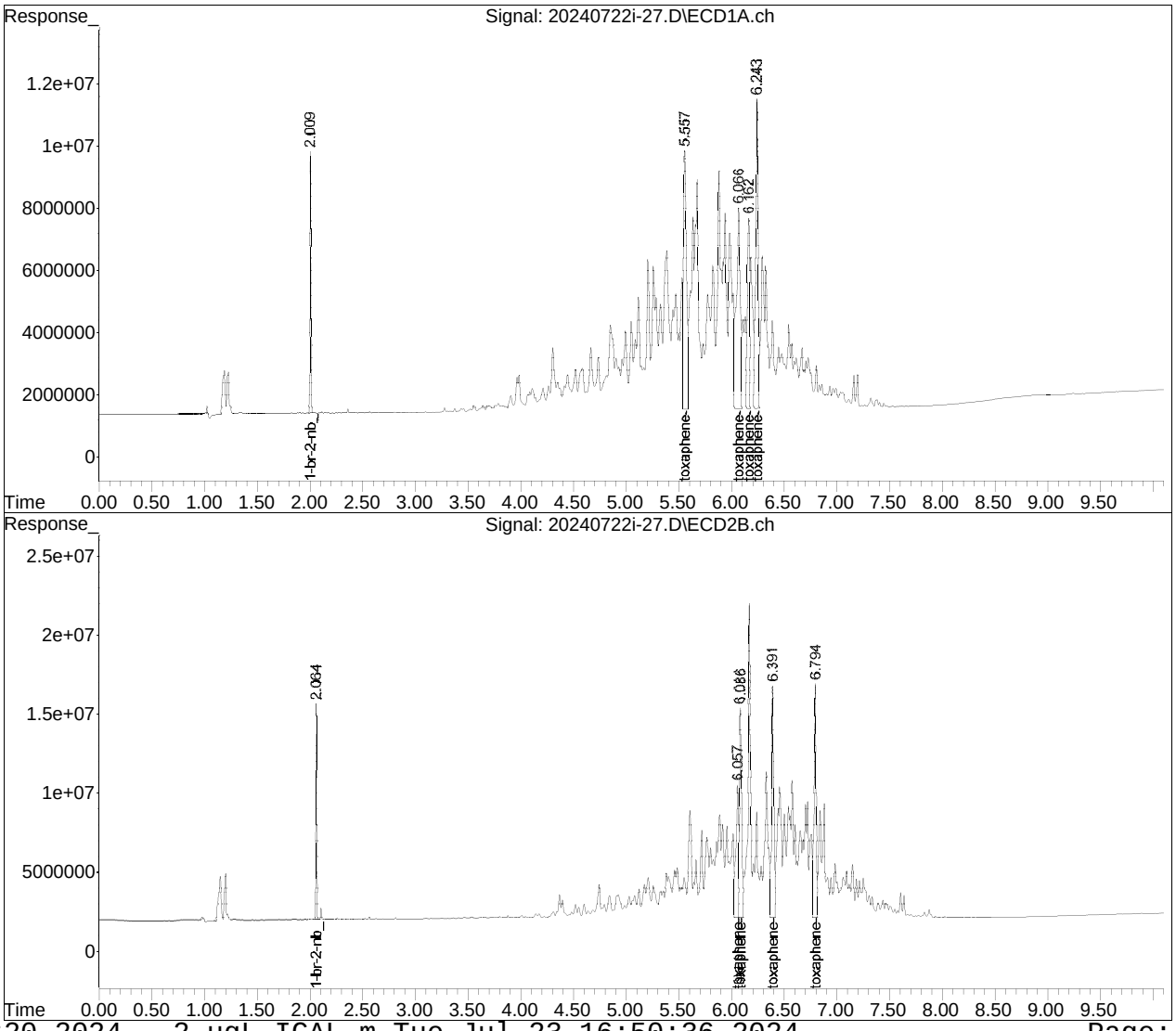
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240722ical\
Data File : 20240722i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2024 23:07
Operator : pest20:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1950439, (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 23 14:35:01 2024
Quant Method : I:\PEST\Pest20\2024\240722ical\pest20_2024_07_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jul 23 14:34:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest20\2024\240722Q	Method	: pest20_2024_07_22_ugL_IC
Data File	: 20240722i-27.D	Operator	: pest20:ejl
Date Inj'd	: 7/22/2024 23:07	Instrument	: PEST 20
Sample	: cicvtox,42e,,pp 11668 L2.0	Quant Date	: 7/23/2024 2:35 pm

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

Evaluate Relative Error Report PEST 20

Method Path : I:\PEST\Pest20\2024\240722ical\
Method File : pest20_2024_07_22_ugL_ICAL.m
Title : pest
Last Update : Tue Jul 23 14:34:40 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
2	S 2,4,5,6-Tetrachloro-m-xylen	L	ug/l	50.0	52.208	4.4	1.00	0.721	-27.9
3	Hexachlorobenzene	L	ug/l	50.0	52.539	5.1	2.00	1.654	-17.3
6	beta-BHC	L	ug/l	50.0	52.345	4.7	2.00	1.615	-19.3
10	Alachlor	L	ug/l	50.0	54.664	9.3	2.00	1.418	-29.1
11	Chlorpyrifos	L	ug/l	50.0	53.443	6.9	2.00	1.431	-28.4
13	gamma-Chlordane (trans)	L	ug/l	50.0	50.271	0.5	2.00	1.721	-13.9
14	alpha-Chlordane (cis)	L	ug/l	50.0	50.997	2.0	1.00	0.739	-26.1
21	4,4'-DDT	L	ug/l	50.0	51.284	2.6	1.00	0.767	-23.3
22	Endrin Aldehyde	L	ug/l	50.0	51.646	3.3	1.00	0.732	-26.8
23	Methoxychlor	L	ug/l	50.0	54.654	9.3	2.00	1.447	-27.6
24	Mirex	L	ug/l	50.0	53.648	7.3	2.00	1.510	-24.5
25	Endosulfan Sulfate	L	ug/l	50.0	50.589	1.2	1.00	0.699	-30.1
27	S Decachlorobiphenyl	L	ug/l	50.0	51.892	3.8	2.00	1.686	-15.7
29	L1 chlordane-1	L	ug/l	1000.0	1000.007	0.0	10.00	7.493	-25.1
30	L1 chlordane-3	L	ug/l	1000.0	1003.848	0.4	10.00	6.651	-33.5
31	L1 chlordane-4	L	ug/l	1000.0	1005.401	0.5	10.00	9.278	-7.2
32	L1 chlordane-5	L	ug/l	1000.0	1009.499	0.9	10.00	8.607	-13.9
34	L2 toxaphene-1	L	ug/l	2000.0	2151.224	7.6	20.00	13.239	-33.8
35	L2 toxaphene-2	L	ug/l	2000.0	2123.474	6.2	20.00	16.585	-17.1
36	L2 toxaphene-4	L	ug/l	2000.0	2116.598	5.8	20.00	15.587	-22.1
37	L2 toxaphene-5	L	ug/l	2000.0	2095.486	4.8	20.00	15.363	-23.2
41	Hexachlorobenzene #2	L	ug/l	50.0	51.420	2.8	2.00	1.772	-11.4
44	beta-BHC #2	L	ug/l	50.0	51.199	2.4	2.00	1.780	-11.0
48	Alachlor #2	L	ug/l	50.0	53.616	7.2	2.00	1.531	-23.5
49	Chlorpyrifos #2	L	ug/l	50.0	52.619	5.2	2.00	1.559	-22.1
60	Endrin Aldehyde #2	L	ug/l	50.0	50.335	0.7	1.00	0.903	-9.7
61	Methoxychlor #2	L	ug/l	50.0	53.350	6.7	2.00	1.631	-18.4
62	Mirex #2	L	ug/l	50.0	52.756	5.5	2.00	1.586	-20.7
63	Endosulfan Sulfate #2	L	ug/l	50.0	49.881	-0.2	1.00	0.833	-16.7
65	S Decachlorobiphenyl #2	L	ug/l	50.0	51.406	2.8	2.00	1.737	-13.1
67	L1 chlordane-1 #2	L	ug/l	1000.0	1031.959	3.2	10.00	6.920	-30.8
68	L1 chlordane-3 #2	L	ug/l	1000.0	1044.056	4.4	10.00	5.572	-44.3
69	L1 chlordane-4 #2	L	ug/l	1000.0	1040.549	4.1	10.00	8.235	-17.7
70	L1 chlordane-5 #2	L	ug/l	1000.0	1041.436	4.1	10.00	8.000	-20.0
72	L2 toxaphene-1 #2	L	ug/l	2000.0	2059.579	3.0	20.00	15.452	-22.7
73	L2 toxaphene-2 #2	L	ug/l	2000.0	2029.025	1.5	20.00	16.303	-18.5
74	L2 toxaphene-4 #2	L	ug/l	2000.0	2032.982	1.6	20.00	16.905	-15.5
75	L2 toxaphene-5 #2	L	ug/l	2000.0	2017.744	0.9	20.00	16.897	-15.5

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
2	S 2,4,5,6-Tetrachloro-m-xylen	Linear	0.998878	0.000000	1.07815	0.0346799
3	Hexachlorobenzene	Linear	0.999002	0.000000	1.10624	0.0633567
6	beta-BHC	Linear	0.999081	0.000000	0.604484	0.0362348
10	Alachlor	Linear	0.995489	0.000000	0.188324	0.011531
11	Chlorpyrifos	Linear	0.996776	0.000000	0.563077	0.0458591
13	gamma-Chlordane (trans)	Linear	0.999733	0.000000	1.05525	0.0470874
14	alpha-Chlordane (cis)	Linear	0.999594	0.000000	1.18633	0.0331924
21	4,4'-DDT	Linear	0.999439	0.000000	1.04538	0.0252257
22	Endrin Aldehyde	Linear	0.999136	0.000000	0.860717	0.019689
23	Methoxychlor	Linear	0.997028	0.000000	0.54871	0.040152
24	Mirex	Linear	0.998159	0.000000	0.846835	0.0641476
25	Endosulfan Sulfate	Linear	0.999117	0.000000	0.961816	0.0328339
27	S Decachlorobiphenyl	Linear	0.998626	0.000000	1.04644	0.0624231
29	L1 chlordane-1	Linear	0.998388	0.000000	0.0392486	0.0109399
30	L1 chlordane-3	Linear	0.996450	0.000000	0.0475205	0.0172865
31	L1 chlordane-4	Linear	0.999690	0.000000	0.162364	0.0577897

32	L1 chlordane-5	Linear	0.999412	0.000000	0.25146	0.0567687
34	L2 toxaphene-1	Linear	0.992398	0.000000	0.0390668	0.0136212
35	L2 toxaphene-2	Linear	0.995779	0.000000	0.0388176	0.0122192
36	L2 toxaphene-4	Linear	0.995749	0.000000	0.0250729	0.0148817
37	L2 toxaphene-5	Linear	0.996449	0.000000	0.0384701	0.0187809
41	Hexachlorobenzene #2	Linear	0.999585	0.000000	1.09885	0.0452509
44	beta-BHC #2	Linear	0.999696	0.000000	0.615064	0.0259462
48	Alachlor #2	Linear	0.996997	0.000000	0.164106	0.0102653
49	Chlorpyrifos #2	Linear	0.998119	0.000000	0.575466	0.0377732
60	Endrin Aldehyde #2	Linear	0.999654	0.000000	0.836579	0.0108613
61	Methoxychlor #2	Linear	0.998104	0.000000	0.522216	0.0315616
62	Mirex #2	Linear	0.998903	0.000000	0.766206	0.0498281
63	Endosulfan Sulfate #2	Linear	0.999787	0.000000	0.955236	0.0206112
65	S Decachlorobiphenyl #2	Linear	0.999051	0.000000	0.871139	0.041628
67	L1 chlordane-1 #2	Linear	0.996286	0.000000	0.0337844	0.0107145
68	L1 chlordane-3 #2	Linear	0.992910	0.000000	0.0396747	0.0166348
69	L1 chlordane-4 #2	Linear	0.997636	0.000000	0.130461	0.0328213
70	L1 chlordane-5 #2	Linear	0.997239	0.000000	0.101993	0.0274149
72	L2 toxaphene-1 #2	Linear	0.998653	0.000000	0.0211424	0.00445037
73	L2 toxaphene-2 #2	Linear	0.999124	0.000000	0.0314307	0.00781184
74	L2 toxaphene-4 #2	Linear	0.999367	0.000000	0.036409	0.00909794
75	L2 toxaphene-5 #2	Linear	0.999454	0.000000	0.0345774	0.0122529

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.070	1.052	1.075	1.017	1.028	1.042	1.068	1.019	0.980	1.039	3.00
3)	t	Hexachloroben...		1.537	1.511	1.518	1.421	1.398	1.344	1.370	1.302	1.253	1.406	7.13
4)	t	alpha-BHC		1.293	1.326	1.375	1.322	1.428	1.579	1.657	1.604	1.561	1.461	9.59
5)	t	gamma-BHC (li...	1.464	1.305	1.312	1.356	1.278	1.355	1.457	1.524	1.473	1.430	1.395	6.06
6)	t	beta-BHC		0.665	0.662	0.666	0.624	0.626	0.607	0.622	0.597	0.580	0.628	4.95
7)	t	delta-BHC		1.249	1.257	1.303	1.246	1.337	1.470	1.546	1.502	1.457	1.374	8.70
8)	t	Heptachlor		1.313	1.322	1.357	1.281	1.318	1.358	1.400	1.323	1.217	1.321	3.91
9)	t	Aldrin		1.175	1.189	1.221	1.154	1.205	1.287	1.348	1.300	1.220	1.233	5.24
10)	t	Alachlor			0.247	0.248	0.233	0.238	0.226	0.221	0.199		0.230	7.42
11)	t	Chlorpyrifos			0.674	0.682	0.634	0.615	0.538	0.520	0.466		0.590	14.01
12)	t	Heptachlor Ep...		1.181	1.208	1.238	1.159	1.186	1.202	1.236	1.175	1.082	1.185	3.96
13)	t	gamma-Chlorda...		1.079	1.070	1.097	1.026	1.044	1.078	1.133	1.110	1.057	1.077	3.07
14)	t	alpha-Chlorda...		1.192	1.207	1.248	1.181	1.200	1.223	1.275	1.242	1.178	1.216	2.74
15)	t	4,4'-DDE		1.107	1.137	1.186	1.119	1.167	1.226	1.298	1.275	1.207	1.192	5.61
16)	t	Endosulfan I		1.109	1.123	1.156	1.085	1.112	1.130	1.172	1.121	1.038	1.116	3.49

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.070	1.103	1.138	1.067	1.113	1.174	1.234	1.196	1.123	1.135	4.98
18)	t	Endrin		1.098	1.132	1.175	1.100	1.144	1.192	1.239	1.188	1.107	1.153	4.25
19)	t	4,4'-DDD		0.857	0.879	0.918	0.859	0.900	0.956	1.015	1.002	0.960	0.927	6.36
20)	t	Endosulfan II		1.034	1.062	1.094	1.026	1.054	1.071	1.111	1.052	0.964	1.052	4.03
21)	t	4,4'-DDT		0.969	1.034	1.071	0.998	1.036	1.083	1.139	1.124	1.071	1.058	5.22
22)	t	Endrin Aldehyde		0.906	0.889	0.917	0.869	0.878	0.877	0.913	0.888	0.841	0.886	2.70
23)	t	Methoxychlor		0.656	0.635	0.675	0.610	0.607	0.565	0.567	0.527	0.485	0.592	10.43
24)	t	Mirex			1.027	1.066	0.980	0.964	0.880	0.899	0.864	0.822	0.938	9.06
25)	t	Endosulfan Su...		1.084	1.035	1.065	0.986	1.001	0.988	1.026	0.981	0.922	1.010	4.83
26)	t	Endrin Ketone		1.166	1.200	1.247	1.167	1.200	1.196	1.227	1.160	1.085	1.183	3.94
27)	s	Decachlorobip...		1.355	1.316	1.321	1.208	1.146	1.036	1.055	1.020	1.010	1.163	12.13
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.038	0.036	0.037	0.037	0.038	0.037	0.036		*L	0.999
3														
30)	l1	chlordane-3			0.049	0.052	0.049	0.046	0.045	0.044	0.040		*L	0.997
4														
31)	l1	chlordane-4			0.164	0.158	0.156	0.160	0.165	0.162	0.151		*L	0.998
6														
32)	l1	chlordane-5			0.243	0.244	0.245	0.250	0.255	0.249	0.230		*L	0.998
2														

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.038	0.046		0.055	0.055	0.056			*L	0.9998
35)	l2	toxaphene-3			0.032	0.035		0.042	0.043	0.044			*L	0.9995
36)	l2	toxaphene-4			0.041	0.040		0.042	0.043	0.045			*L	0.9992
37)	l2	toxaphene-5			0.053	0.041		0.039	0.039	0.040			*L	0.9999

Signal #2 Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...			1.206	1.206	1.141	1.107	1.082	1.085	1.067	1.091	1.038	1.114	5.33
3)	t	Hexachloroben...			1.451	1.390	1.323	1.249	1.197	1.146	1.145	1.144	1.106	1.239	9.92
4)	t	alpha-BHC			1.558	1.563	1.526	1.479	1.547	1.686	1.736	1.764	1.719	1.620	6.53
5)	t	gamma-BHC (li...		1.777	1.551	1.516	1.480	1.413	1.442	1.525	1.563	1.584	1.540	1.539	6.46
6)	t	beta-BHC			0.854	0.824	0.779	0.737	0.692	0.642	0.639	0.637	0.614	*L	0.9996
7)	t	delta-BHC			1.529	1.507	1.460	1.411	1.443	1.548	1.598	1.627	1.582	1.523	4.86
8)	t	Heptachlor			1.786	1.721	1.657	1.575	1.545	1.553	1.565	1.548	1.427	1.598	6.72
9)	t	Aldrin			1.511	1.468	1.436	1.367	1.367	1.434	1.469	1.478	1.382	1.435	3.65

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10) t	Alachlor			0.293	0.281	0.264	0.241	0.197	0.183	0.172		*L	0.996
7													
11) t	Chlorpyrifos			1.095	1.043	0.969	0.877	0.736	0.700	0.666		*L	0.998
3													
12) t	Heptachlor Ep...		1.616	1.577	1.520	1.425	1.372	1.353	1.362	1.352	1.252	1.425	8.44
13) t	gamma-Chlorda...		1.483	1.457	1.376	1.298	1.234	1.224	1.252	1.275	1.205	1.312	7.85
14) t	alpha-Chlorda...		1.641	1.577	1.521	1.435	1.382	1.359	1.381	1.400	1.318	1.446	7.54
15) t	4,4'-DDE		1.377	1.359	1.330	1.263	1.272	1.348	1.390	1.418	1.327	1.343	3.82
16) t	Endosulfan I		1.515	1.476	1.419	1.334	1.284	1.260	1.269	1.263	1.167	1.332	8.59
17) t	Dieldrin		1.415	1.389	1.352	1.281	1.267	1.305	1.334	1.344	1.257	1.327	4.11
18) t	Endrin		1.442	1.411	1.375	1.305	1.290	1.326	1.350	1.356	1.265	1.347	4.25
19) t	4,4'-DDD		1.118	1.104	1.084	1.022	1.026	1.071	1.106	1.134	1.088	1.084	3.57
20) t	Endosulfan II		1.364	1.341	1.298	1.220	1.180	1.154	1.164	1.150	1.053	1.214	8.39
21) t	4,4'-DDT		1.293	1.294	1.271	1.196	1.196	1.227	1.262	1.290	1.222	1.250	3.26
22) t	Endrin Aldehyde		1.156	1.131	1.093	1.025	0.982	0.941	0.951	0.957	0.906	*L	0.999
3													
23) t	Methoxychlor		0.848	0.816	0.797	0.739	0.695	0.630	0.620	0.614	0.581	0.704	14.13
24) t	Mirex			1.298	1.250	1.156	1.061	0.921	0.910	0.914	0.867	*L	0.999
3													
25) t	Endosulfan Su...		1.382	1.336	1.302	1.218	1.159	1.107	1.116	1.118	1.054	1.199	9.68

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)	t	Endrin Ketone	1.378	1.372	1.340	1.264	1.245	1.205	1.207	1.200	1.136		1.261	6.75
27)	s	Decachlorobip...	1.252	1.219	1.185	1.105	1.040	0.936	0.932	0.943	0.929		1.060	12.61
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1	0.054	0.052	0.044	0.039	0.040	0.040	0.035				*L	0.9963
30)	l1	chlordane-3	0.070	0.064	0.055	0.047	0.046	0.044	0.037				*L	0.9912
31)	l1	chlordane-4	0.208	0.191	0.166	0.163	0.167	0.169	0.147				*L	0.9959
32)	l1	chlordane-5	0.162	0.149	0.130	0.126	0.128	0.129	0.113				*L	0.9961
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2	0.028	0.028	0.023	0.023	0.024						*L	0.9997
35)	l2	toxaphene-3	0.042	0.040	0.035	0.035	0.035						*L	0.9998
36)	l2	toxaphene-4	0.049	0.047	0.041	0.041	0.042						*L	0.9997
37)	l2	toxaphene-5	0.050	0.045	0.038	0.038	0.039						*L	0.9997

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	226.2E6	184.7E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.659	4.472	862871	1055459	0.080M2	0.106M4
18) t	Endrin	4.211	4.925	519.0E6	456.6E6	49.762M4	45.902M3
19) t	4,4'-DDD	4.325	5.050	1951195	2046326	0.233M4	0.256M3
21) t	4,4'-DDT	4.616	5.325	974.6E6	872.9E6	101.766M4	94.533M4
22) t D	Endrin Aldeh	4.869	5.421	1022766	1047335	0.128M3	N.D. M4
26) t	Endrin Keton	5.487	6.059	4628888	4774072	0.432M4	0.513M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

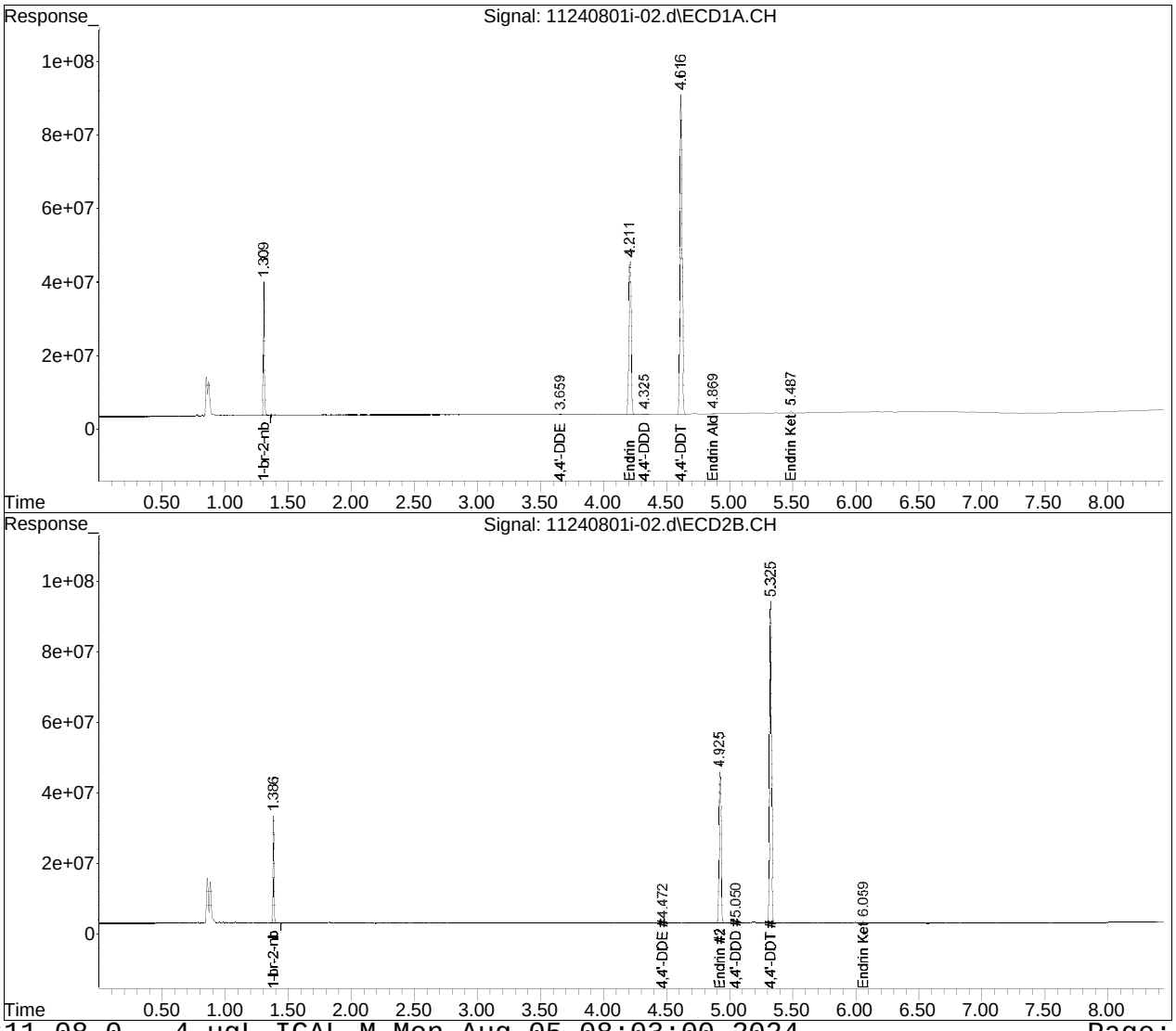
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

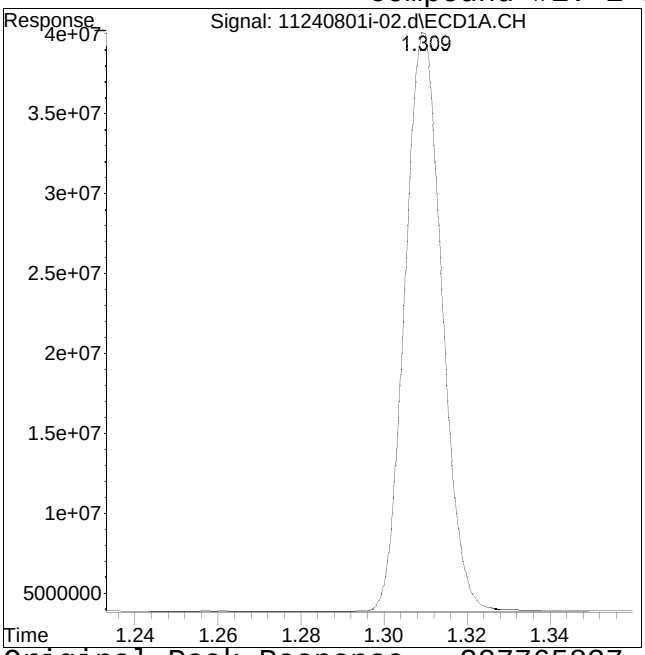


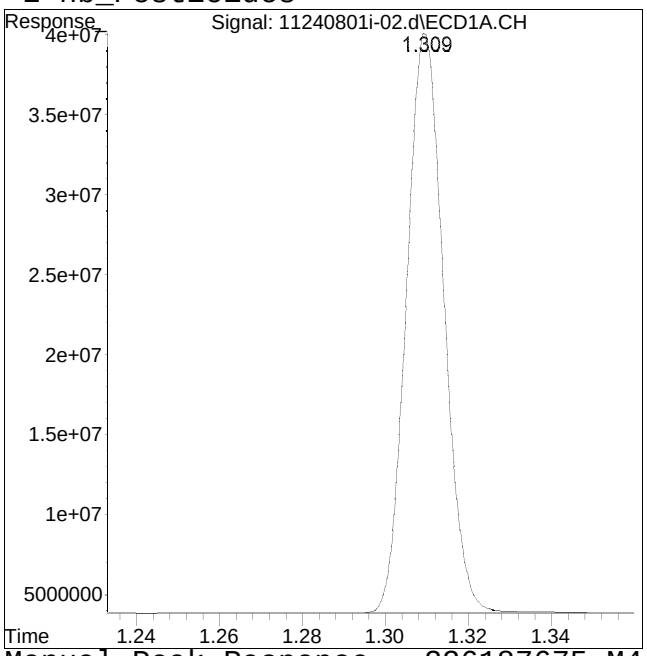
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #1: 1-br-2-nb_Pesticides



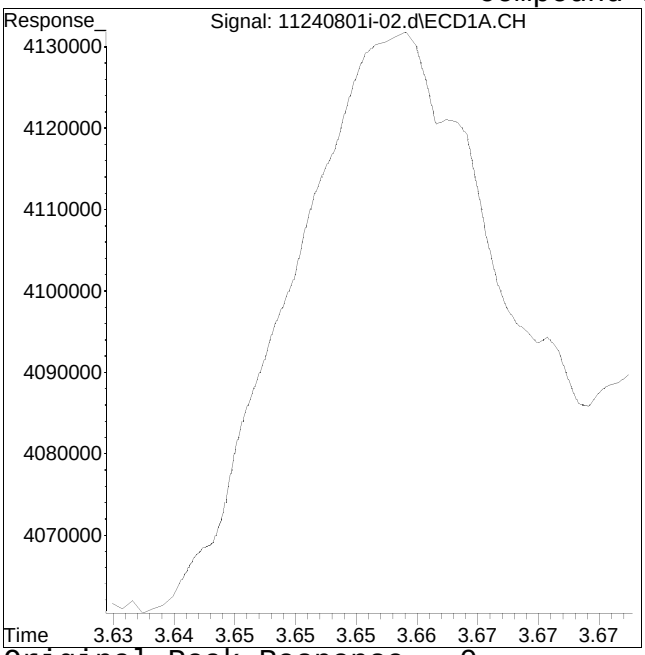


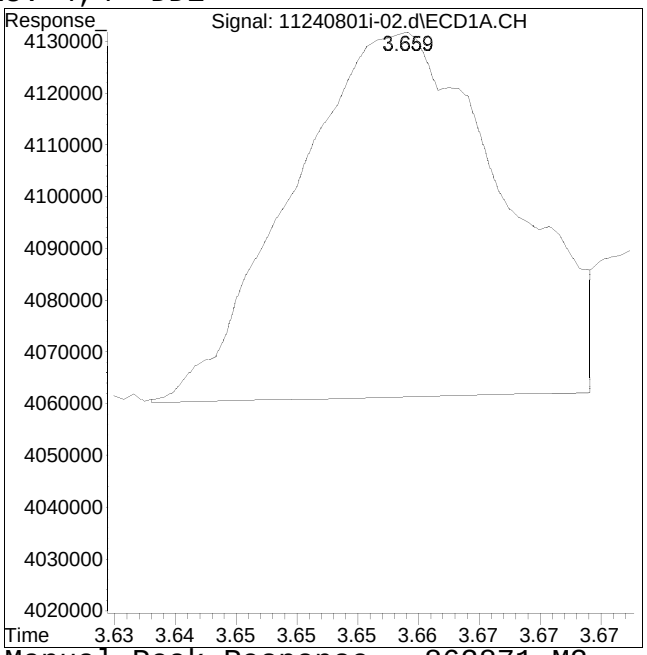
Original Peak Response = 227765837 Manual Peak Response = 226187675 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #15: 4,4'-DDE



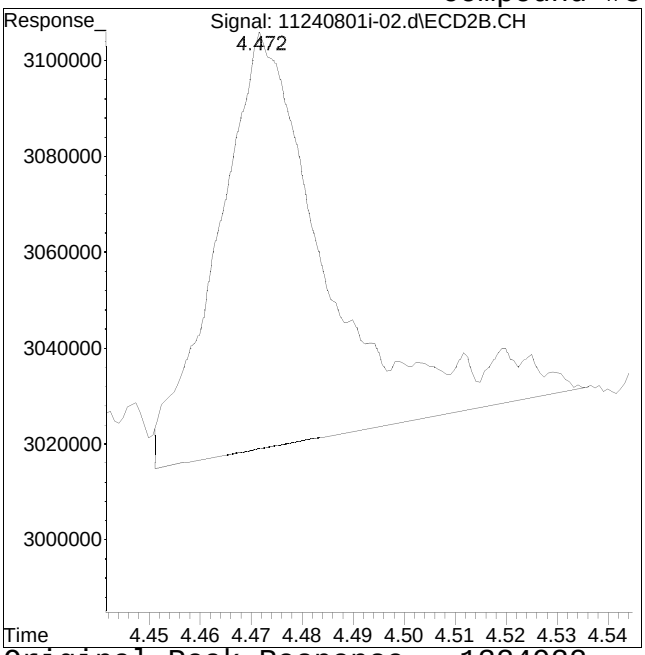


Original Peak Response = 0 Manual Peak Response = 862871 M2
M2 = Peak not found by automatic integration algorithm.

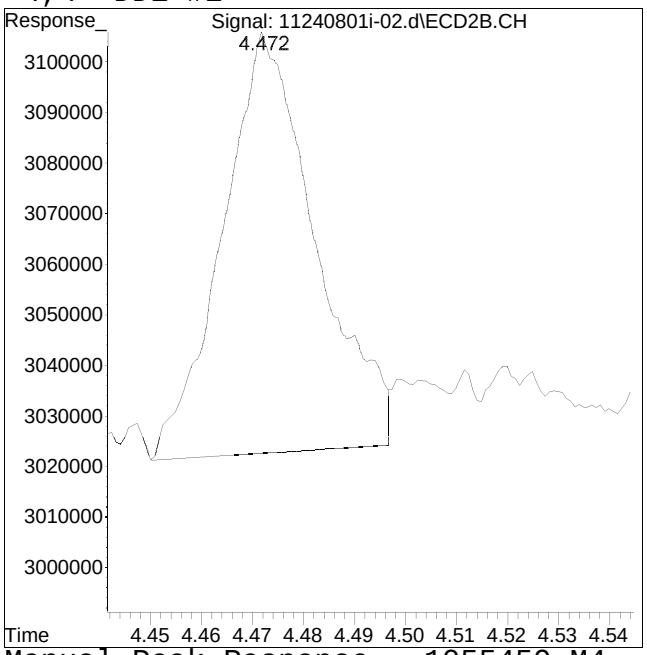
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 1324922



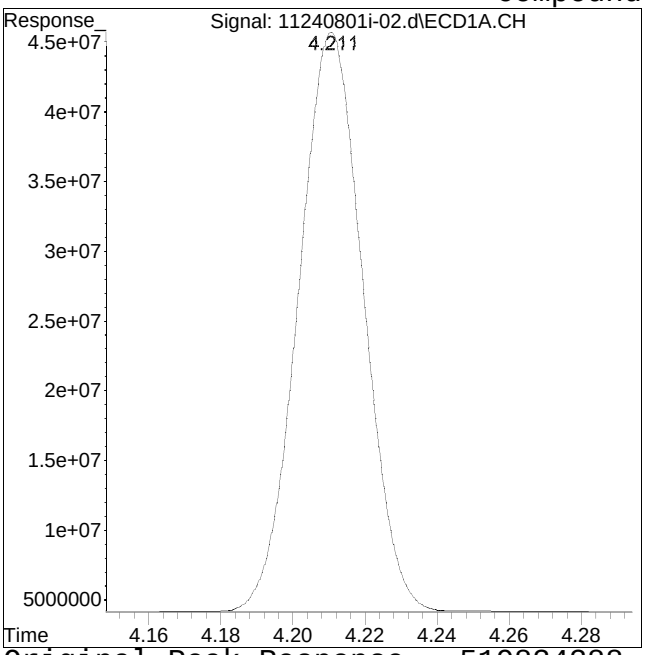
Manual Peak Response = 1055459 M4

M4 = Poor automated baseline construction.

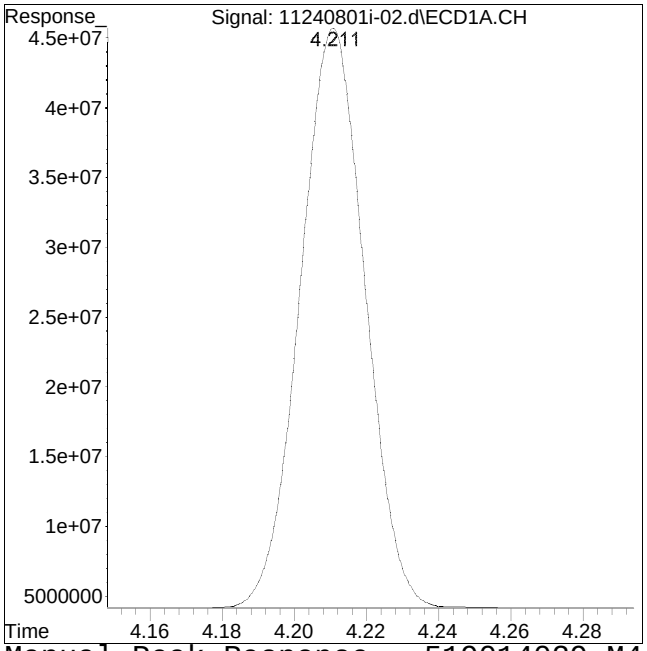
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #18: Endrin



Original Peak Response = 519834388



Manual Peak Response = 519014029 M4

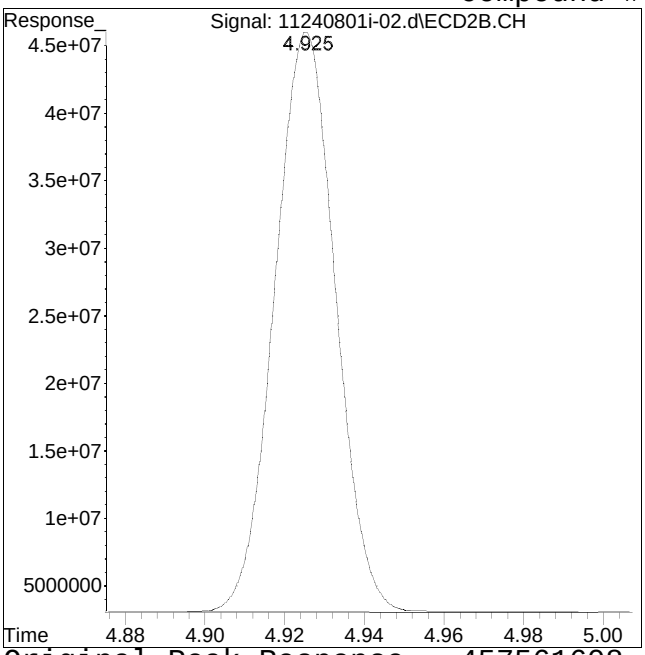
M4 = Poor automated baseline construction.

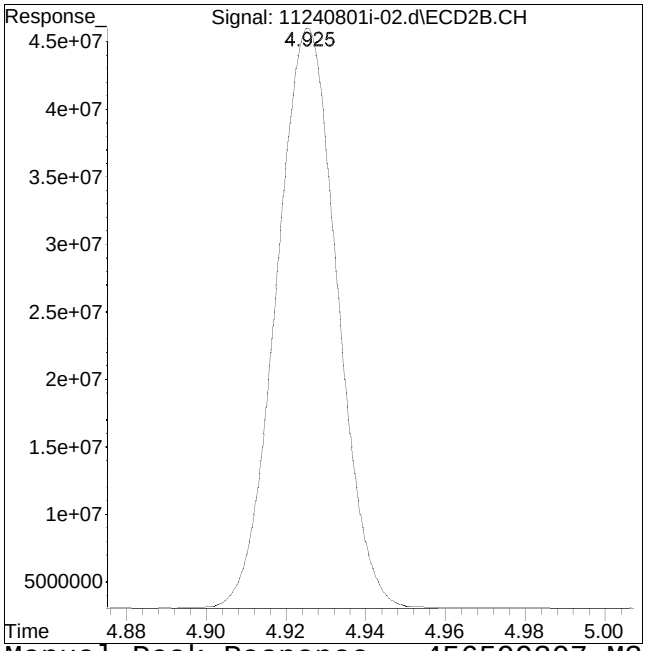
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #56: Endrin #2





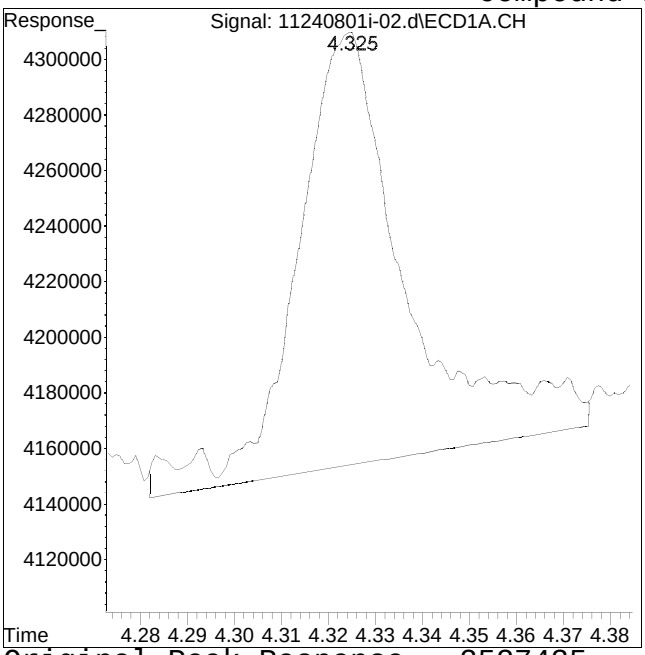
Original Peak Response = 457561608 Manual Peak Response = 456599307 M3

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

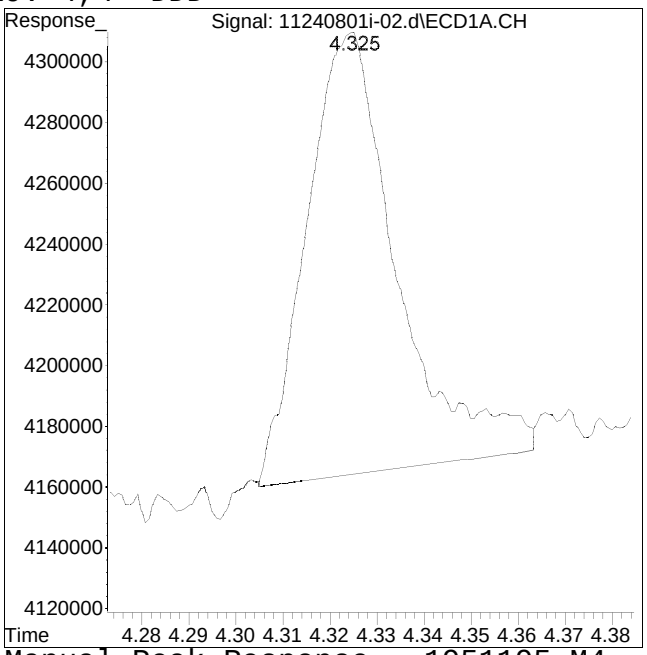
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #19: 4,4'-DDD



Original Peak Response = 2527435



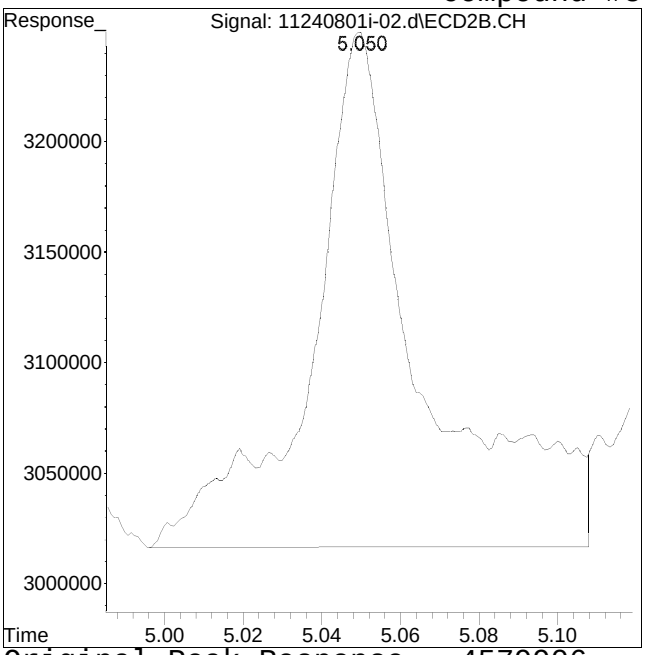
Manual Peak Response = 1951195 M4

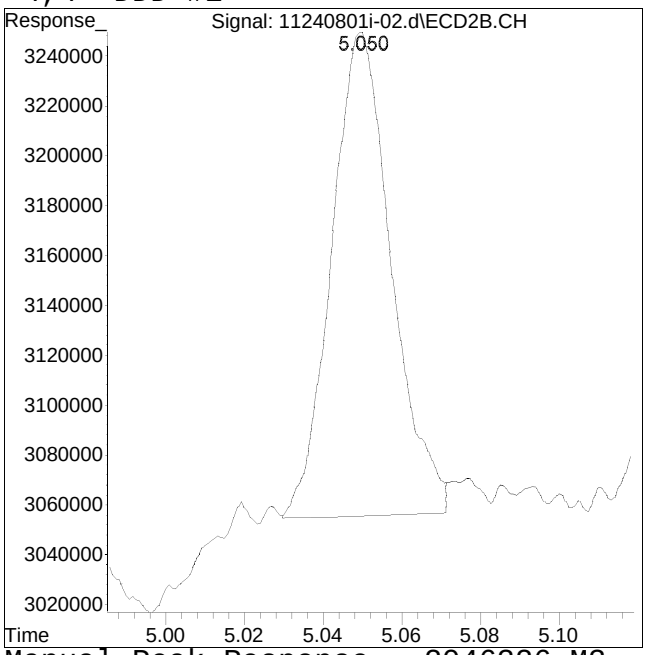
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #57: 4,4'-DDD #2



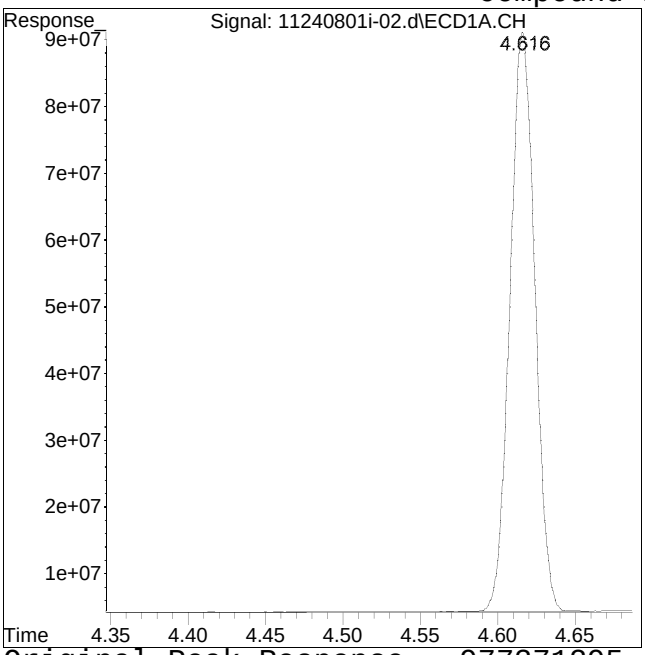


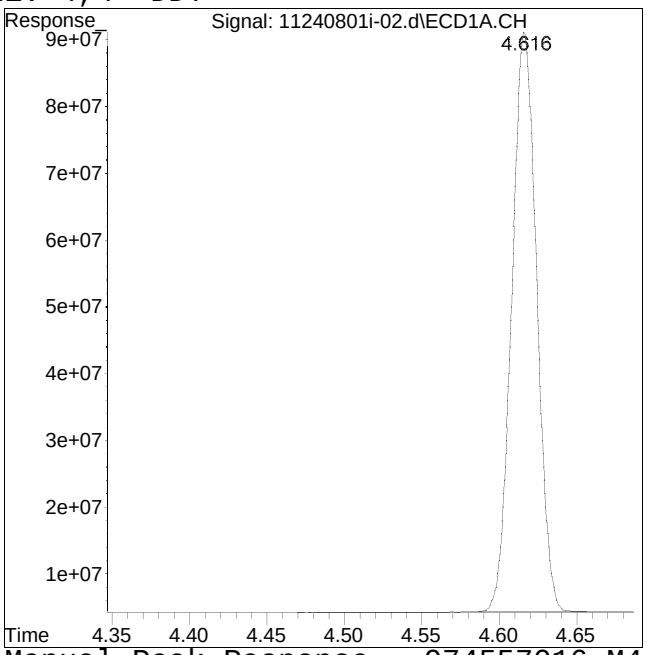
Original Peak Response = 4579906 Manual Peak Response = 2046326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #21: 4,4'-DDT



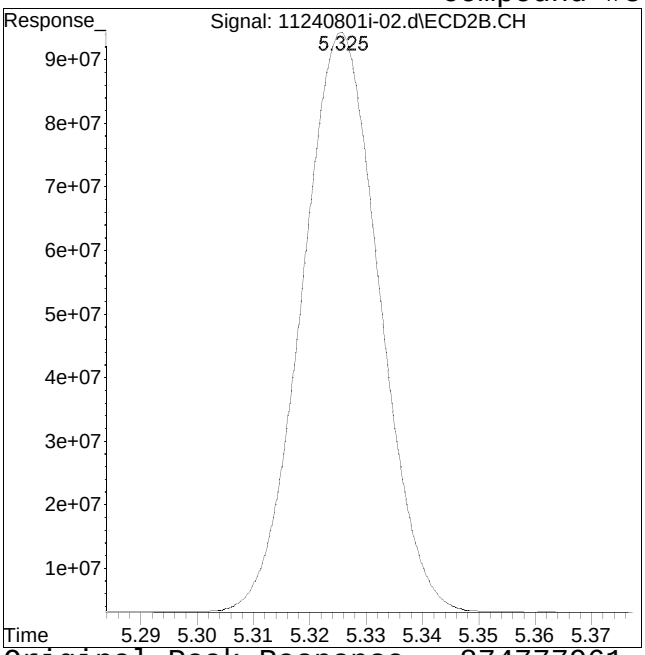


Original Peak Response = 977371295 Manual Peak Response = 974557016 M4
M4 = Poor automated baseline construction.

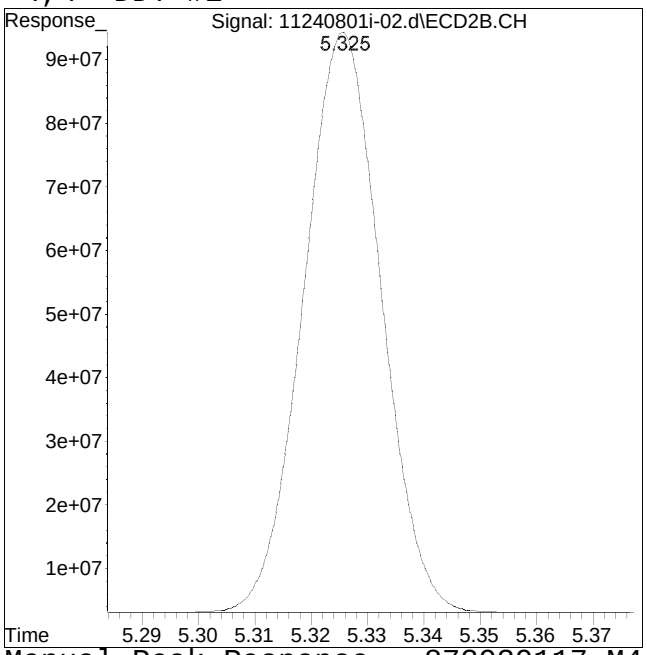
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 874777961



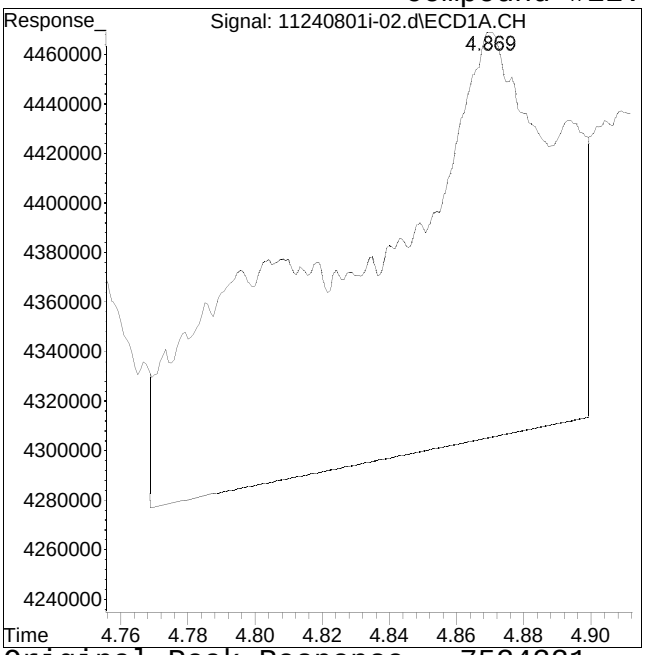
Manual Peak Response = 872939117 M4

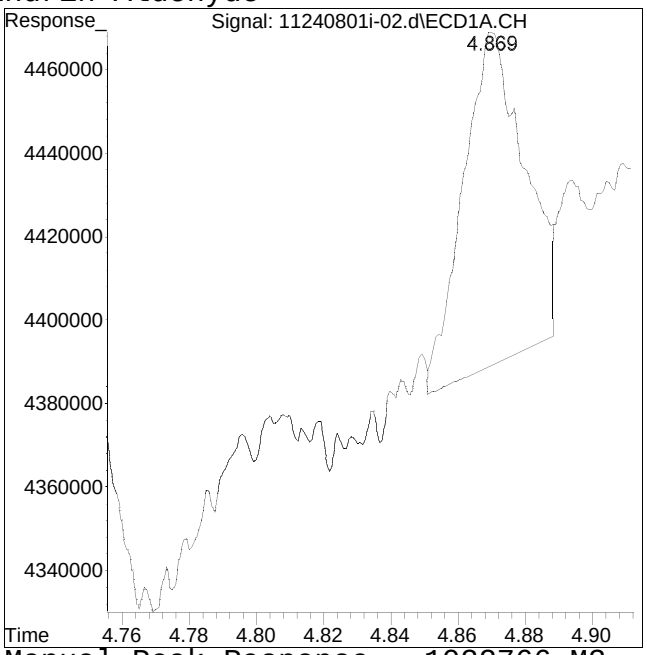
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #22: Endrin Aldehyde



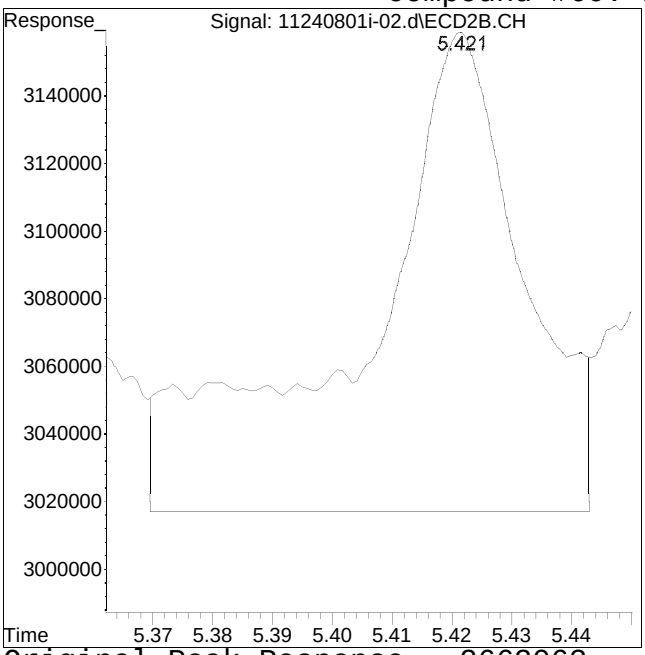


Original Peak Response = 7524321 Manual Peak Response = 1022766 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

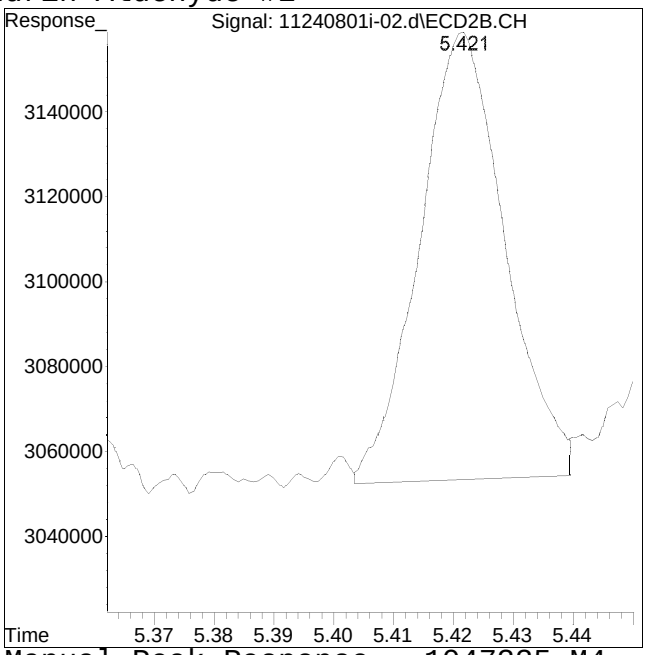
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 2663063



Manual Peak Response = 1047335 M4

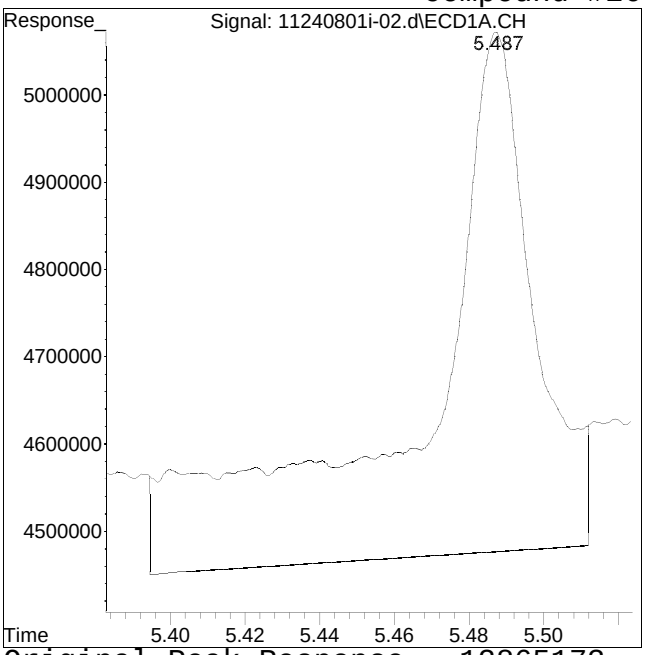
M4 = Poor automated baseline construction.

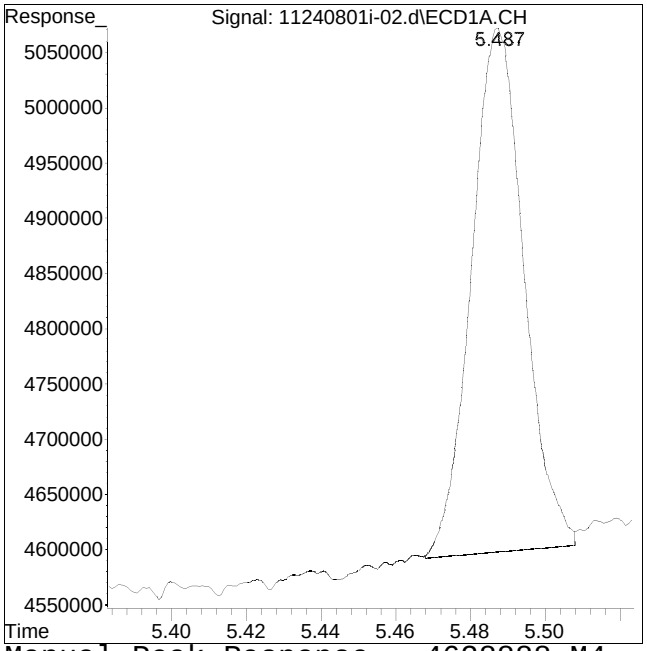
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #26: Endrin Ketone



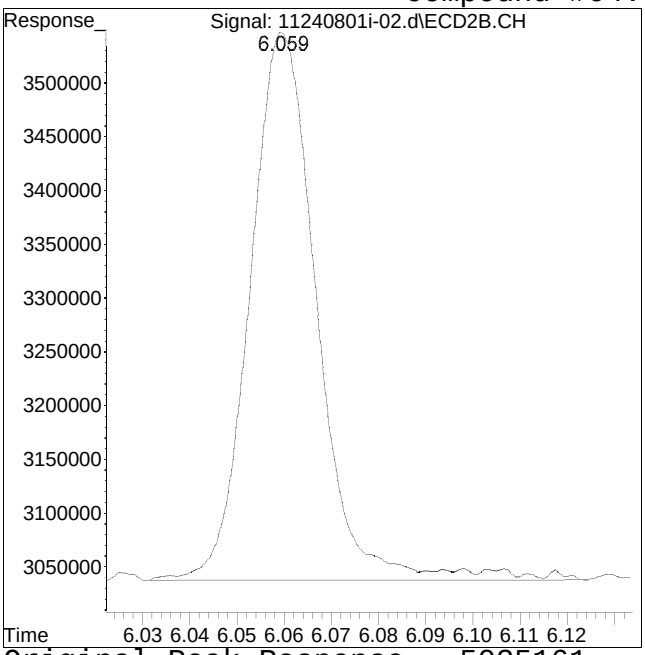


Original Peak Response = 12865173 Manual Peak Response = 4628888 M4
M4 = Poor automated baseline construction.

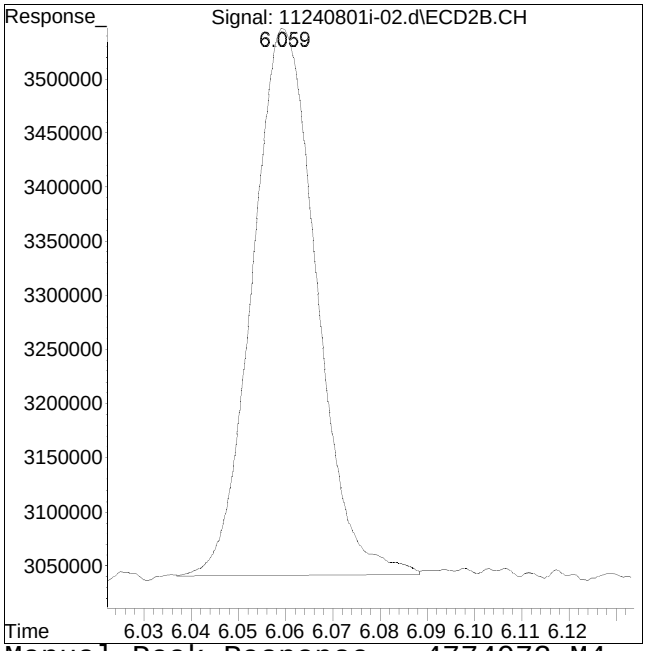
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 5035161



Manual Peak Response = 4774072 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	220.8E6	175.5E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	2.165	2.556	6465041	6237465	0.527M4	0.587M4
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

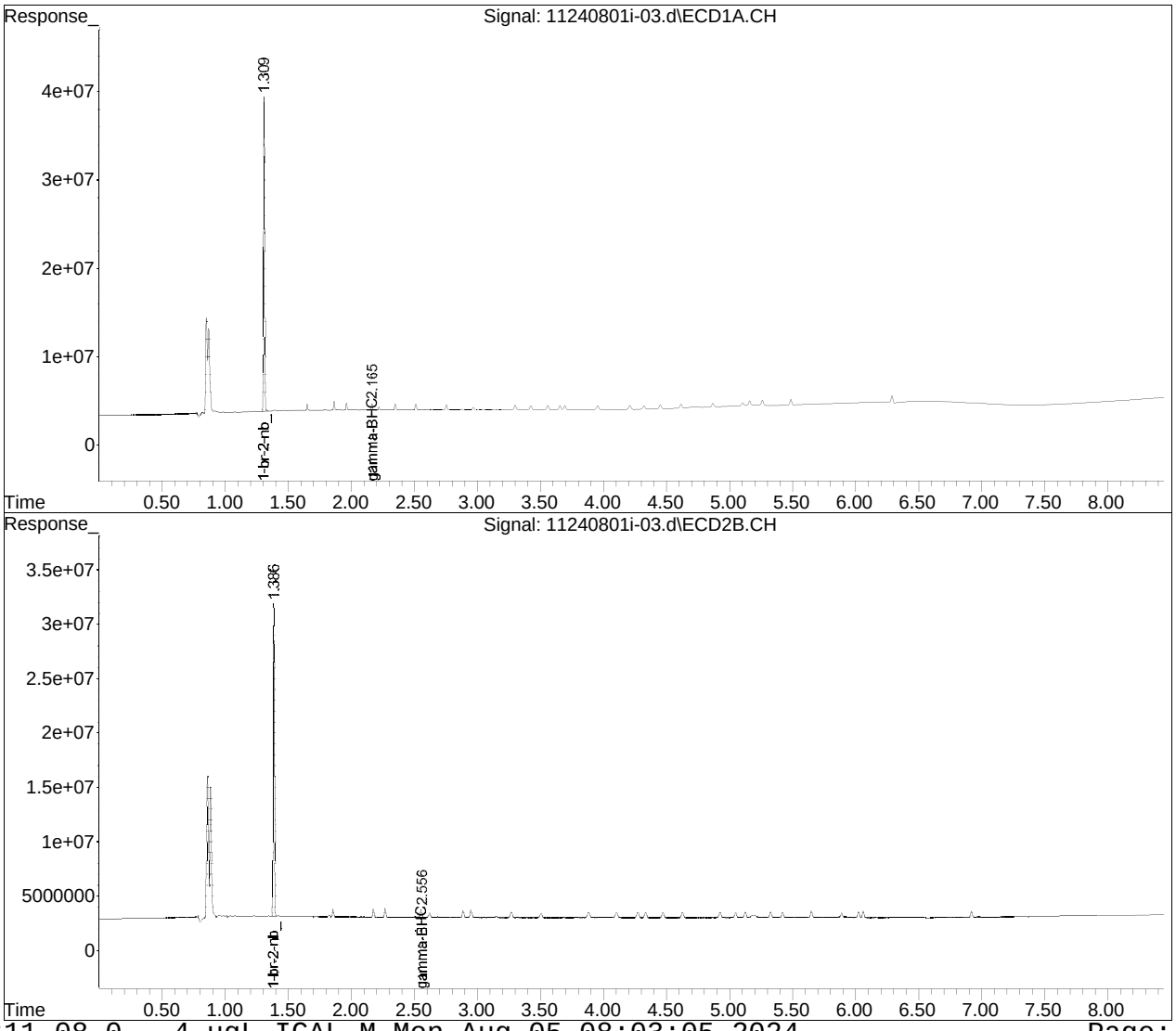
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

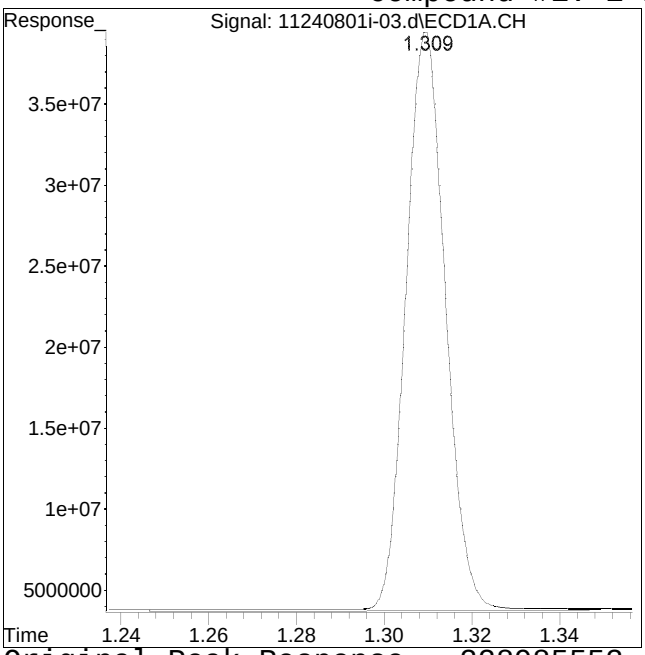


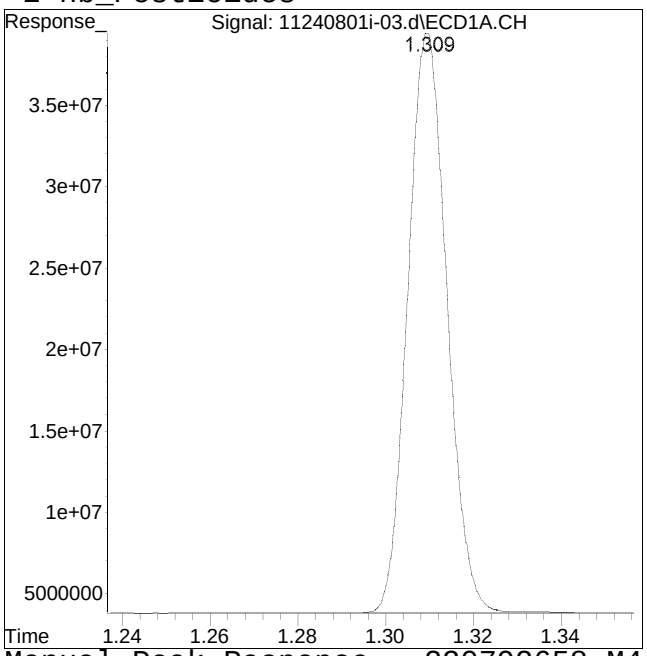
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #1: 1-br-2-nb_Pesticides





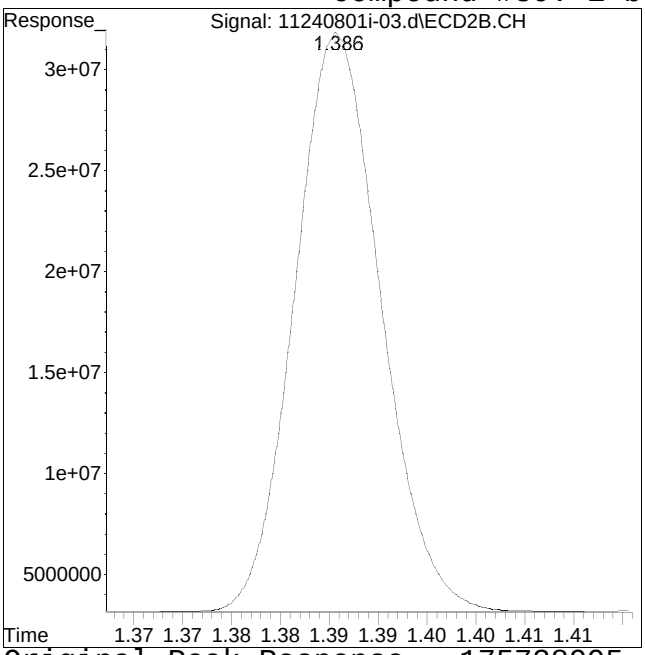
Original Peak Response = 228985553 Manual Peak Response = 220792658 M4
M4 = Poor automated baseline construction.

Manual Integration Report

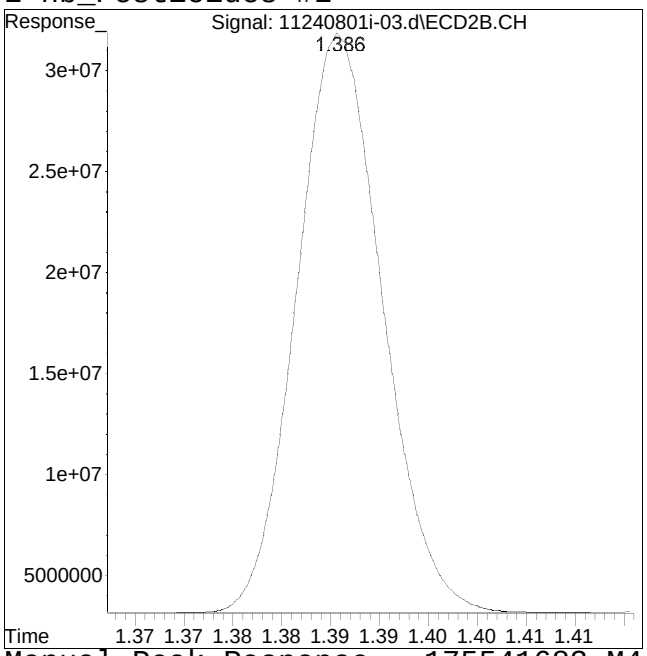
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 175738995



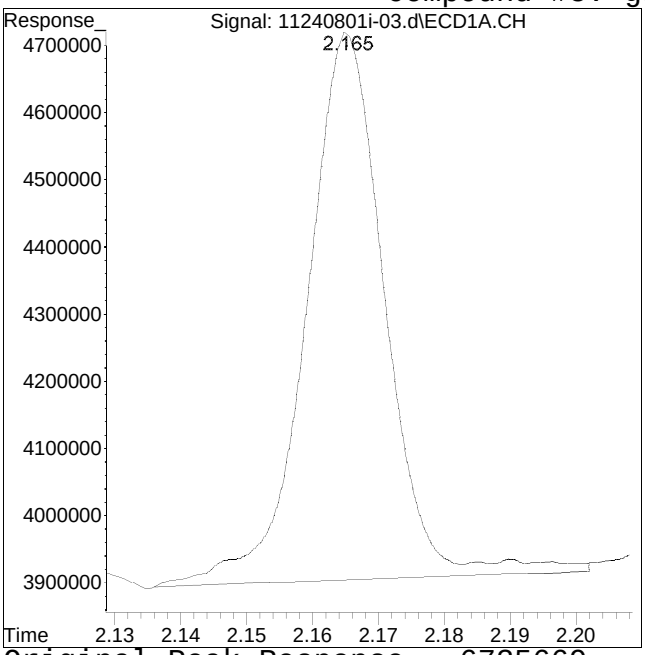
Manual Peak Response = 175541683 M4

M4 = Poor automated baseline construction.

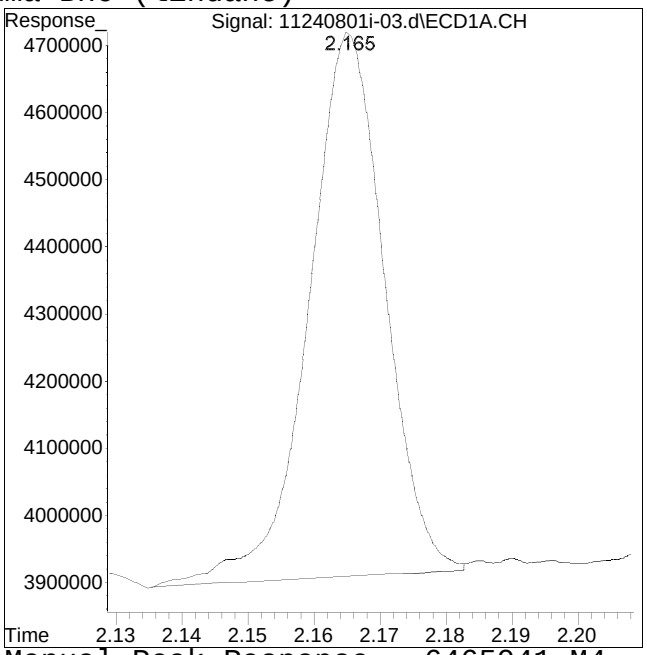
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-03.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:37 Instrument : Pest 11
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/2/2024 11:37 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 6735669



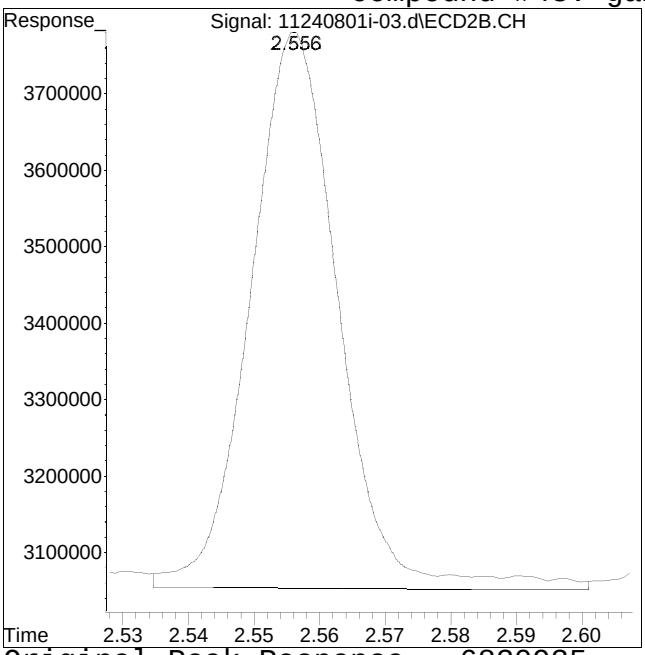
Manual Peak Response = 6465041 M4

M4 = Poor automated baseline construction.

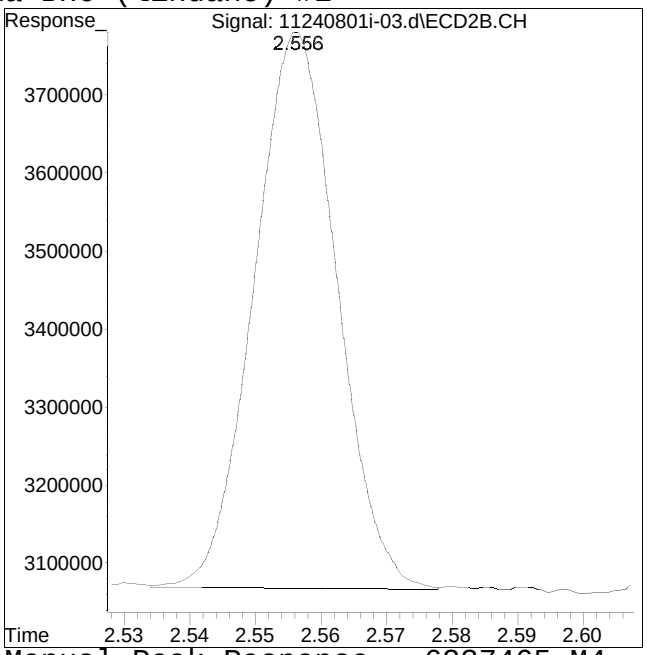
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-03.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:37 Instrument : Pest 11
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/2/2024 11:37 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 6830935



Manual Peak Response = 6237465 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	236.2E6	189.9E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.651	1.857	10103750	9166304	1.033M4	1.095M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.07%#	2.19%#
27) s	Decachlorobi	6.287	6.916	12797286	9509129	1.189M4	1.208M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.38%#	2.42%#
	Target Compounds						
3) t	Hexachlorobe	1.864	2.177	14522616	11025327	1.106M4	1.197M3
4) t	alpha-BHC	1.963	2.270	12213270	11833439	0.873M3	0.957M4
5) t	gamma-BHC (l	2.165	2.555	12327860	11786896	0.933M4	1.029M4
6) t	beta-BHC	2.221	2.622	6284813	6484776	1.068M4	1.227
7) t	delta-BHC	2.349	2.888	11794485	11613870	0.898M4	1.004M4
8) t	Heptachlor	2.512	2.951	12406198	13569126	0.994M4	1.135M4
9) t	Aldrin	2.755	3.270	11094967	11481671	0.947M3	1.060M4
10) t	Alachlor	2.875	3.152	2283039	2193840	1.050M4	1.239M3
11) t	Chlorpyrifos	2.968	3.506	6350609	8645243	1.140M4	1.309M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	11159206	12274465	0.996M4	1.153M4
13)	t	gamma-Chlord	3.424	4.104	10188540	11268731	1.002M4	1.150M3
14)	t	alpha-Chlord	3.558	4.274	11264127	12463945	0.978M4	1.154M4
15)	t	4,4'-DDE	3.655	4.472	10456227	10459964	0.921M4	1.029M4
16)	t	Endosulfan I	3.694	4.335	10476077	11507441	0.993M4	1.157M4
17)	t	Dieldrin	3.954	4.627	10104411	10753372	0.936M4	1.075M4
18)	t	Endrin	4.208	4.925	10369621	10955743	0.947M4	1.080M3
19)	t	4,4'-DDD	4.320	5.049	8095840	8492171	0.916M4	1.035M3
20)	t	Endosulfan I	4.450	5.125	9763069	10359858	0.980M4	1.141M4
21)	t	4,4'-DDT	4.615	5.326	9158338	9826532	0.906M4	1.039M4
22)	t	Endrin Aldeh	4.868	5.421	8559160	8781210	1.025M3	1.158M4
23)	t	Methoxychlor	5.103	5.890	6198489	6445389	1.124M3	1.236M4
24)	t	Mirex	5.159	6.023	10519898	10310168	1.188M3	1.296M4
25)	t	Endosulfan S	5.260	5.649	10237086	10496074	1.083M3	1.175M4
26)	t	Endrin Keton	5.486	6.060	11019089	10468738	0.984M4	1.106M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

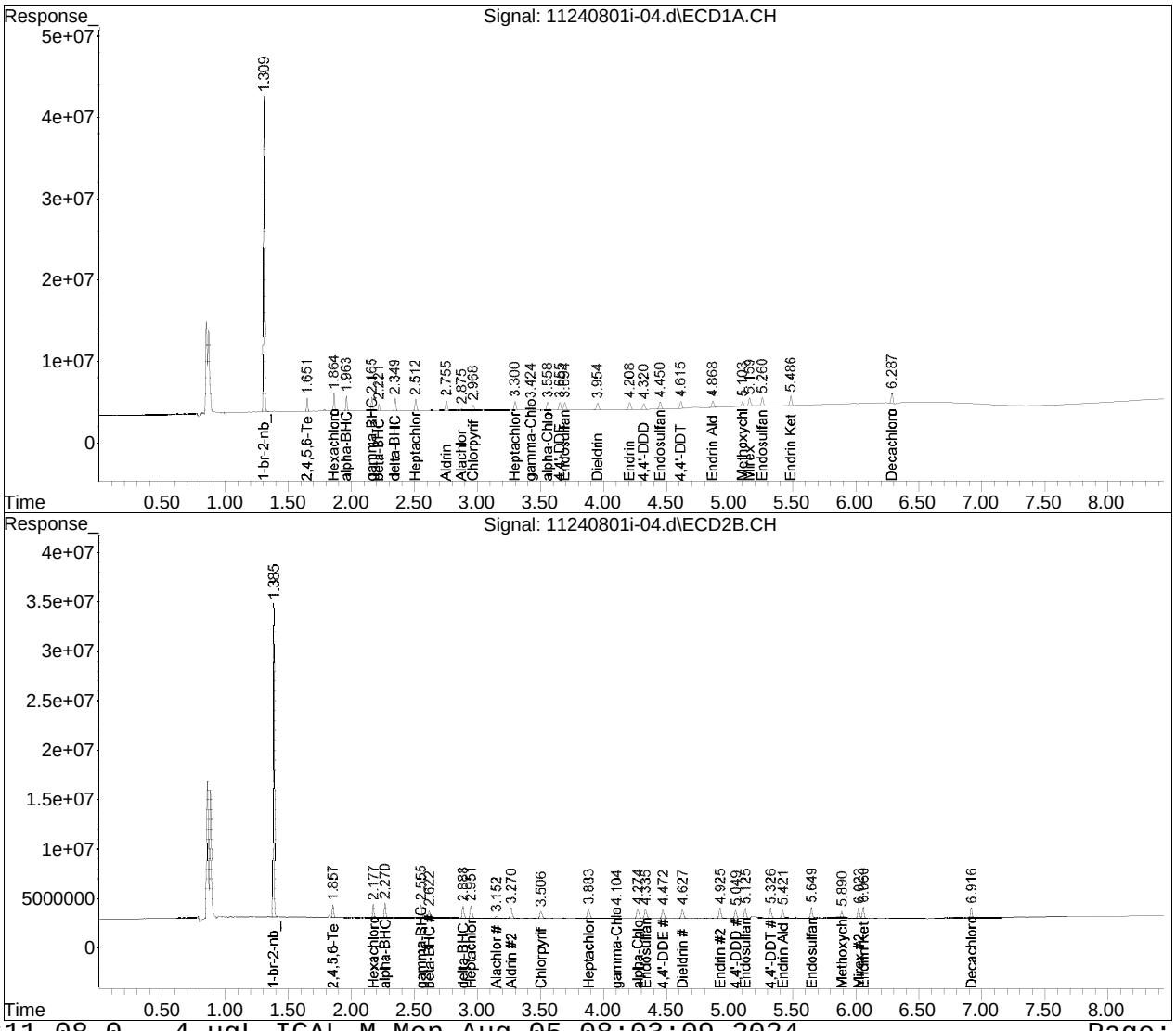
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

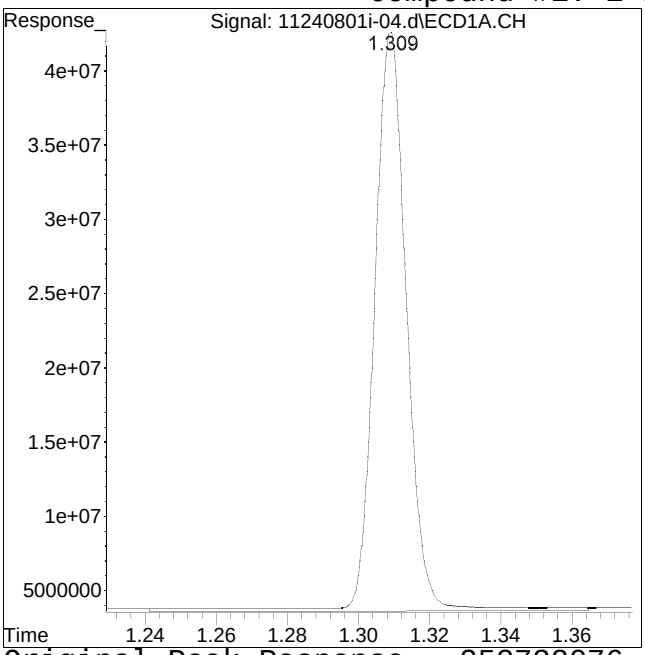
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



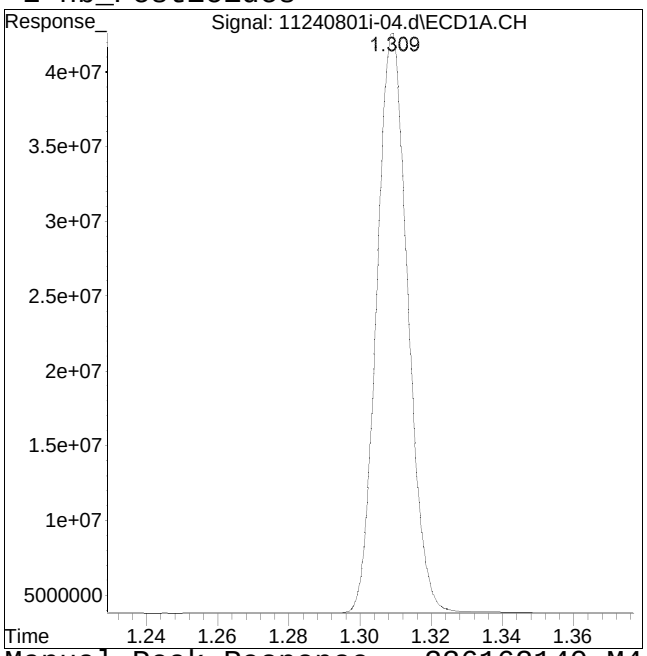
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 252732076



Manual Peak Response = 236162140 M4

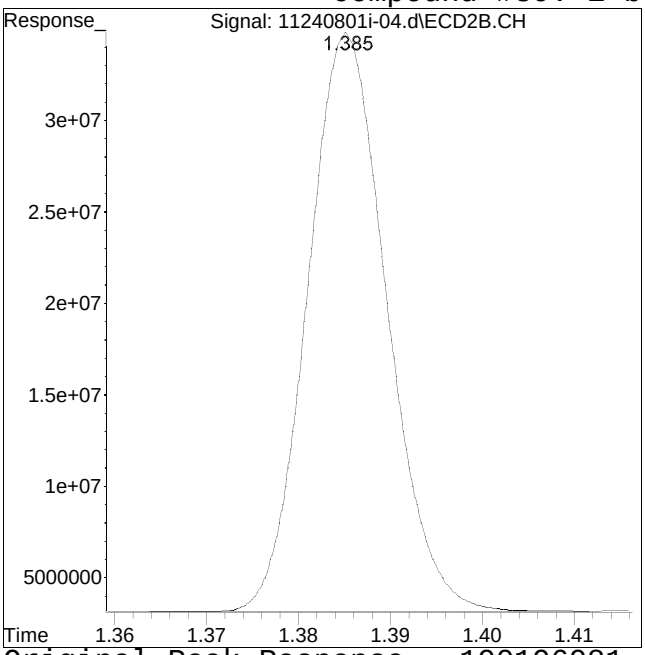
M4 = Poor automated baseline construction.

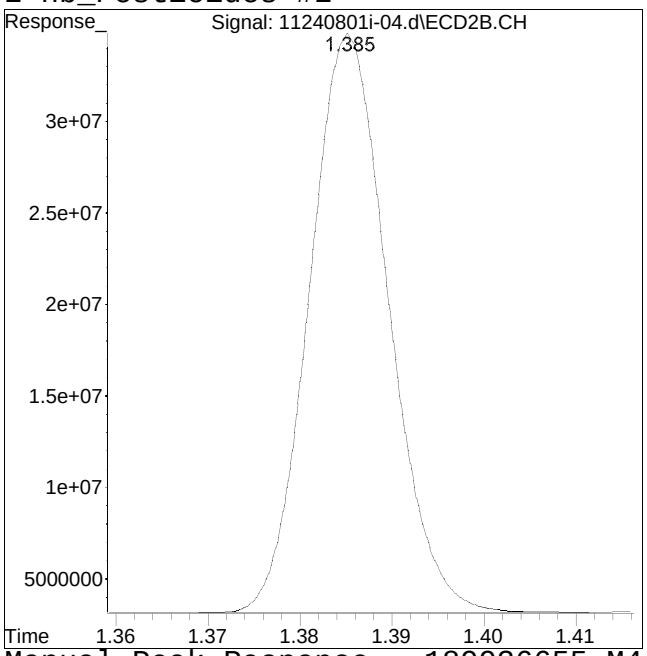
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #39: 1-br-2-nb_Pesticides #2



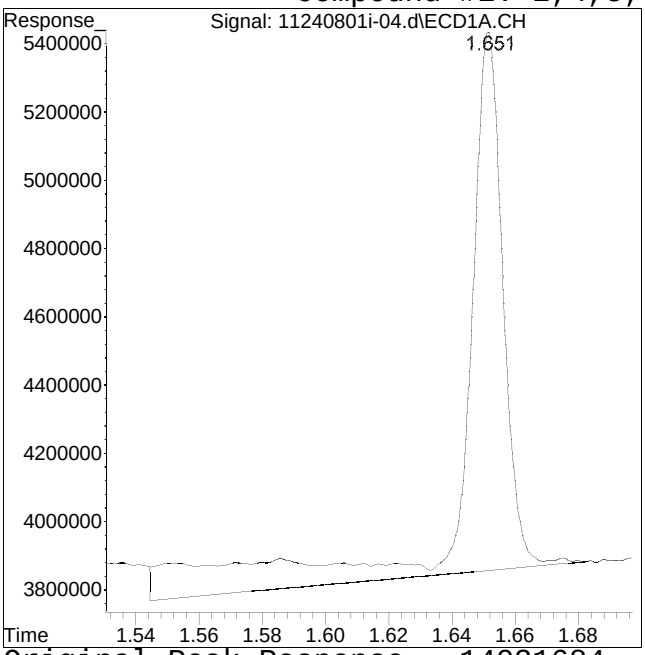


Original Peak Response = 190196981 Manual Peak Response = 189936655 M4
M4 = Poor automated baseline construction.

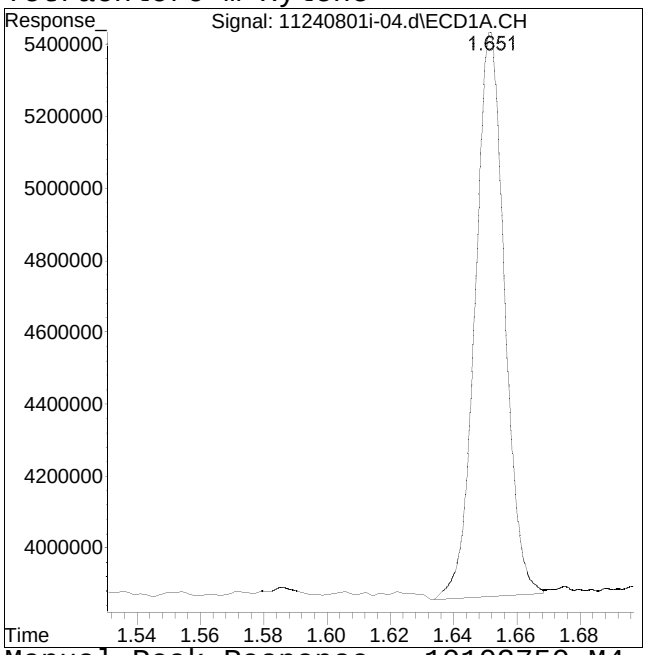
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 14031684



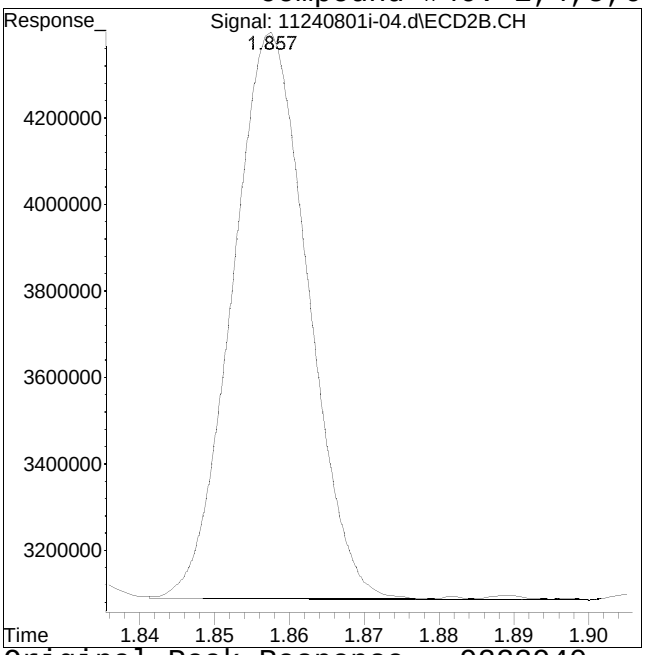
Manual Peak Response = 10103750 M4

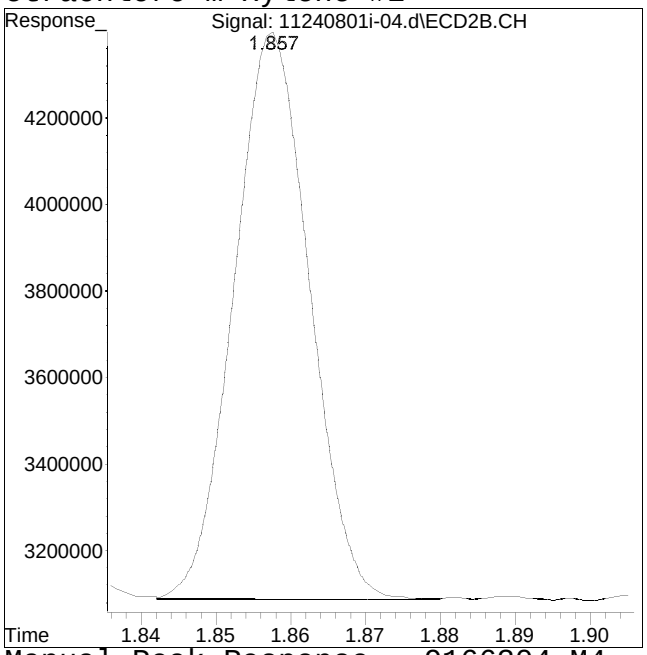
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





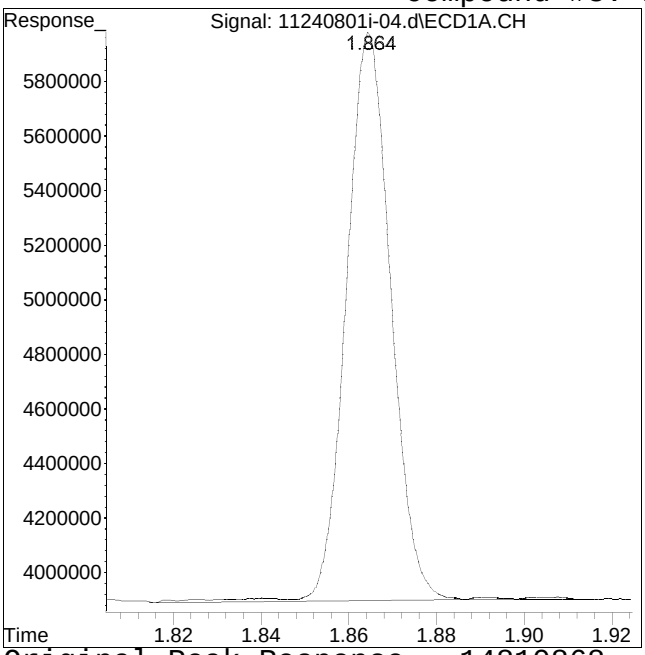
Original Peak Response = 9223940 Manual Peak Response = 9166304 M4
M4 = Poor automated baseline construction.

Manual Integration Report

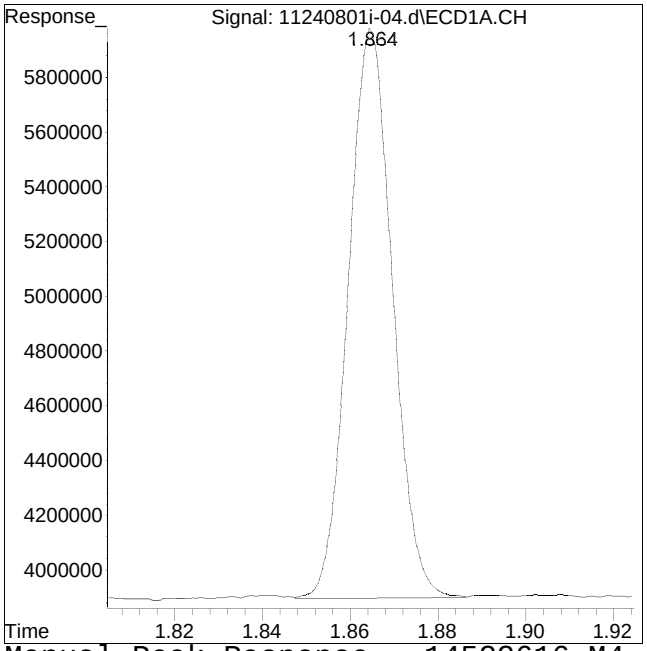
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #3: Hexachlorobenzene



Original Peak Response = 14810868



Manual Peak Response = 14522616 M4

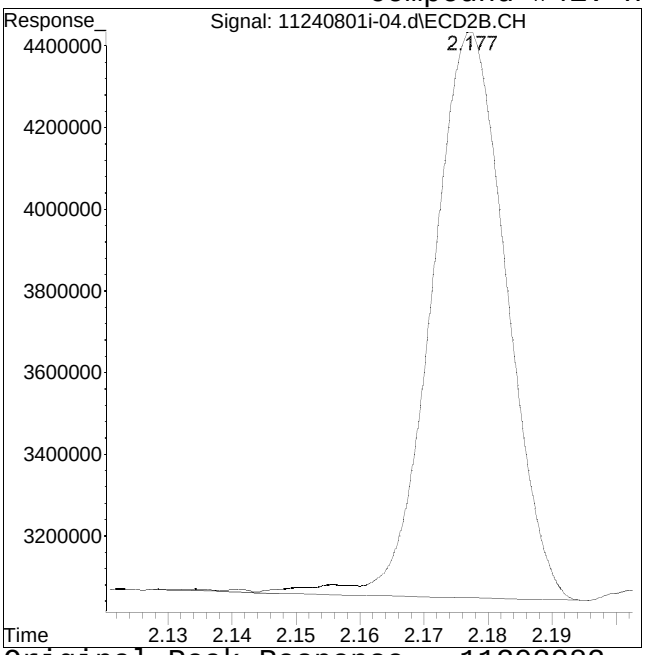
M4 = Poor automated baseline construction.

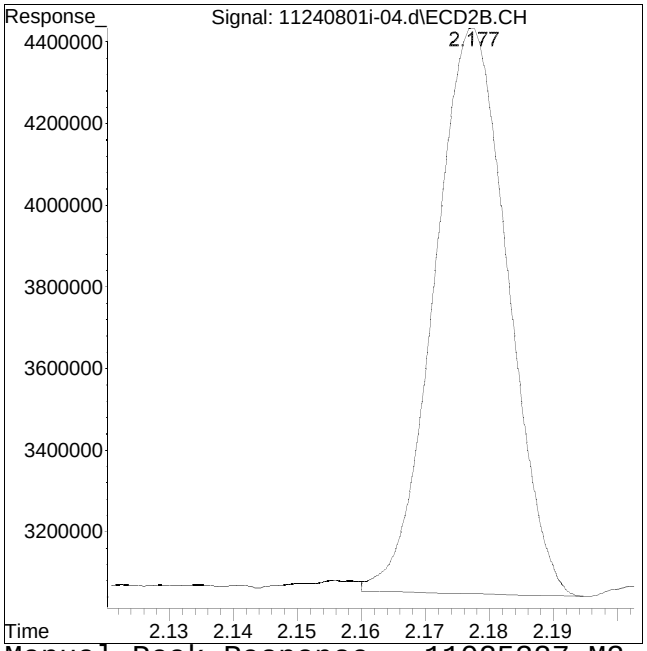
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #41: Hexachlorobenzene #2





Original Peak Response = 11202282 Manual Peak Response = 11025327 M3

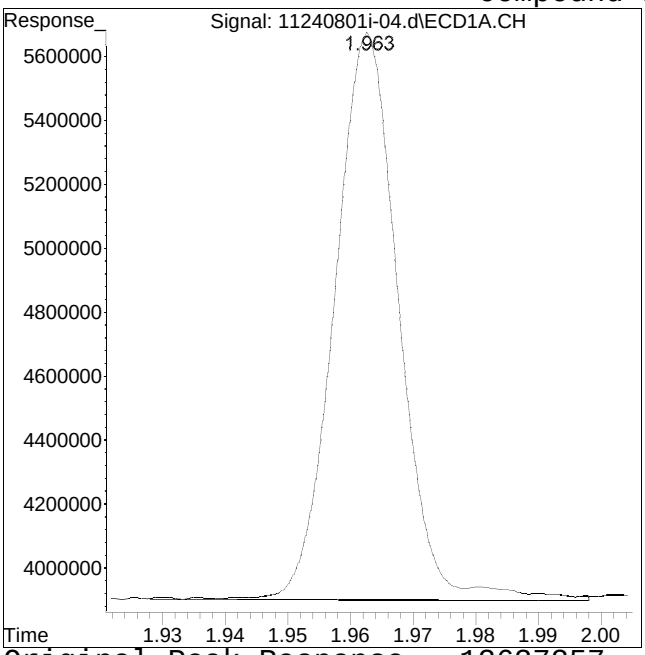
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

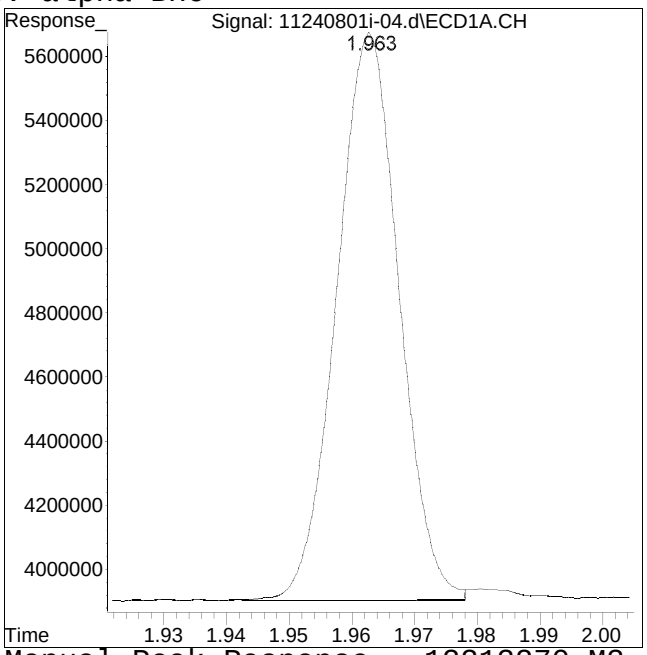
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #4: alpha-BHC





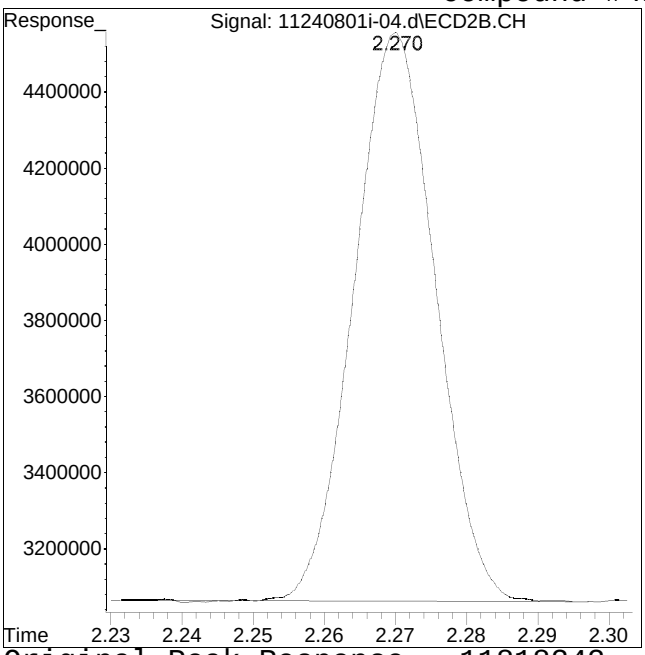
Original Peak Response = 12637257 Manual Peak Response = 12213270 M3

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

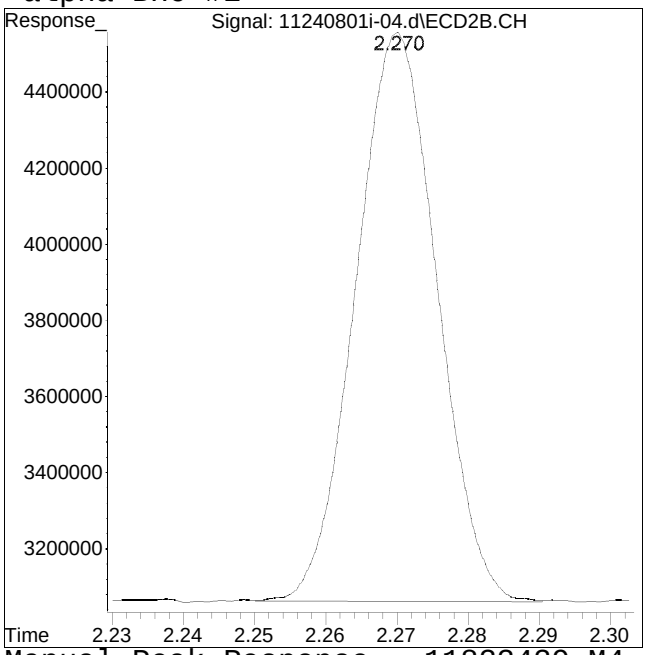
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0 Quant Date : 8/2/2024 11:23 am

Compound #42: alpha-BHC #2



Original Peak Response = 11818242



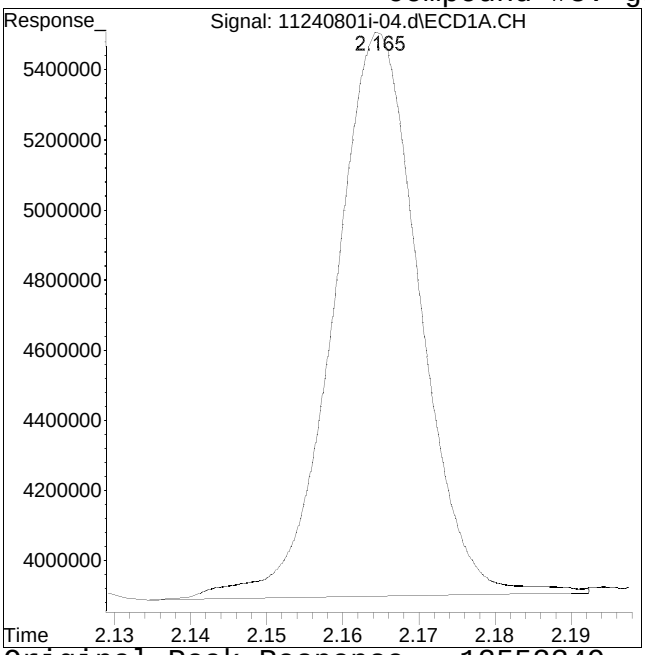
Manual Peak Response = 11833439 M4

M4 = Poor automated baseline construction.

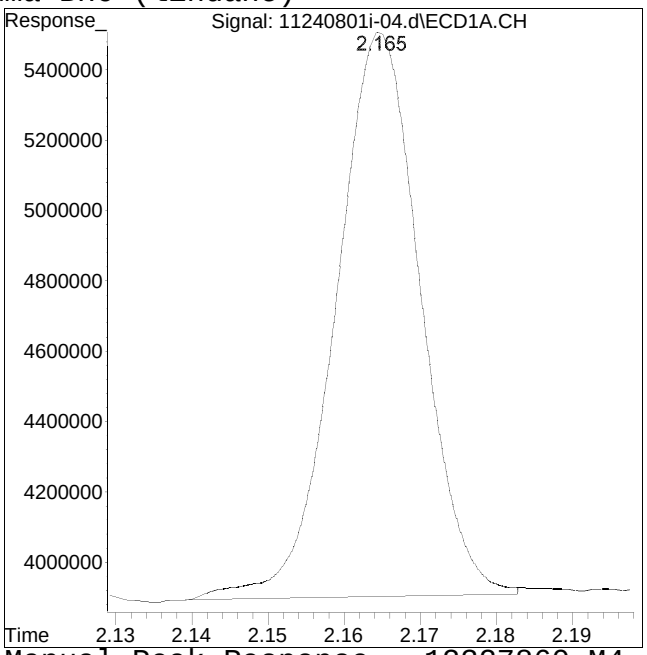
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0 Quant Date : 8/2/2024 11:23 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 12552349



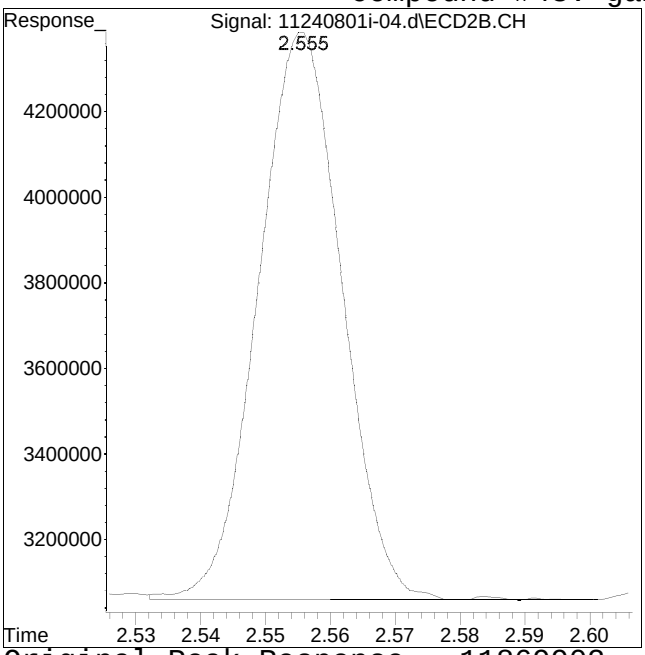
Manual Peak Response = 12327860 M4

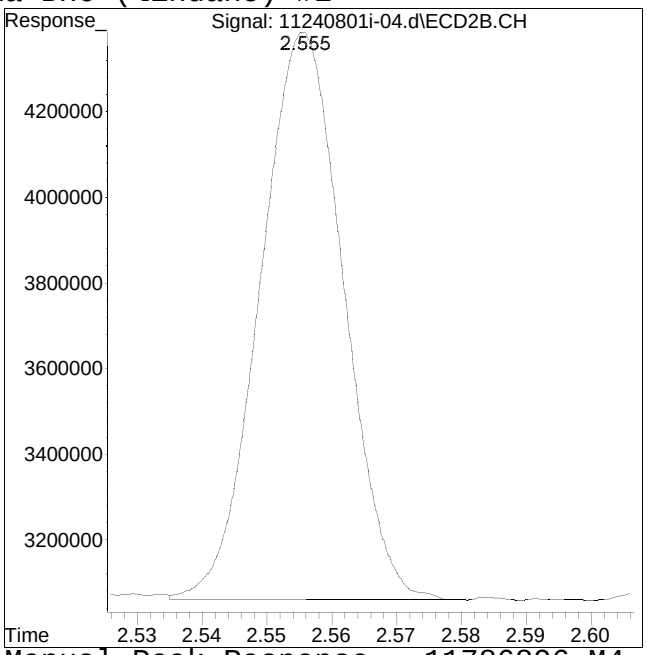
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #43: gamma-BHC (lindane) #2



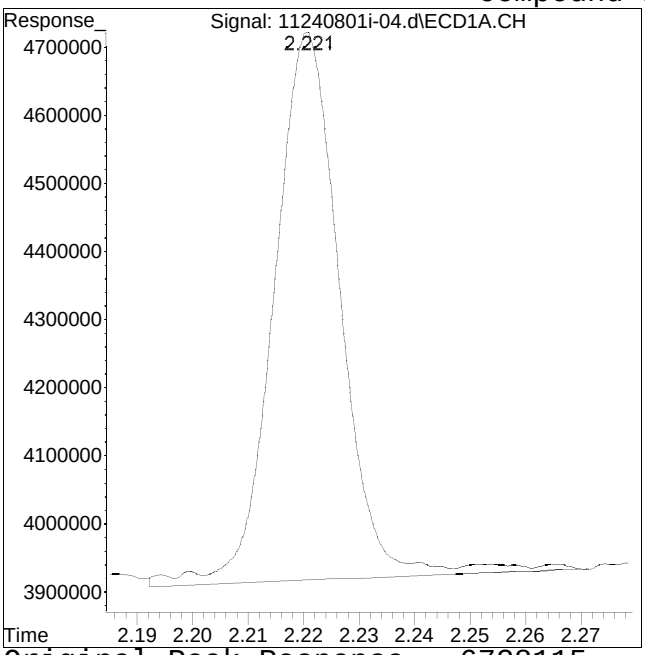


Original Peak Response = 11869902 Manual Peak Response = 11786896 M4
M4 = Poor automated baseline construction.

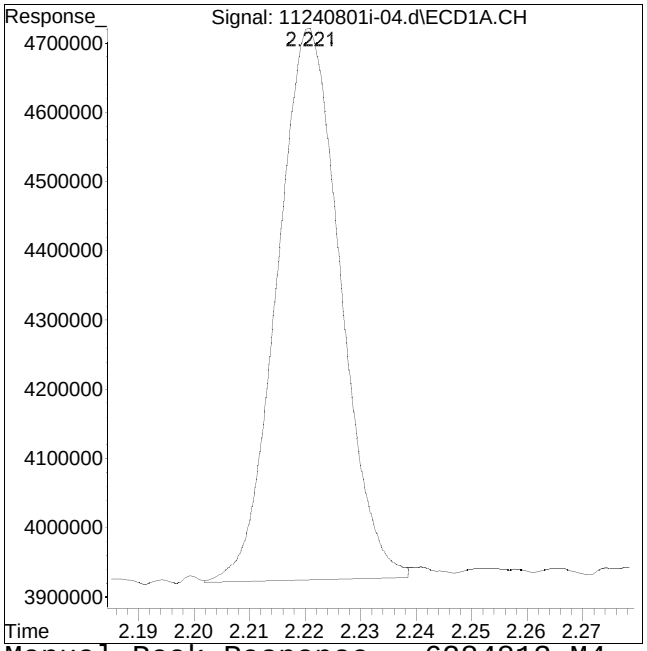
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #6: beta-BHC



Original Peak Response = 6728115



Manual Peak Response = 6284813 M4

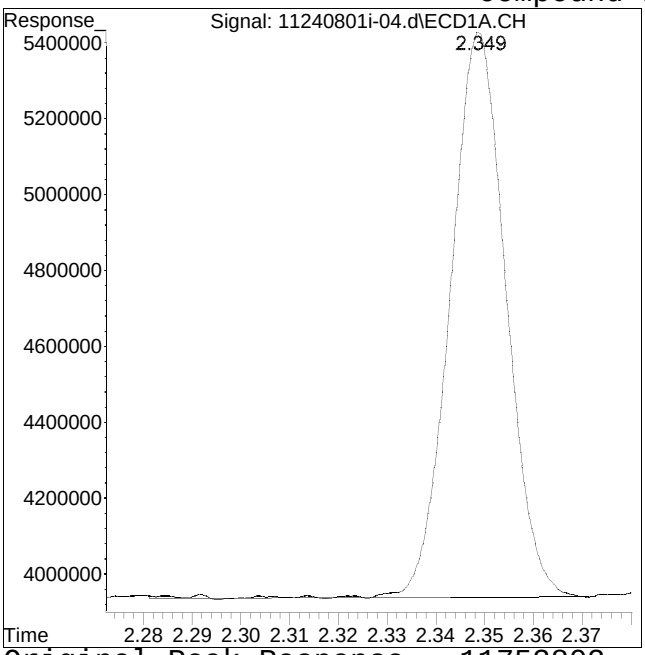
M4 = Poor automated baseline construction.

Manual Integration Report

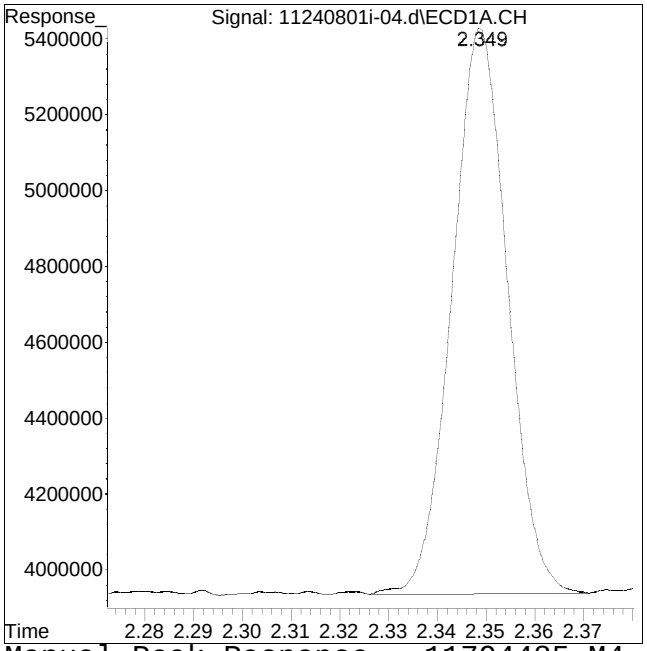
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #7: delta-BHC



Original Peak Response = 11753802



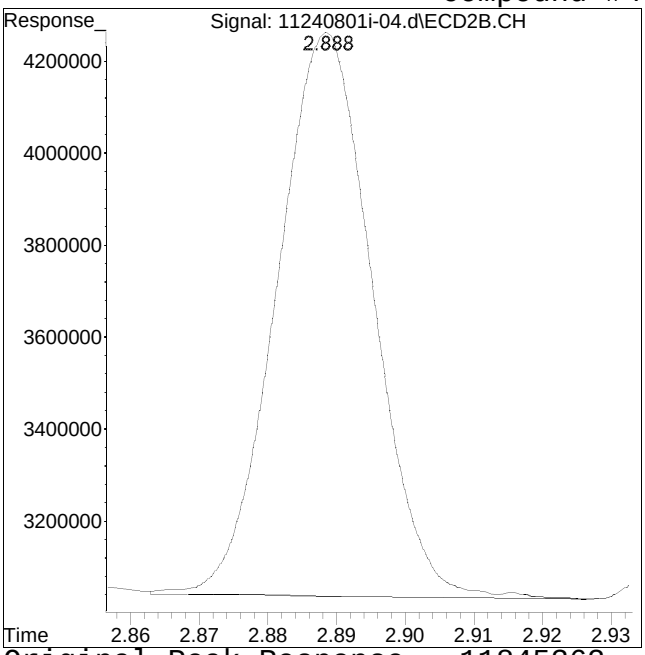
Manual Peak Response = 11794485 M4

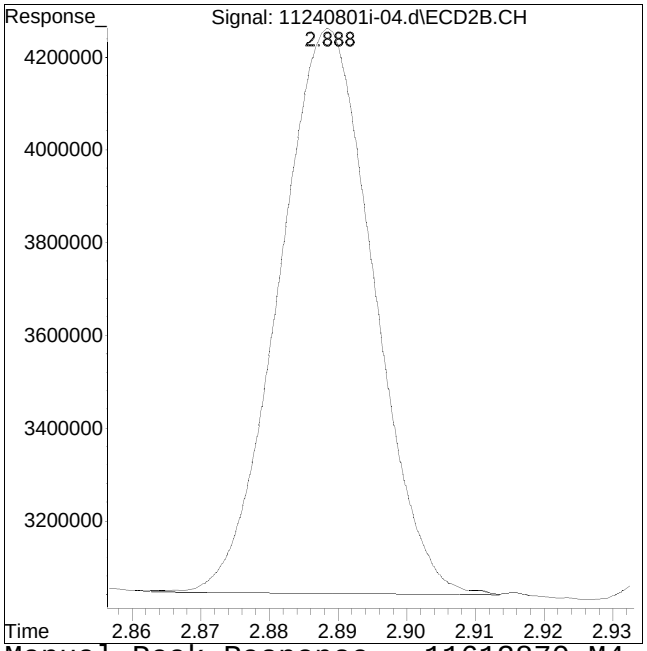
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #45: delta-BHC #2



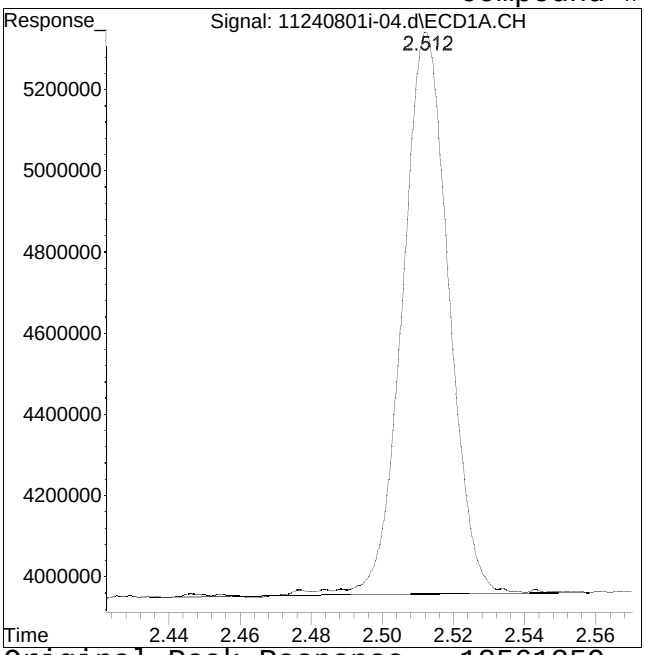


Original Peak Response = 11845362 Manual Peak Response = 11613870 M4
M4 = Poor automated baseline construction.

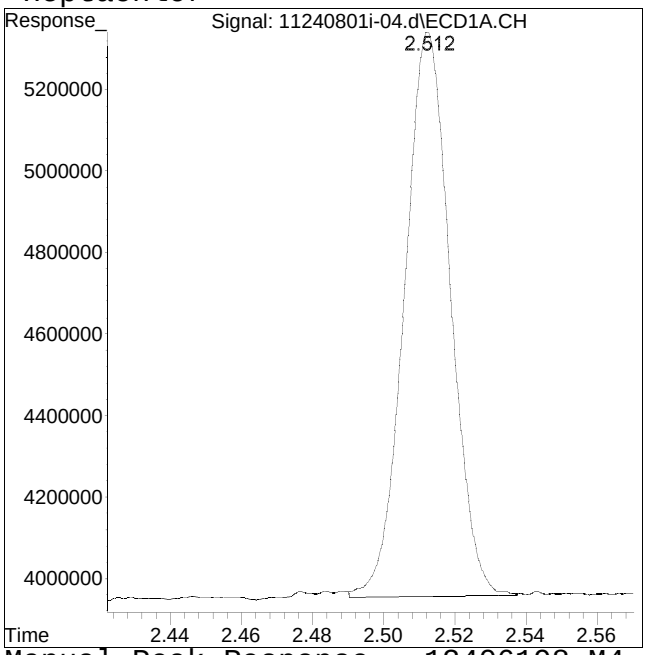
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #8: Heptachlor



Original Peak Response = 12561259



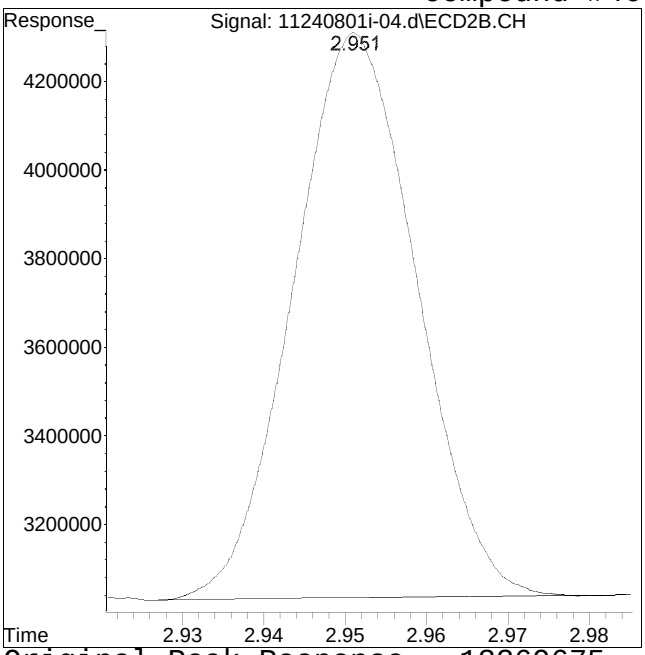
Manual Peak Response = 12406198 M4

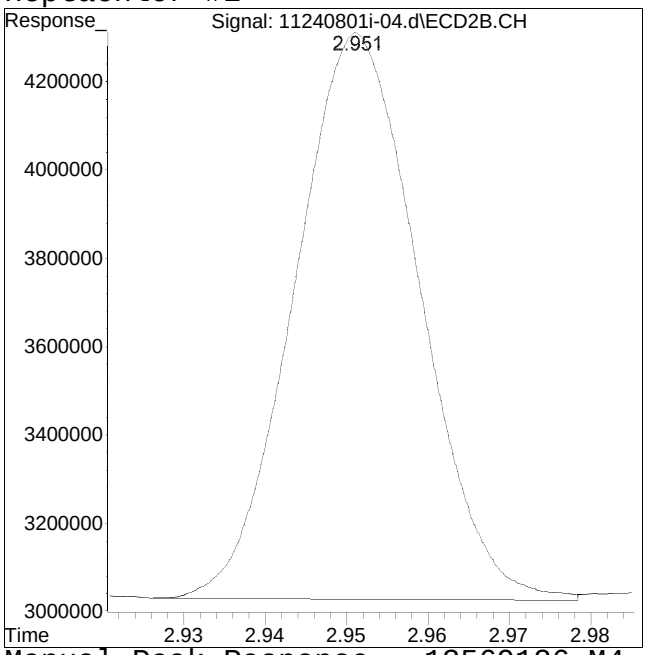
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #46: Heptachlor #2





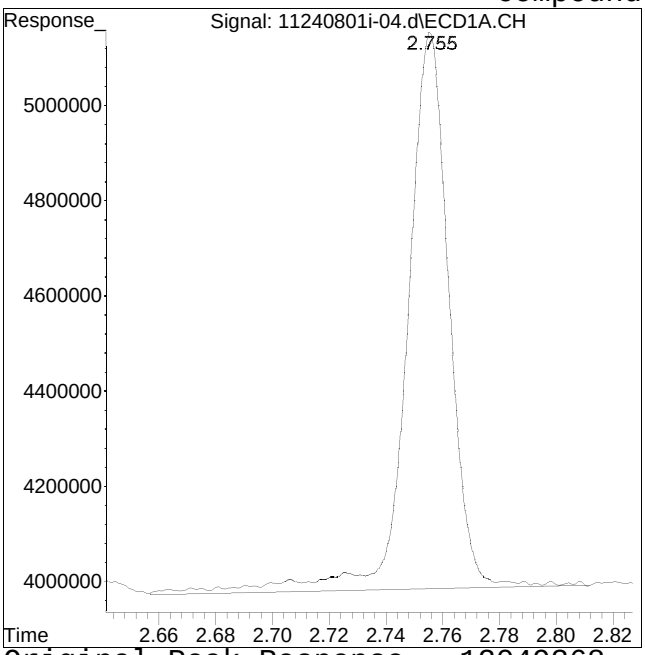
Original Peak Response = 13369675 Manual Peak Response = 13569126 M4
M4 = Poor automated baseline construction.

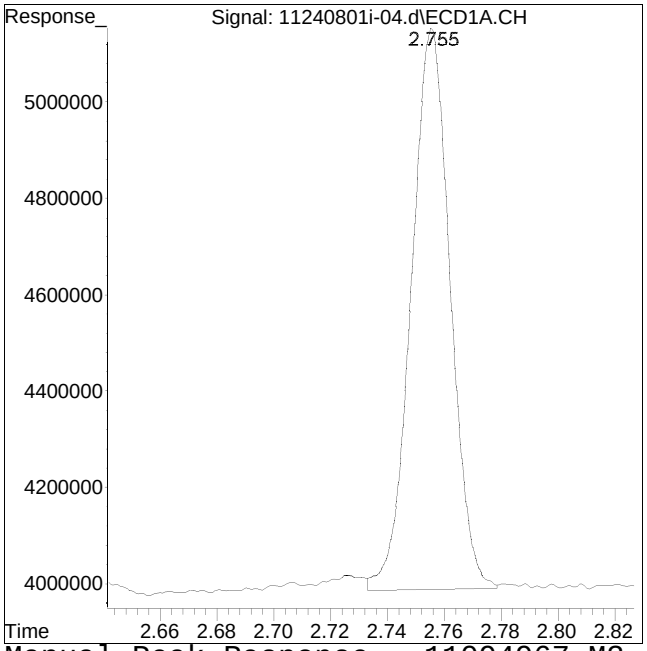
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #9: Aldrin





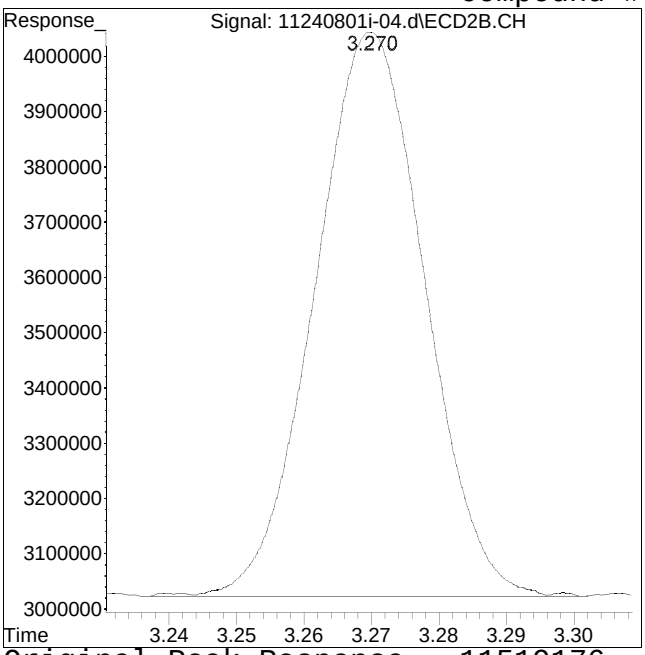
Original Peak Response = 12049368 Manual Peak Response = 11094967 M3

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

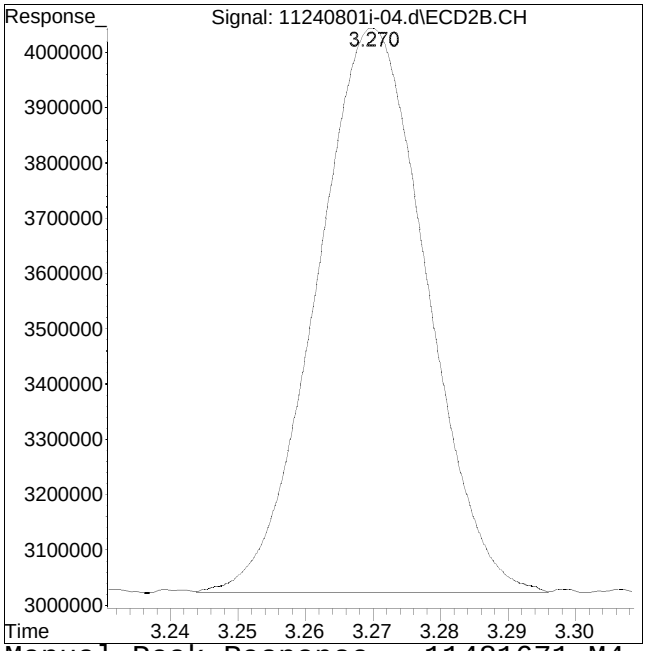
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #47: Aldrin #2



Original Peak Response = 11519176



Manual Peak Response = 11481671 M4

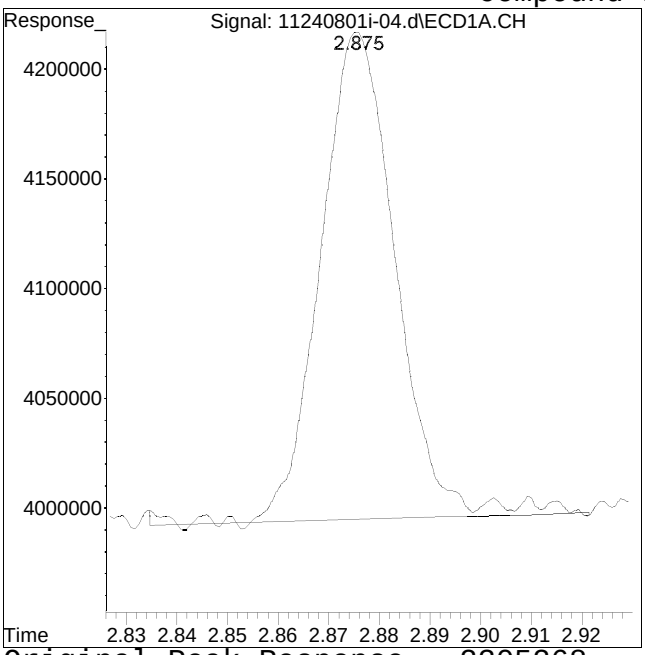
M4 = Poor automated baseline construction.

Manual Integration Report

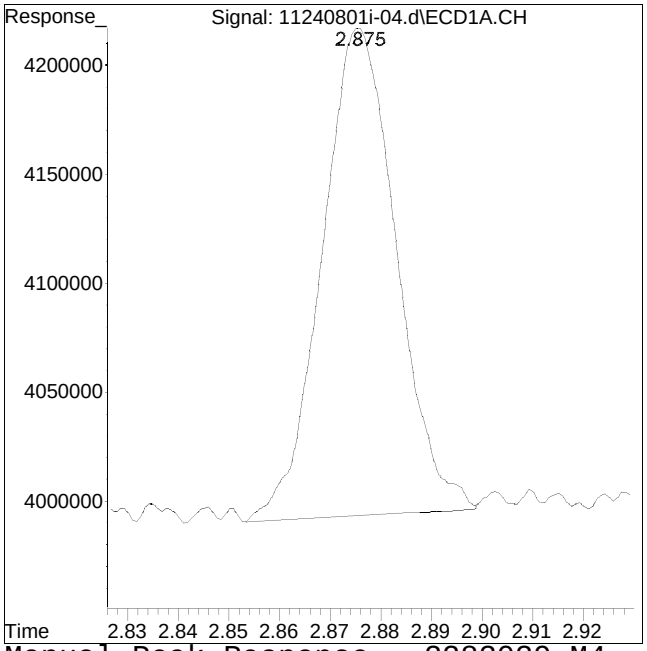
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #10: Alachlor



Original Peak Response = 2305268



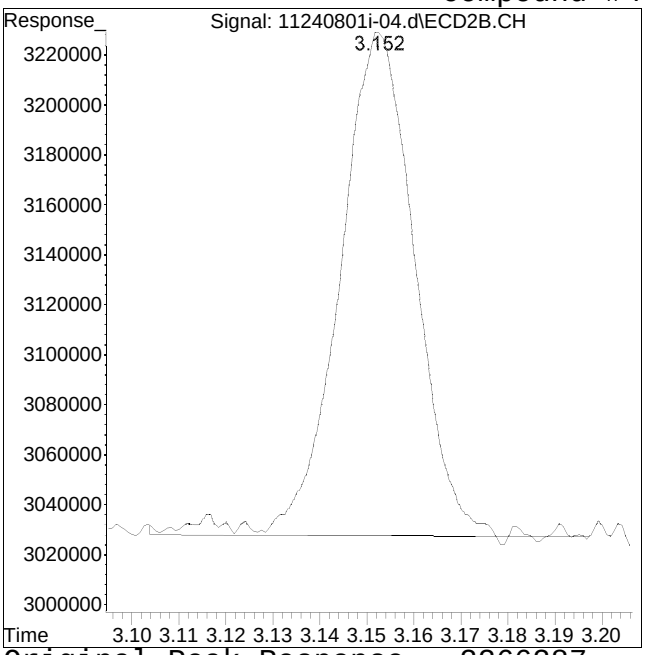
Manual Peak Response = 2283039 M4

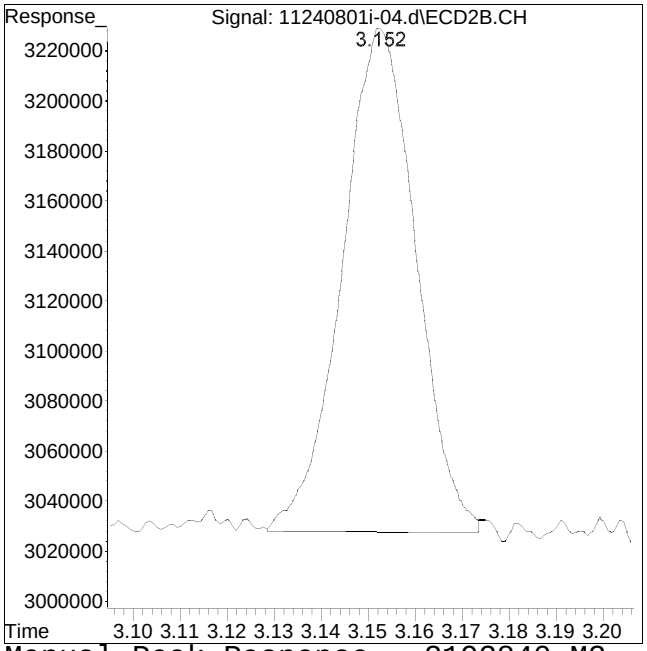
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #48: Alachlor #2



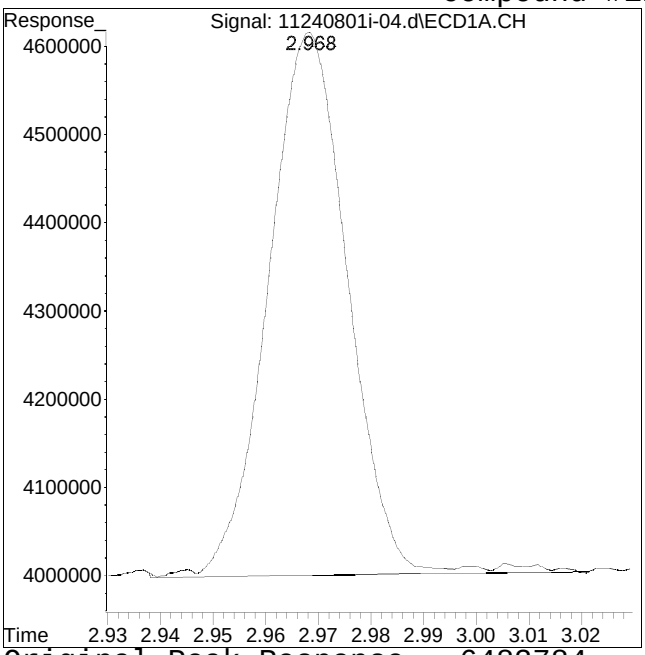


Original Peak Response = 2266287 Manual Peak Response = 2193840 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

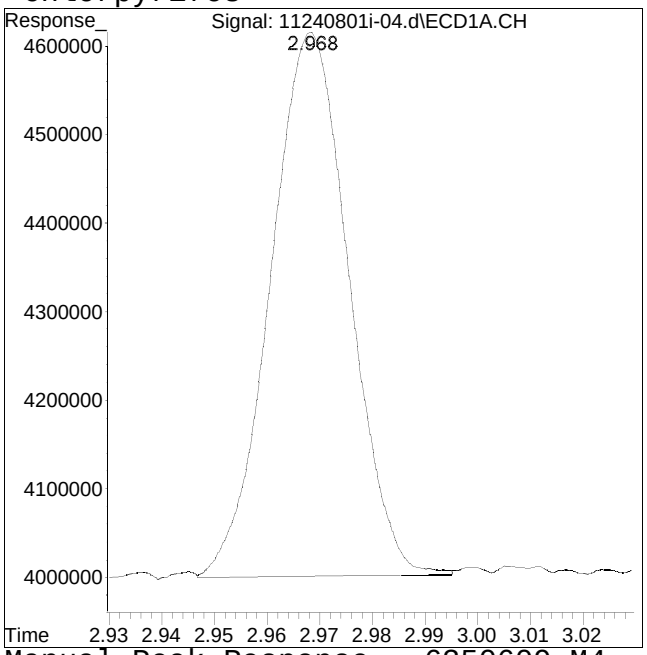
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #11: Chlorpyrifos



Original Peak Response = 6483784



Manual Peak Response = 6350609 M4

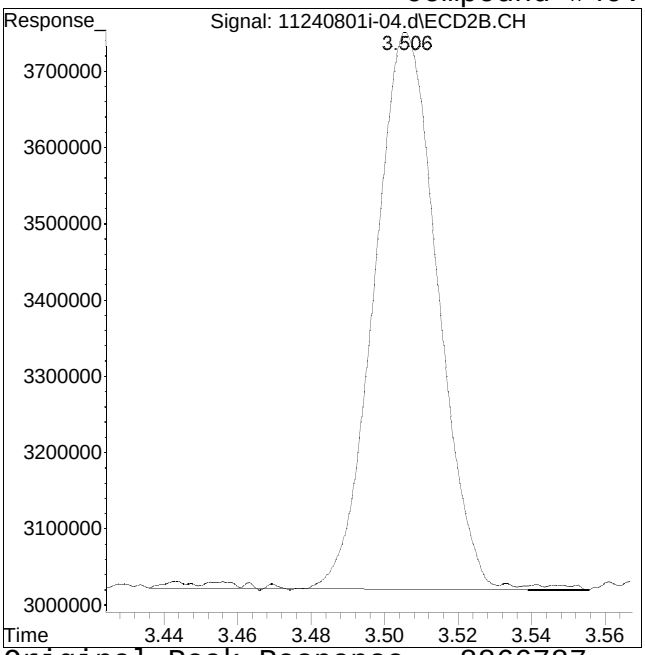
M4 = Poor automated baseline construction.

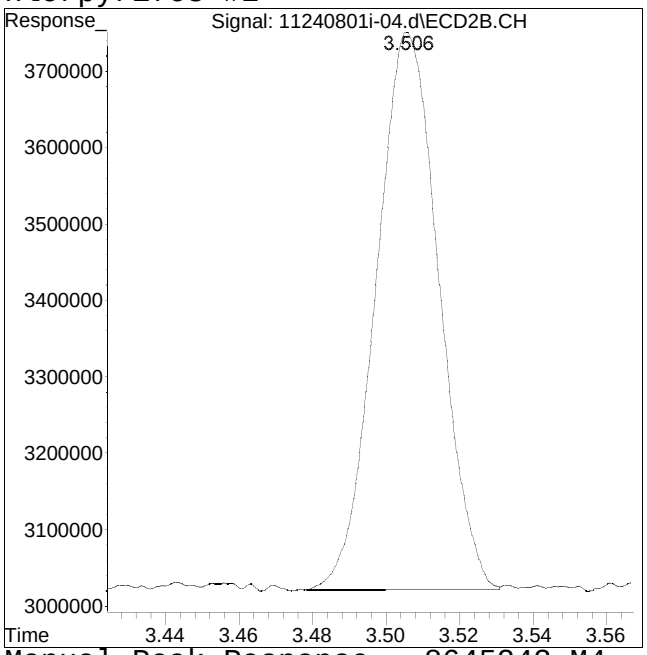
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #49: Chlorpyrifos #2





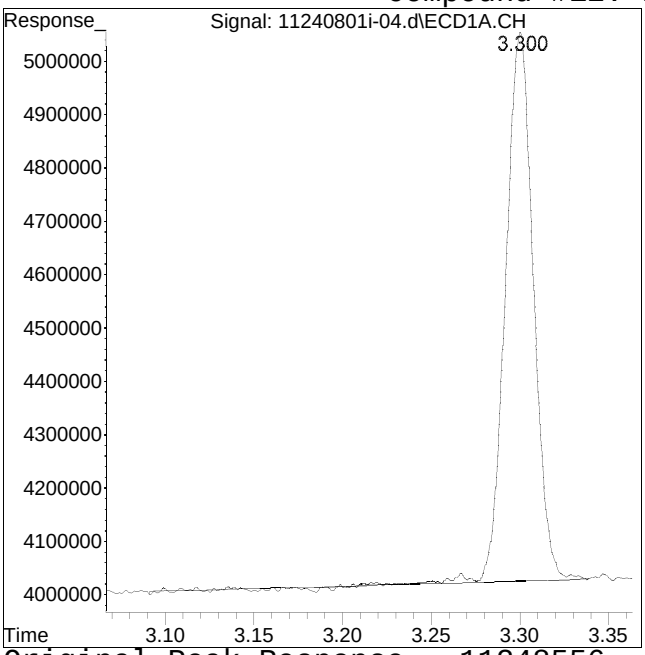
Original Peak Response = 8866787 Manual Peak Response = 8645243 M4

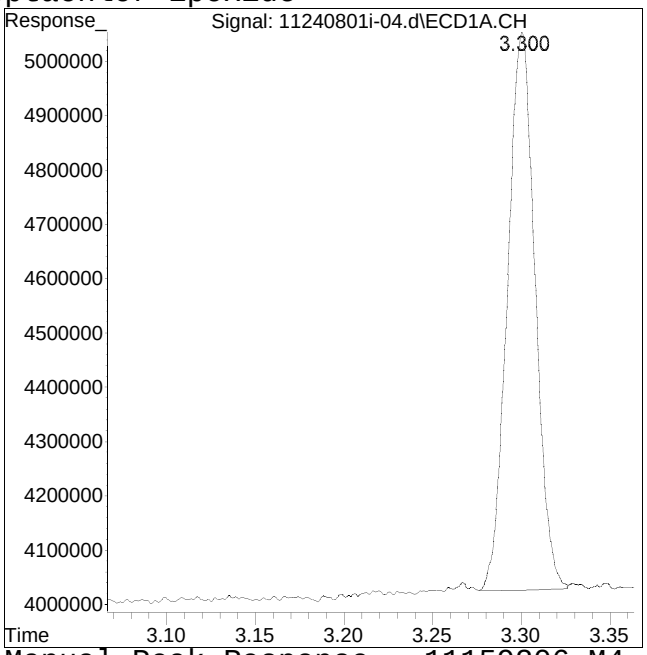
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #12: Heptachlor Epoxide





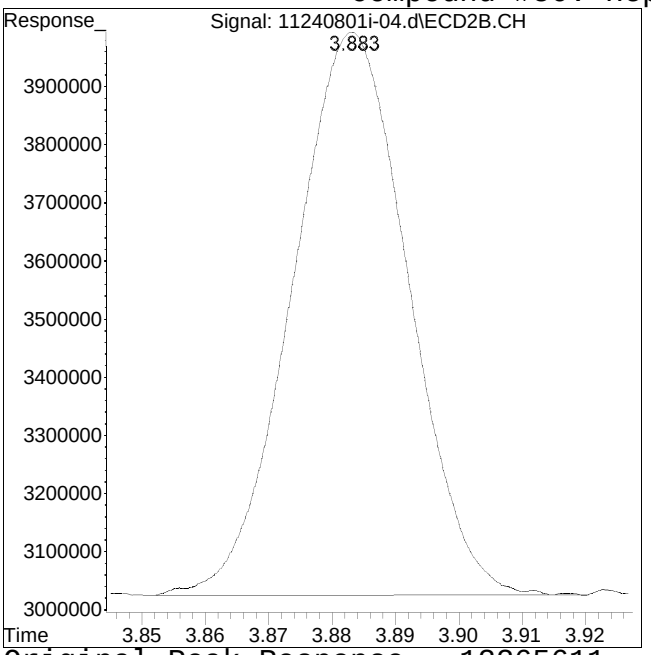
Original Peak Response = 11248556 Manual Peak Response = 11159206 M4
M4 = Poor automated baseline construction.

Manual Integration Report

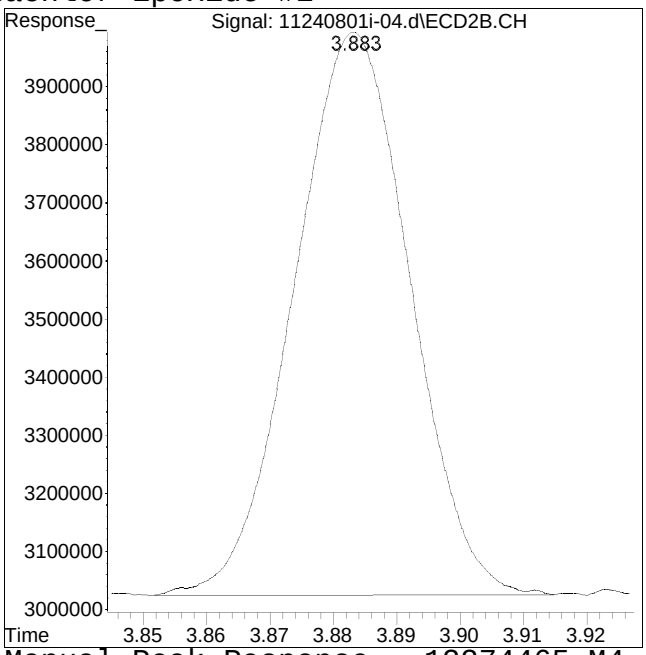
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 12265611



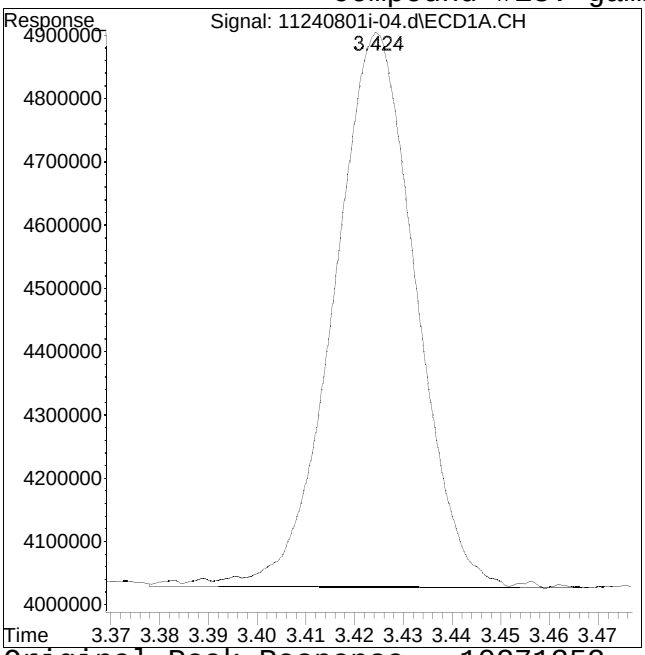
Manual Peak Response = 12274465 M4

M4 = Poor automated baseline construction.

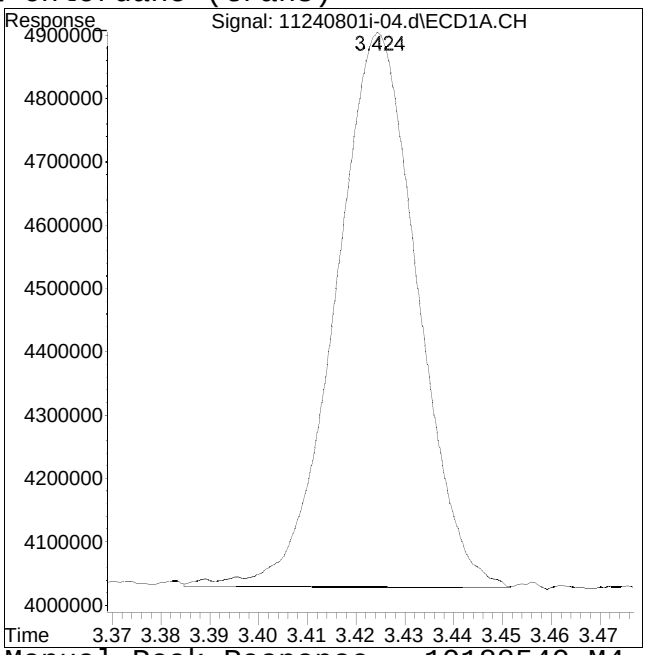
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 10271352



Manual Peak Response = 10188540 M4

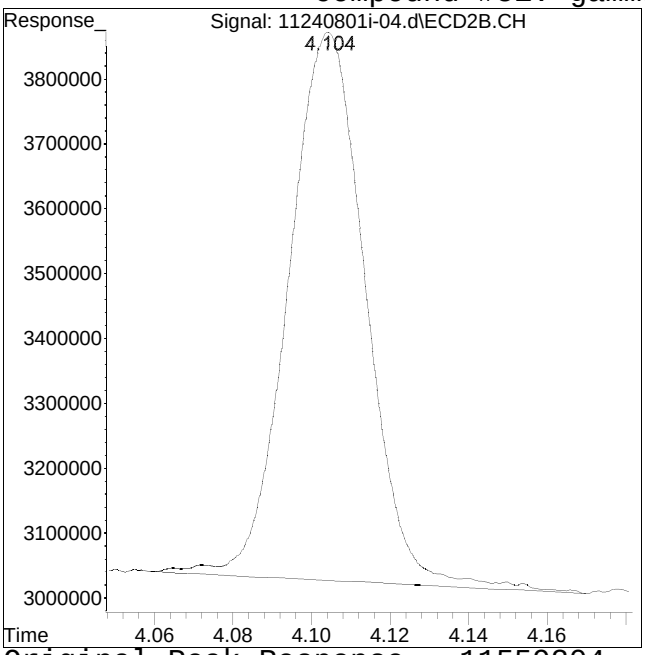
M4 = Poor automated baseline construction.

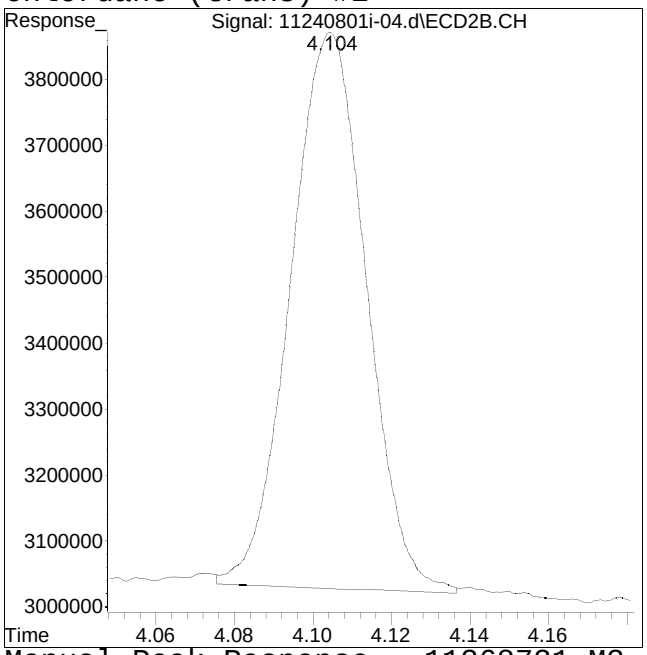
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #51: gamma-Chlordane (trans) #2





Original Peak Response = 11559204 Manual Peak Response = 11268731 M3

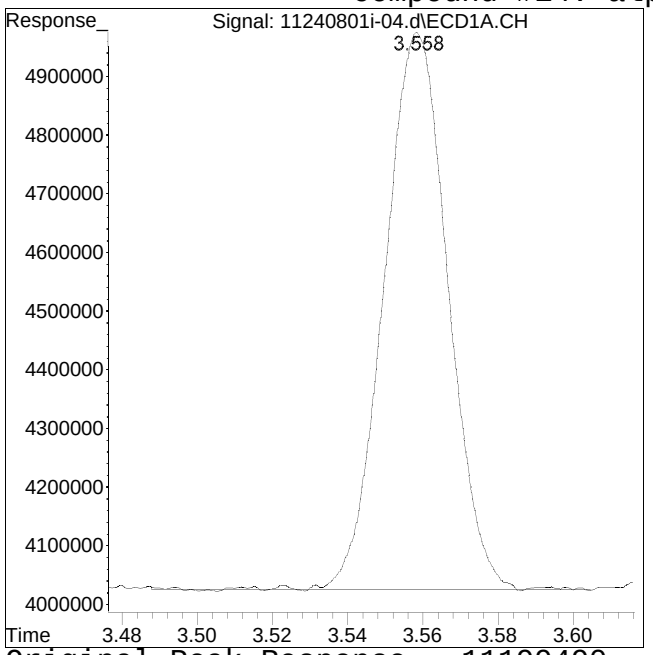
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

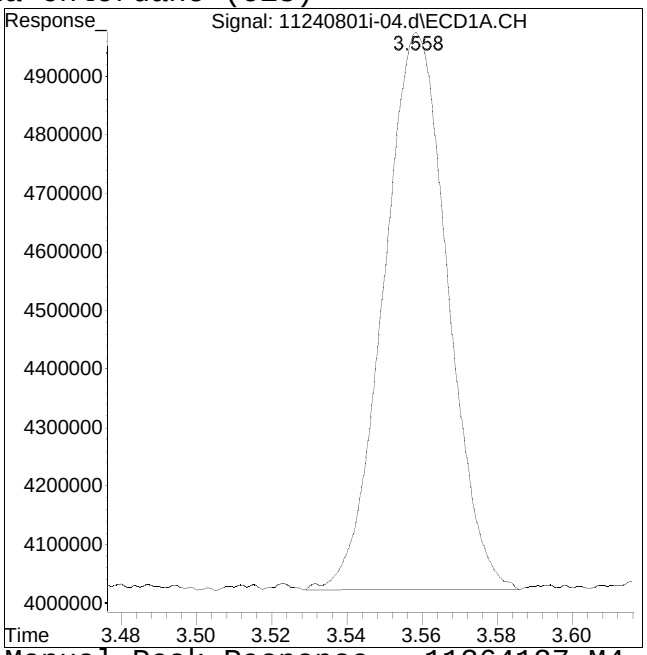
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 11199490



Manual Peak Response = 11264127 M4

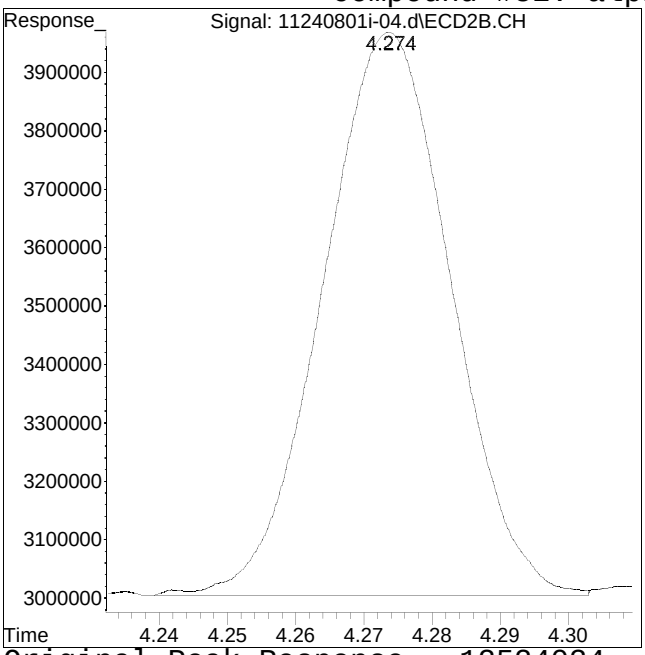
M4 = Poor automated baseline construction.

Manual Integration Report

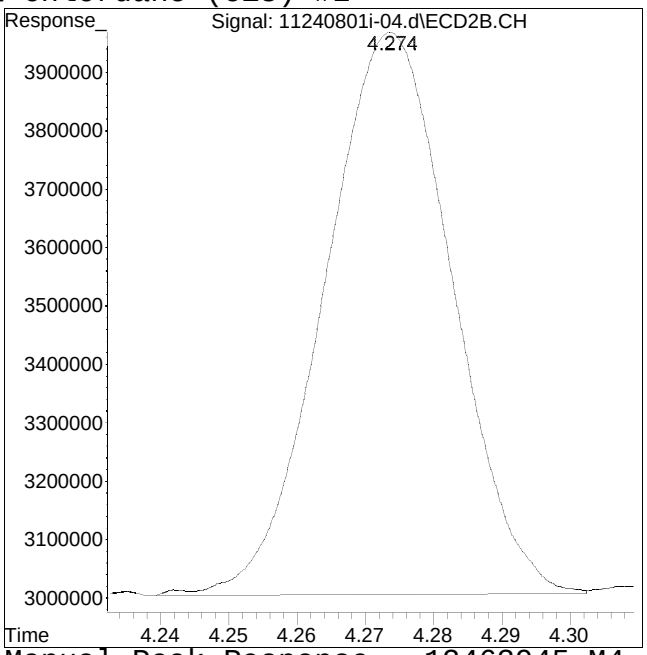
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 12524034



Manual Peak Response = 12463945 M4

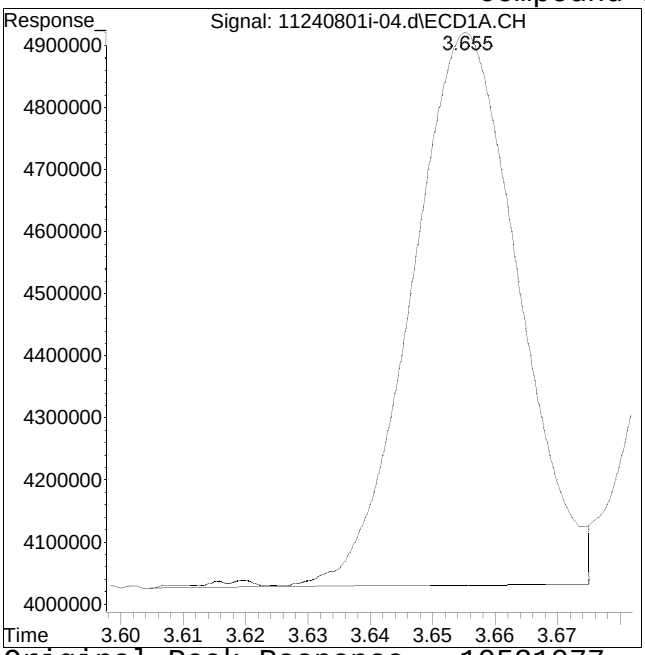
M4 = Poor automated baseline construction.

Manual Integration Report

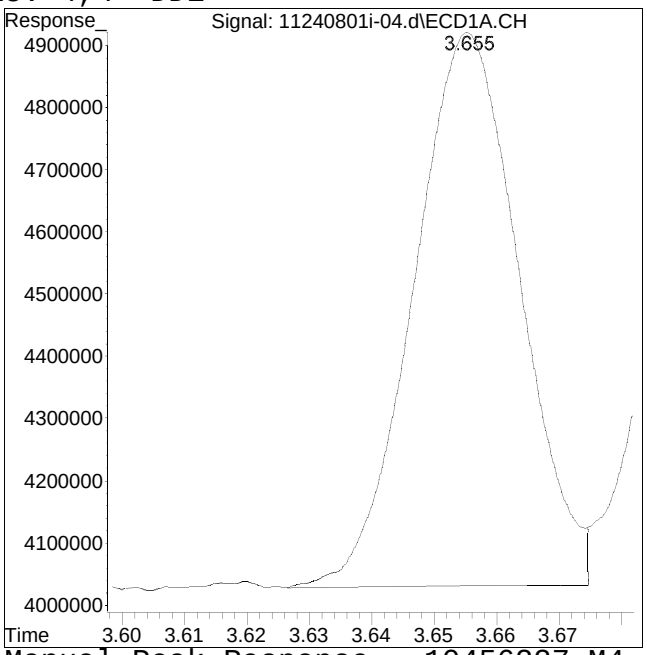
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #15: 4,4'-DDE



Original Peak Response = 10531077



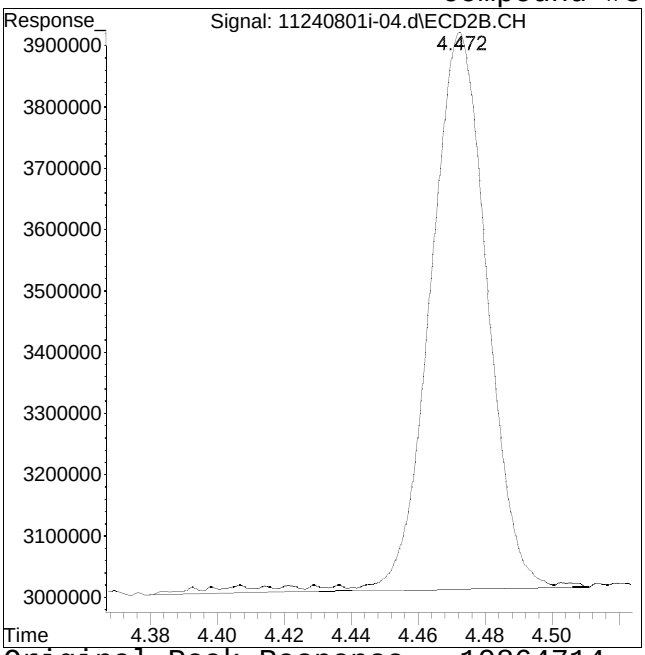
Manual Peak Response = 10456227 M4

M4 = Poor automated baseline construction.

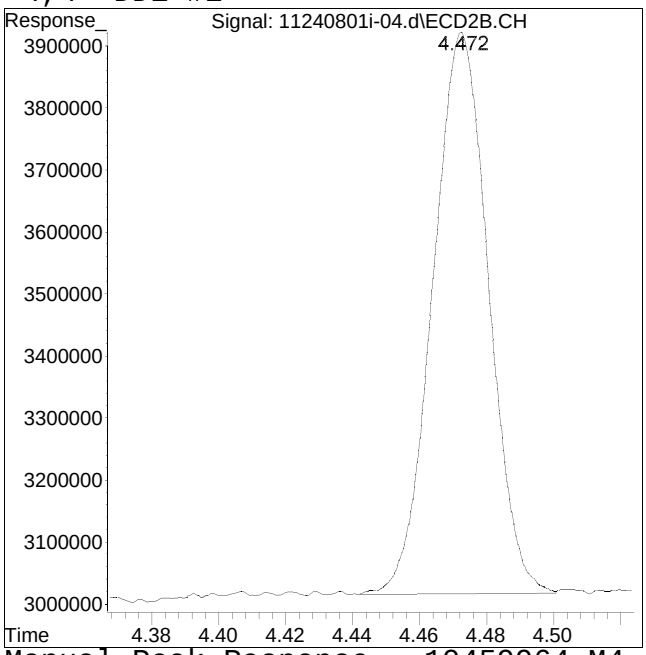
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 10864714



Manual Peak Response = 10459964 M4

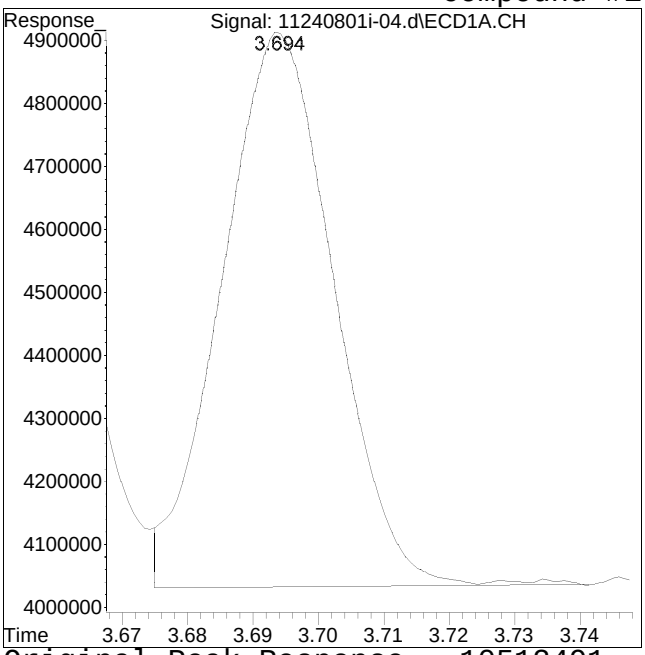
M4 = Poor automated baseline construction.

Manual Integration Report

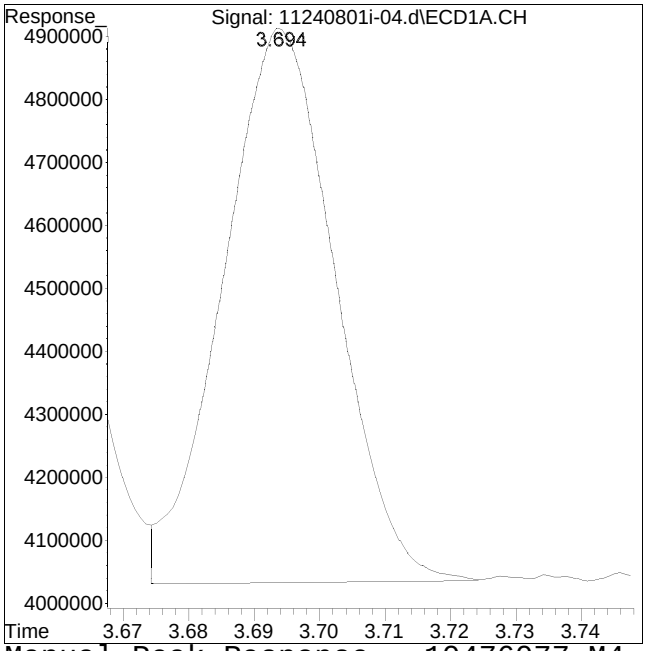
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #16: Endosulfan I



Original Peak Response = 10512491



Manual Peak Response = 10476077 M4

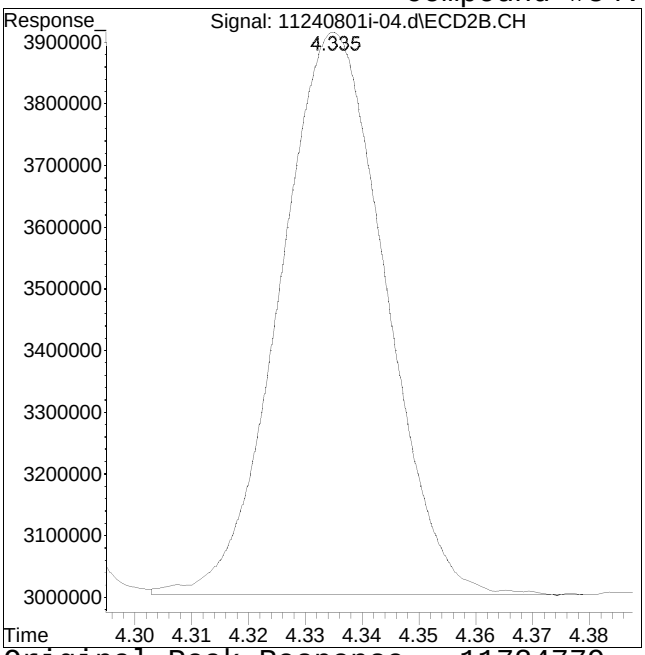
M4 = Poor automated baseline construction.

Manual Integration Report

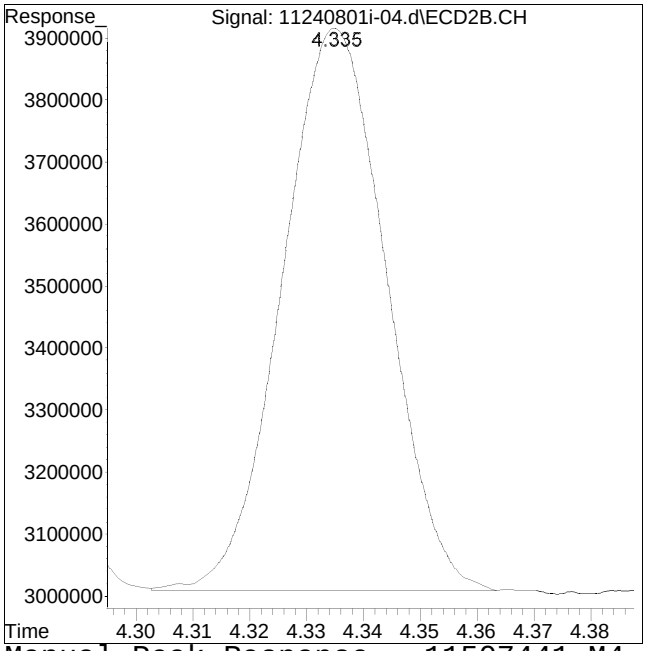
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #54: Endosulfan I #2



Original Peak Response = 11724779



Manual Peak Response = 11507441 M4

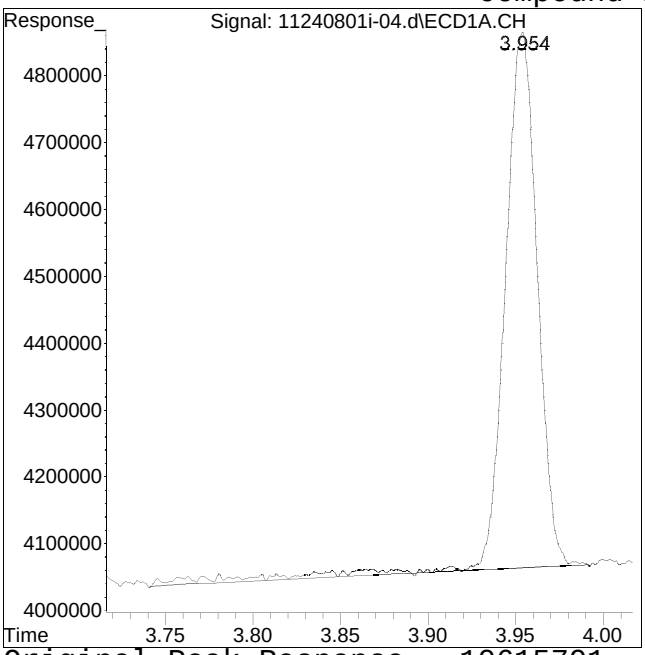
M4 = Poor automated baseline construction.

Manual Integration Report

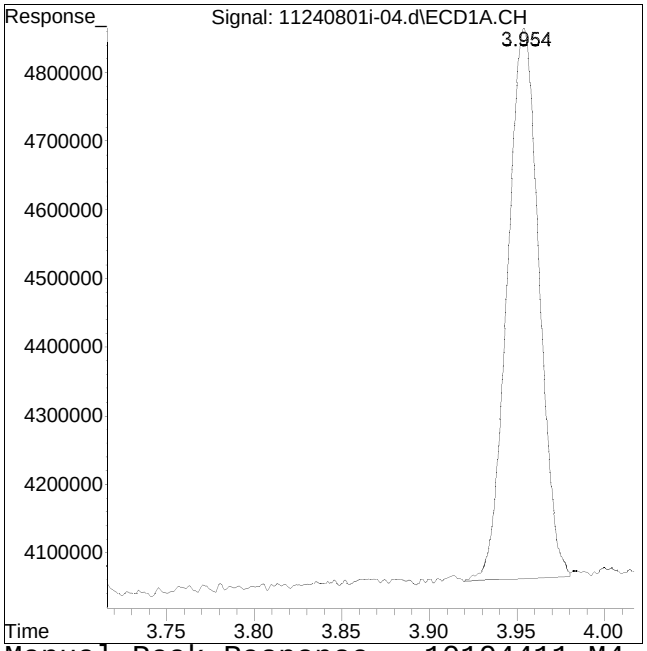
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #17: Dieldrin



Original Peak Response = 10615791



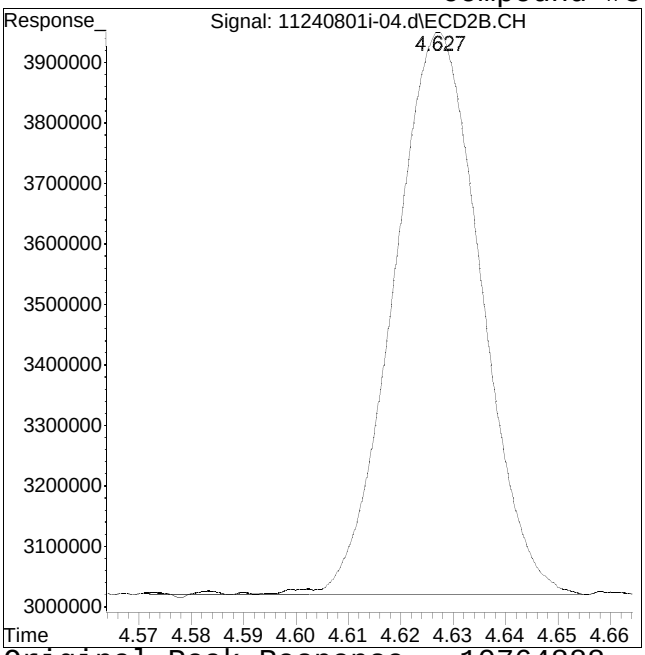
Manual Peak Response = 10104411 M4

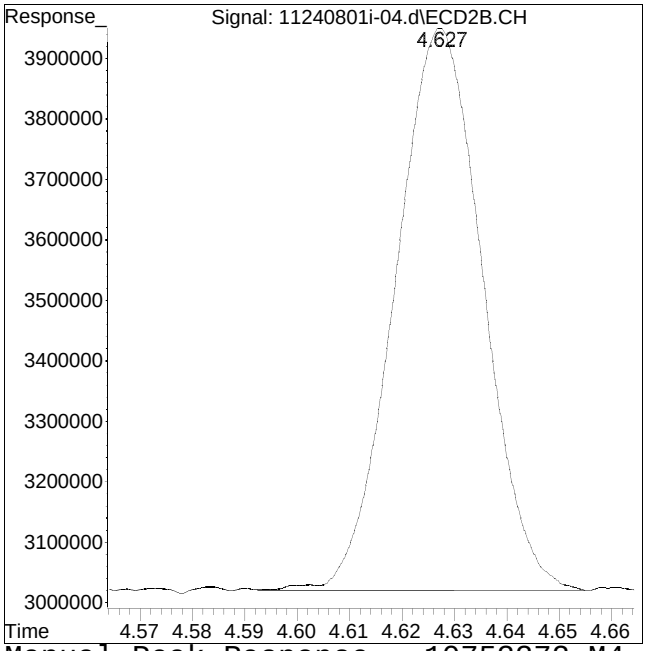
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #55: Dieldrin #2





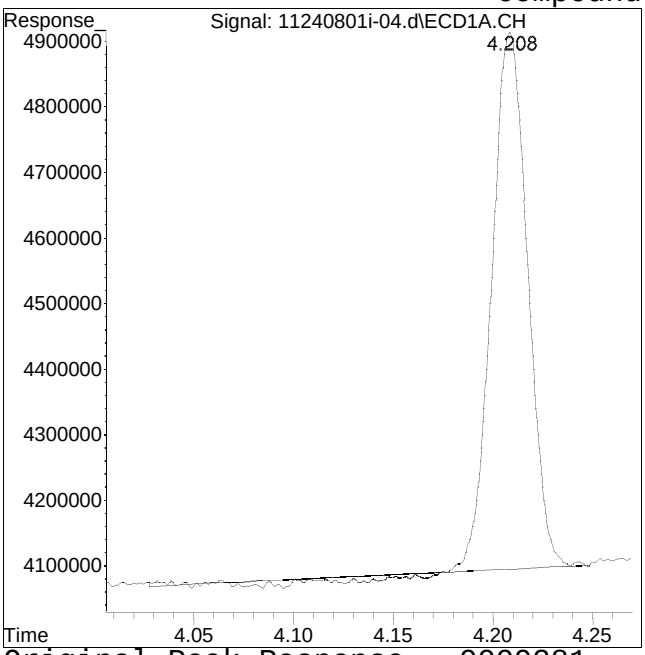
Original Peak Response = 10764888 Manual Peak Response = 10753372 M4
M4 = Poor automated baseline construction.

Manual Integration Report

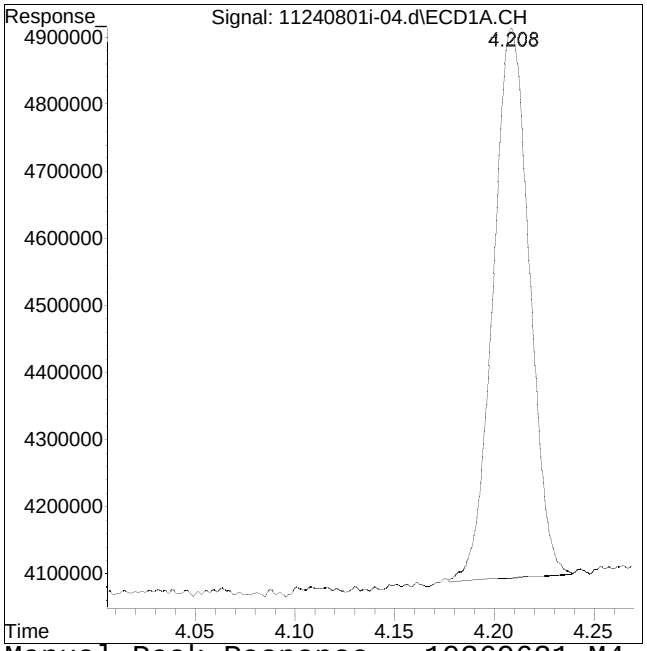
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #18: Endrin



Original Peak Response = 9999281



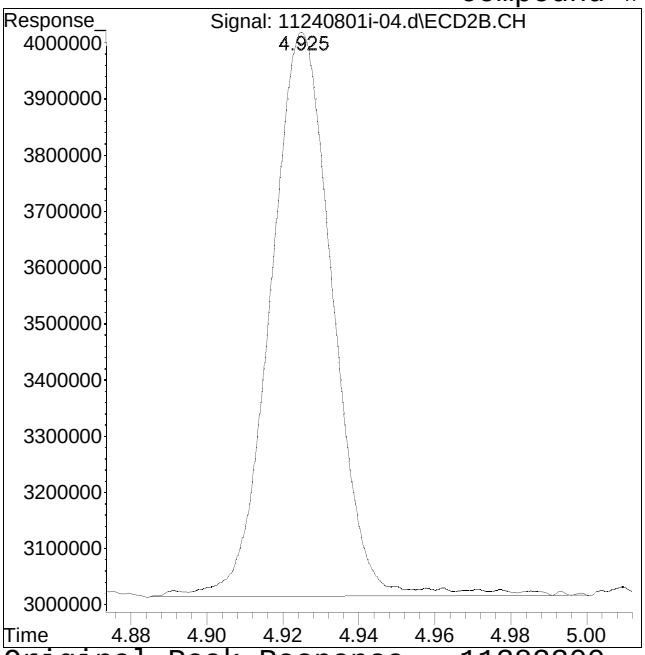
Manual Peak Response = 10369621 M4

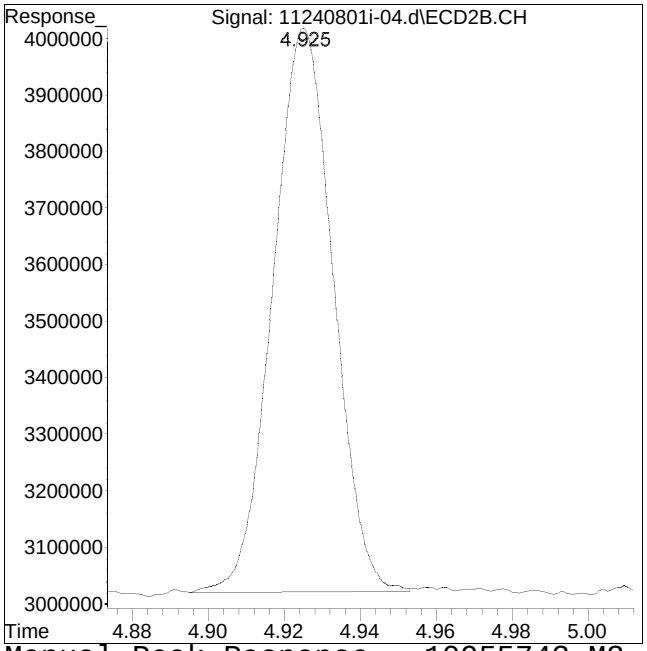
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0 Quant Date : 8/2/2024 11:23 am

Compound #56: Endrin #2





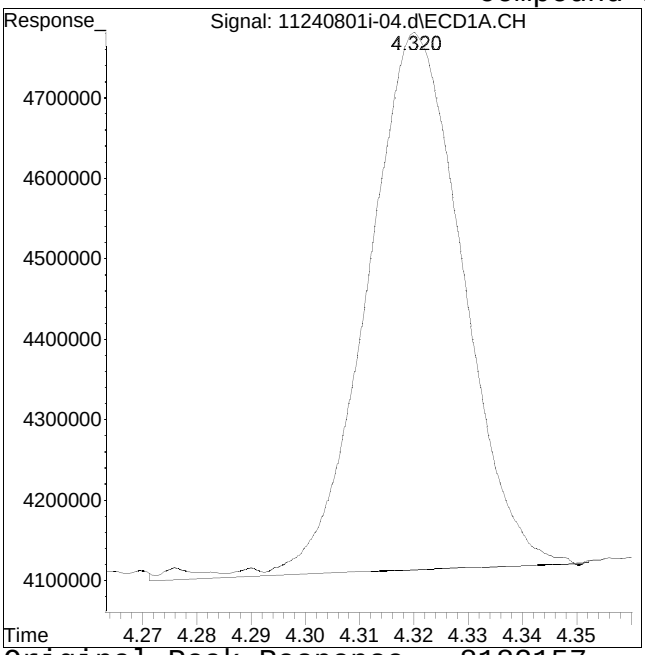
Original Peak Response = 11383300 Manual Peak Response = 10955743 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

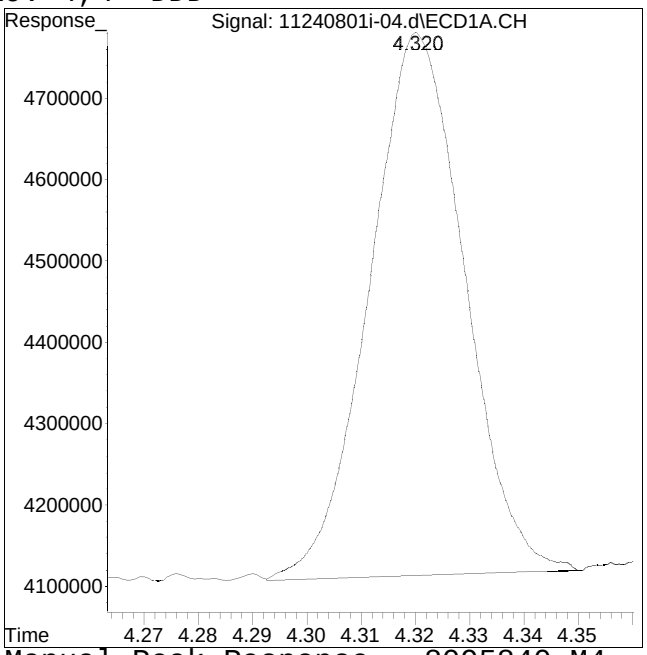
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #19: 4,4'-DDD



Original Peak Response = 8182157



Manual Peak Response = 8095840 M4

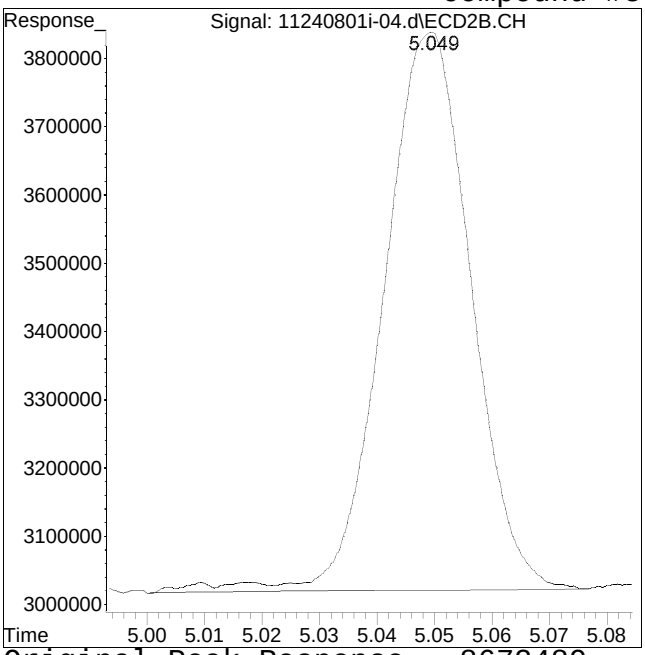
M4 = Poor automated baseline construction.

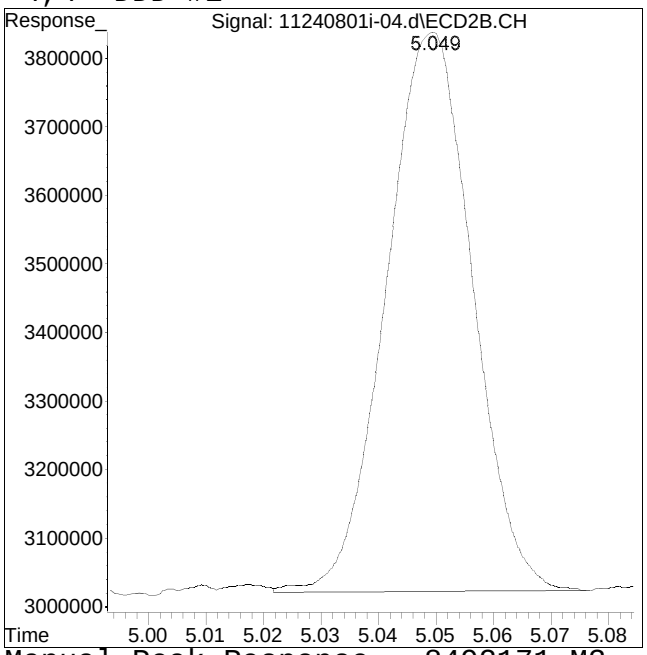
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #57: 4,4'-DDD #2





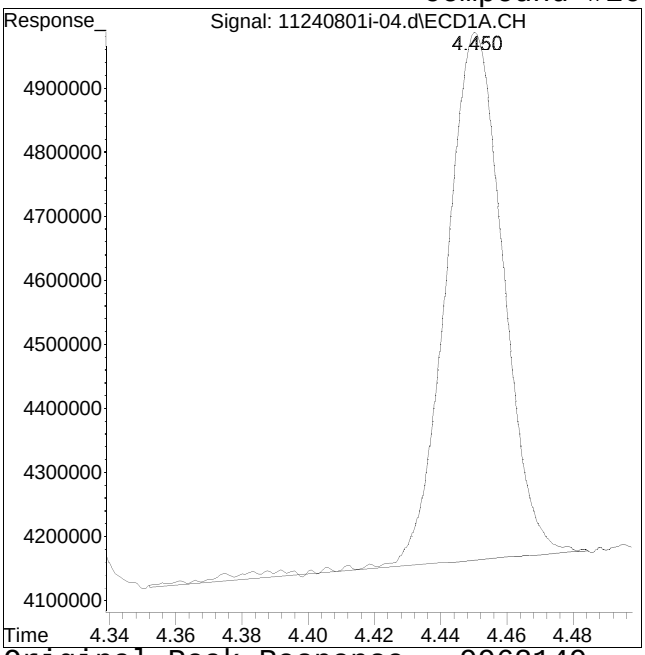
Original Peak Response = 8672489 Manual Peak Response = 8492171 M3

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

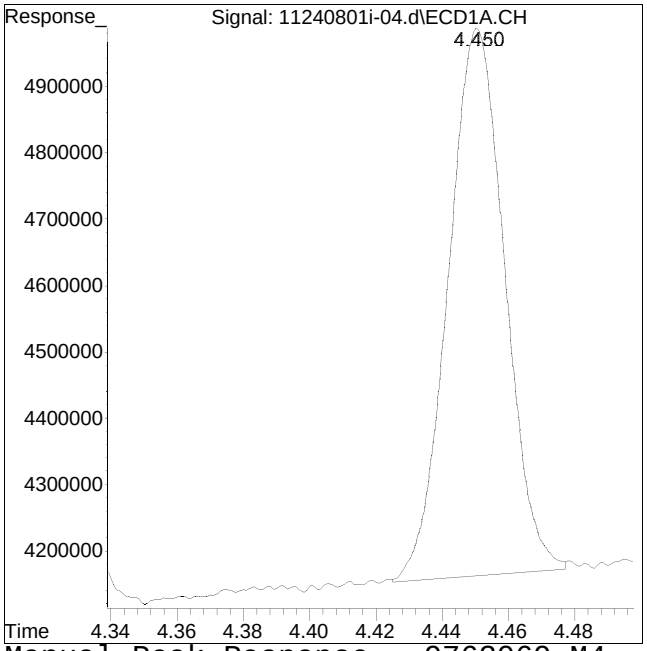
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #20: Endosulfan II



Original Peak Response = 9962149



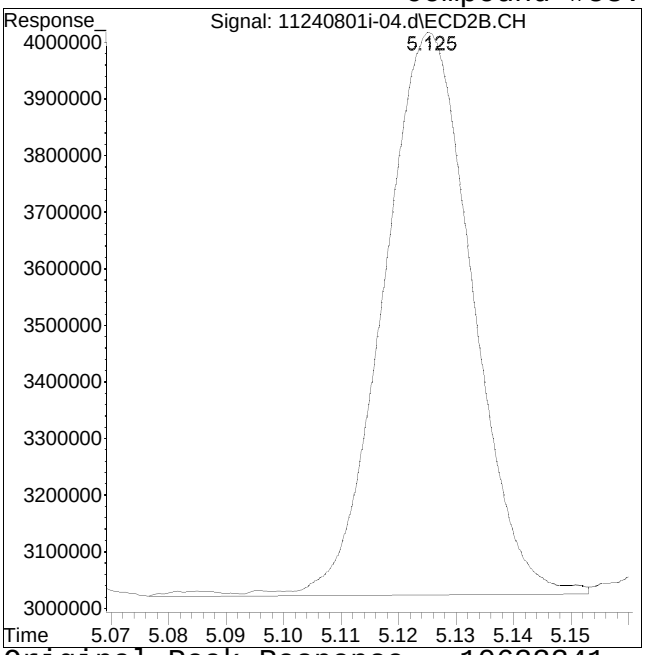
Manual Peak Response = 9763069 M4

M4 = Poor automated baseline construction.

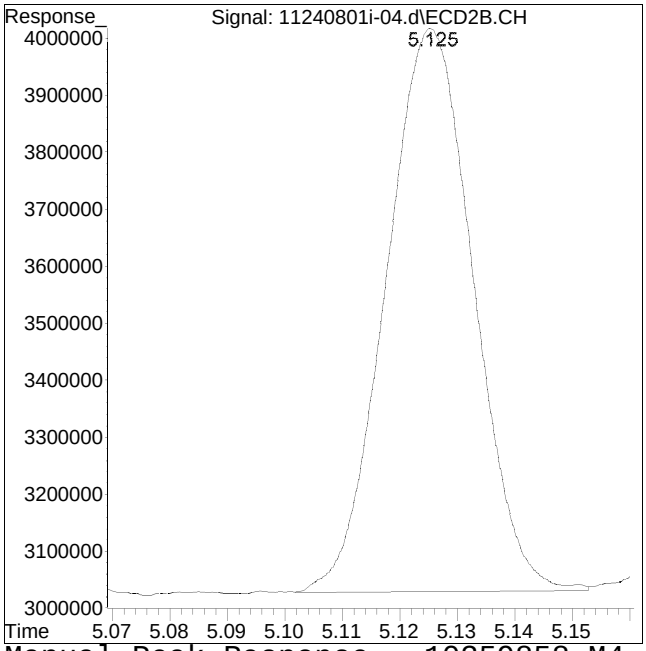
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #58: Endosulfan II #2



Original Peak Response = 10633341



Manual Peak Response = 10359858 M4

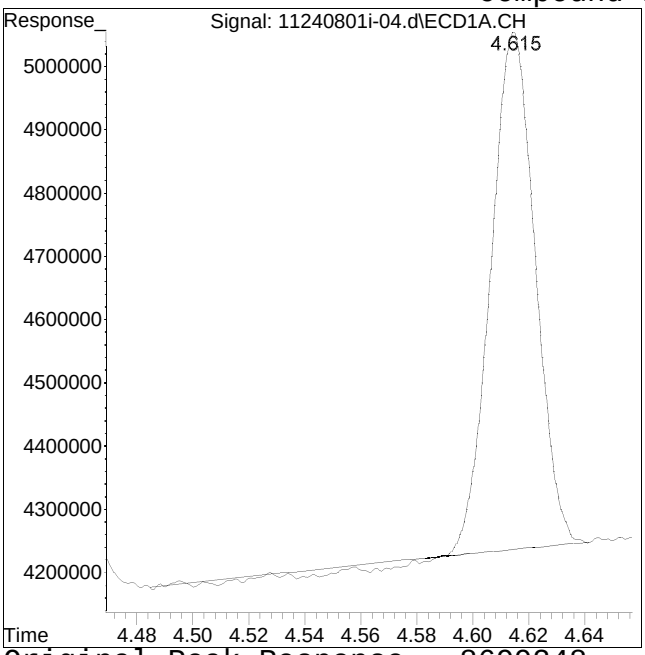
M4 = Poor automated baseline construction.

Manual Integration Report

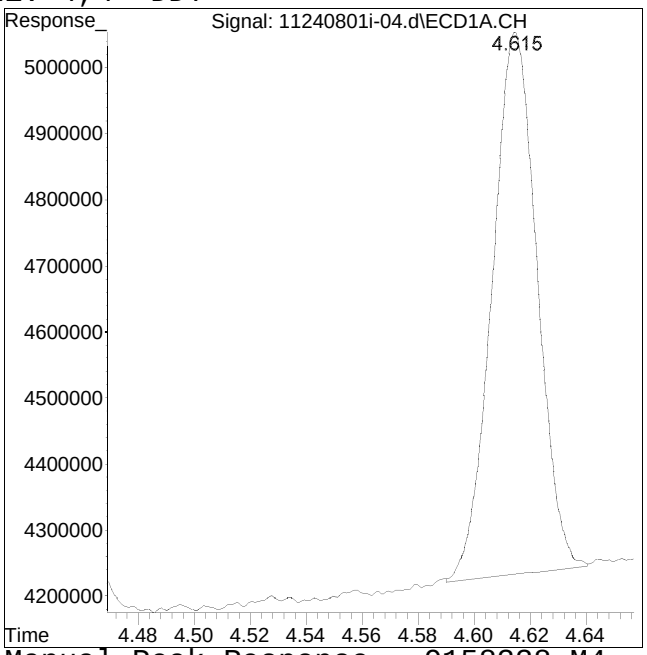
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #21: 4,4'-DDT



Original Peak Response = 8699248



Manual Peak Response = 9158338 M4

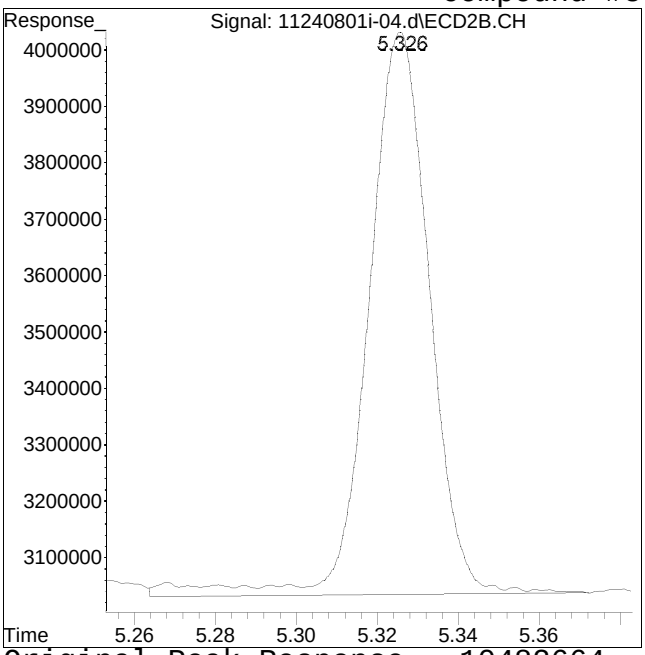
M4 = Poor automated baseline construction.

Manual Integration Report

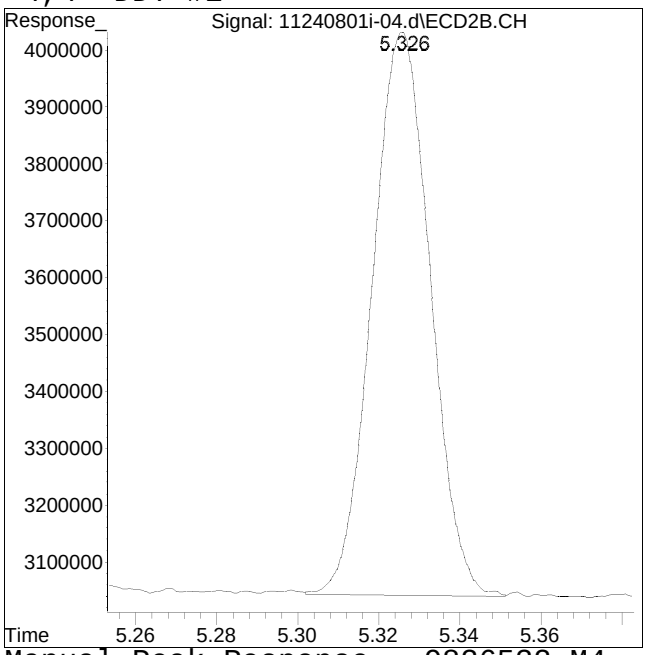
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 10482664



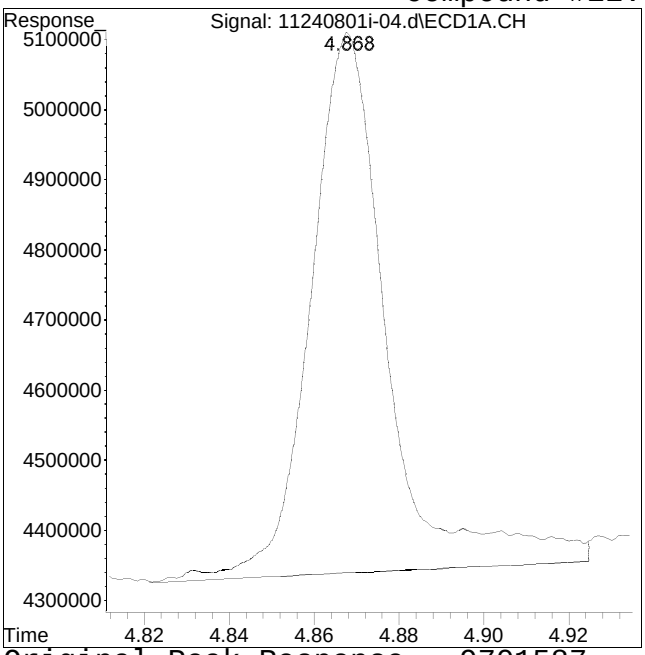
Manual Peak Response = 9826532 M4

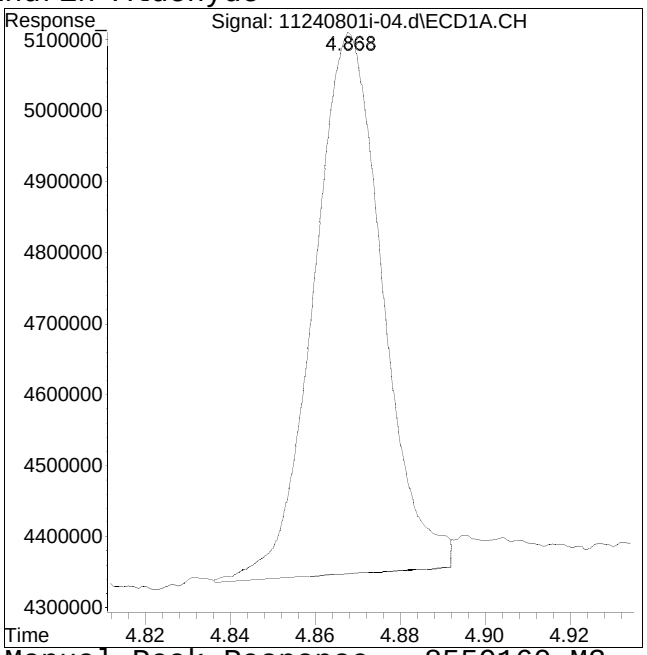
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #22: Endrin Aldehyde





Original Peak Response = 9701587 Manual Peak Response = 8559160 M3

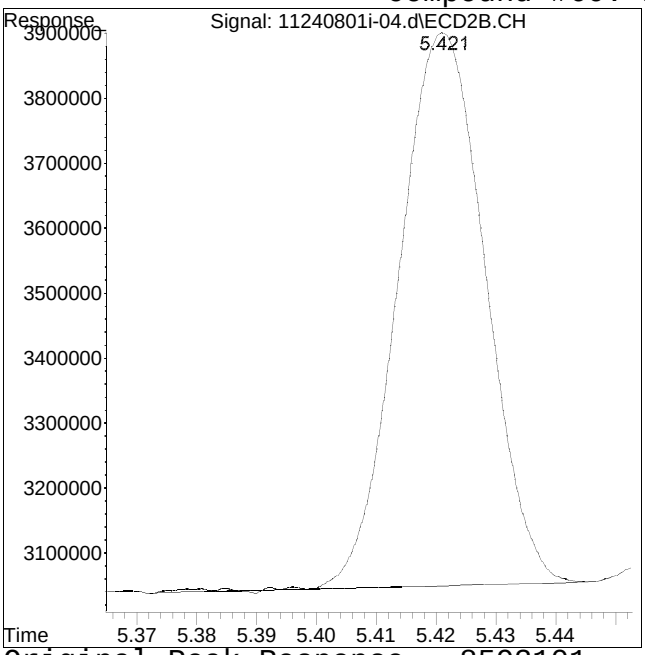
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

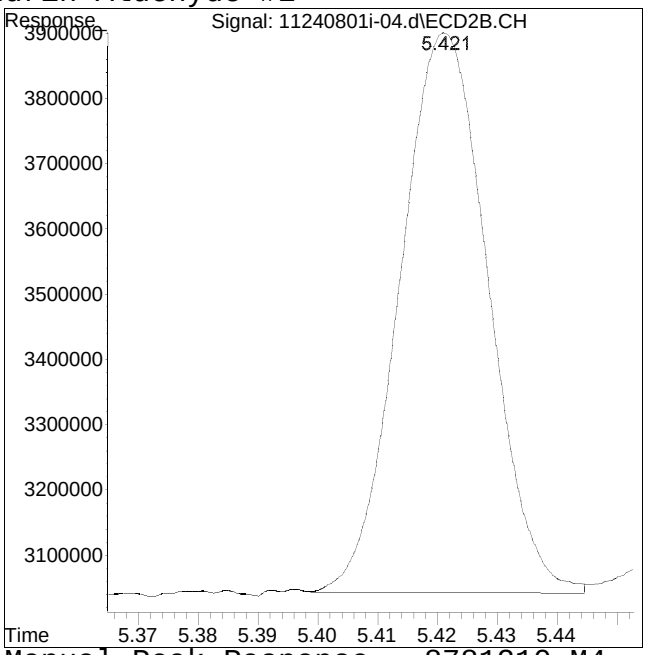
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 8593101



Manual Peak Response = 8781210 M4

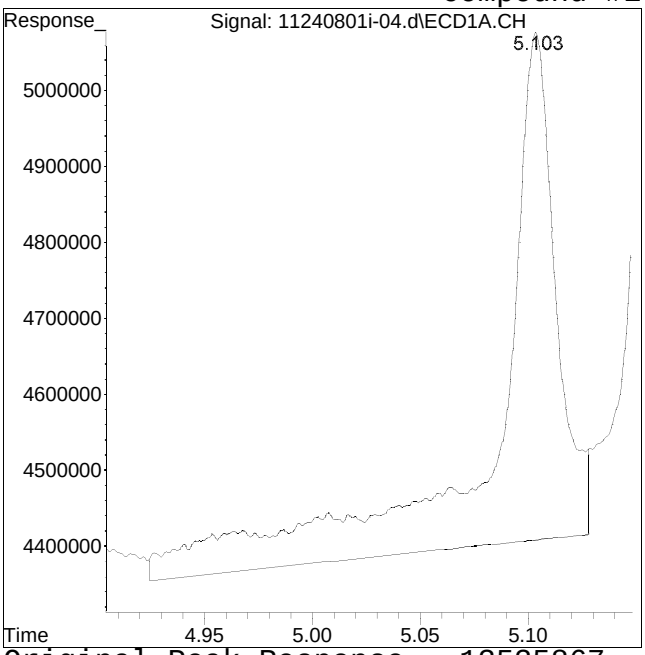
M4 = Poor automated baseline construction.

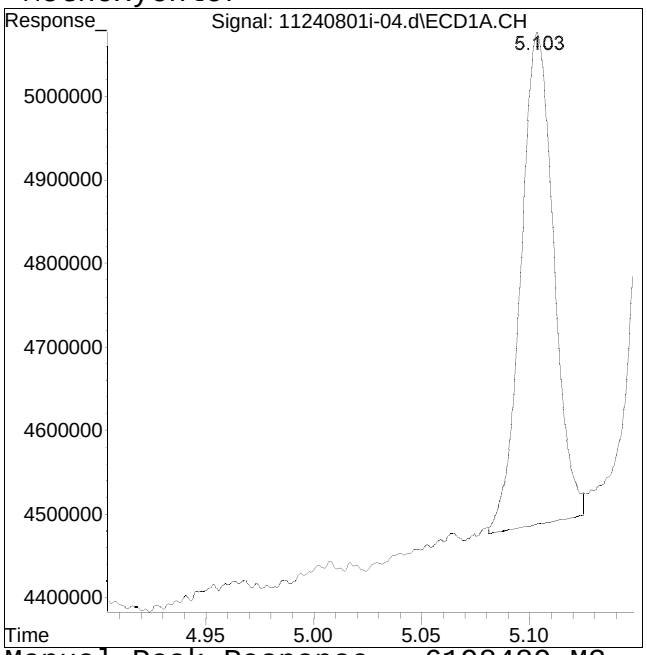
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #23: Methoxychlor





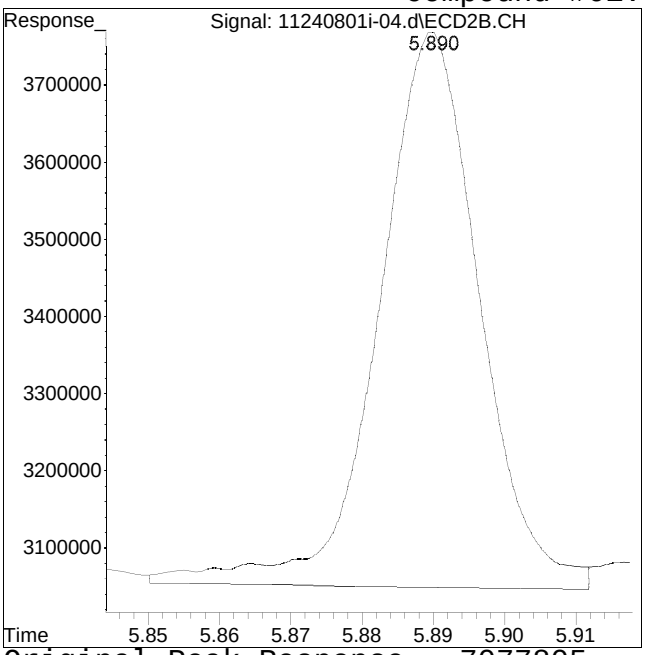
Original Peak Response = 13535867 Manual Peak Response = 6198489 M3

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

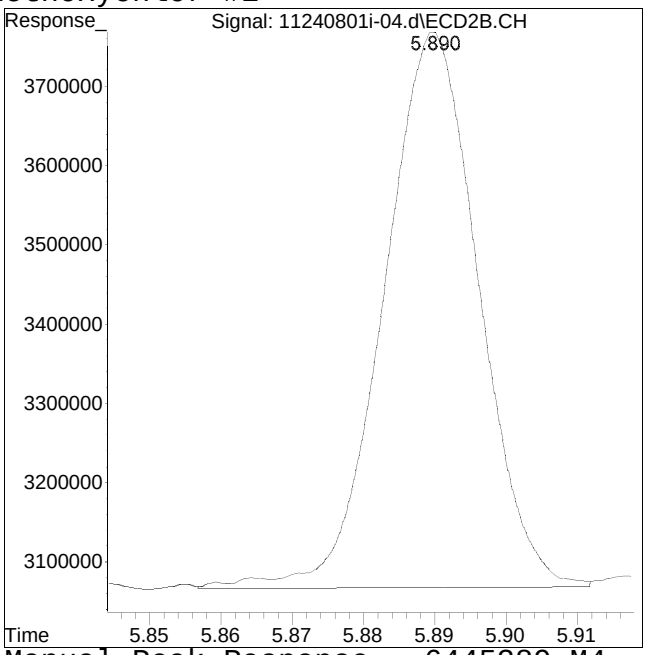
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #61: Methoxychlor #2



Original Peak Response = 7077805



Manual Peak Response = 6445389 M4

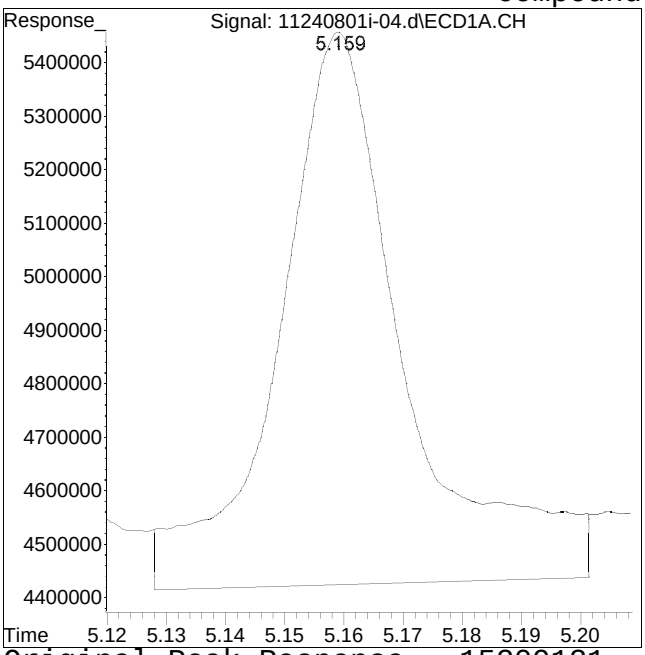
M4 = Poor automated baseline construction.

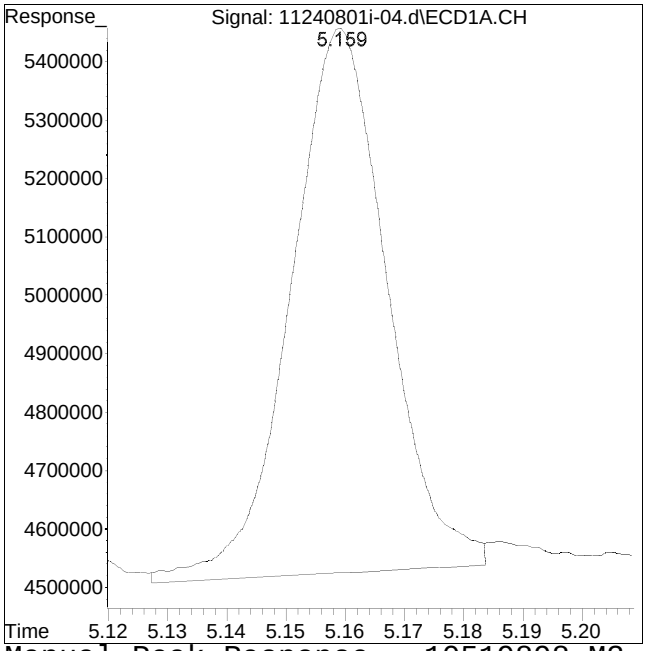
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #24: Mirex





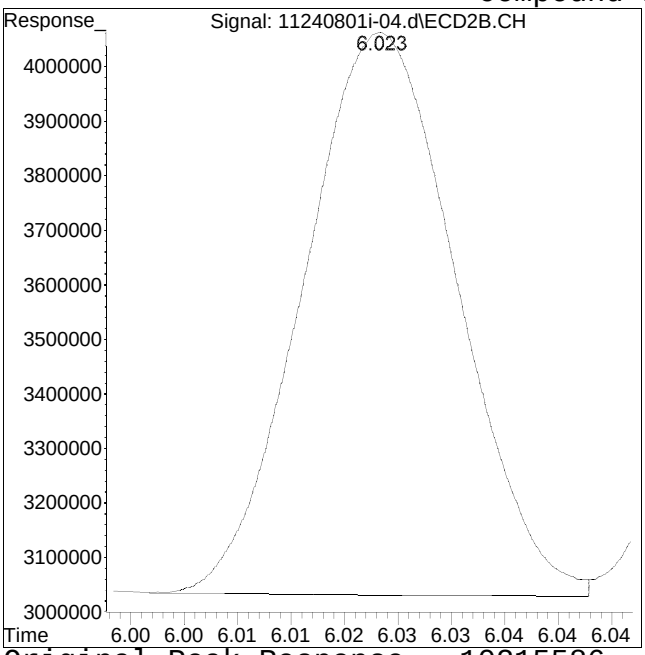
Original Peak Response = 15209131 Manual Peak Response = 10519898 M3

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

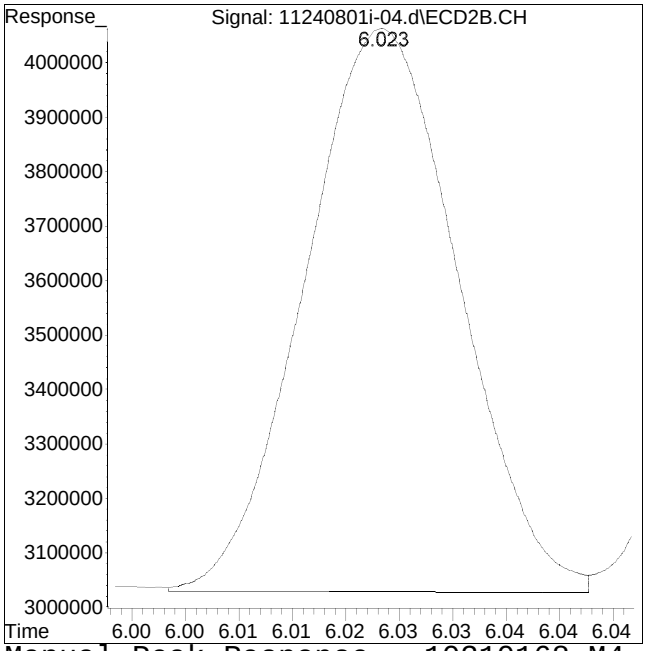
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #62: Mirex #2



Original Peak Response = 10215586



Manual Peak Response = 10310168 M4

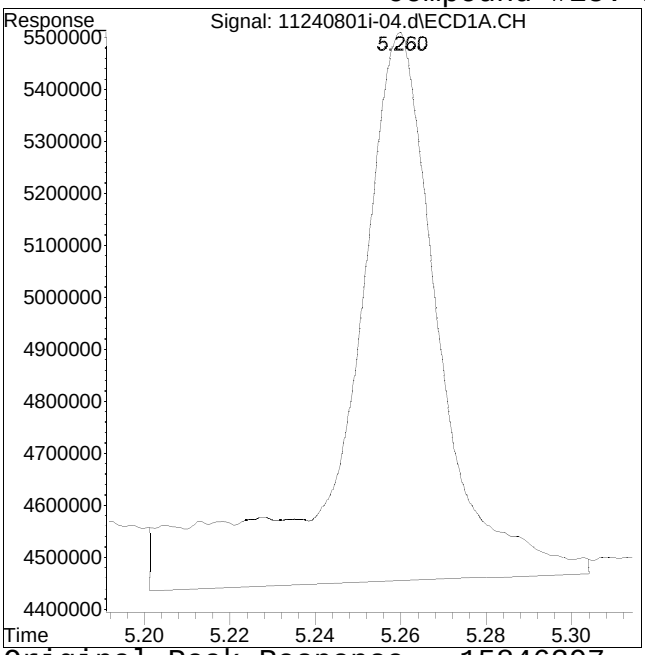
M4 = Poor automated baseline construction.

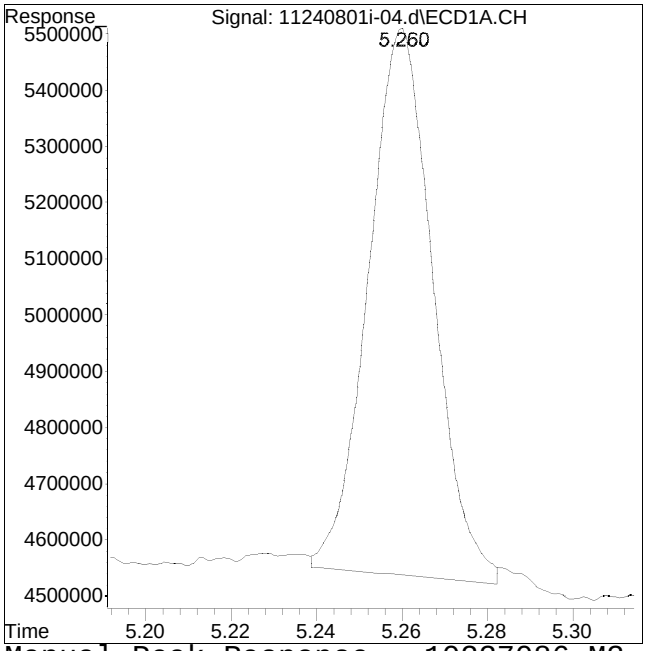
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #25: Endosulfan Sulfate





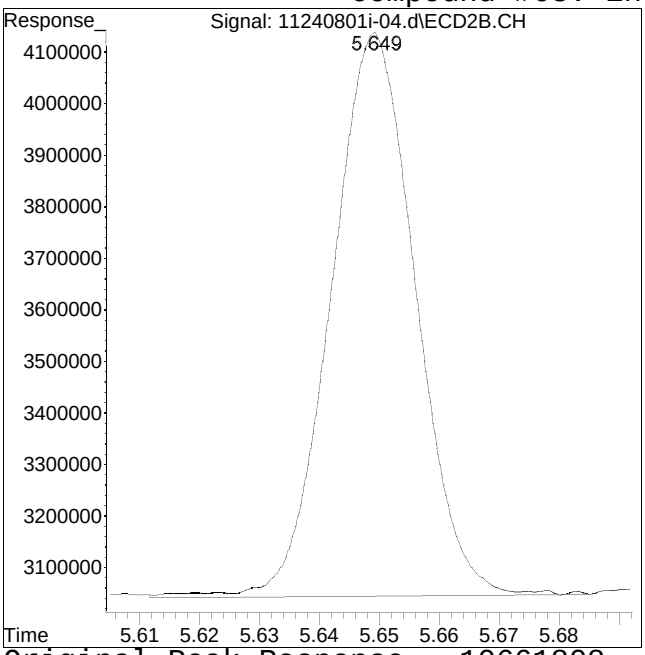
Original Peak Response = 15846397 Manual Peak Response = 10237086 M3

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

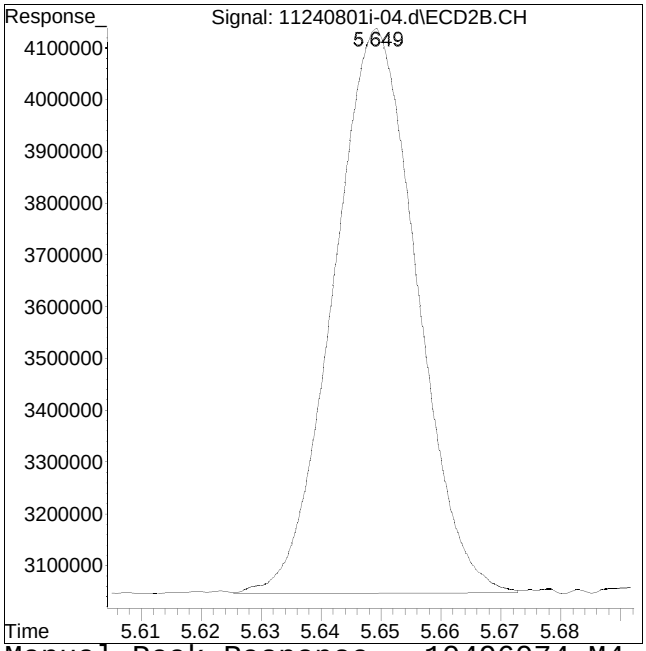
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 10661808



Manual Peak Response = 10496074 M4

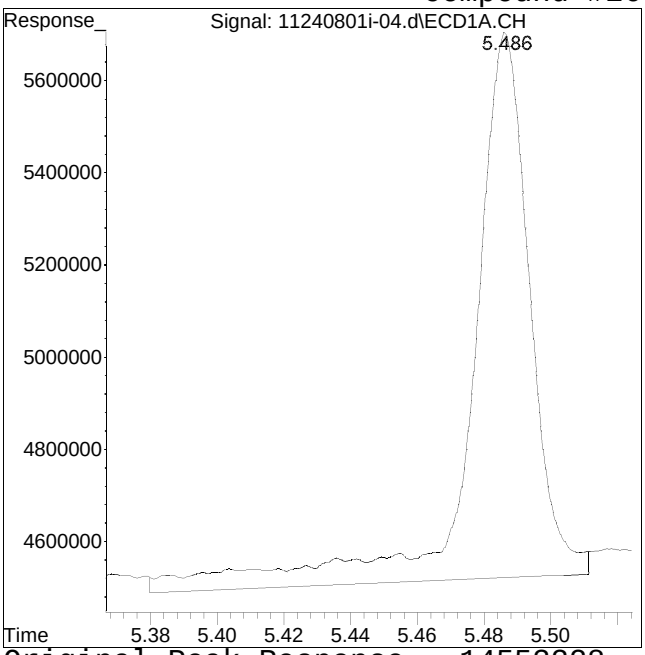
M4 = Poor automated baseline construction.

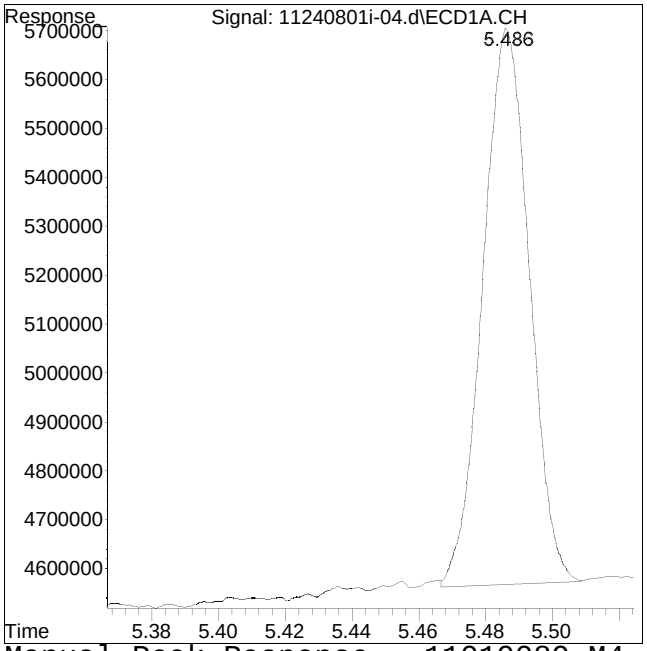
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #26: Endrin Ketone





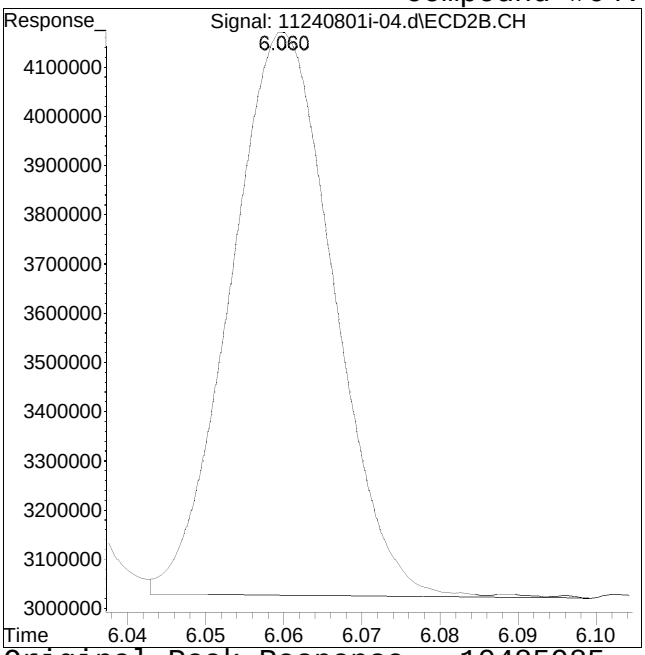
Original Peak Response = 14553228 Manual Peak Response = 11019089 M4
M4 = Poor automated baseline construction.

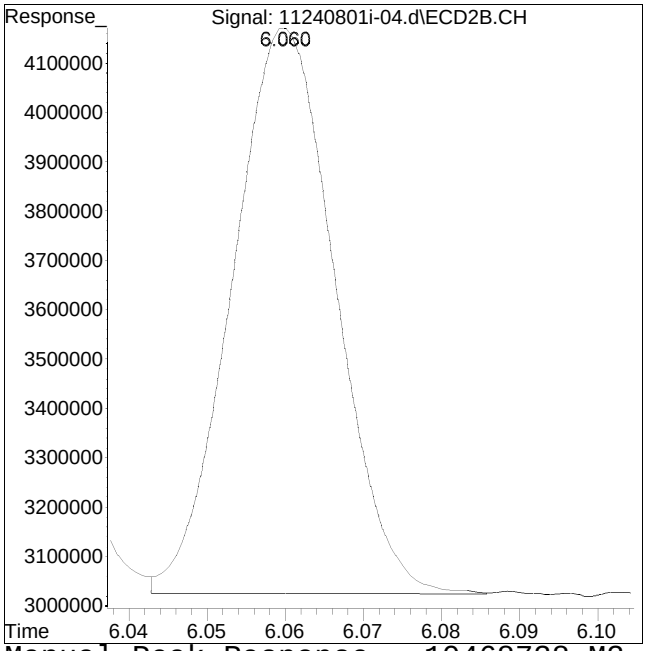
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #64: Endrin Ketone #2





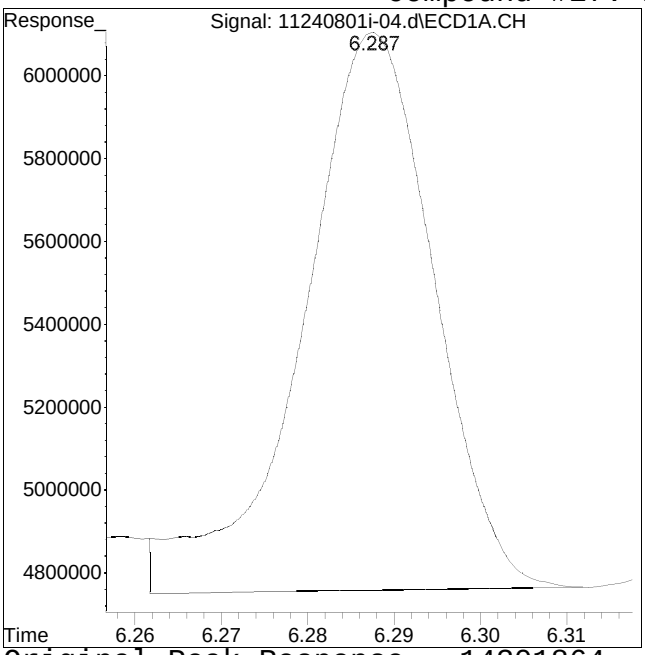
Original Peak Response = 10485985 Manual Peak Response = 10468738 M3

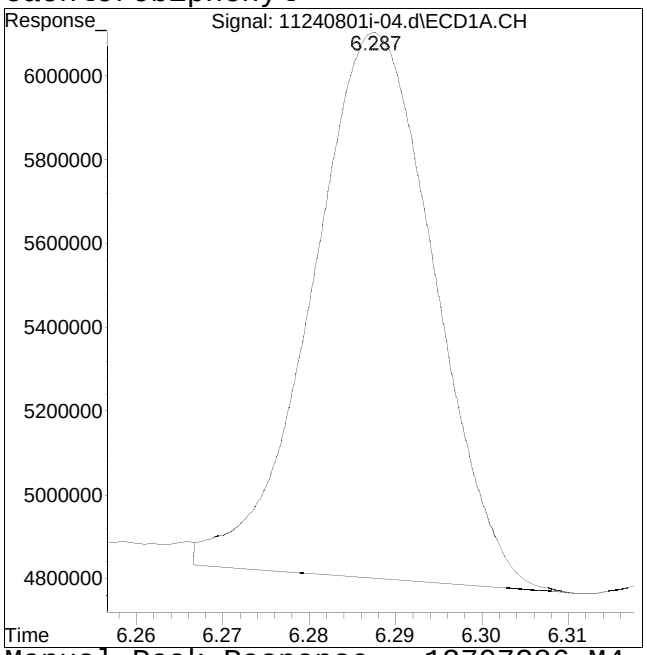
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #27: Decachlorobiphenyl



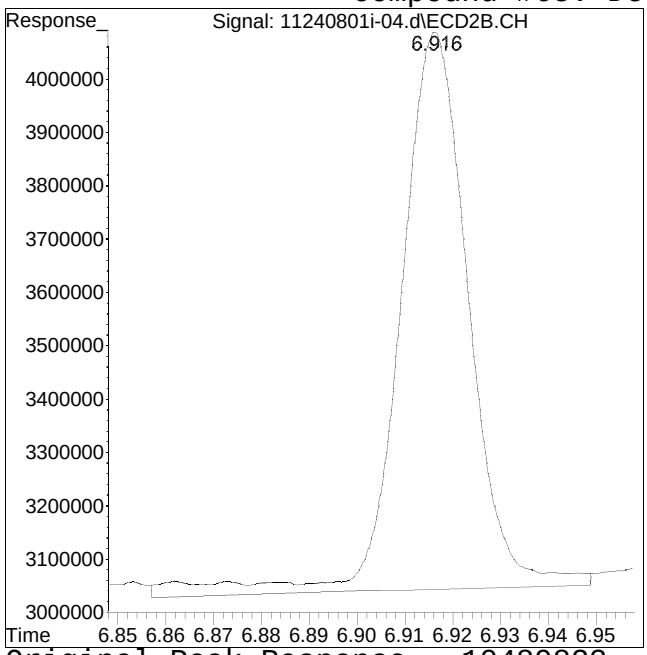


Original Peak Response = 14301864 Manual Peak Response = 12797286 M4
M4 = Poor automated baseline construction.

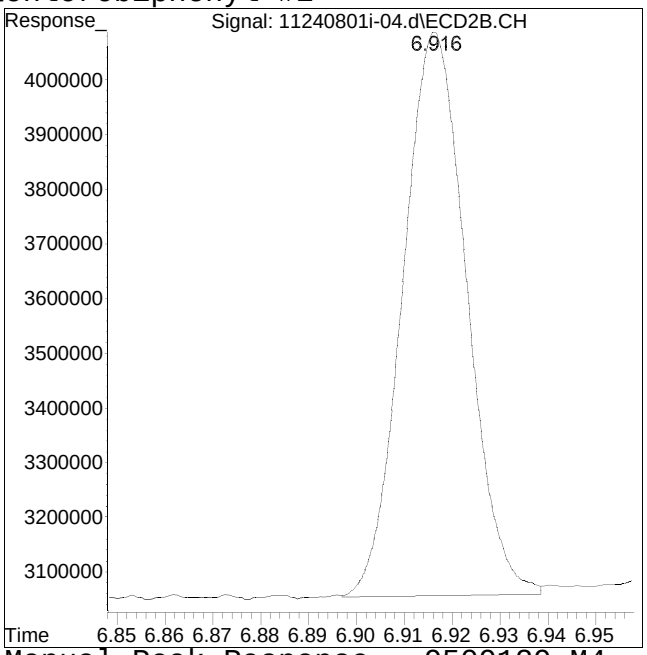
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 10489823



Manual Peak Response = 9509129 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	233.6E6	183.3E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	19656914	17683979	2.037M4	2.218M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.07%#	4.44%#
27) s	Decachlorobi	6.288	6.921	24597164	17880278	2.363M4	2.415M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.73%#	4.83%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.177	28232919	20378901	2.202M4	2.341M4
4) t	alpha-BHC	1.963	2.270	24776337	22916880	1.763M3	1.910M4
5) t	gamma-BHC (l	2.165	2.556	24518590	22225331	1.860M4	2.012M4
6) t	beta-BHC	2.221	2.622	12371613	12076597	2.144M4	2.433M4
7) t	delta-BHC	2.349	2.889	23489321	22105919	1.784M4	1.978
8) t	Heptachlor	2.513	2.951	24704645	25240850	2.000M3	2.217M4
9) t	Aldrin	2.755	3.270	22221712	21532475	1.906M3	2.069M4
10) t	Alachlor	2.876	3.153	4616058	4291521	2.172M4	2.624M4
11) t	Chlorpyrifos	2.968	3.506	12587779	16060949	2.339M4	2.633M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	22577234	23119137	2.042M3	2.290M4
13)	t	gamma-Chlord	3.425	4.104	20000923	21362303	1.986M3	2.301M3
14)	t	alpha-Chlord	3.559	4.274	22560782	23123524	1.977M4	2.254M4
15)	t	4,4'-DDE	3.656	4.472	21256749	19930567	1.878	2.035M4
16)	t	Endosulfan I	3.695	4.335	20979786	21644513	2.011	2.297M4
17)	t	Dieldrin	3.954	4.627	20608823	20372093	1.919M4	2.128M4
18)	t	Endrin	4.209	4.926	21154040	20698754	1.945M4	2.132
19)	t	4,4'-DDD	4.321	5.049	16433727	16195802	1.862M4	2.053M4
20)	t	Endosulfan I	4.451	5.125	19856372	19658239	2.017M4	2.284M4
21)	t	4,4'-DDT	4.615	5.325	19330578	18980554	1.925M4	2.092M3
22)	t	Endrin Aldeh	4.868	5.421	16609803	16584125	2.012M4	2.309M4
23)	t	Methoxychlor	5.104	5.890	11871688	11964320	2.204M4	2.443M3
24)	t	Mirex	5.159	6.024	19186744	19029253	2.220M4	2.566M4
25)	t	Endosulfan S	5.259	5.649	19345504	19598268	2.080M3	2.317M4
26)	t	Endrin Keton	5.487	6.060	22428996	20121740	2.028M4	2.235M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

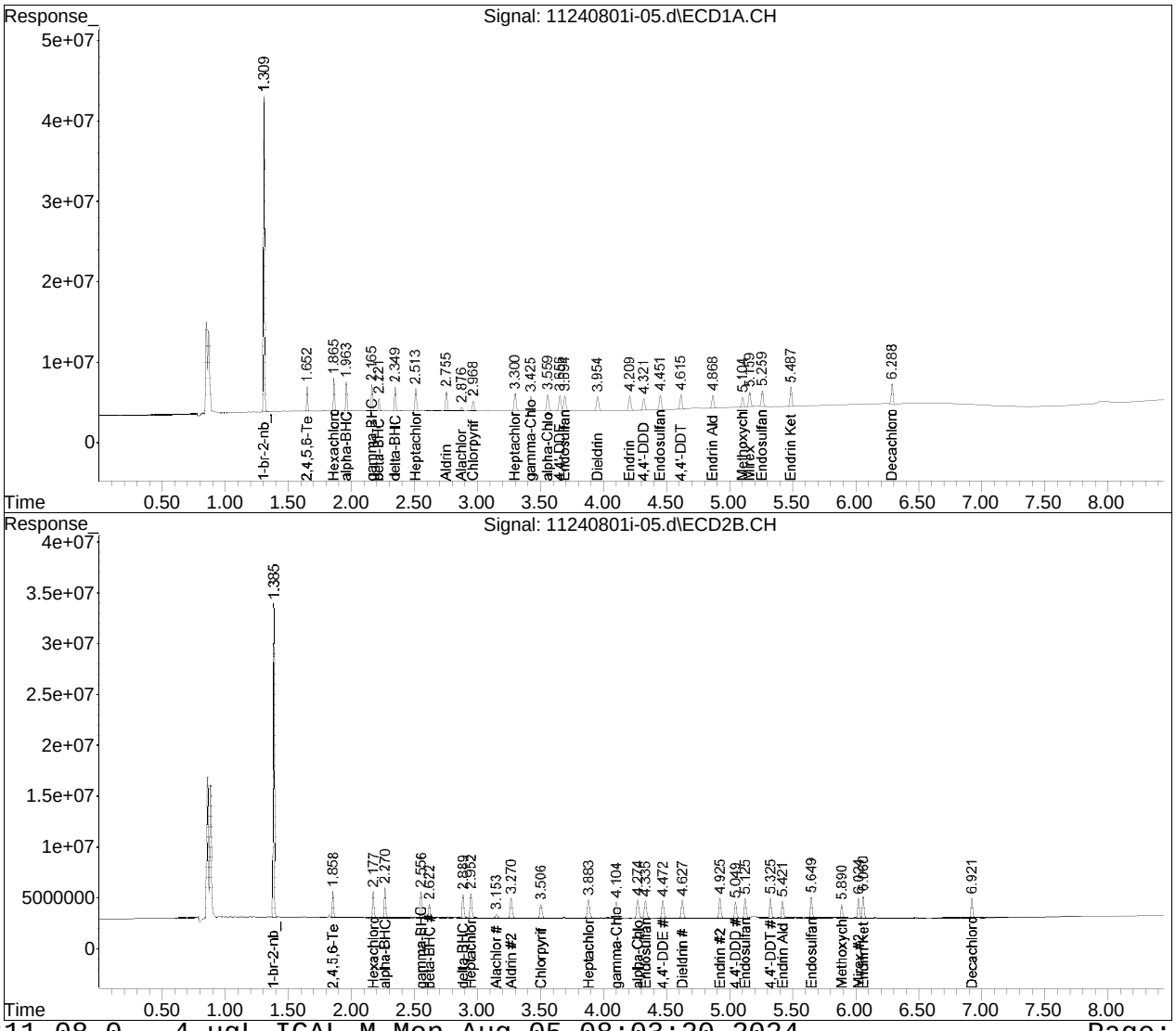
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

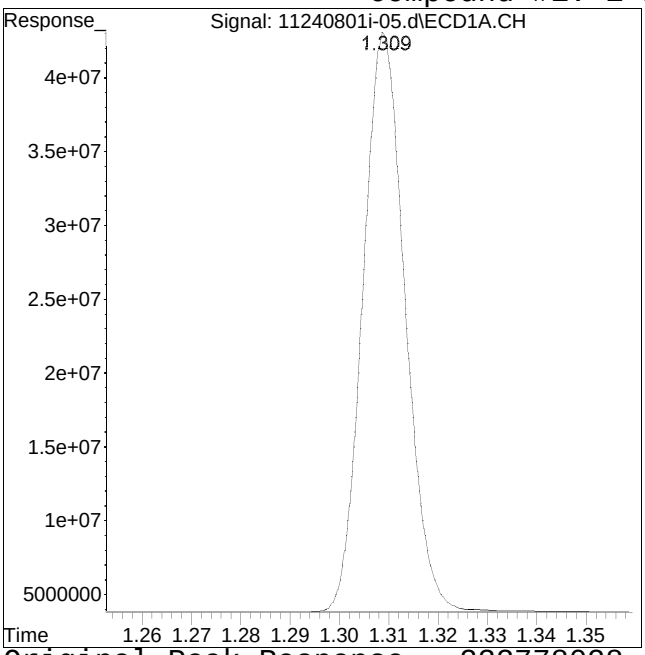


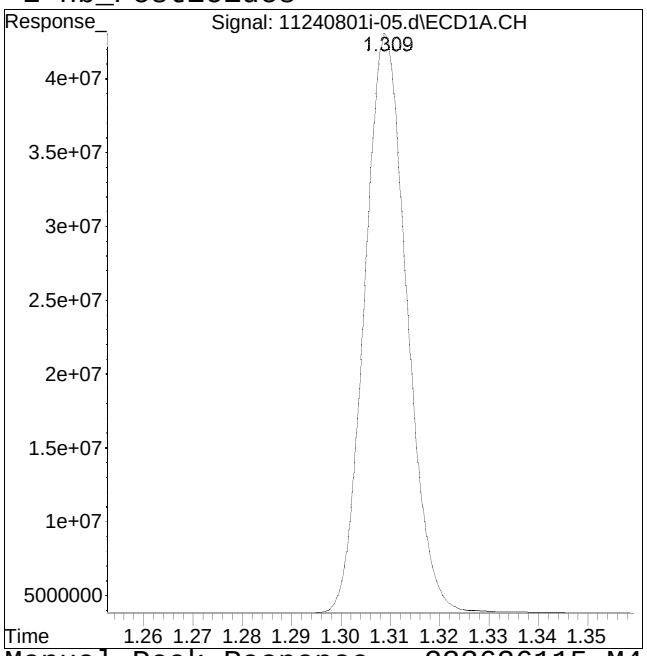
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #1: 1-br-2-nb_Pesticides





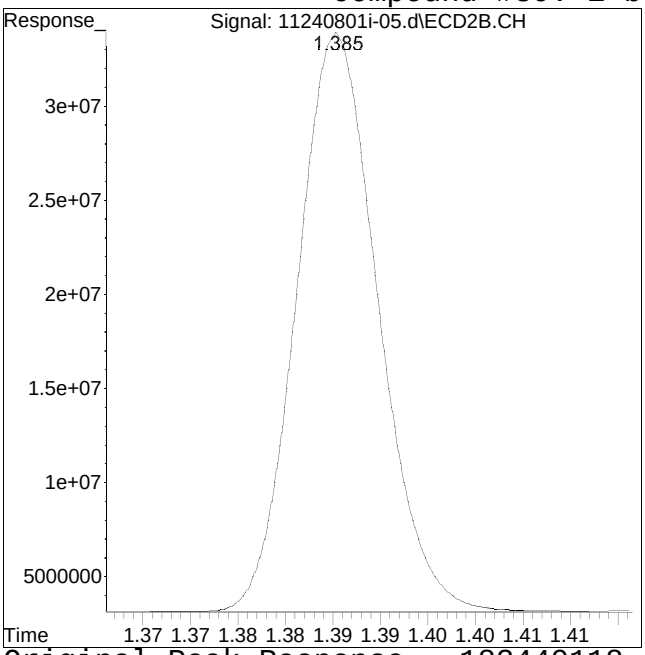
Original Peak Response = 233778028 Manual Peak Response = 233626115 M4
M4 = Poor automated baseline construction.

Manual Integration Report

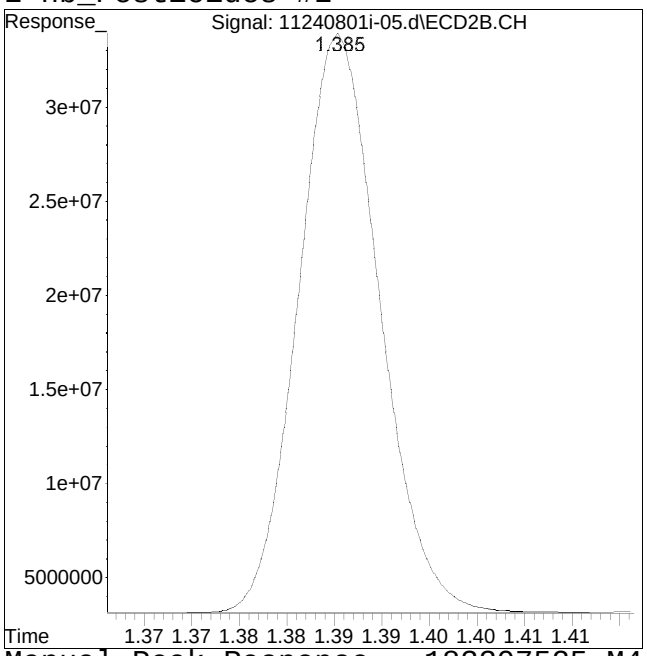
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183440118



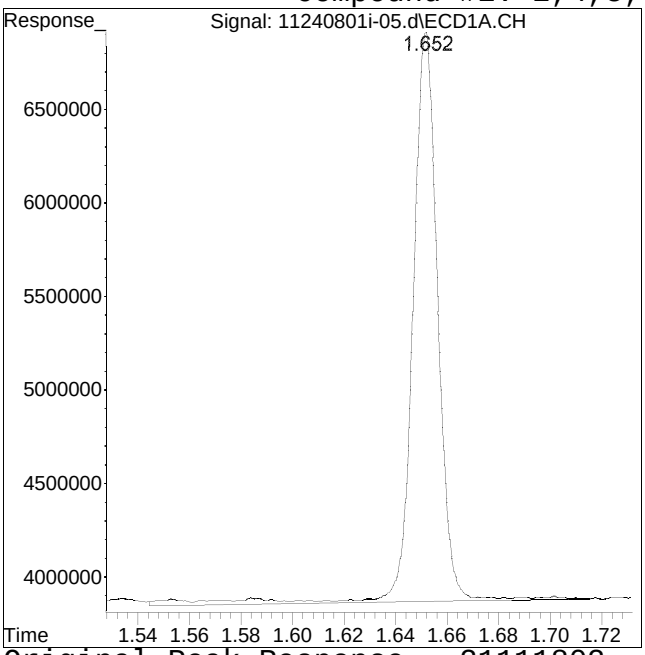
Manual Peak Response = 183307525 M4

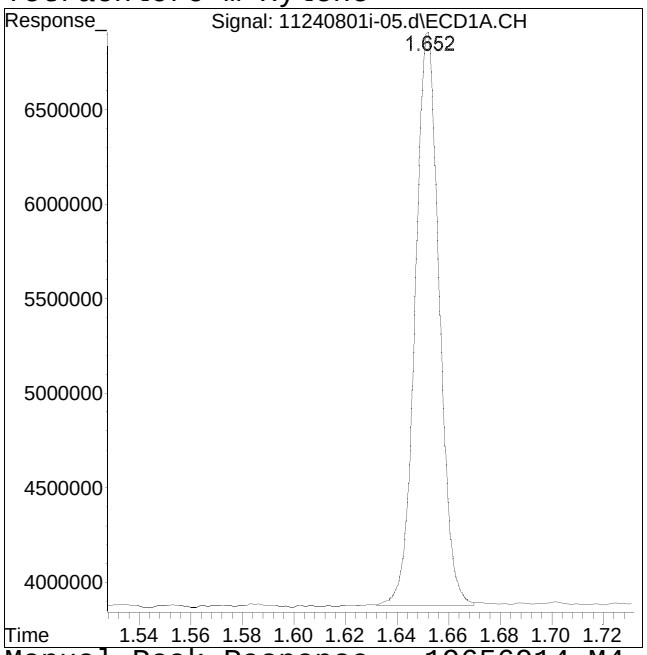
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



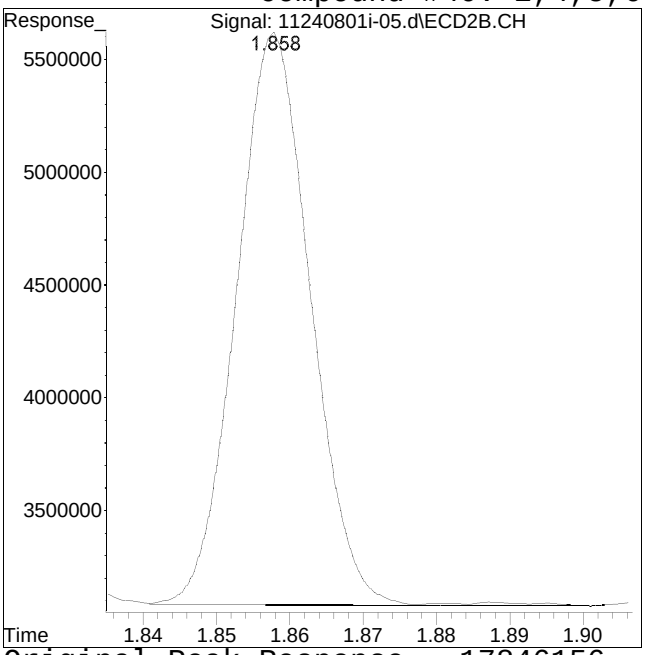


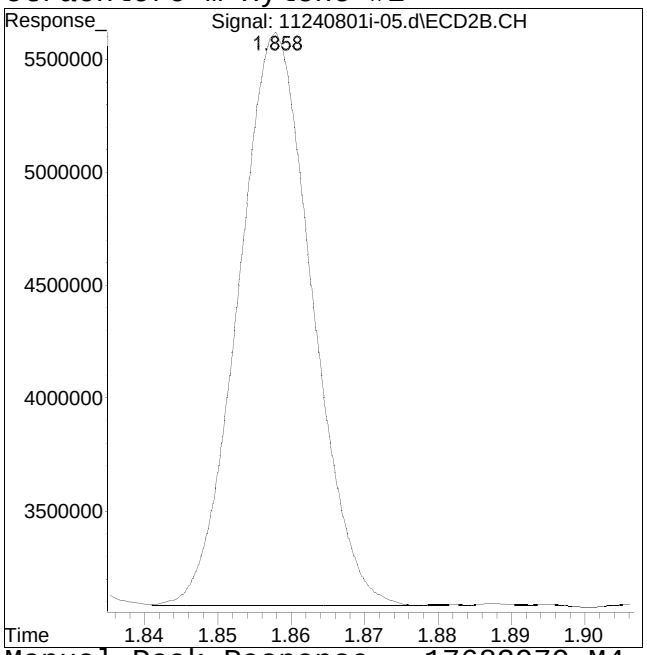
Original Peak Response = 21111802 Manual Peak Response = 19656914 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





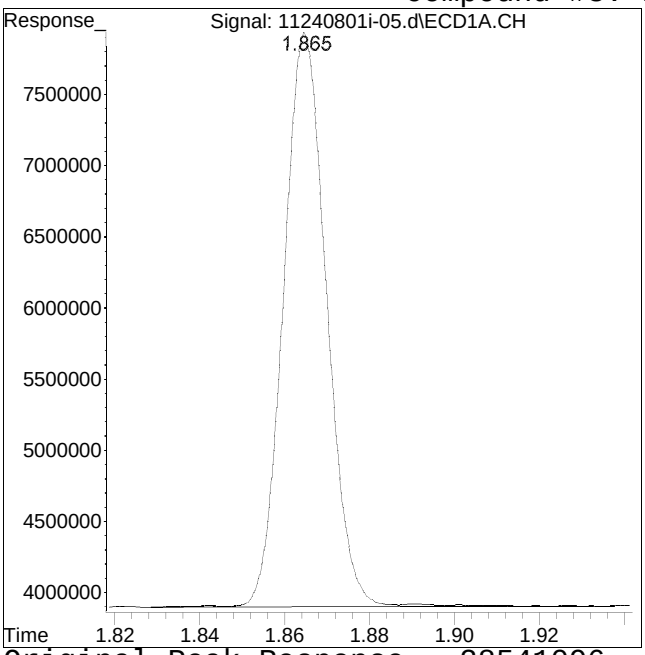
Original Peak Response = 17846156 Manual Peak Response = 17683979 M4
M4 = Poor automated baseline construction.

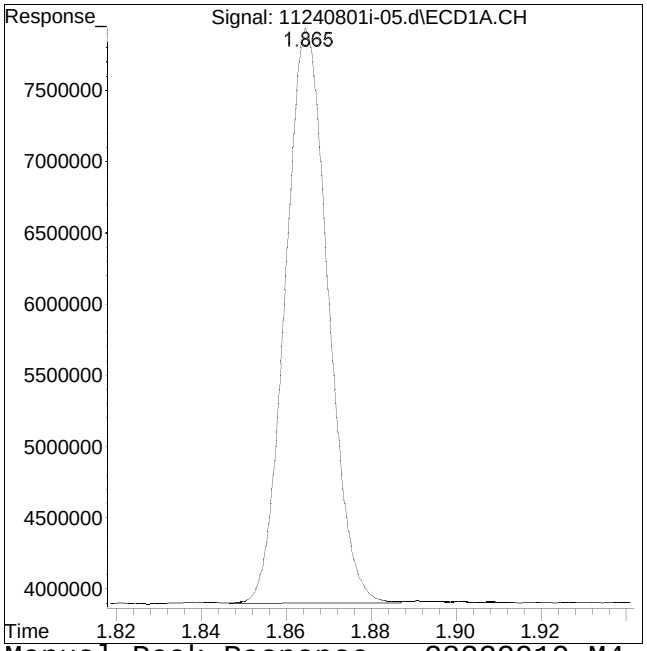
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #3: Hexachlorobenzene





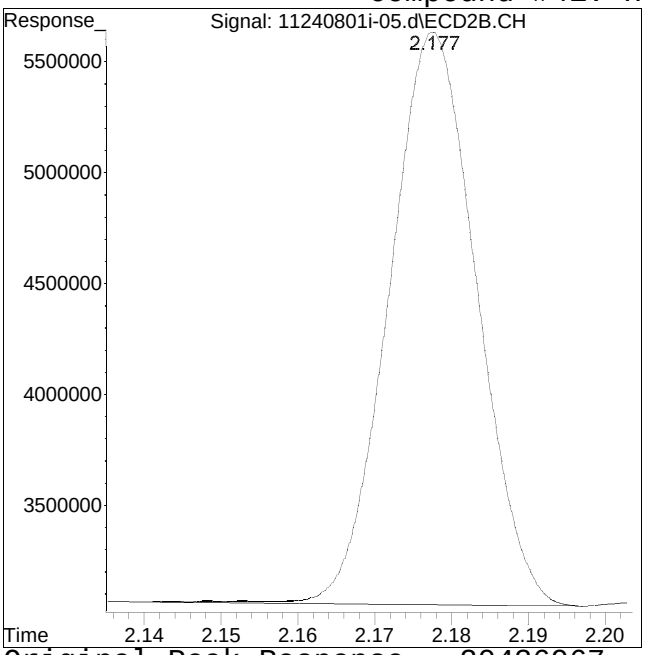
Original Peak Response = 28541096 Manual Peak Response = 28232919 M4
M4 = Poor automated baseline construction.

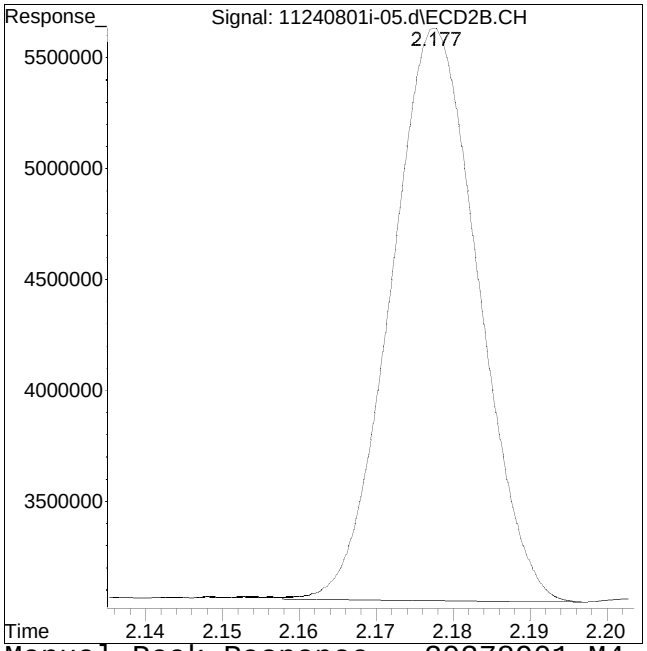
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #41: Hexachlorobenzene #2





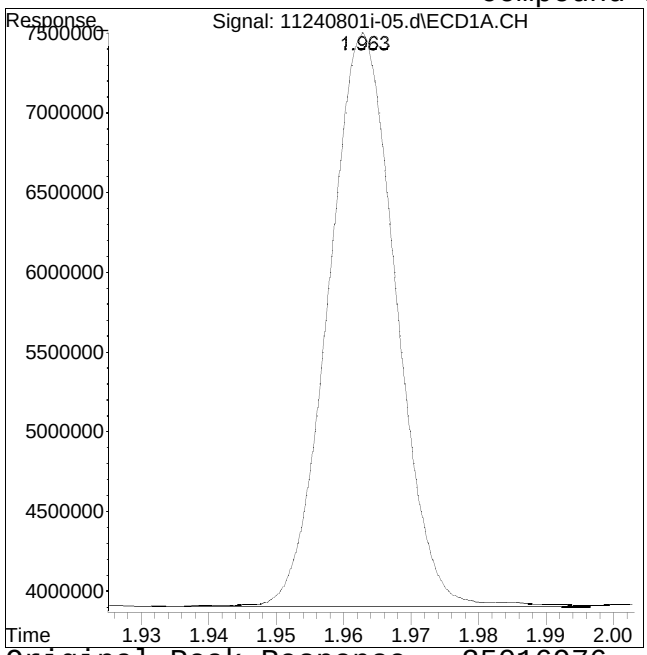
Original Peak Response = 20436967 Manual Peak Response = 20378901 M4
M4 = Poor automated baseline construction.

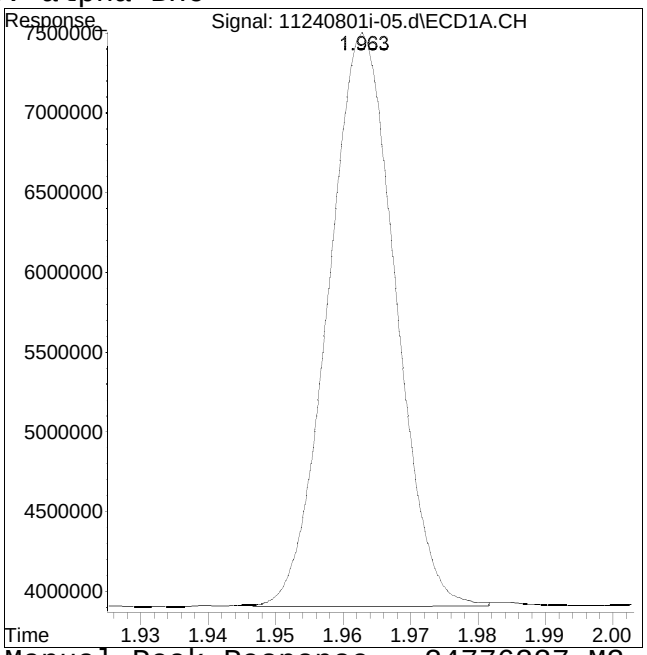
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #4: alpha-BHC





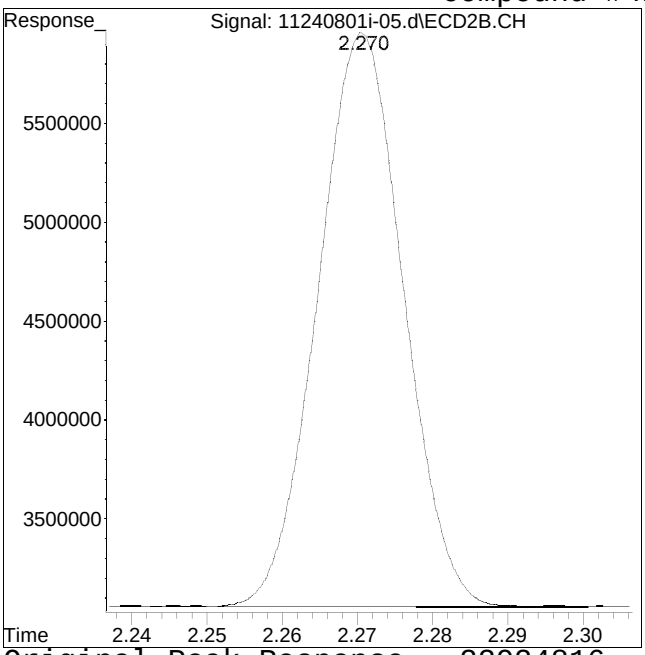
Original Peak Response = 25016976 Manual Peak Response = 24776337 M3

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

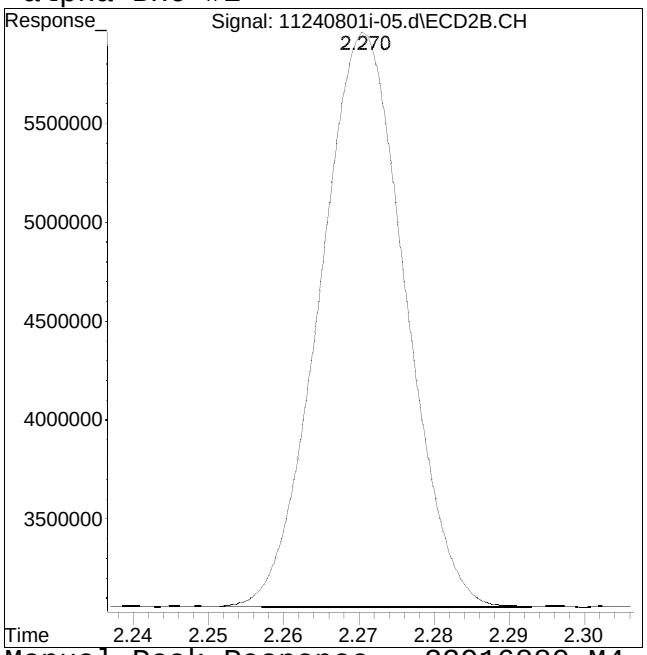
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #42: alpha-BHC #2



Original Peak Response = 22924816



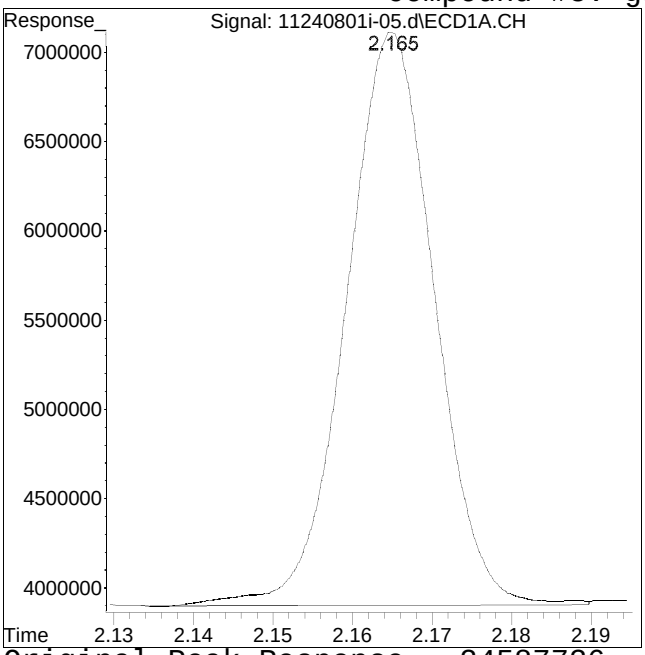
Manual Peak Response = 22916880 M4

M4 = Poor automated baseline construction.

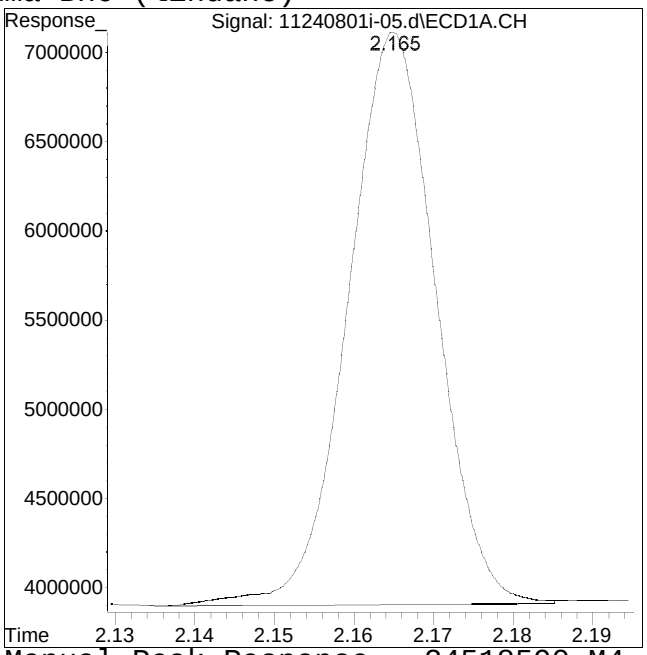
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 24587736



Manual Peak Response = 24518590 M4

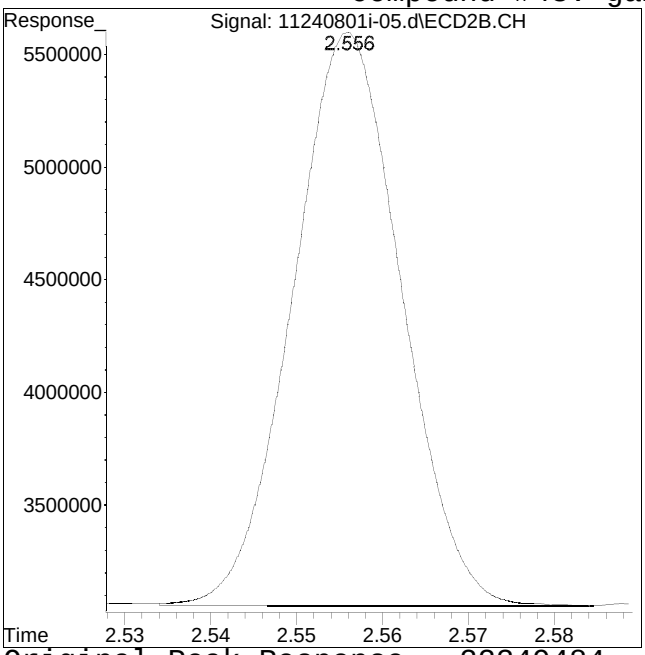
M4 = Poor automated baseline construction.

Manual Integration Report

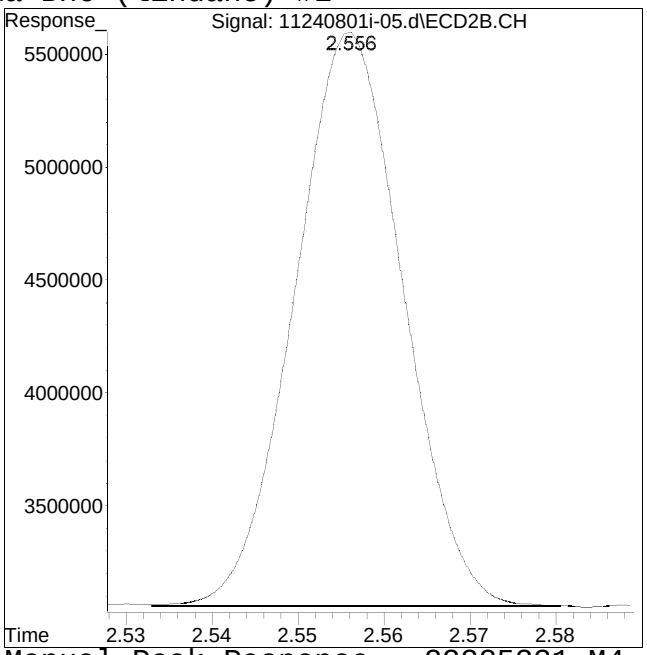
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 22349484



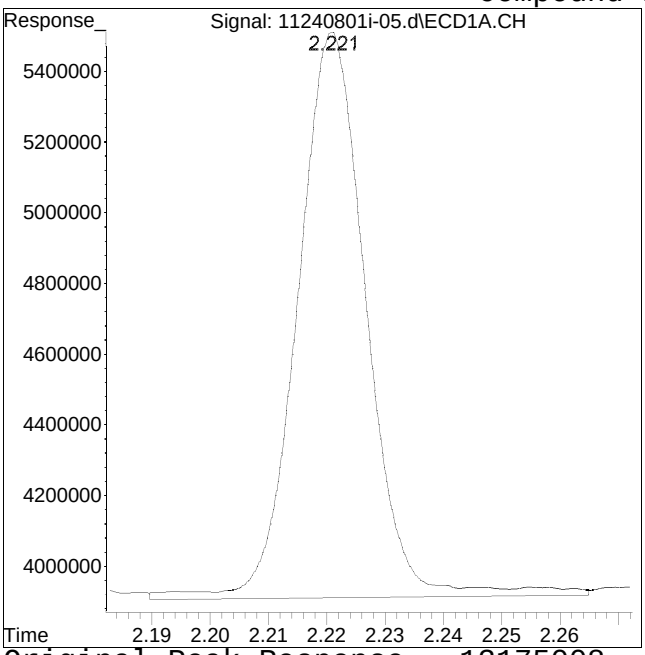
Manual Peak Response = 22225331 M4

M4 = Poor automated baseline construction.

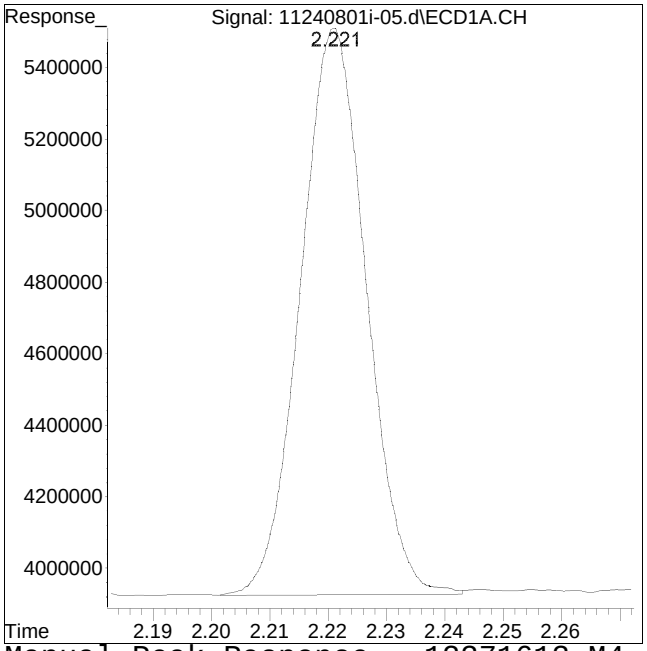
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #6: beta-BHC



Original Peak Response = 13175008

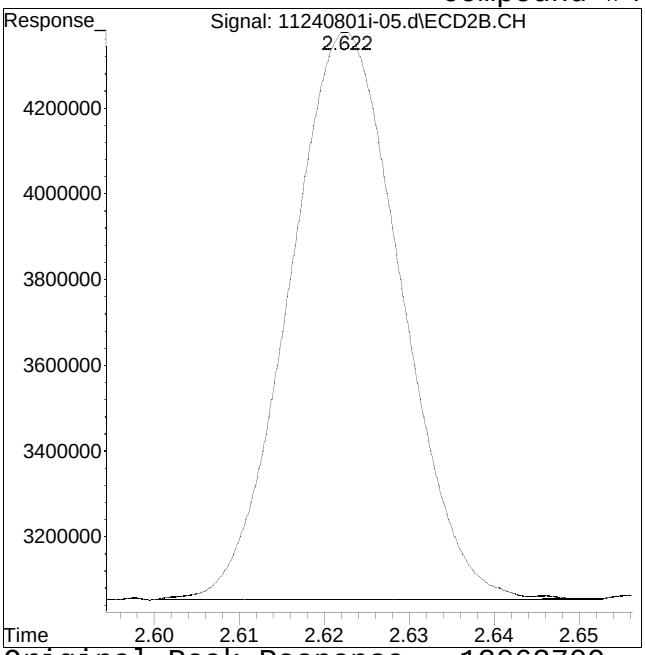


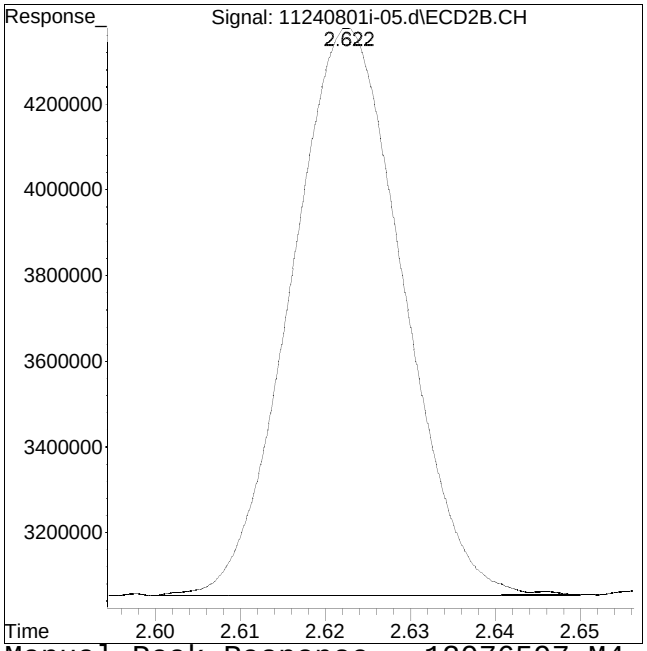
Manual Peak Response = 12371613 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #44: beta-BHC #2



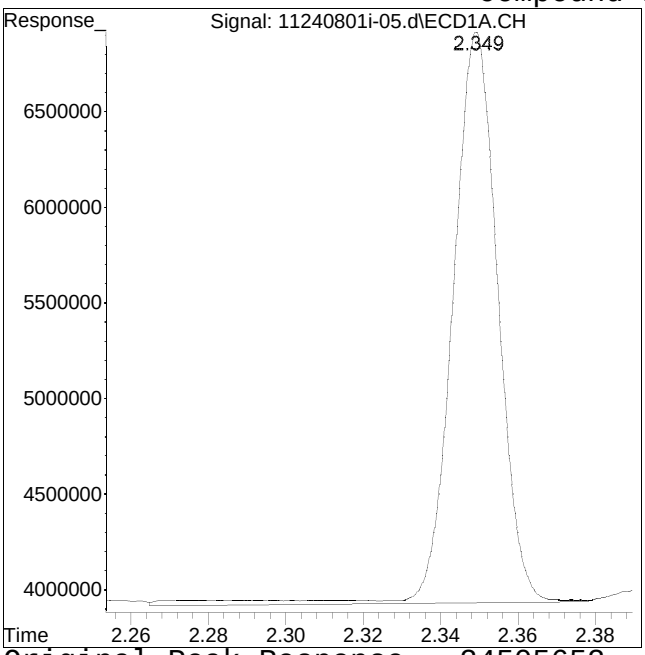


Original Peak Response = 12062700 Manual Peak Response = 12076597 M4
M4 = Poor automated baseline construction.

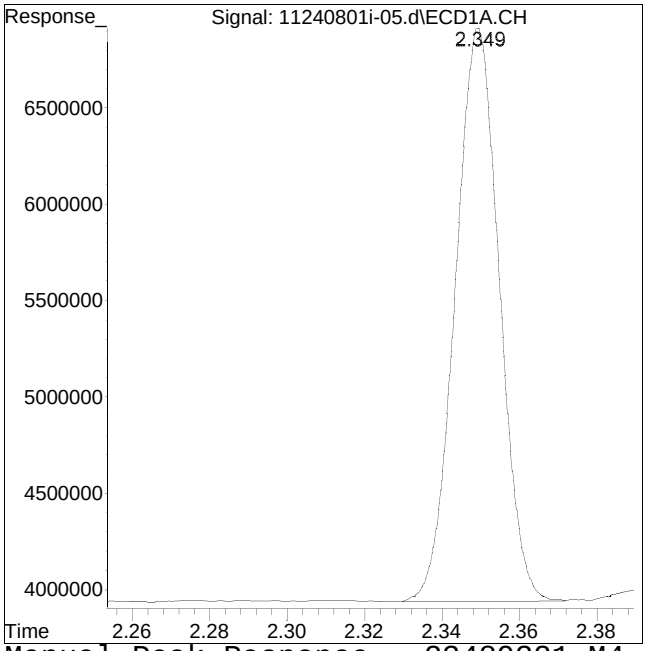
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #7: delta-BHC



Original Peak Response = 24505652



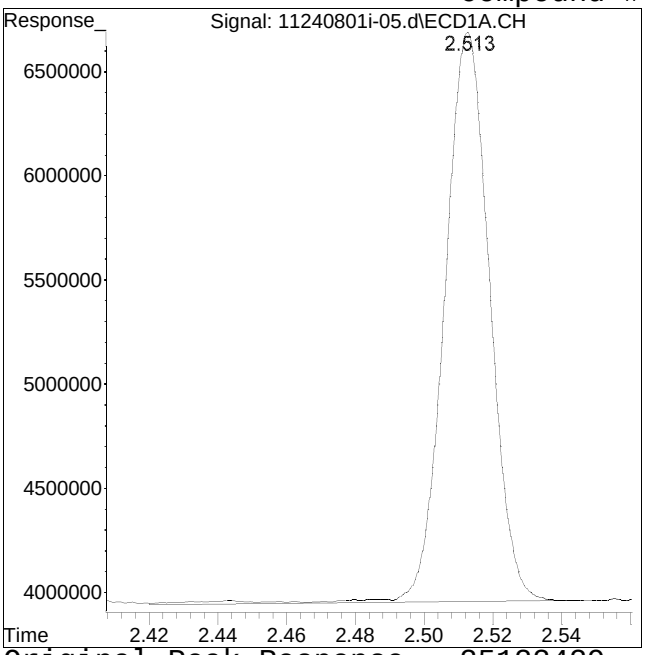
Manual Peak Response = 23489321 M4

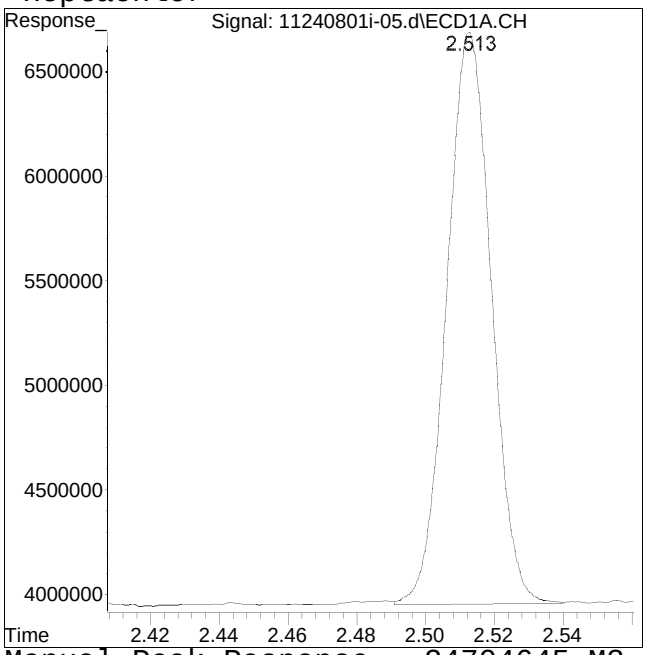
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #8: Heptachlor





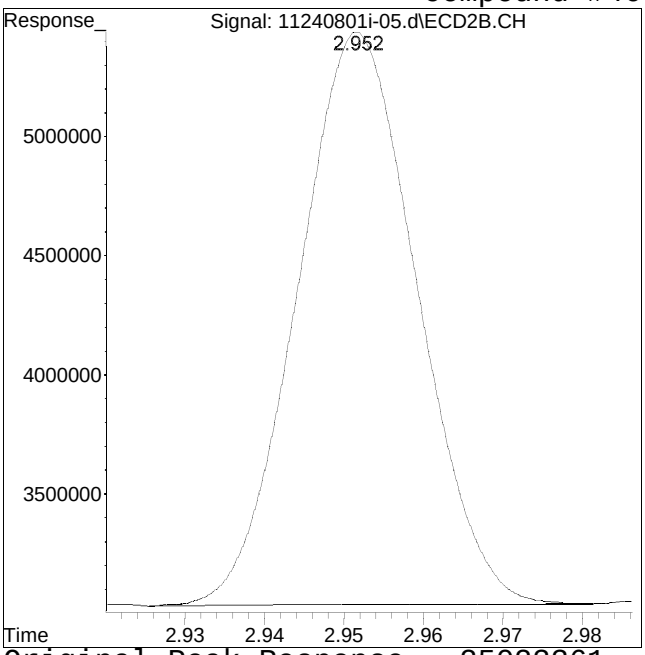
Original Peak Response = 25122429 Manual Peak Response = 24704645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

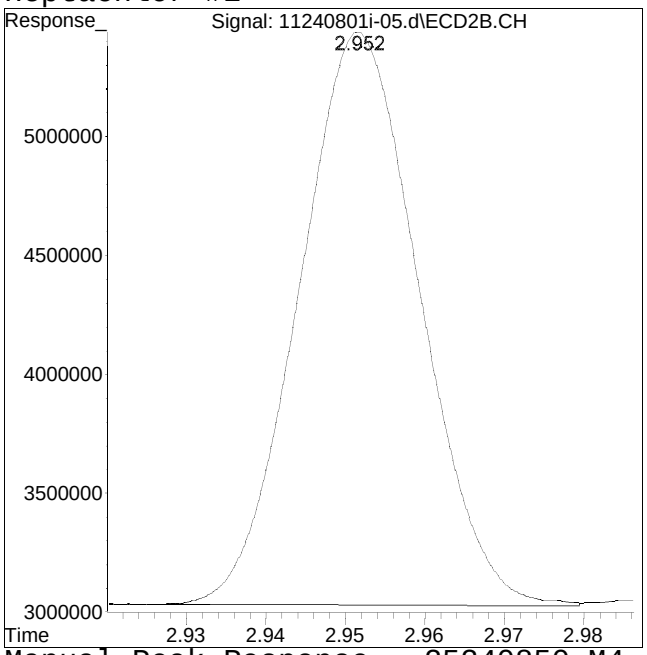
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #46: Heptachlor #2



Original Peak Response = 25023361



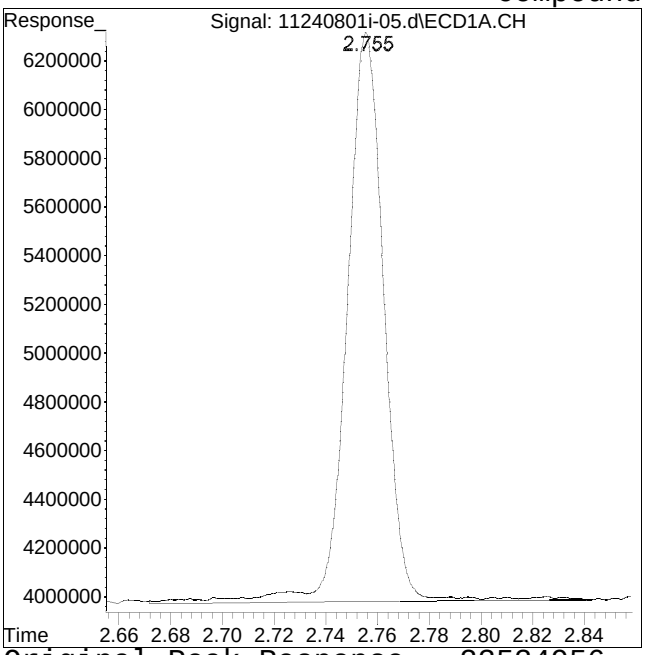
Manual Peak Response = 25240850 M4

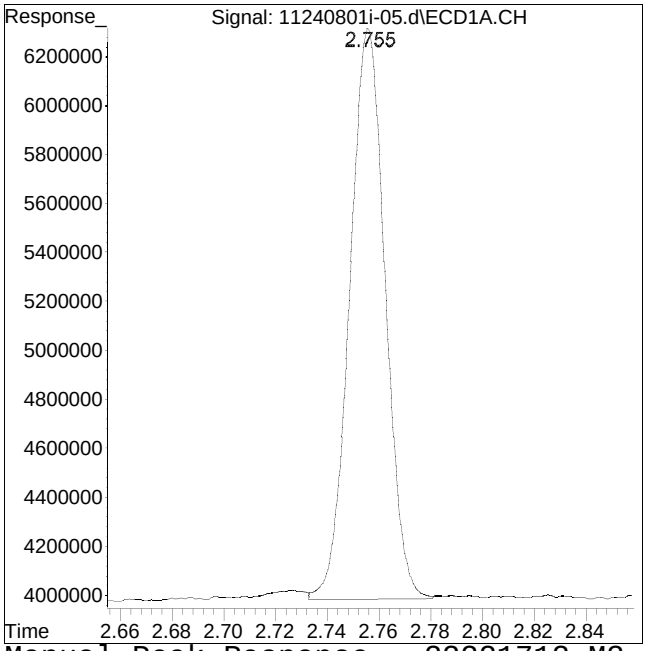
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #9: Aldrin





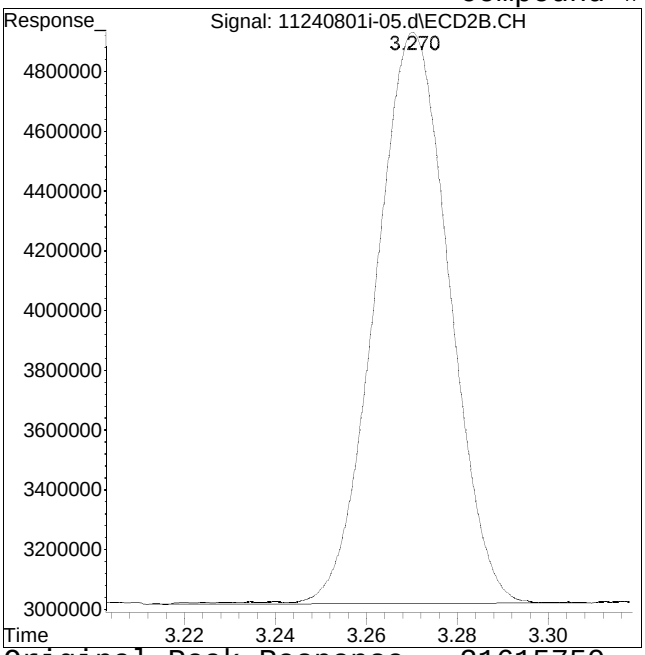
Original Peak Response = 23534956 Manual Peak Response = 22221712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

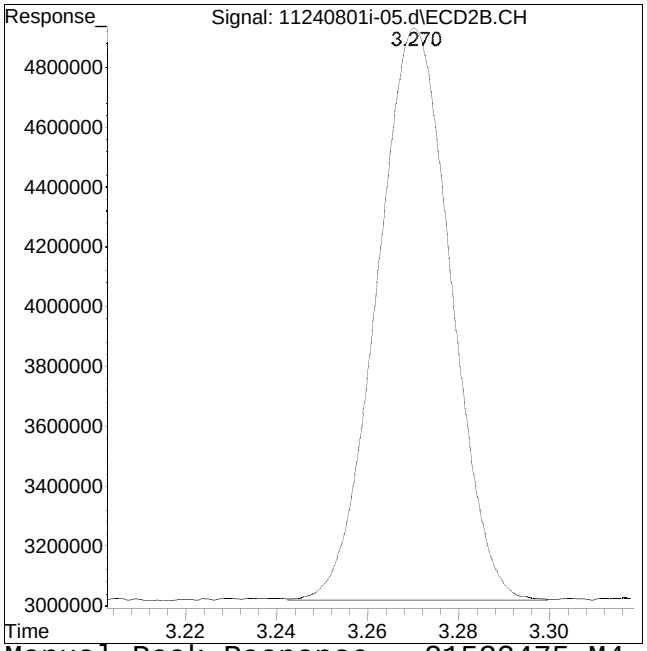
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #47: Aldrin #2



Original Peak Response = 21615750



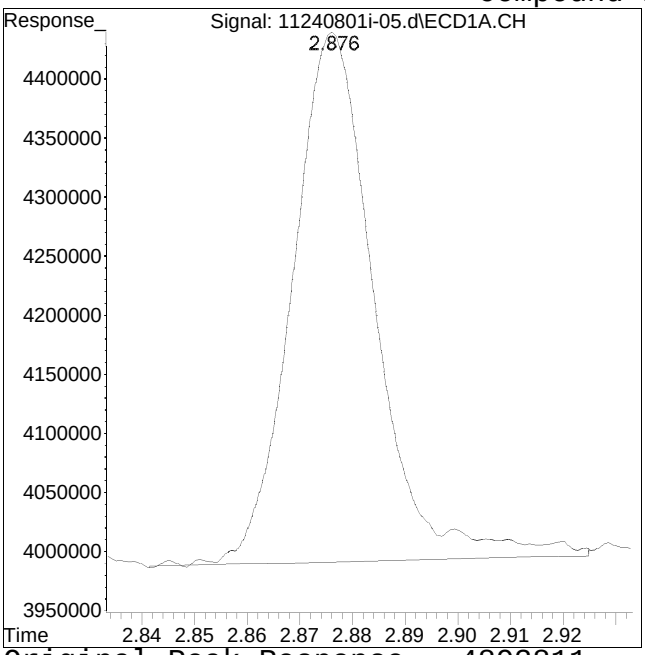
Manual Peak Response = 21532475 M4

M4 = Poor automated baseline construction.

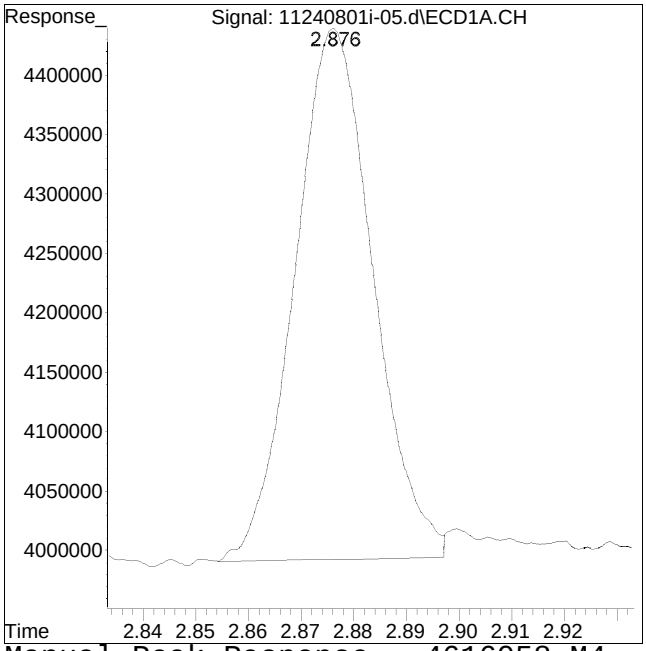
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #10: Alachlor



Original Peak Response = 4893811



Manual Peak Response = 4616058 M4

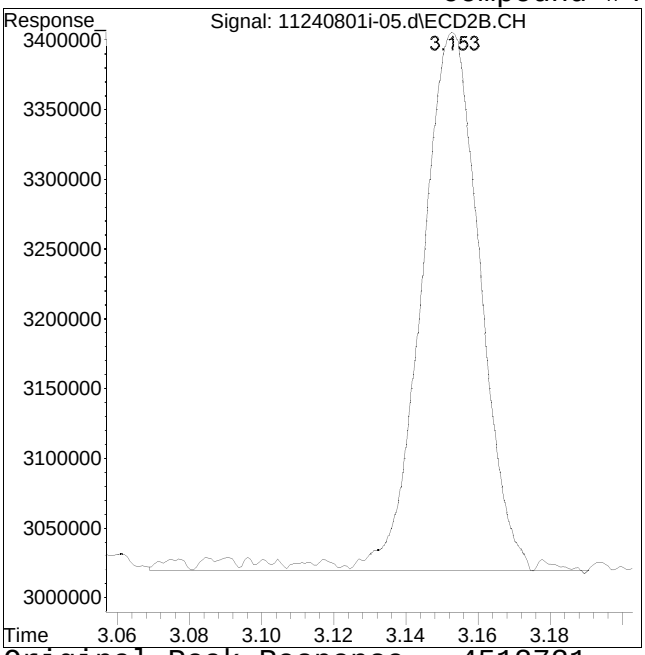
M4 = Poor automated baseline construction.

Manual Integration Report

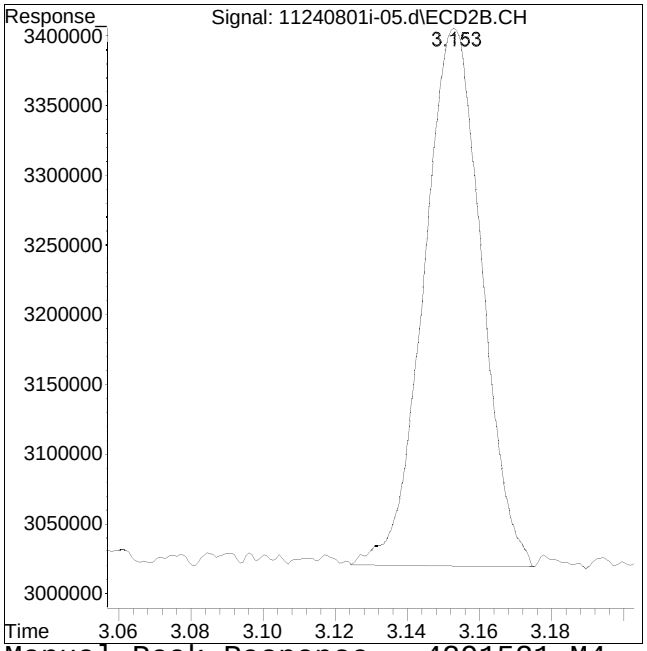
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #48: Alachlor #2



Original Peak Response = 4512721



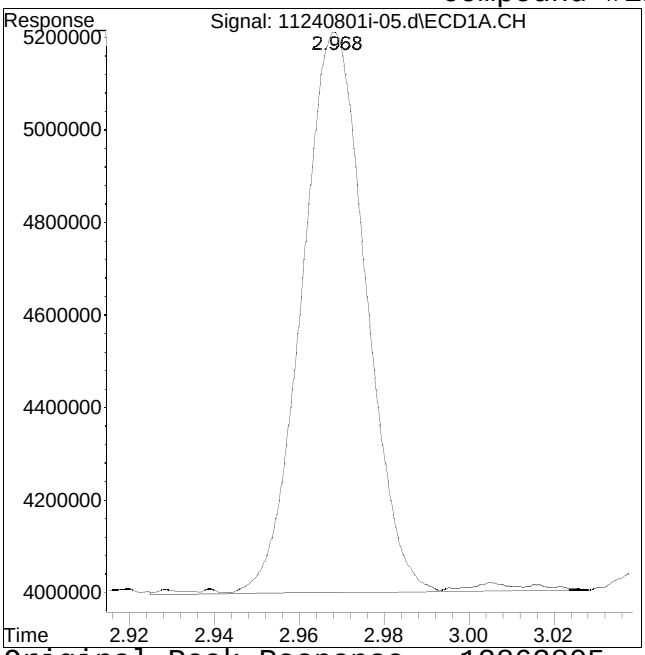
Manual Peak Response = 4291521 M4

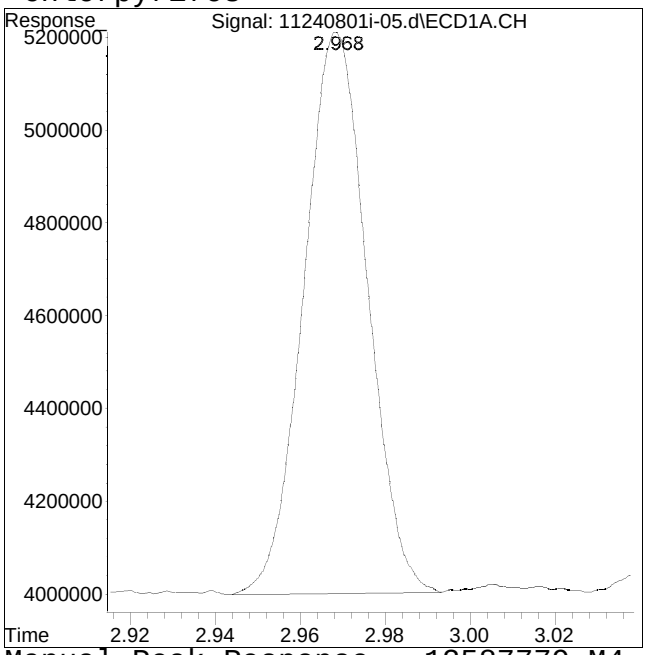
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #11: Chlorpyrifos



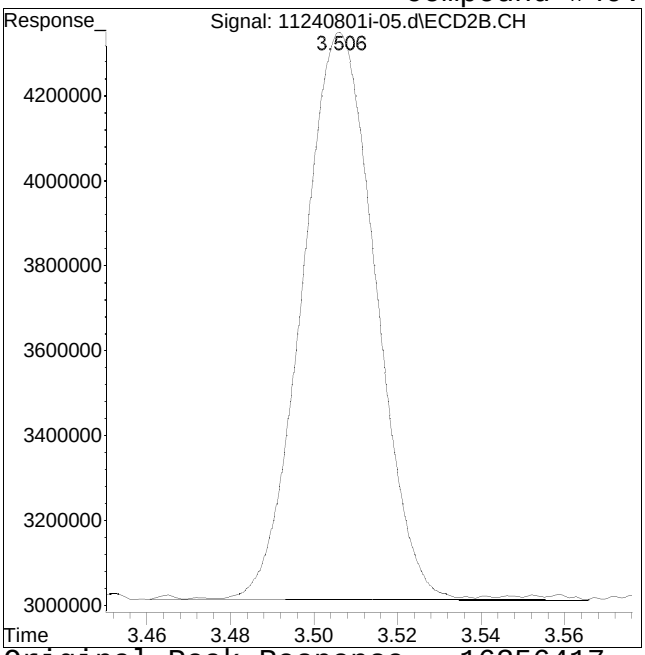


Original Peak Response = 12863805 Manual Peak Response = 12587779 M4
M4 = Poor automated baseline construction.

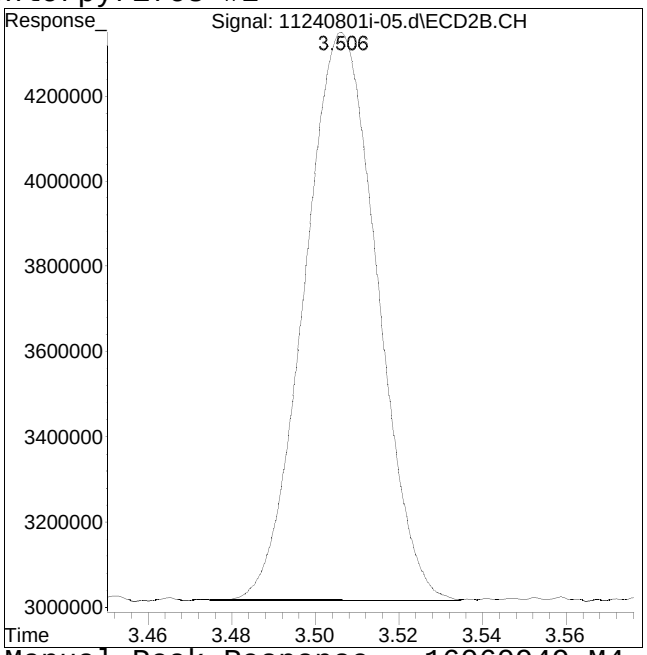
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 16356417



Manual Peak Response = 16060949 M4

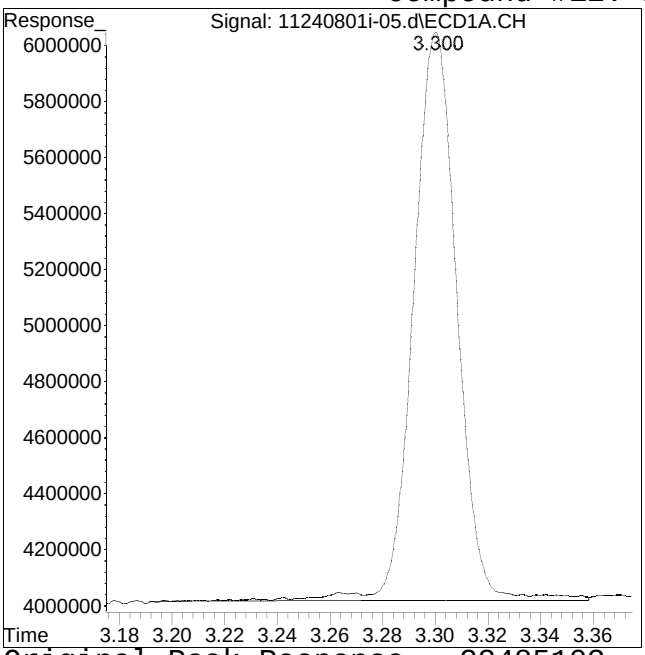
M4 = Poor automated baseline construction.

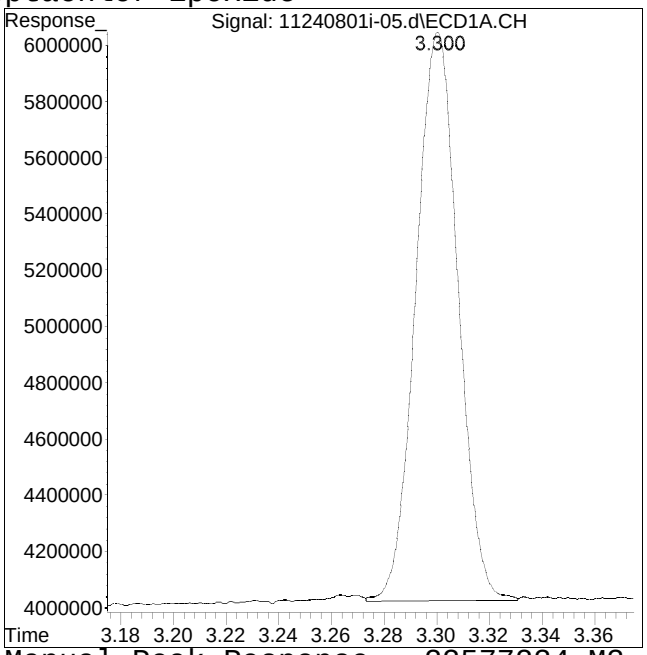
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #12: Heptachlor Epoxide





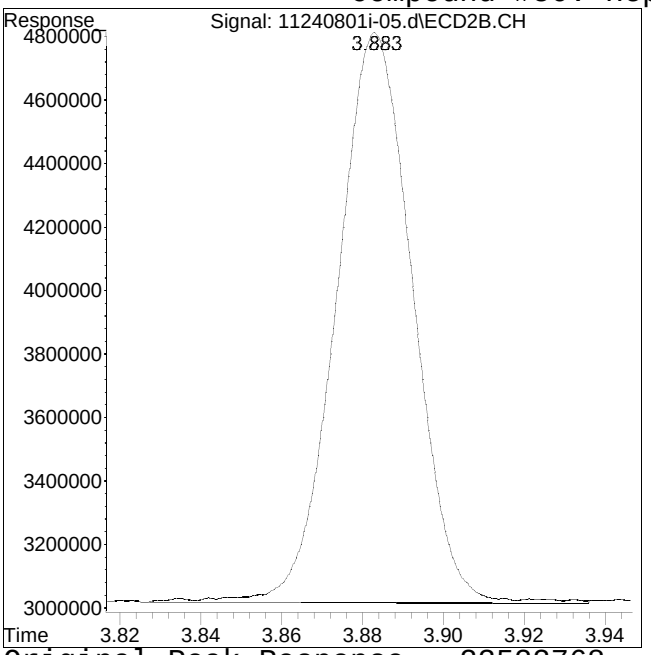
Original Peak Response = 23485103 Manual Peak Response = 22577234 M3

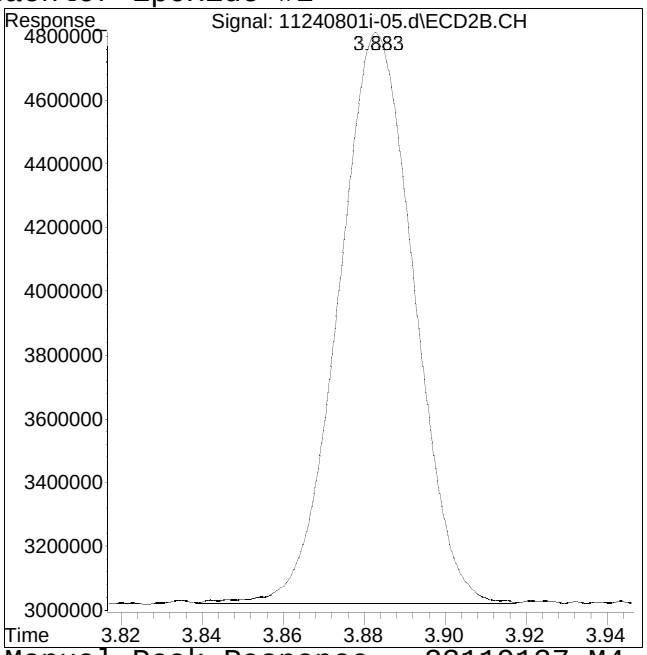
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #50: Heptachlor Epoxide #2



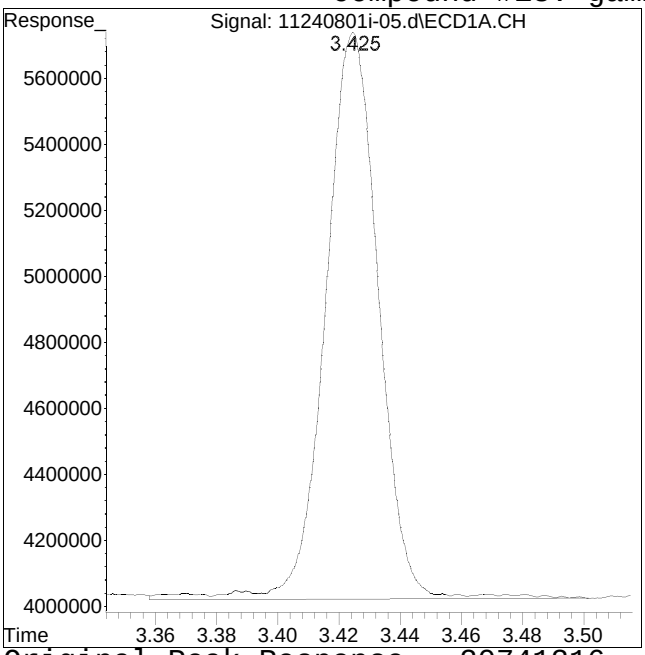


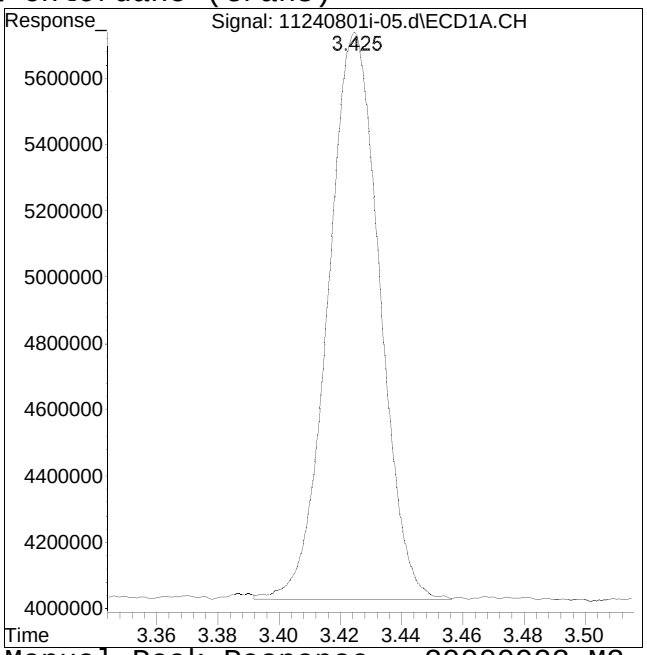
Original Peak Response = 23522768 Manual Peak Response = 23119137 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #13: gamma-Chlordane (trans)





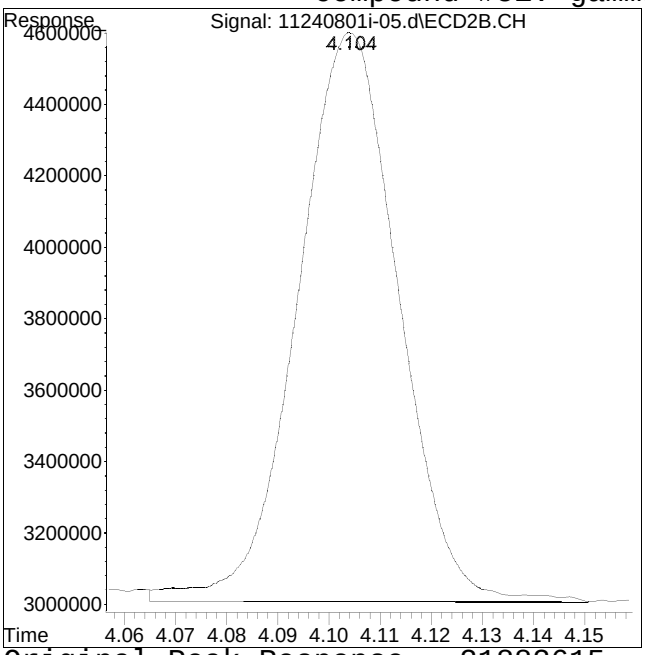
Original Peak Response = 20741216 Manual Peak Response = 20000923 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

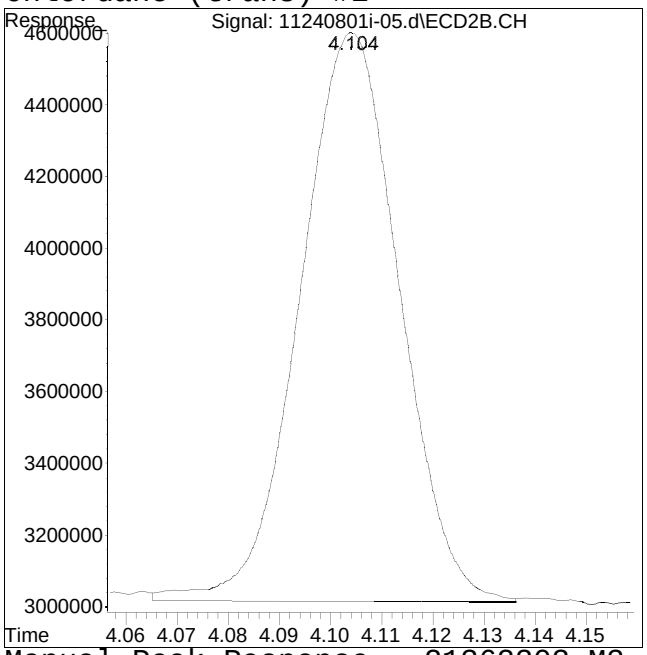
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #51: gamma-Chlordane (trans) #2





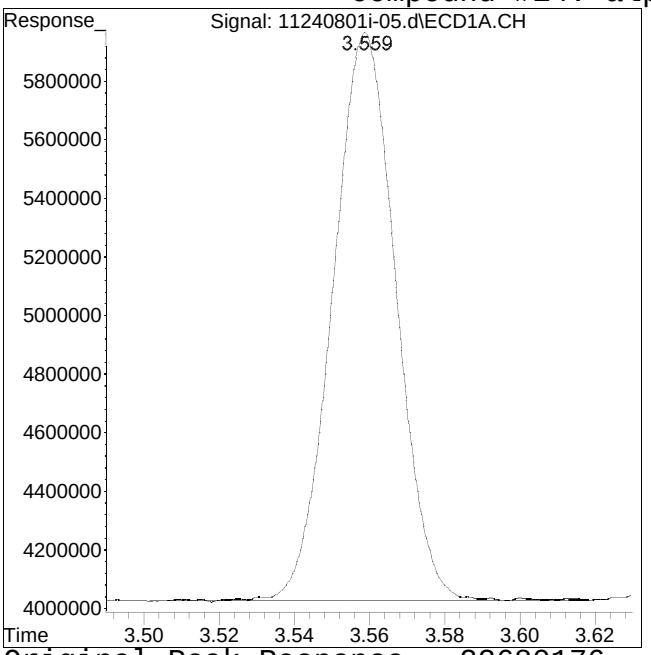
Original Peak Response = 21882615 Manual Peak Response = 21362303 M3

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

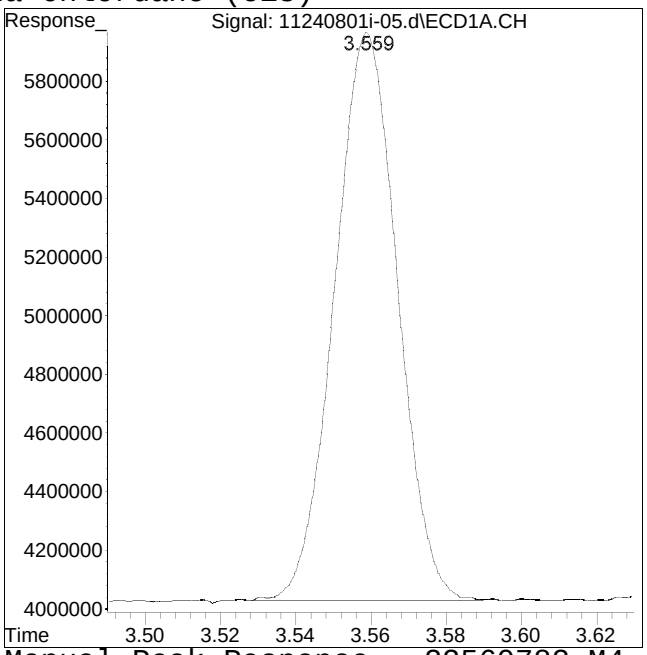
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 22680176

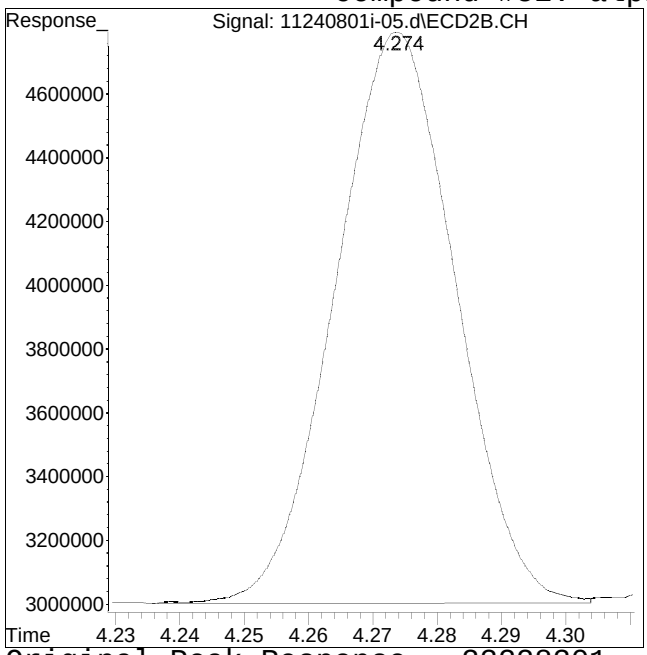


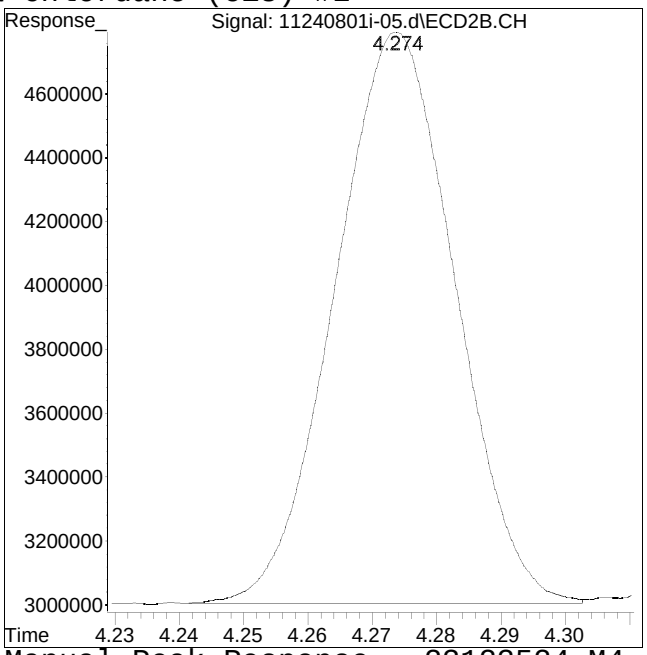
Manual Peak Response = 22560782 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #52: alpha-Chlordane (cis) #2



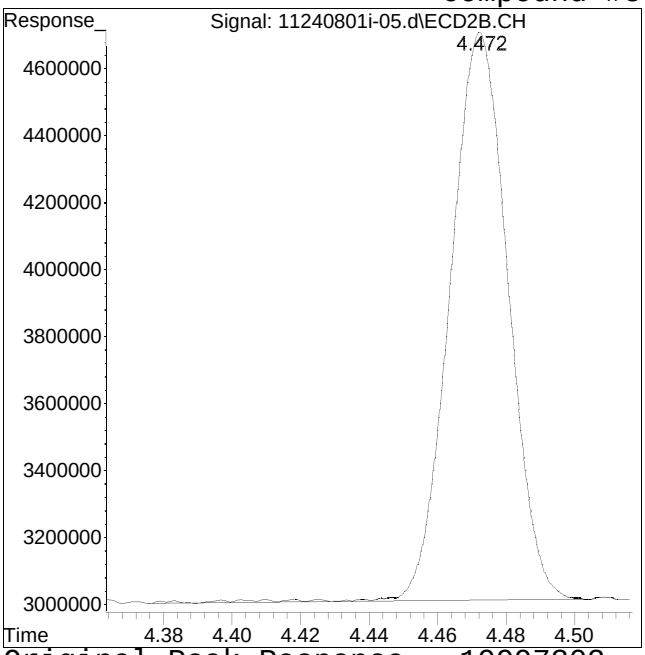


Original Peak Response = 23228301 Manual Peak Response = 23123524 M4
M4 = Poor automated baseline construction.

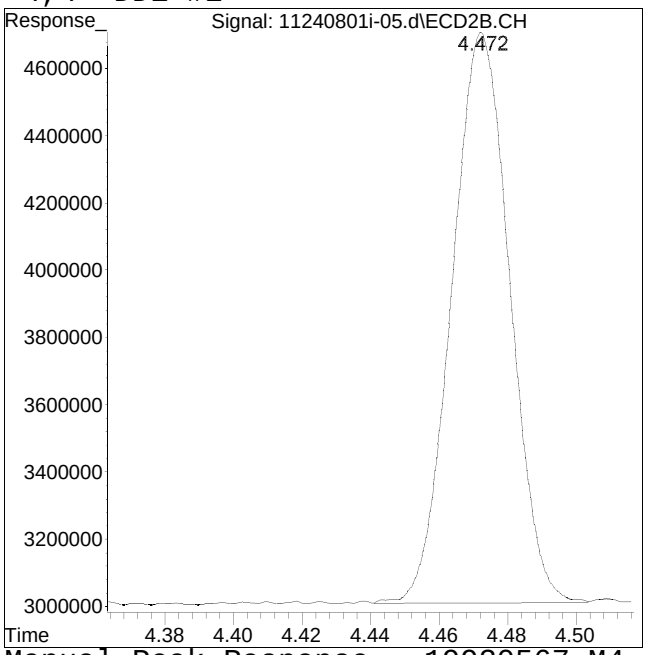
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 19997302

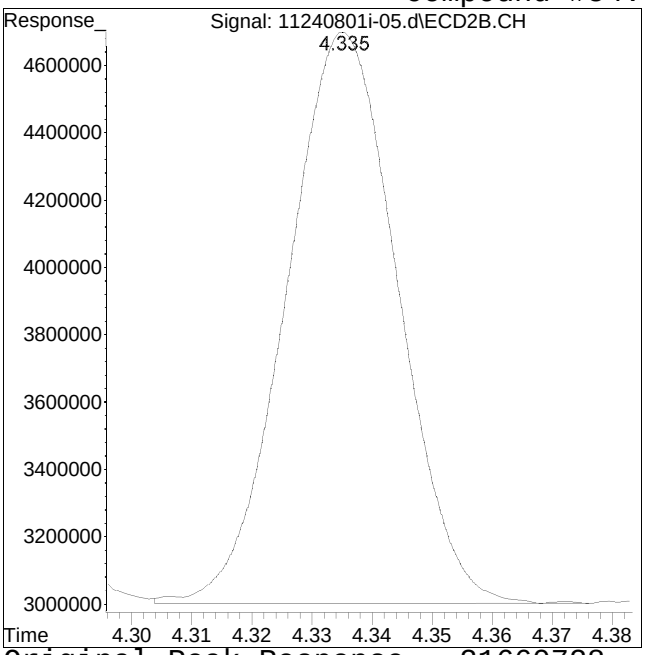


Manual Peak Response = 19930567 M4
M4 = Poor automated baseline construction.

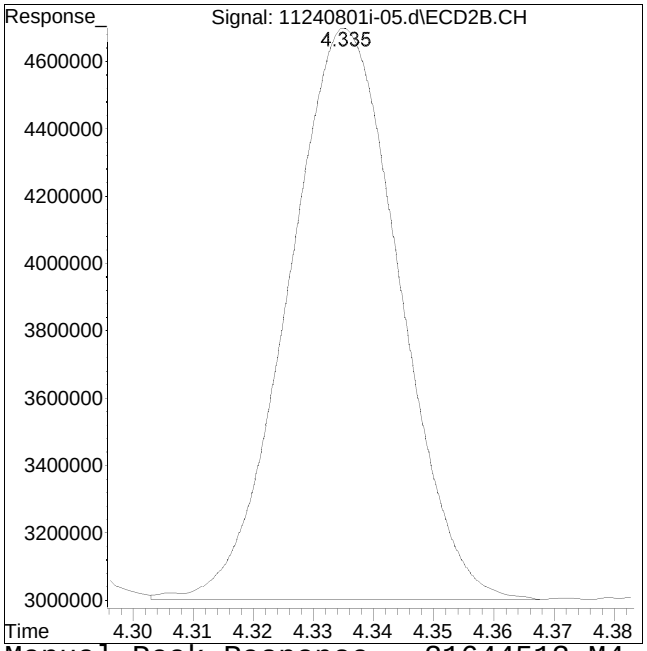
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #54: Endosulfan I #2



Original Peak Response = 21660728



Manual Peak Response = 21644513 M4

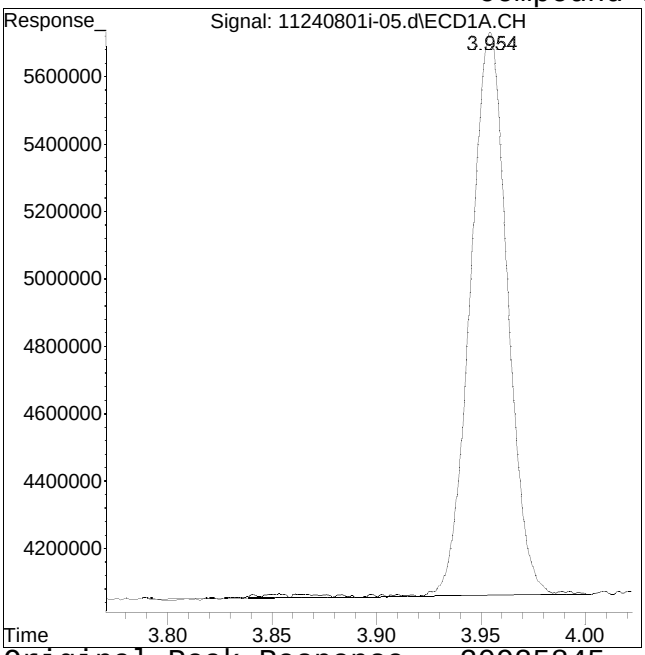
M4 = Poor automated baseline construction.

Manual Integration Report

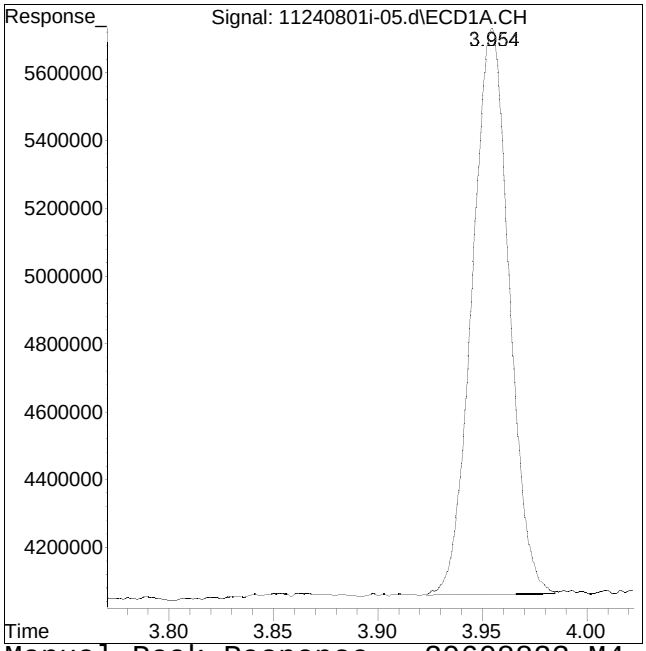
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #17: Dieldrin



Original Peak Response = 20925845



Manual Peak Response = 20608823 M4

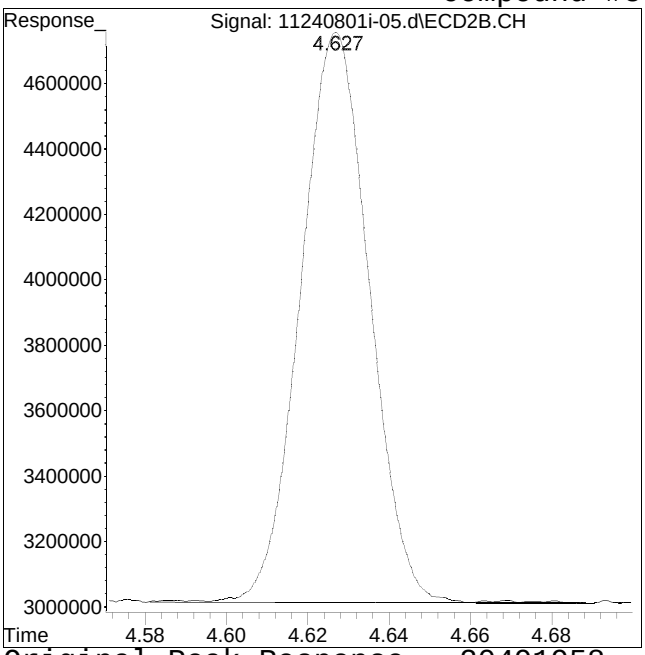
M4 = Poor automated baseline construction.

Manual Integration Report

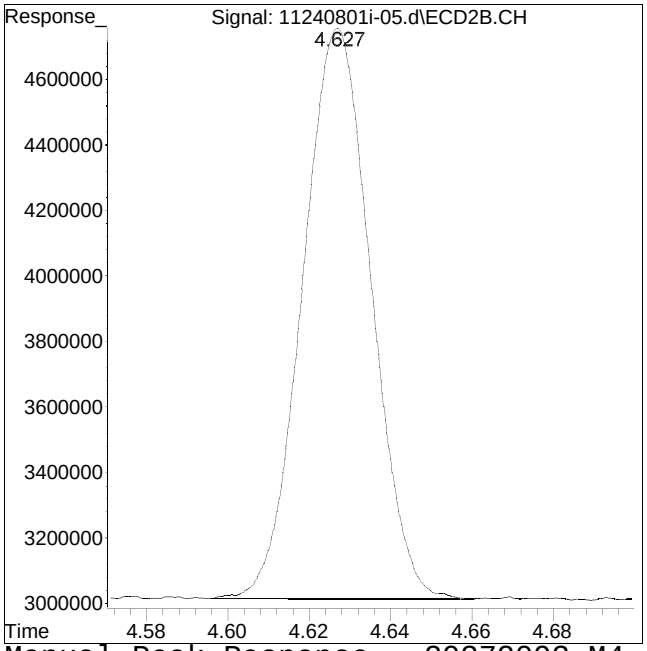
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #55: Dieldrin #2



Original Peak Response = 20491958



Manual Peak Response = 20372093 M4

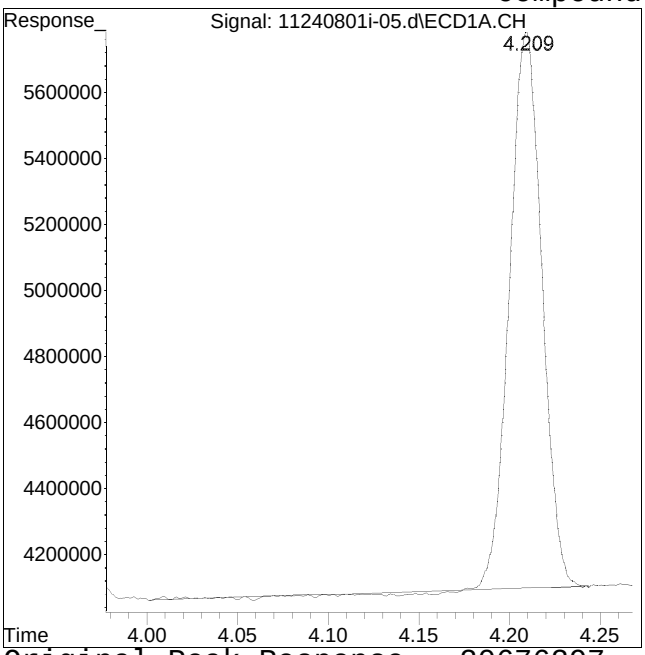
M4 = Poor automated baseline construction.

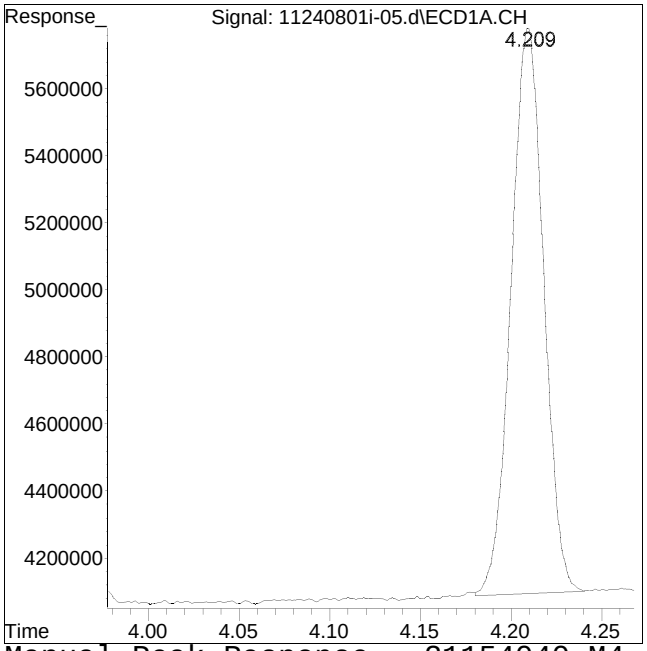
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #18: Endrin





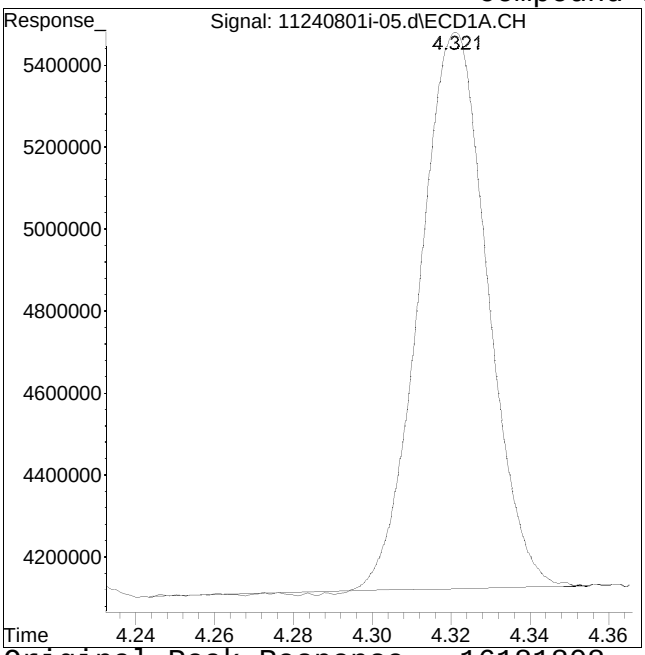
Original Peak Response = 20676297 Manual Peak Response = 21154040 M4
M4 = Poor automated baseline construction.

Manual Integration Report

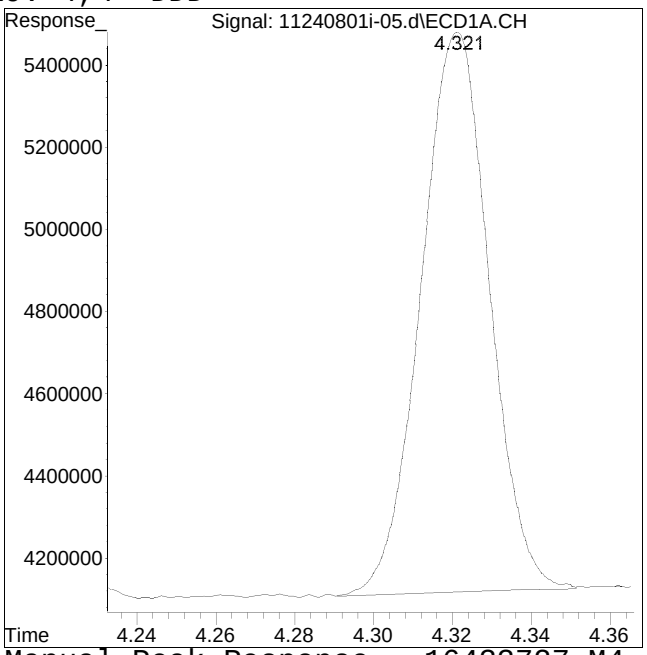
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #19: 4,4'-DDD



Original Peak Response = 16181808



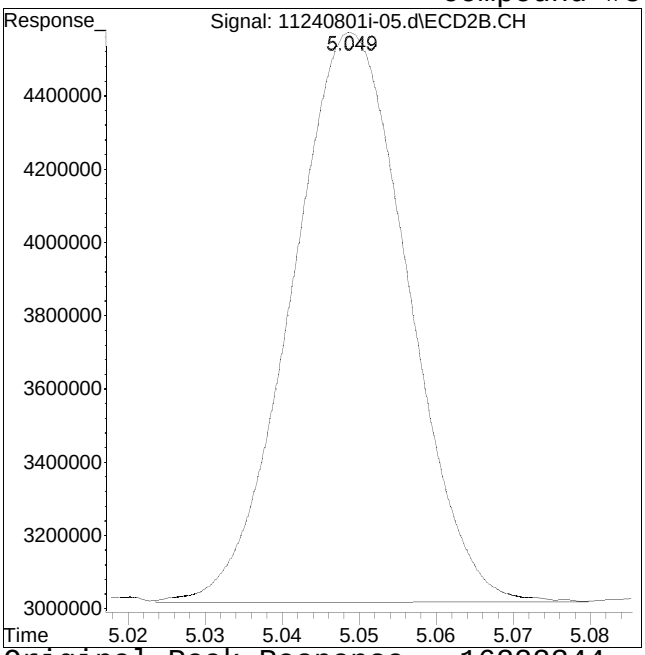
Manual Peak Response = 16433727 M4

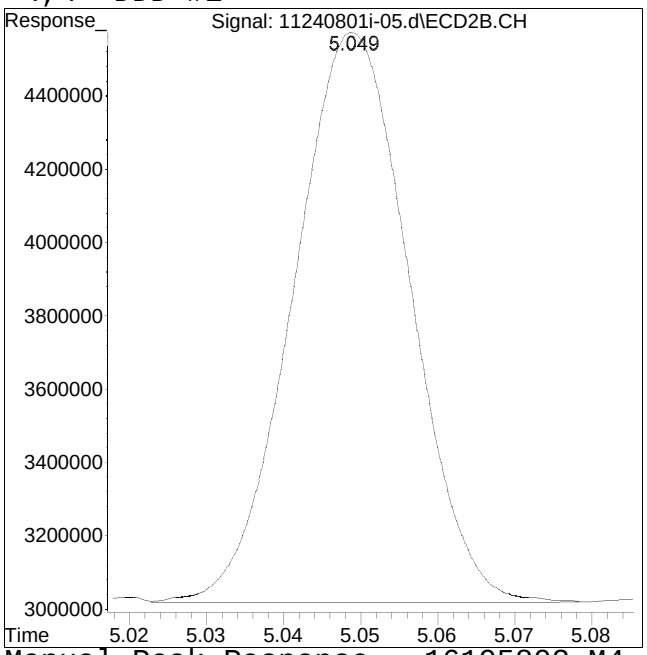
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #57: 4,4'-DDD #2





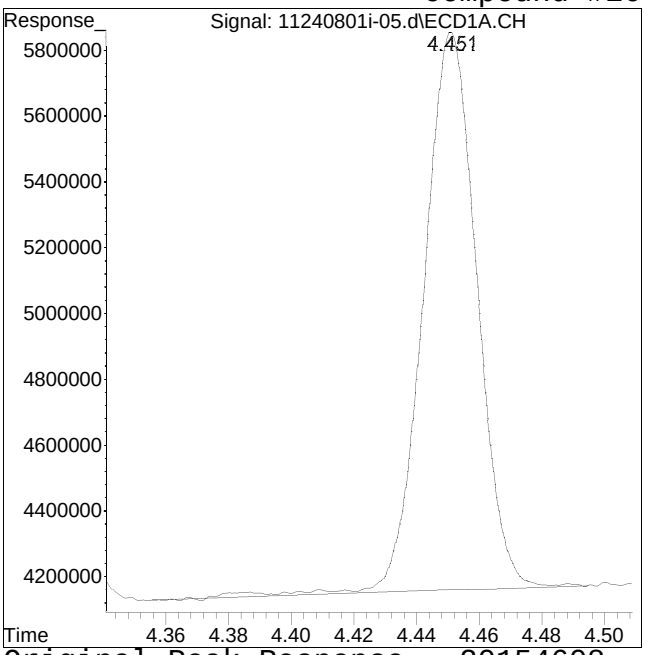
Original Peak Response = 16222344 Manual Peak Response = 16195802 M4
M4 = Poor automated baseline construction.

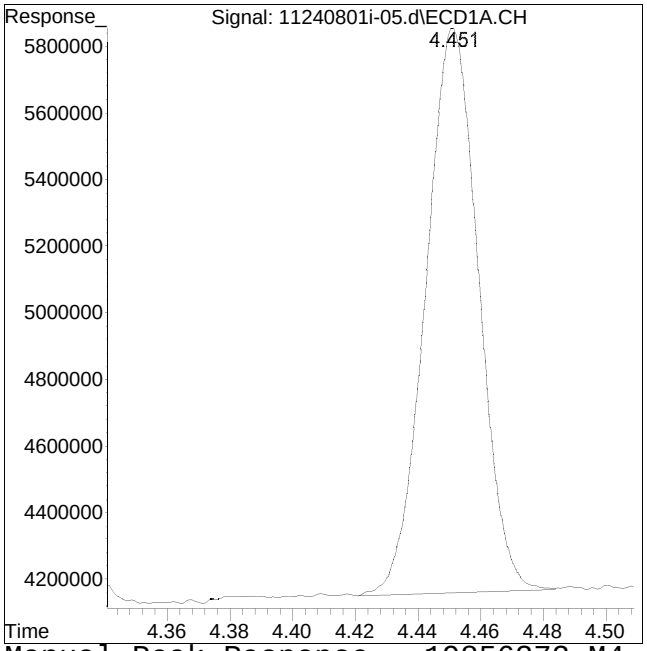
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #20: Endosulfan II



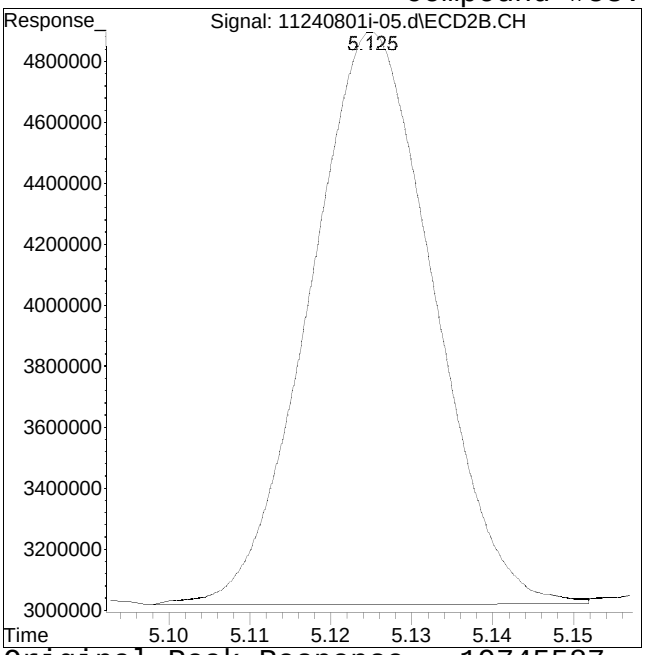


Original Peak Response = 20154608 Manual Peak Response = 19856372 M4
M4 = Poor automated baseline construction.

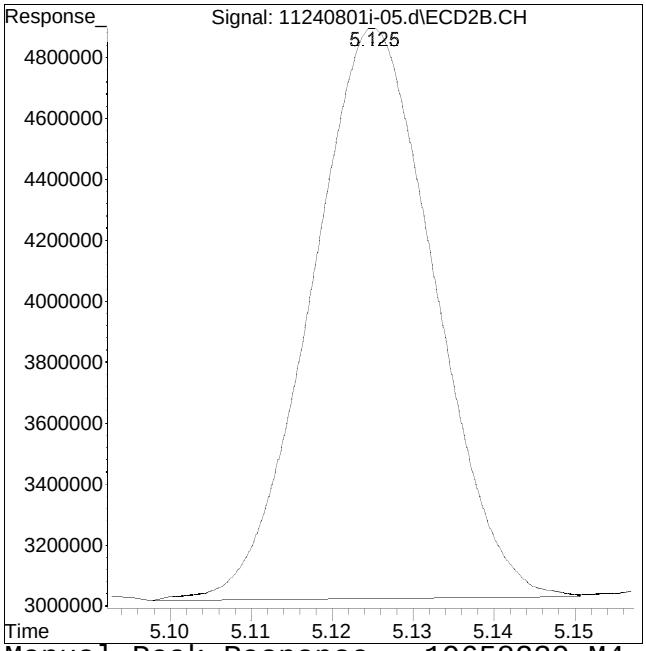
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #58: Endosulfan II #2



Original Peak Response = 19745587



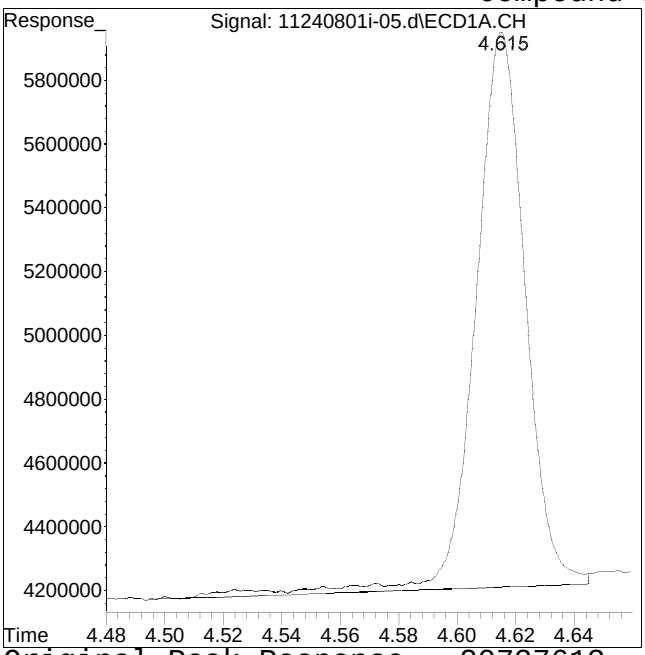
Manual Peak Response = 19658239 M4

M4 = Poor automated baseline construction.

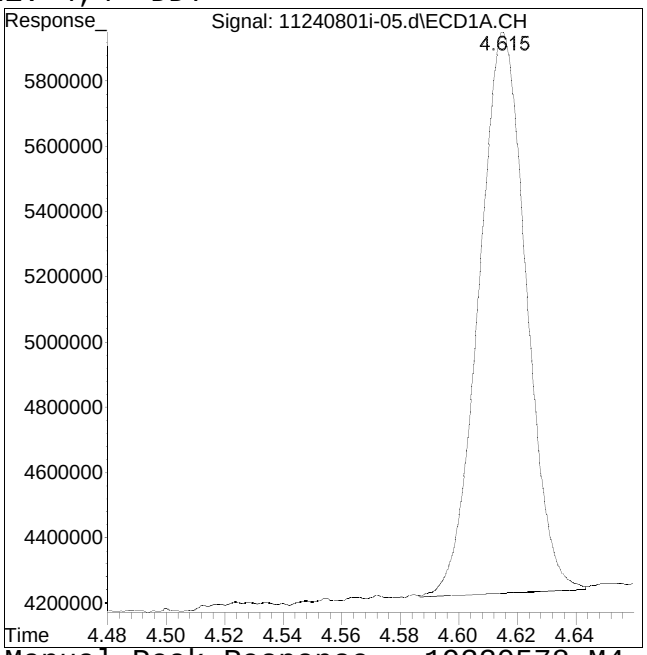
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #21: 4,4'-DDT



Original Peak Response = 20737613



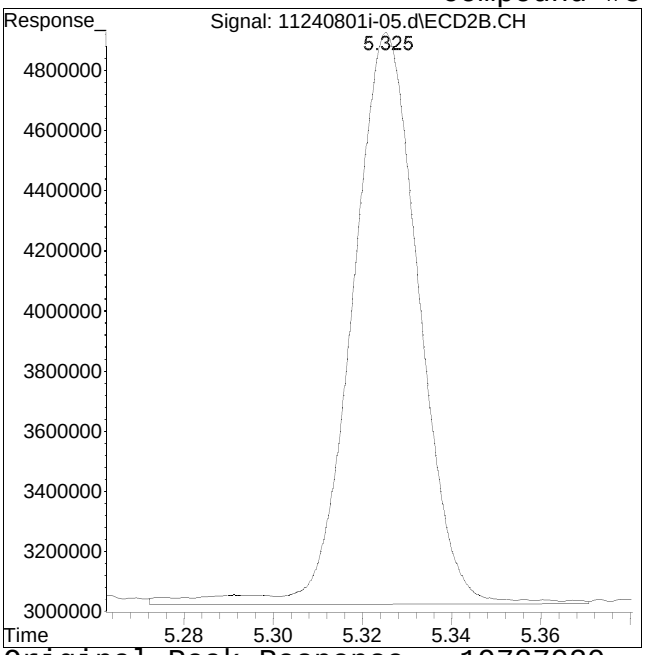
Manual Peak Response = 19330578 M4

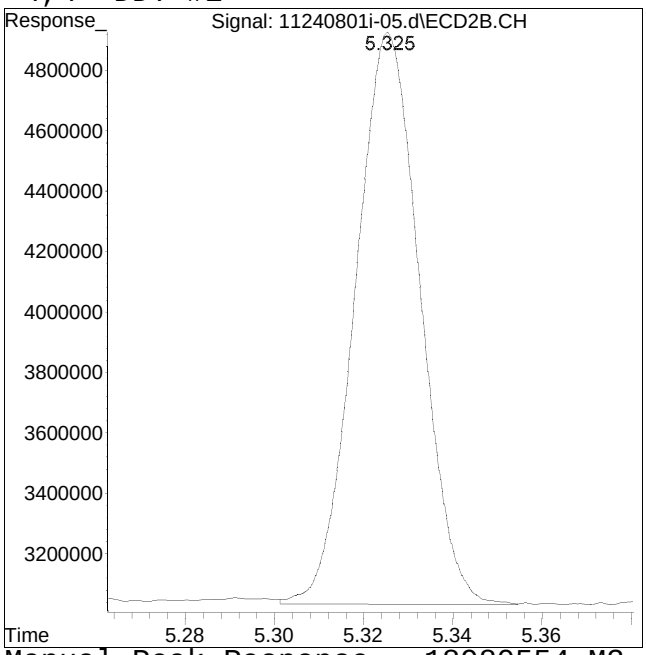
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #59: 4,4'-DDT #2





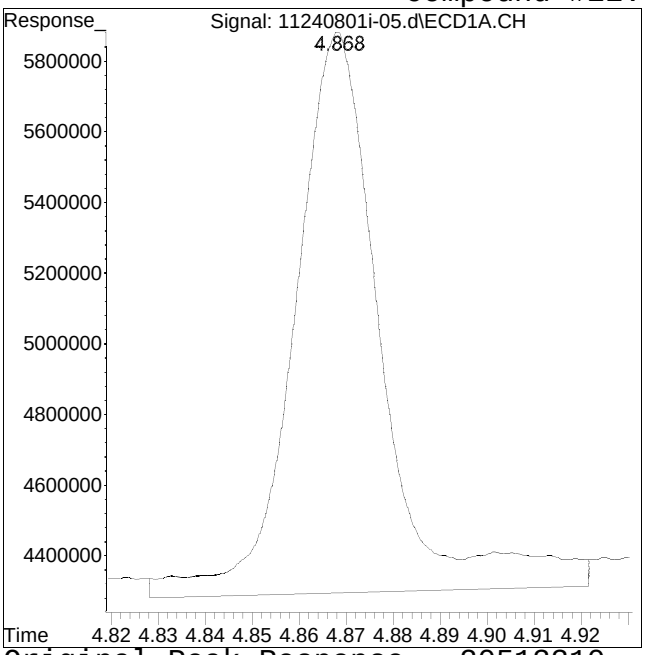
Original Peak Response = 19727930 Manual Peak Response = 18980554 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

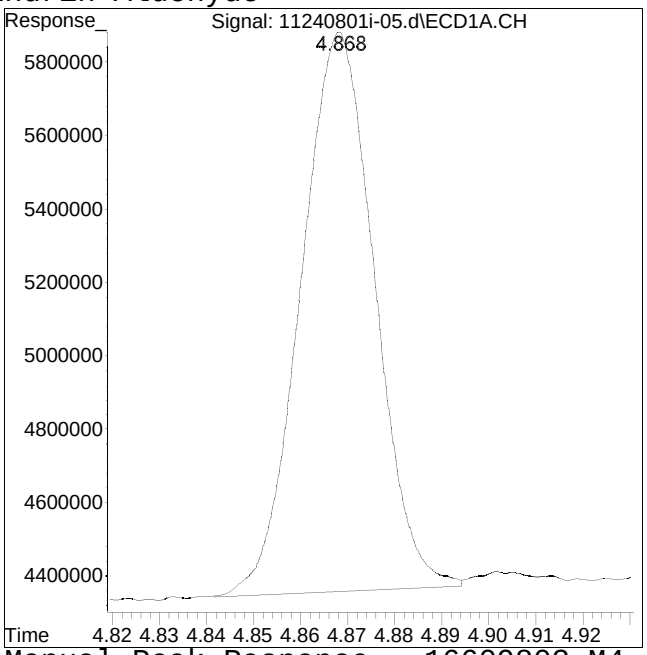
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #22: Endrin Aldehyde



Original Peak Response = 20513310



Manual Peak Response = 16609803 M4

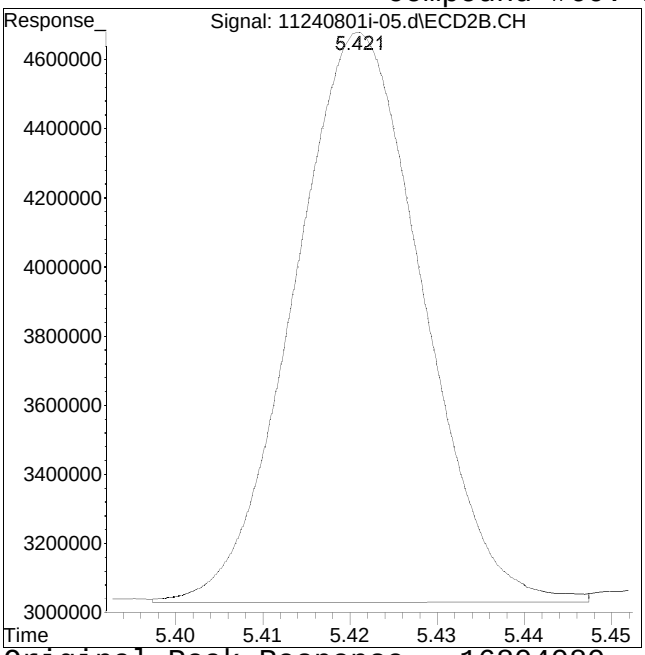
M4 = Poor automated baseline construction.

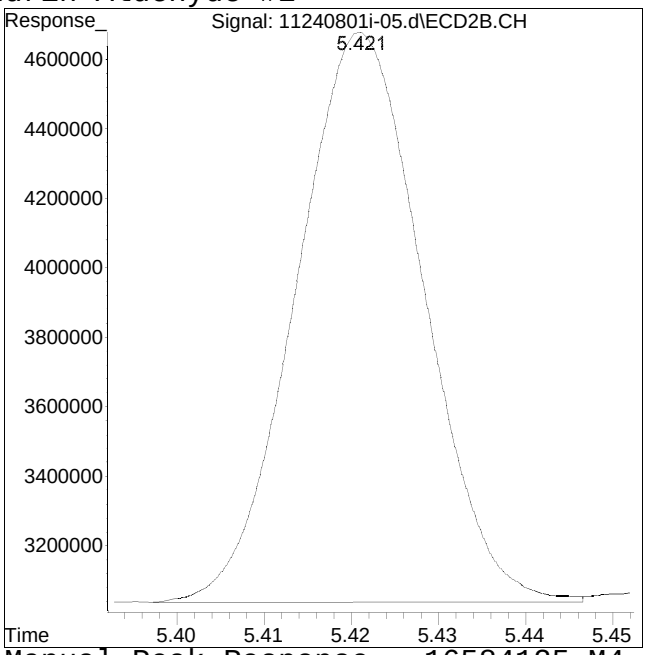
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #60: Endrin Aldehyde #2





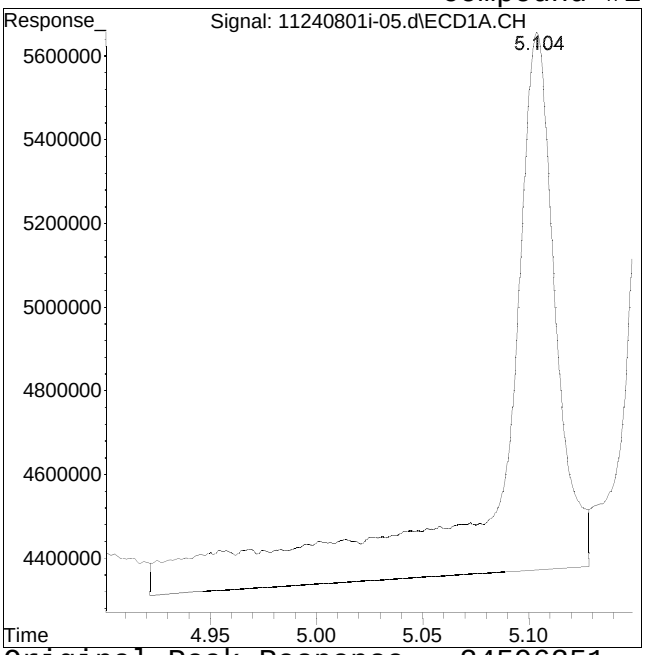
Original Peak Response = 16804080 Manual Peak Response = 16584125 M4
M4 = Poor automated baseline construction.

Manual Integration Report

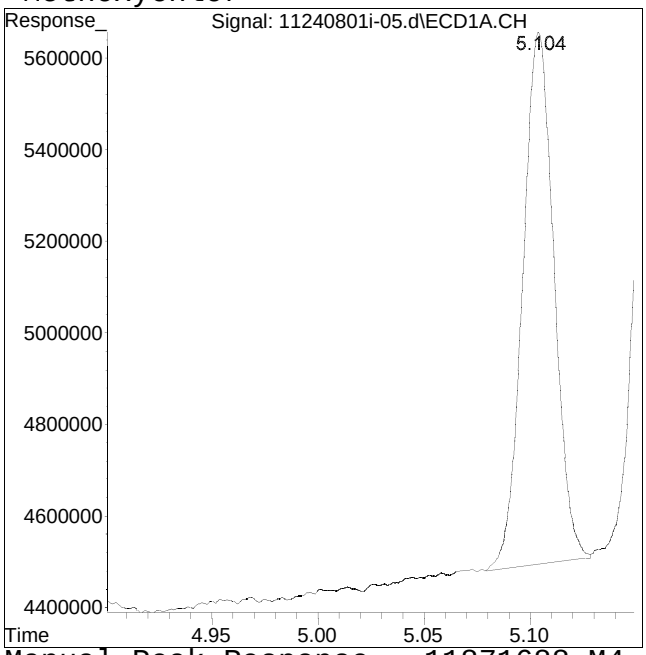
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #23: Methoxychlor



Original Peak Response = 24596251



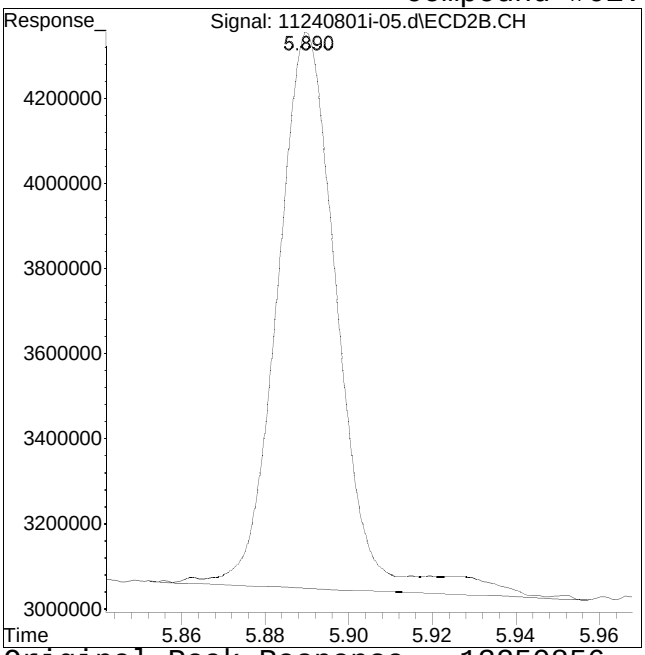
Manual Peak Response = 11871688 M4

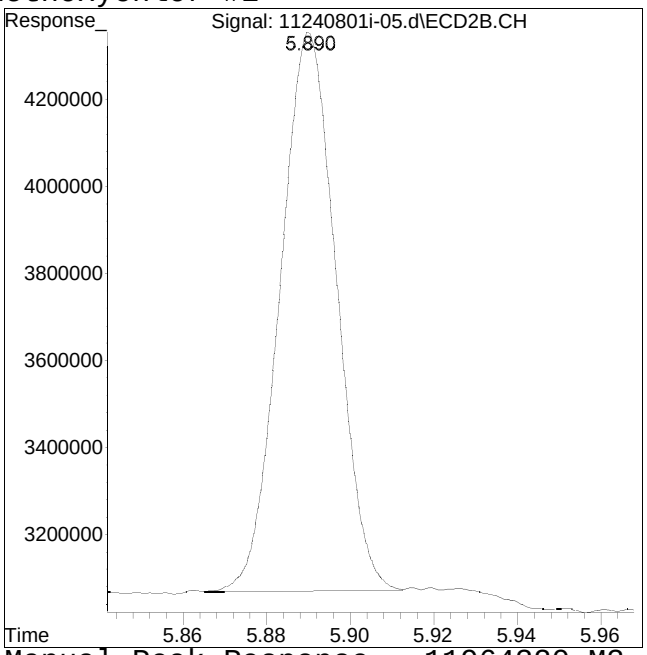
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #61: Methoxychlor #2



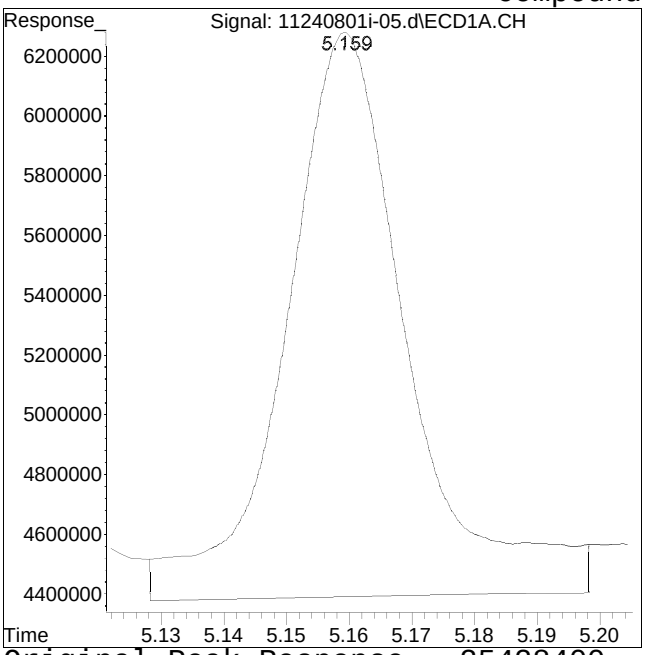


Original Peak Response = 13250856 Manual Peak Response = 11964320 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

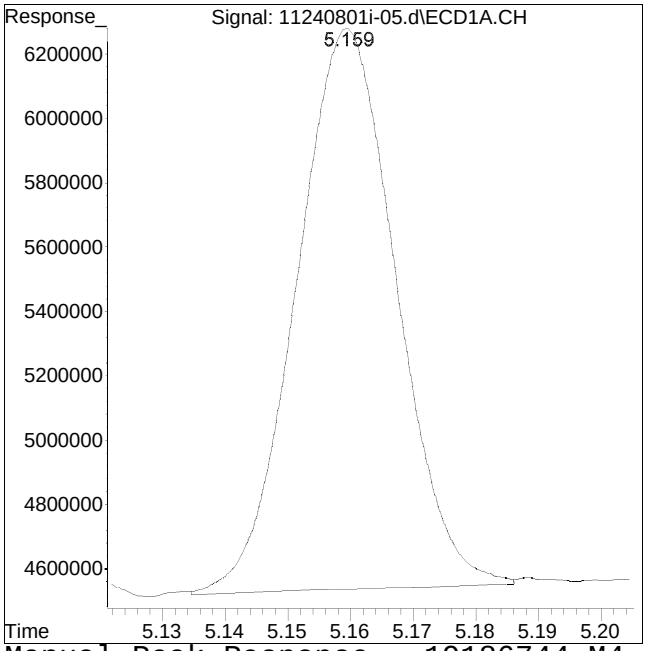
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #24: Mirex



Original Peak Response = 25428400



Manual Peak Response = 19186744 M4

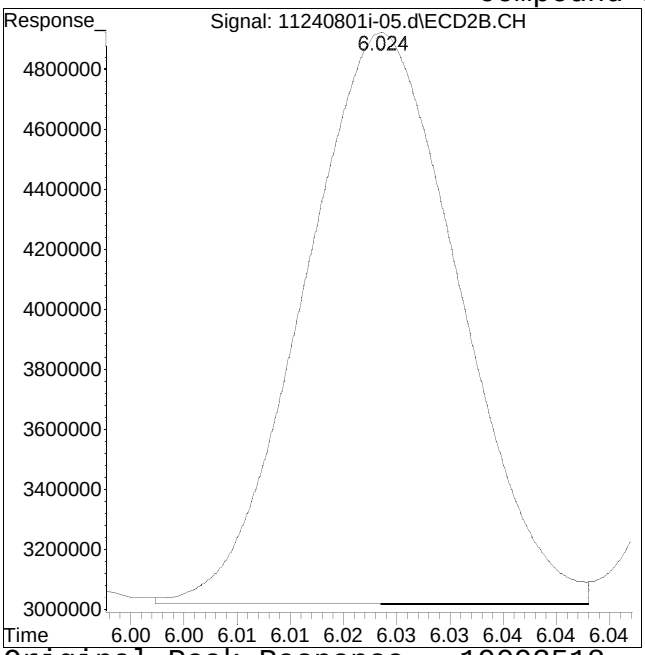
M4 = Poor automated baseline construction.

Manual Integration Report

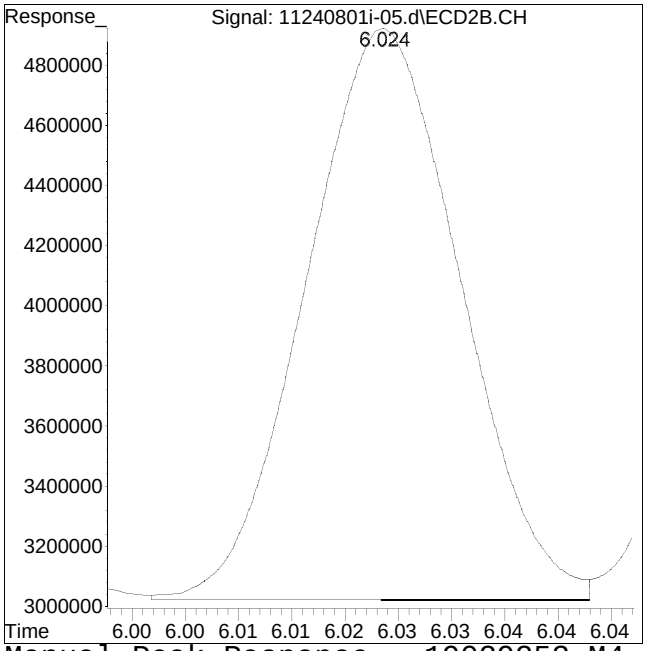
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #62: Mirex #2



Original Peak Response = 19093518



Manual Peak Response = 19029253 M4

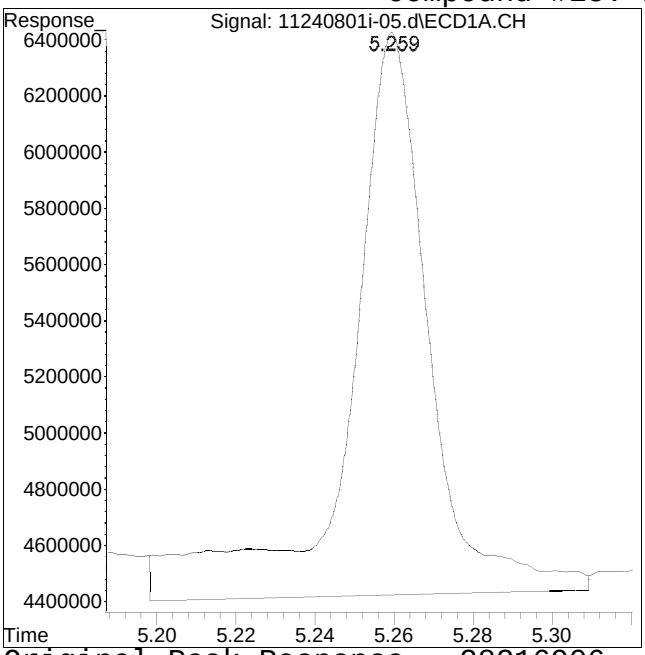
M4 = Poor automated baseline construction.

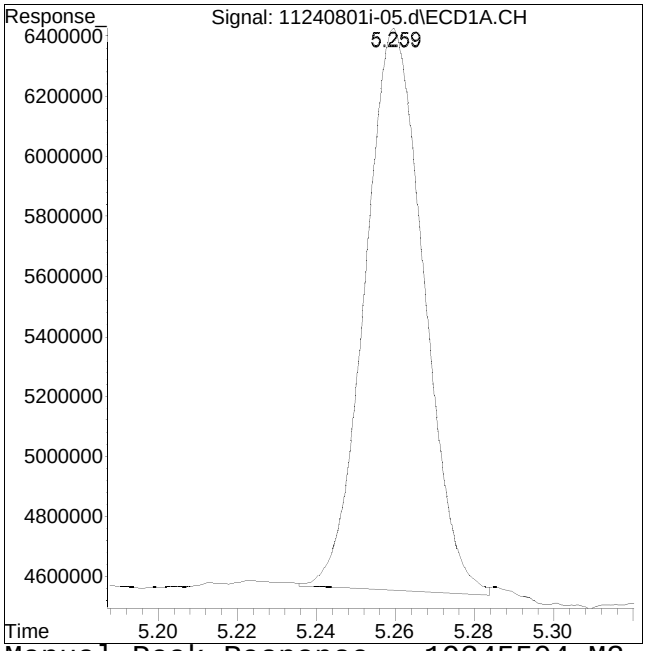
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #25: Endosulfan Sulfate





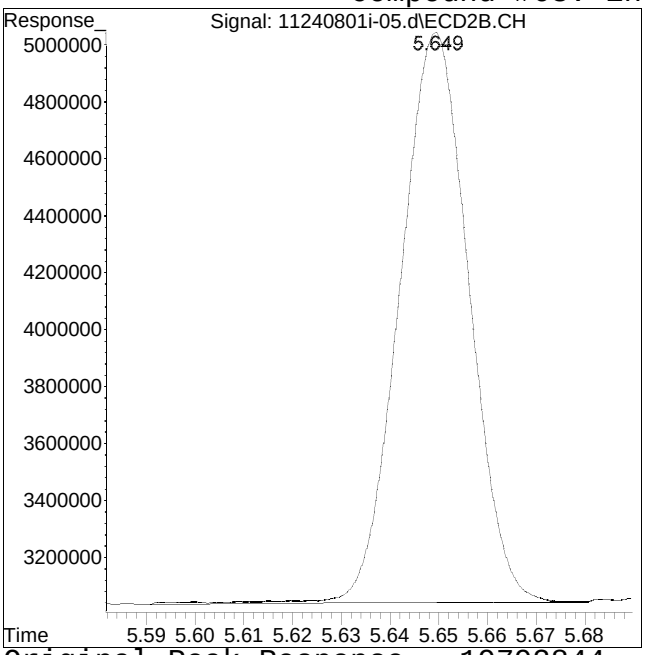
Original Peak Response = 28216906 Manual Peak Response = 19345504 M3

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

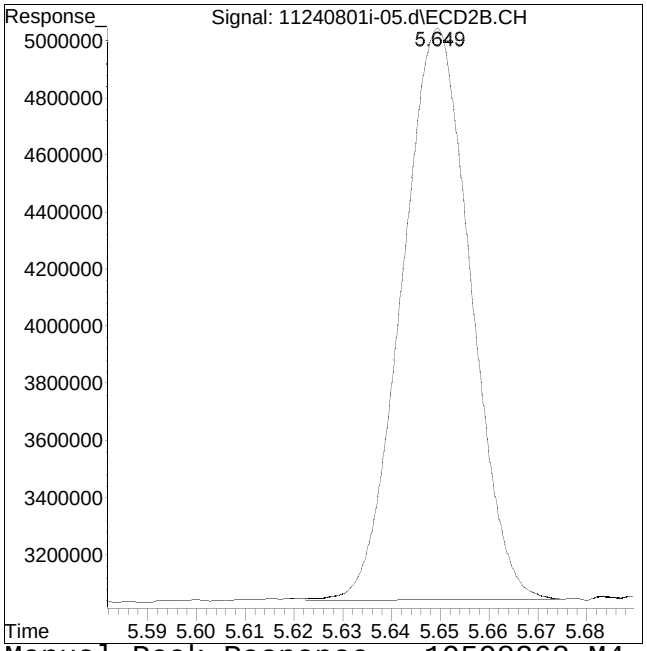
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 19792844



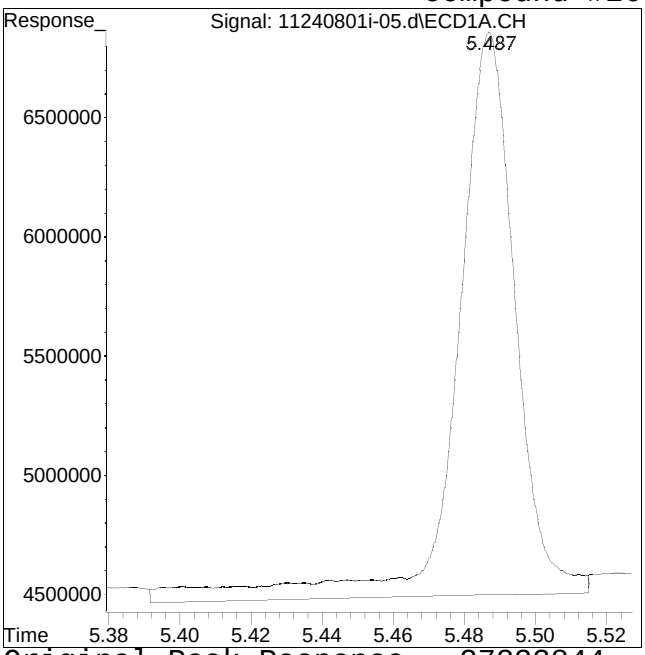
Manual Peak Response = 19598268 M4

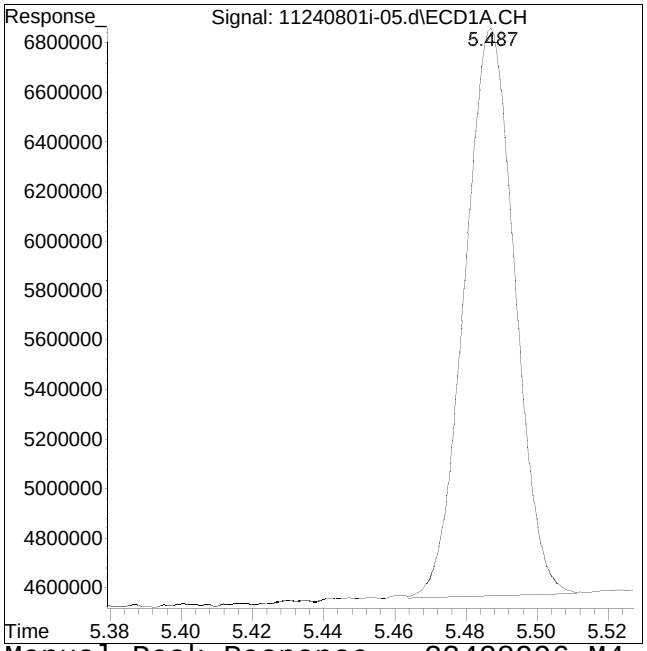
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #26: Endrin Ketone



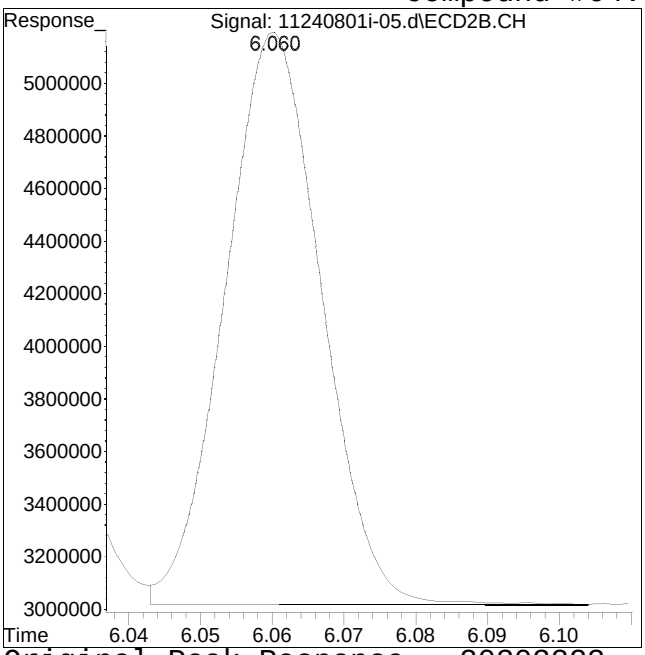


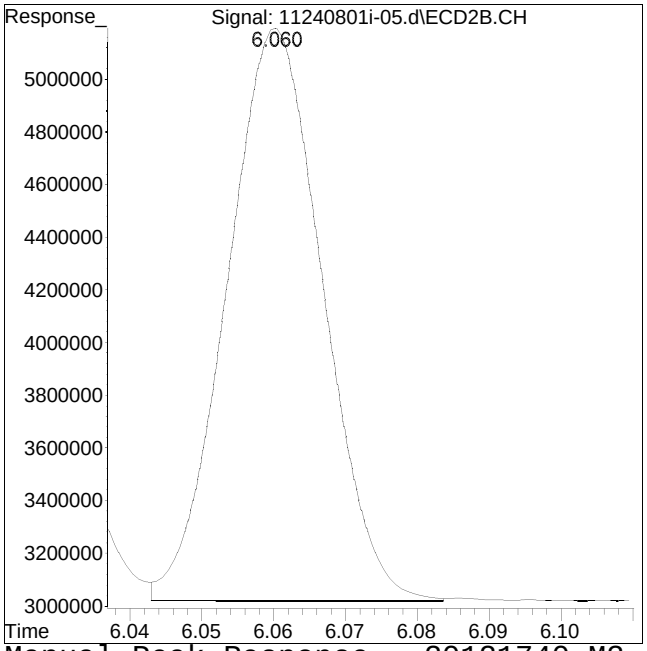
Original Peak Response = 27333844 Manual Peak Response = 22428996 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #64: Endrin Ketone #2





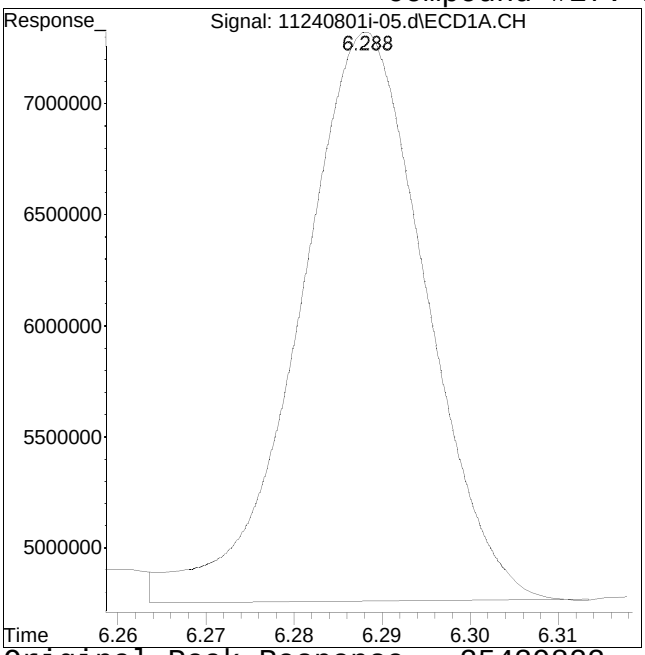
Original Peak Response = 20303223 Manual Peak Response = 20121740 M3

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

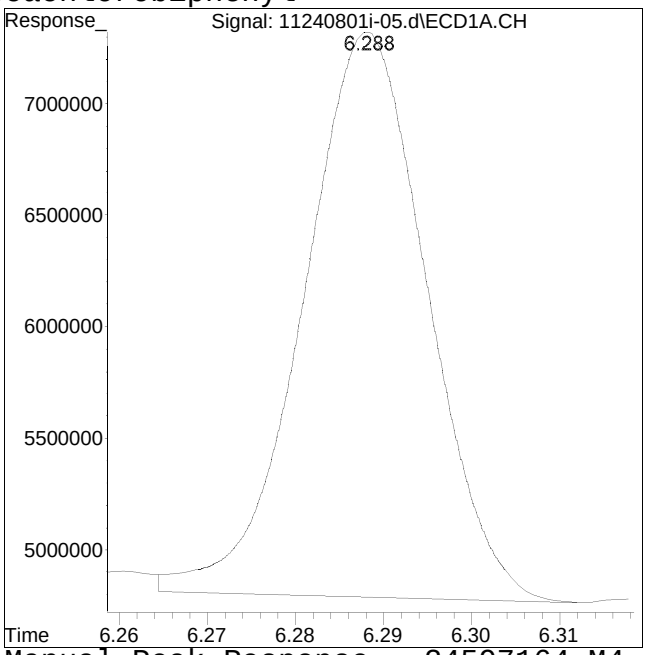
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 25439822



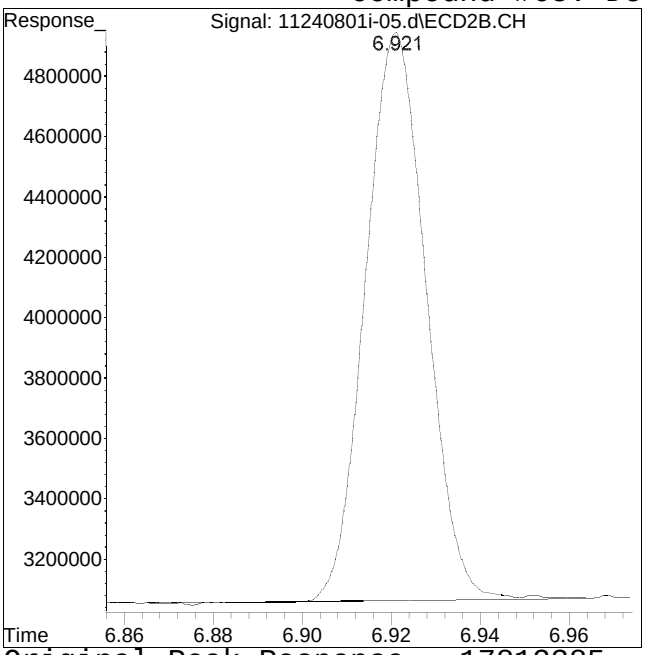
Manual Peak Response = 24597164 M4

M4 = Poor automated baseline construction.

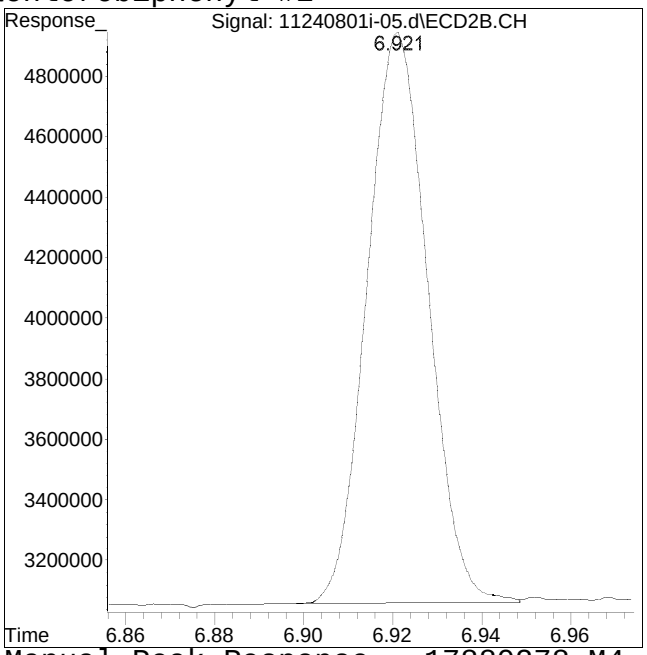
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 17812385



Manual Peak Response = 17880278 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	225.3E6	182.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	29080990	25002980	3.146M4	3.174M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.29%#	6.35%#
27) s	Decachlorobi	6.288	6.920	35723670	25963491	3.673M3	3.623
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.35%#	7.25%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.177	41044675	28990626	3.378M4	3.407M4
4) t	alpha-BHC	1.963	2.270	37177271	33446228	2.704M4	2.766M4
5) t	gamma-BHC (l	2.165	2.556	36664929	32438962	2.866	2.938M4
6) t	beta-BHC	2.221	2.622	18018371	17068674	3.280M4	3.539M4
7) t	delta-BHC	2.349	2.889	35236787	32007816	2.741M4	2.855M4
8) t	Heptachlor	2.513	2.951	36683442	36318635	3.092M4	3.237M4
9) t	Aldrin	2.755	3.270	33013771	31469739	2.925M3	3.041M4
10) t	Alachlor	2.876	3.153	6704352	6156990	3.330M4	3.985M4
11) t	Chlorpyrifos	2.968	3.506	18438577	22860352	3.688M4	3.962M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	33482006	33318329	3.165M3	3.371
13)	t	gamma-Chlord	3.424	4.104	29652579	30160649	3.062M3	3.308M4
14)	t	alpha-Chlord	3.558	4.274	33742908	33326776	3.077M4	3.307M4
15)	t	4,4'-DDE	3.656	4.472	32070400	29145586	2.927M4	2.985M4
16)	t	Endosulfan I	3.695	4.335	31252215	31096714	3.125	3.370M4
17)	t	Dieldrin	3.954	4.627	30771717	29641213	2.966M4	3.125M4
18)	t	Endrin	4.209	4.925	31764584	30138830	3.033M4	3.136M4
19)	t	4,4'-DDD	4.321	5.049	24810460	23764919	2.902M4	3.027M3
20)	t	Endosulfan I	4.451	5.125	29573503	28438999	3.135M4	3.375M4
21)	t	4,4'-DDT	4.614	5.325	28950153	27857323	2.987M4	3.095M4
22)	t	Endrin Aldeh	4.867	5.420	24805991	23963315	3.136M3	3.415M4
23)	t	Methoxychlor	5.104	5.890	18239522	17467129	3.612M4	3.699M4
24)	t	Mirex	5.159	6.023	28822274	27405414	3.547M3	3.862M4
25)	t	Endosulfan S	5.259	5.649	28795336	28540412	3.247M3	3.461
26)	t	Endrin Keton	5.486	6.060	33725466	29365808	3.191M4	3.323M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

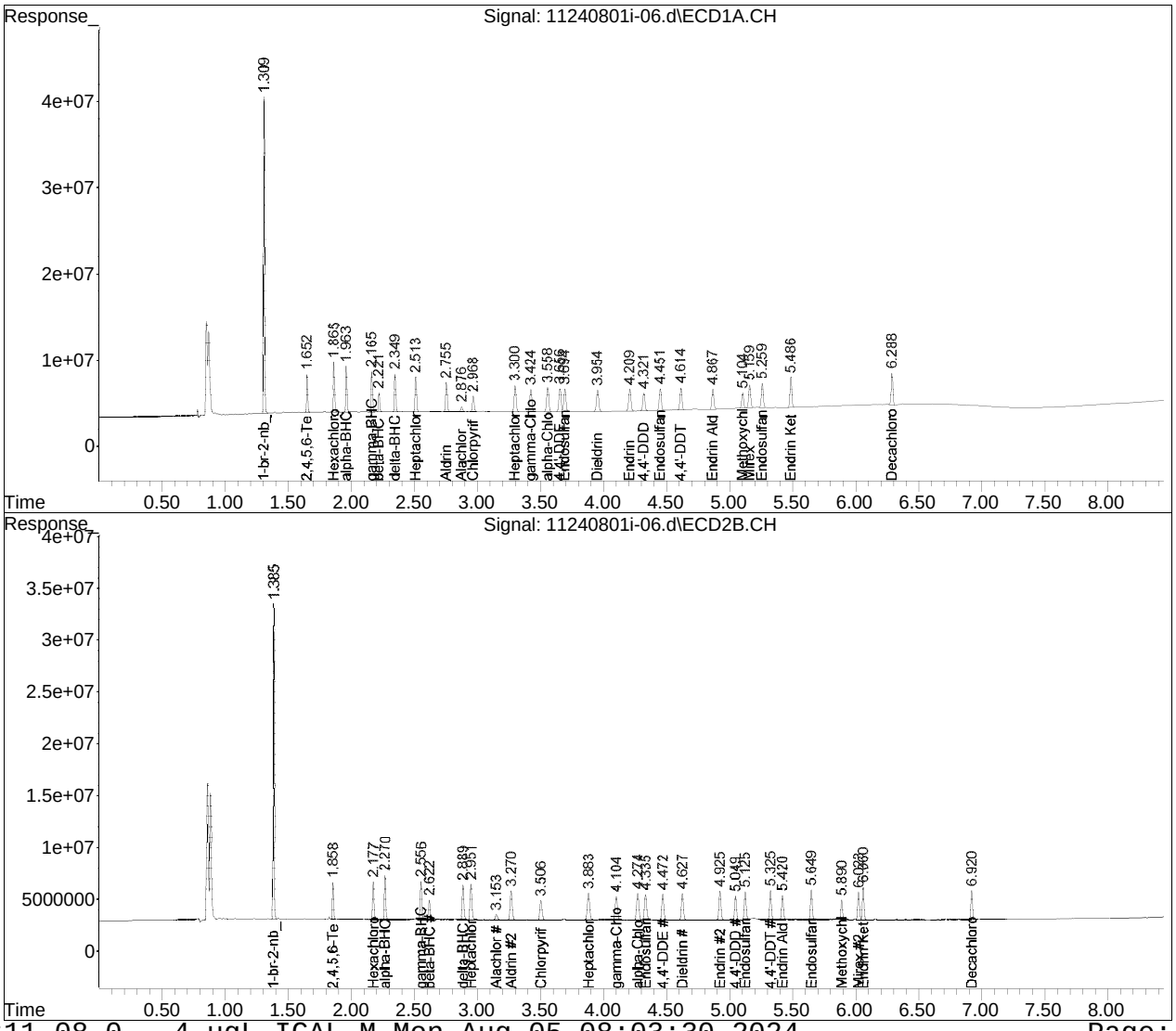
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

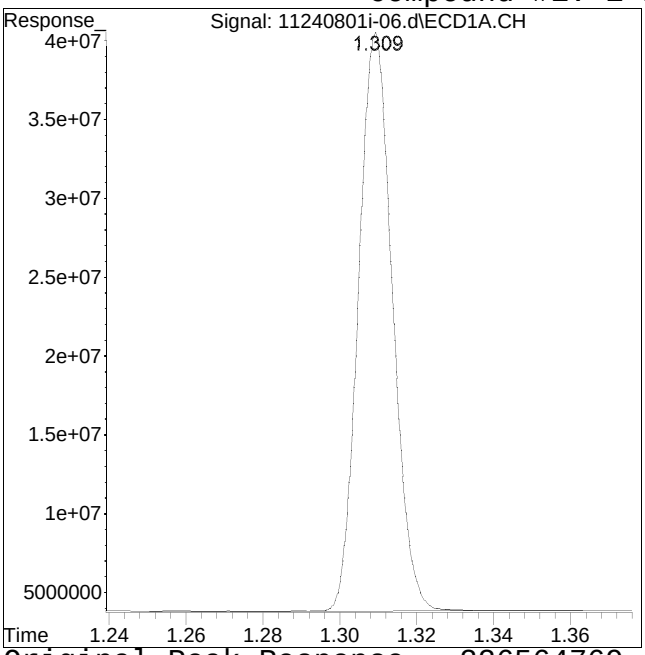
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

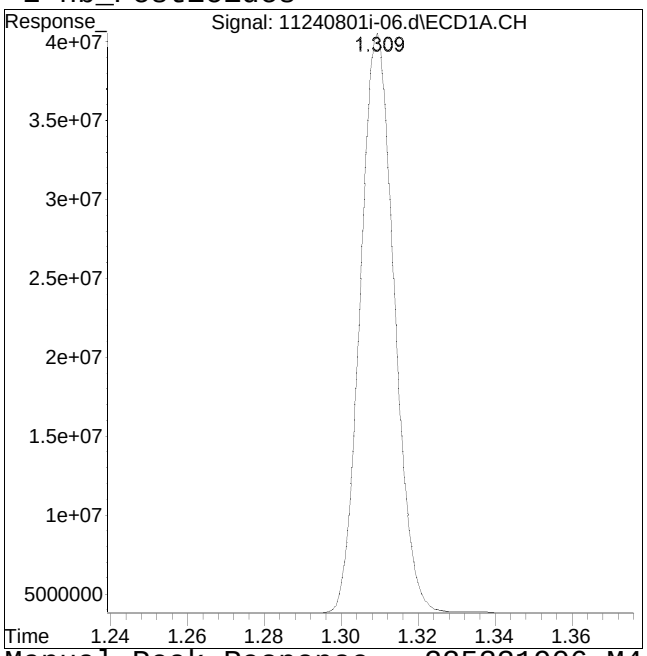


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #1: 1-br-2-nb_Pesticides





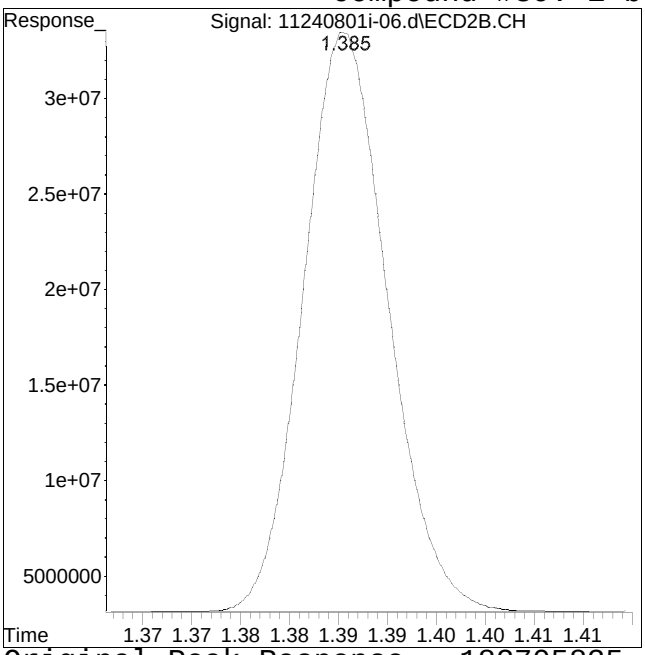
Original Peak Response = 226564769 Manual Peak Response = 225331906 M4
M4 = Poor automated baseline construction.

Manual Integration Report

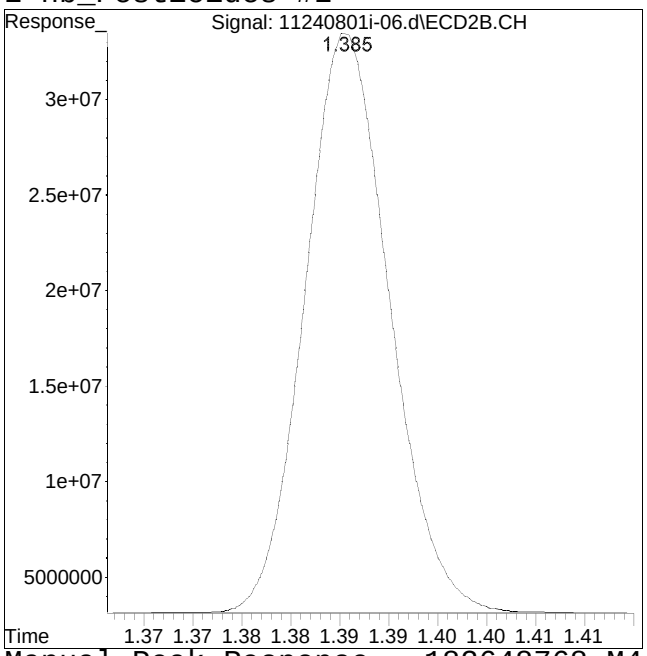
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 182705835



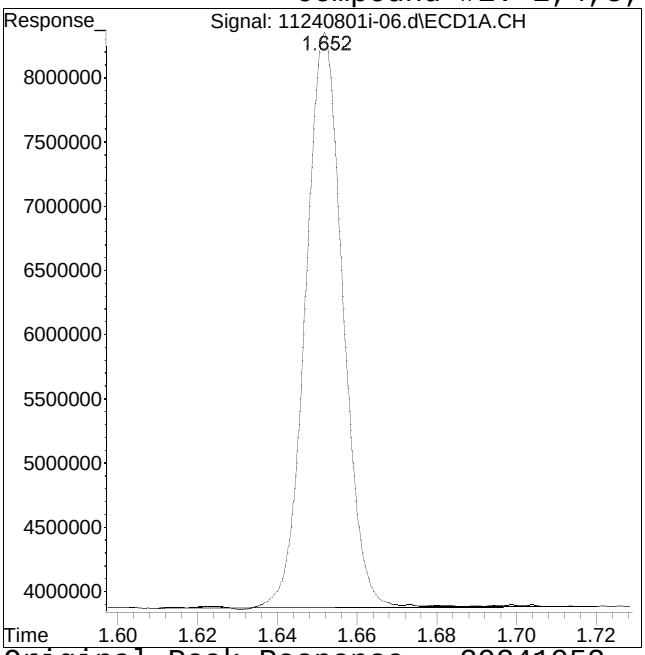
Manual Peak Response = 182648768 M4

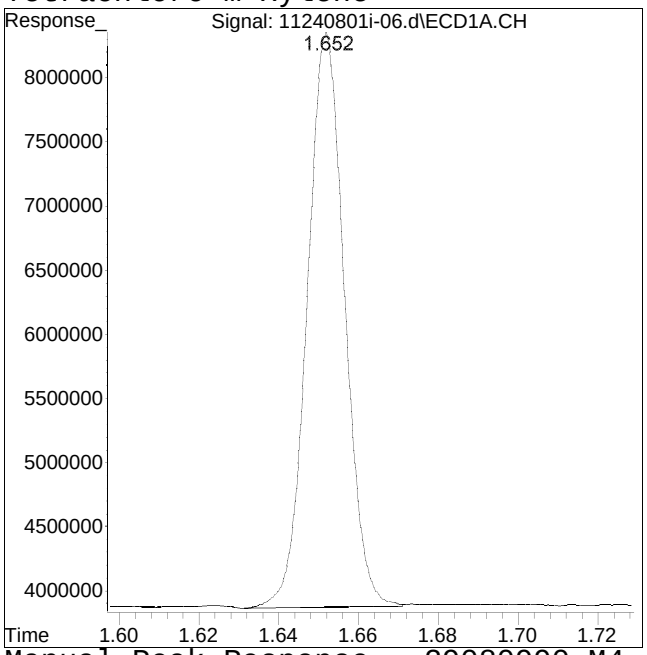
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



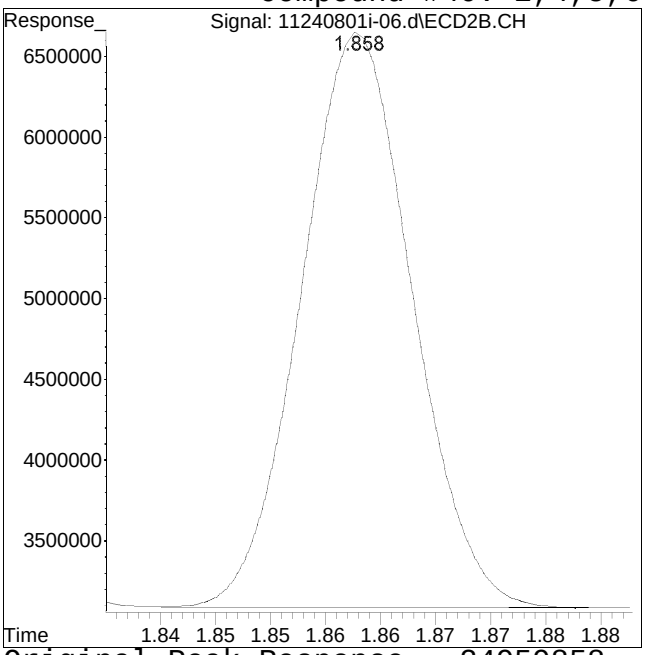


Original Peak Response = 29241952 Manual Peak Response = 29080990 M4
M4 = Poor automated baseline construction.

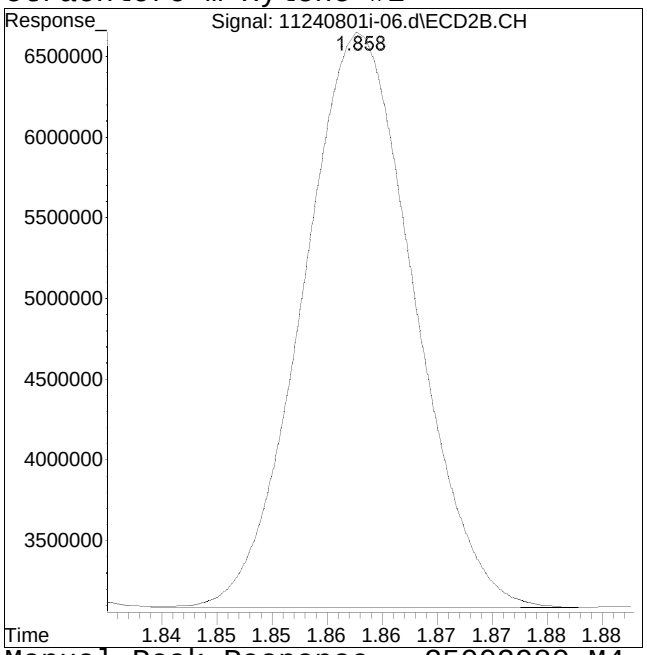
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 24959858



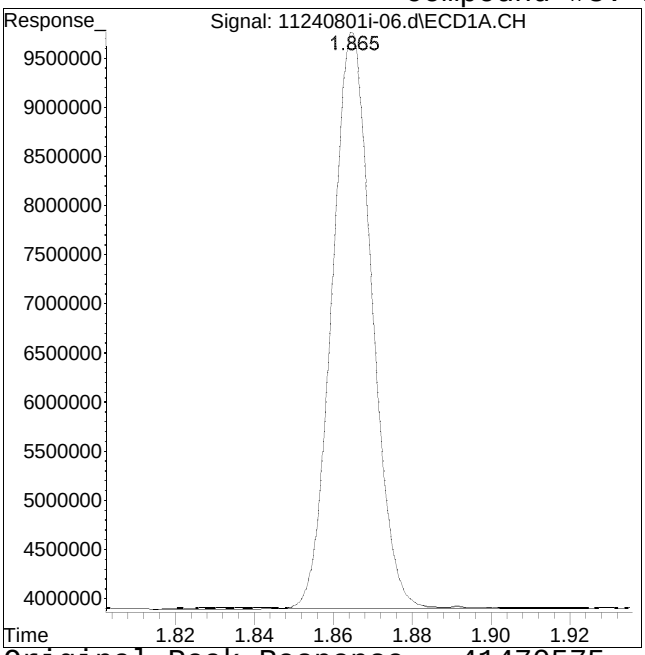
Manual Peak Response = 25002980 M4

M4 = Poor automated baseline construction.

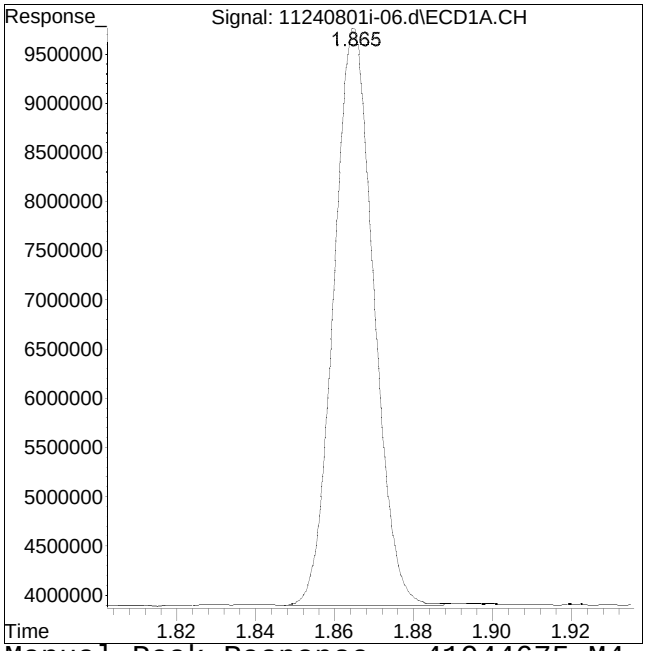
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #3: Hexachlorobenzene



Original Peak Response = 41470575



Manual Peak Response = 41044675 M4

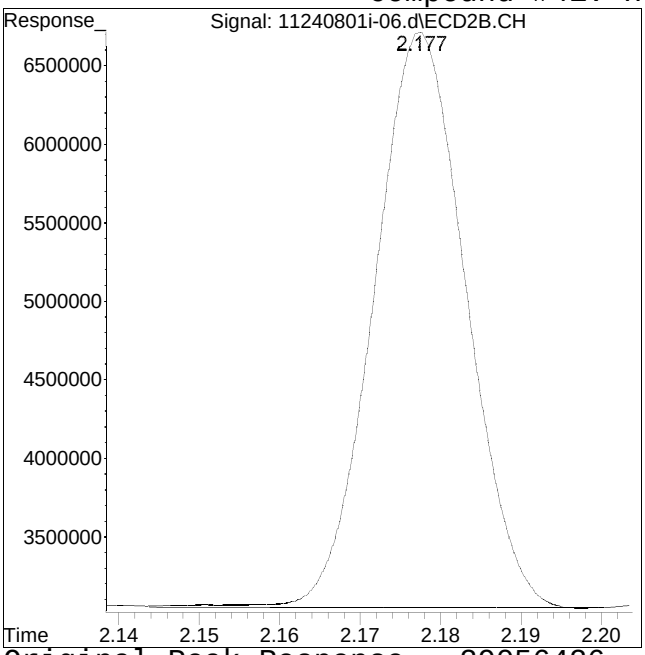
M4 = Poor automated baseline construction.

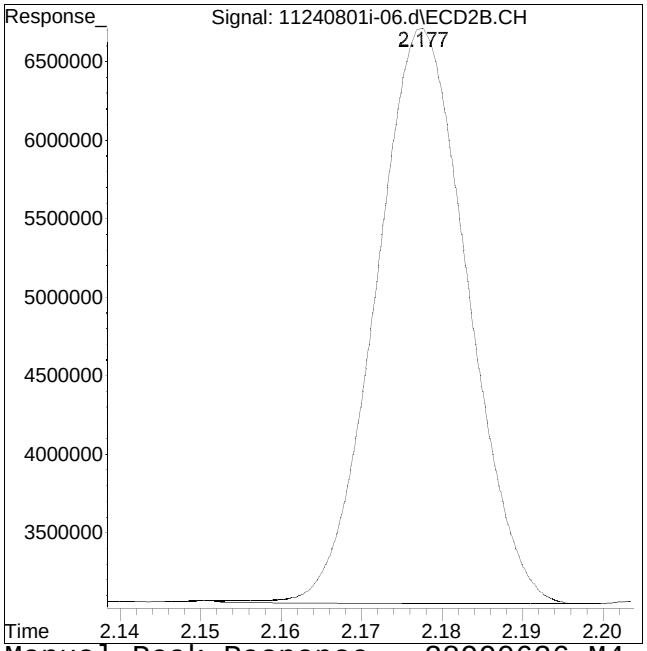
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #41: Hexachlorobenzene #2



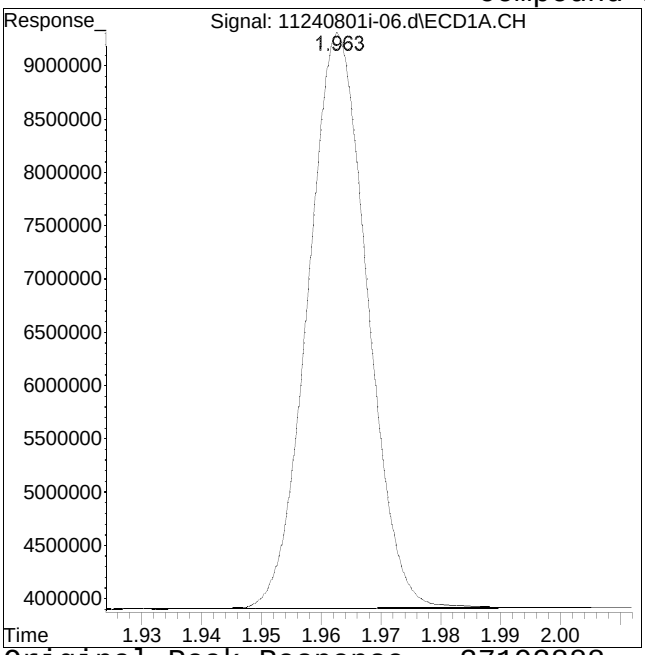


Original Peak Response = 29056426 Manual Peak Response = 28990626 M4
M4 = Poor automated baseline construction.

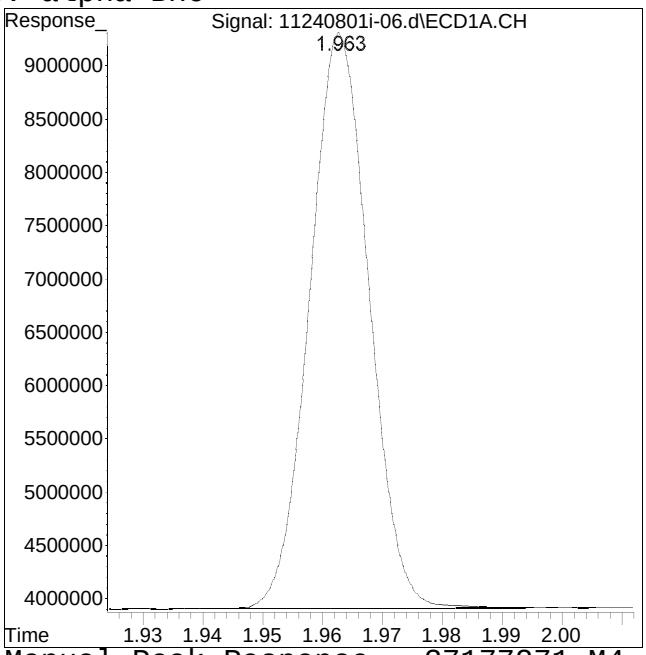
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #4: alpha-BHC



Original Peak Response = 37193888



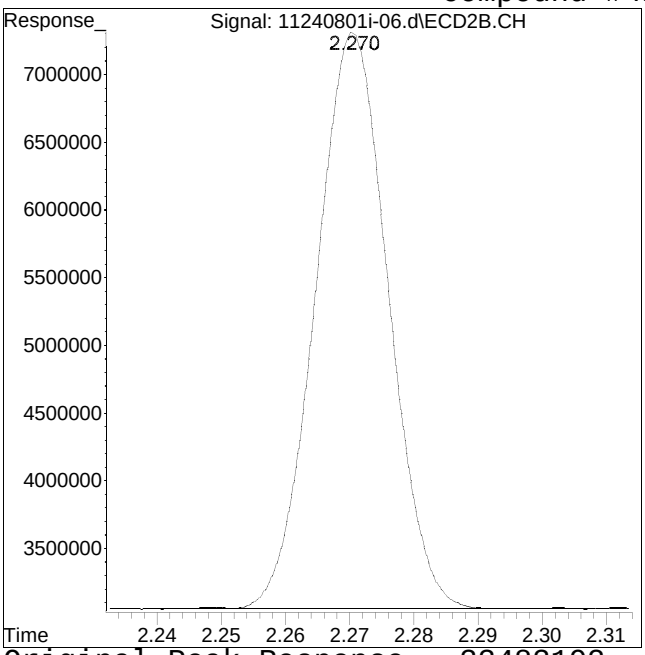
Manual Peak Response = 37177271 M4

M4 = Poor automated baseline construction.

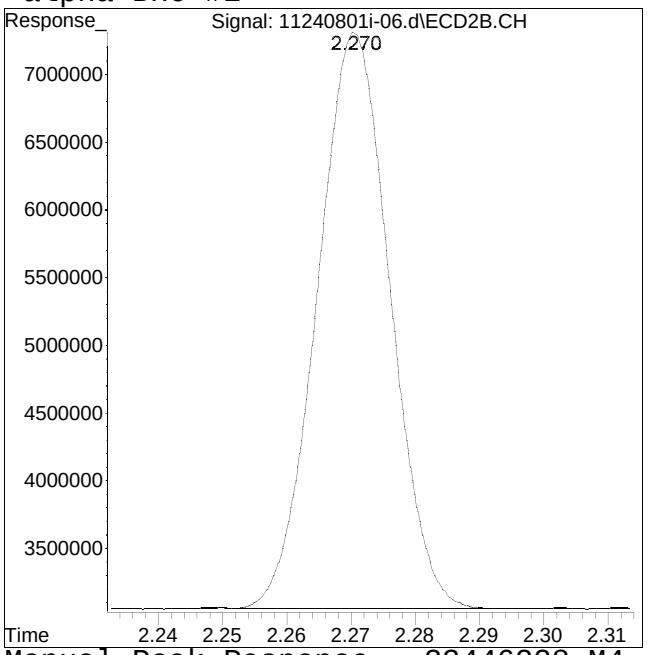
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #42: alpha-BHC #2



Original Peak Response = 33483192



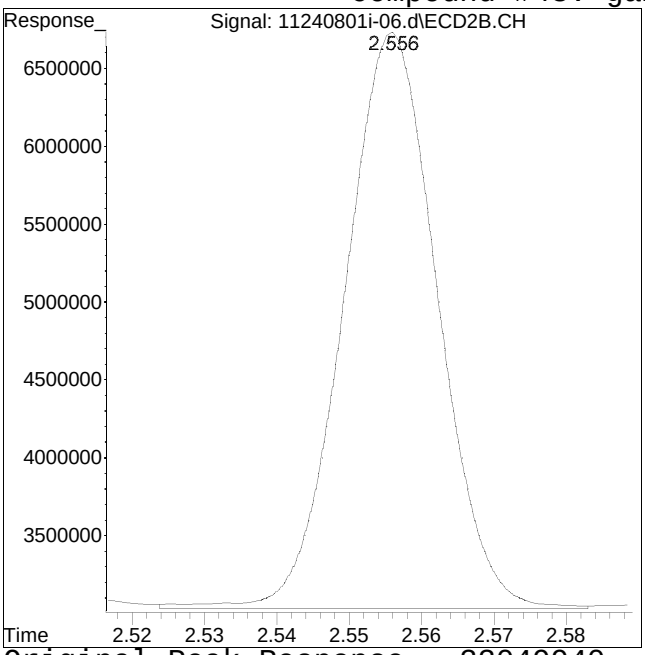
Manual Peak Response = 33446228 M4

M4 = Poor automated baseline construction.

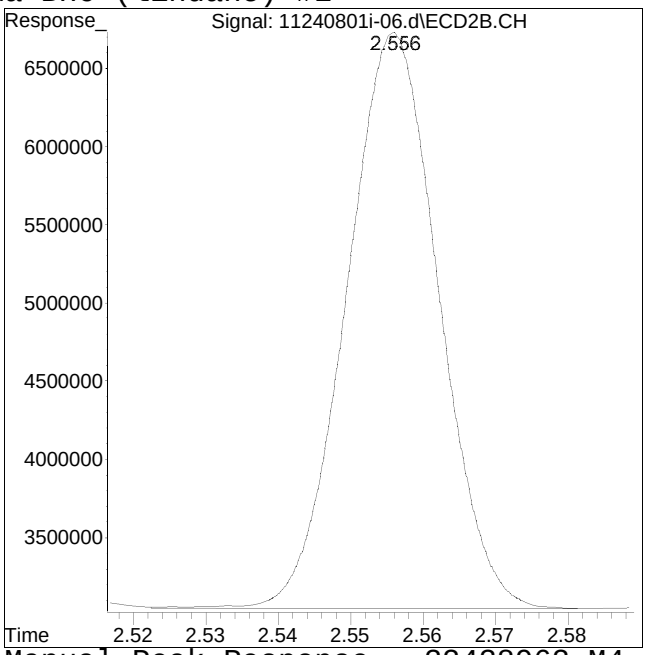
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 33049940



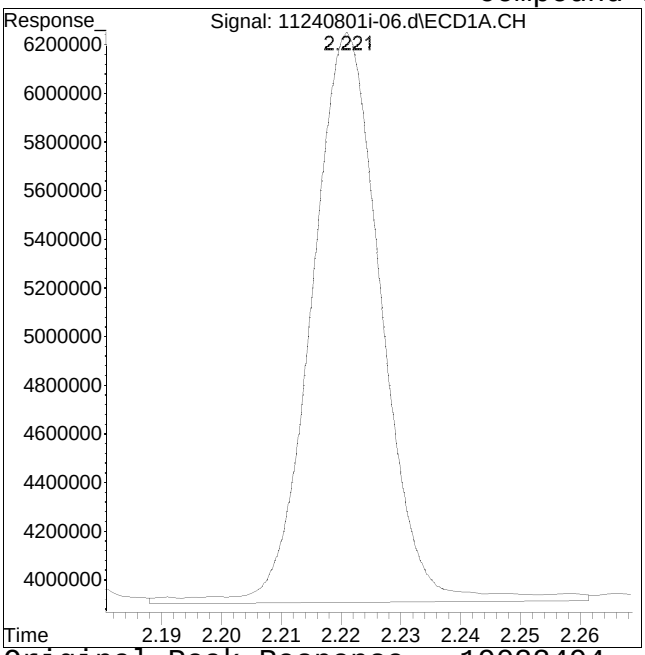
Manual Peak Response = 32438962 M4

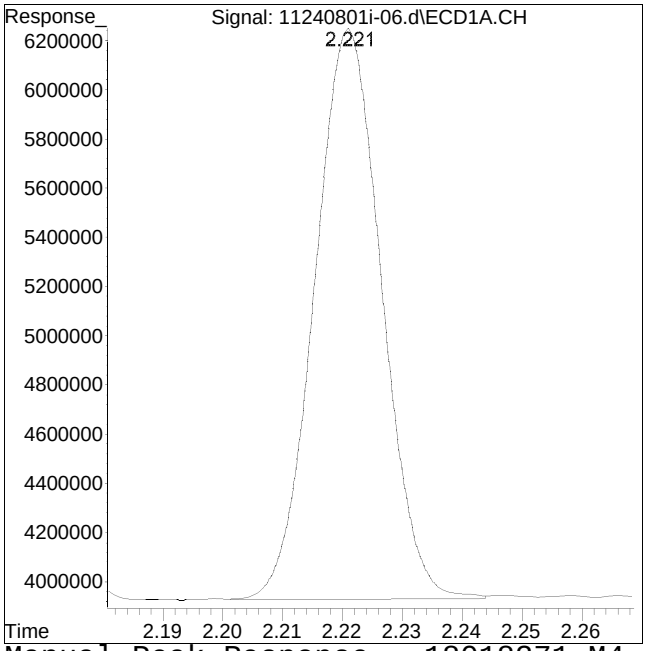
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #6: beta-BHC





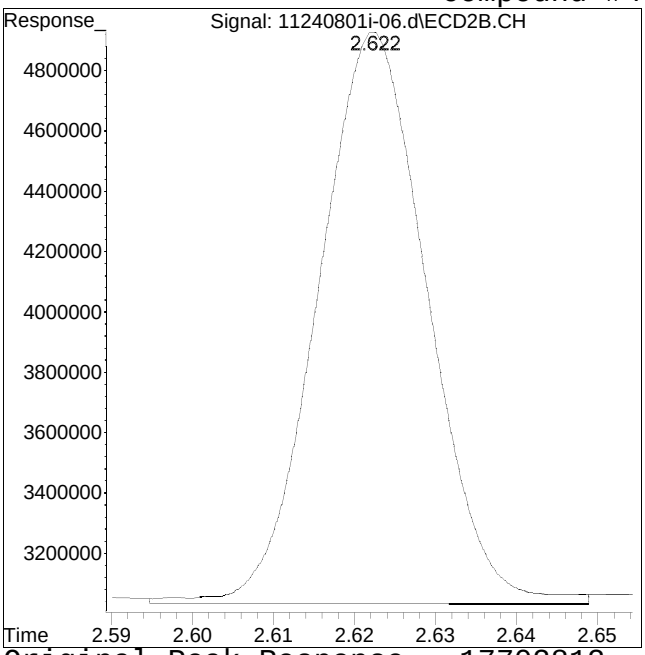
Original Peak Response = 19022494 Manual Peak Response = 18018371 M4
M4 = Poor automated baseline construction.

Manual Integration Report

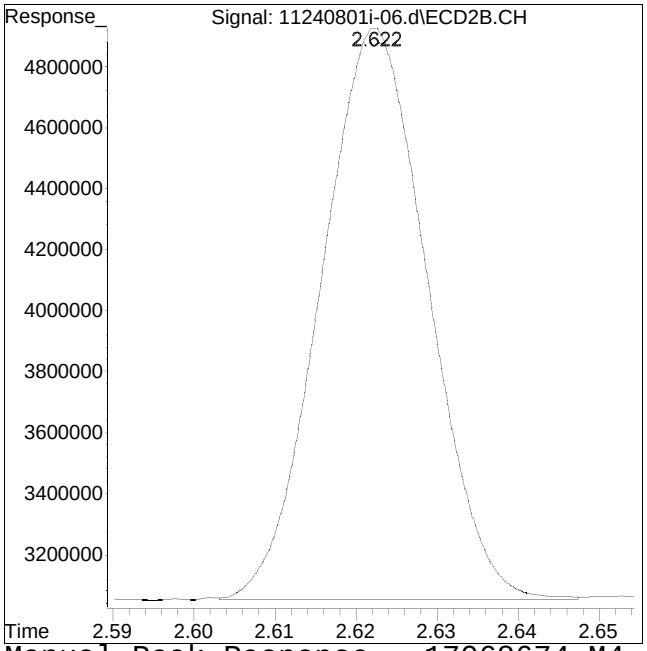
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #44: beta-BHC #2



Original Peak Response = 17702812



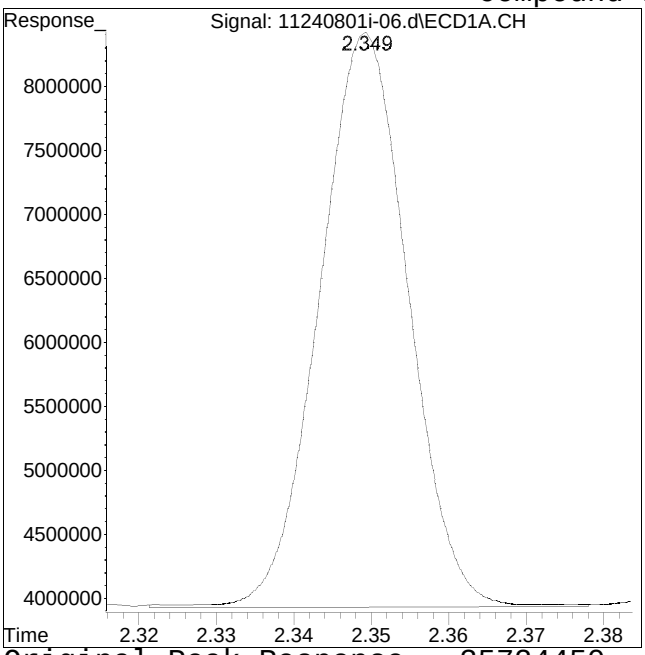
Manual Peak Response = 17068674 M4

M4 = Poor automated baseline construction.

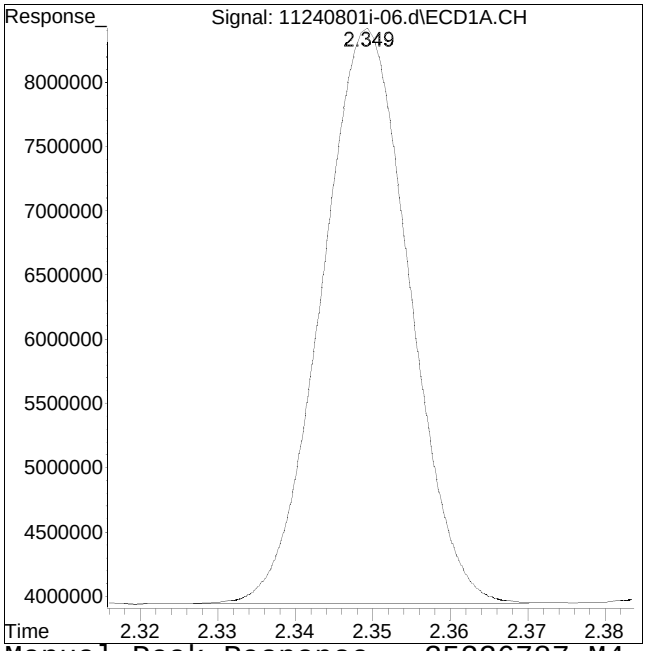
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #7: delta-BHC



Original Peak Response = 35724450



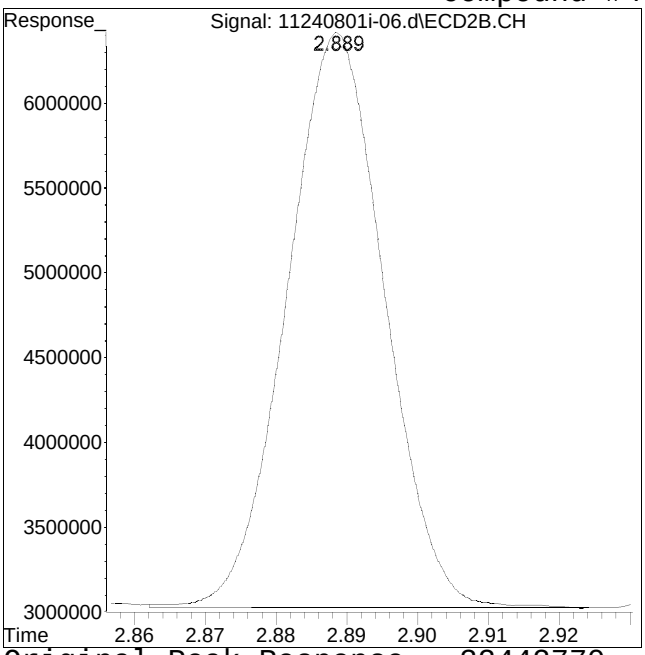
Manual Peak Response = 35236787 M4

M4 = Poor automated baseline construction.

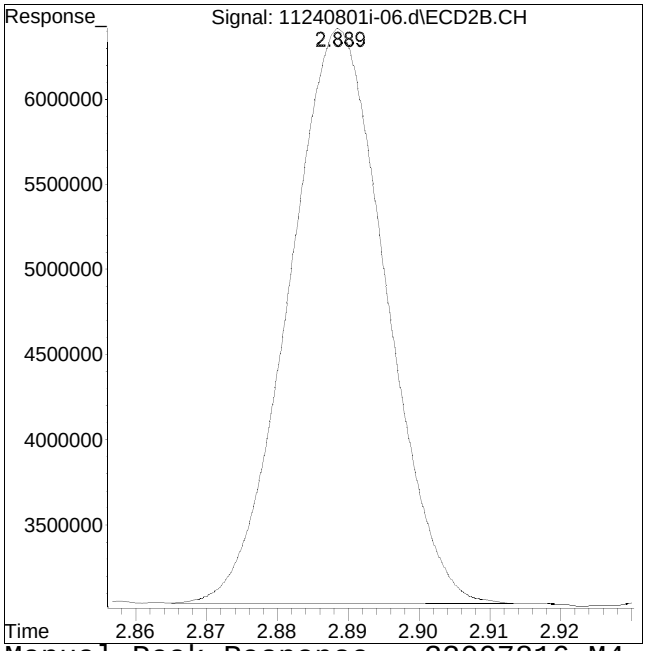
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #45: delta-BHC #2



Original Peak Response = 32442770



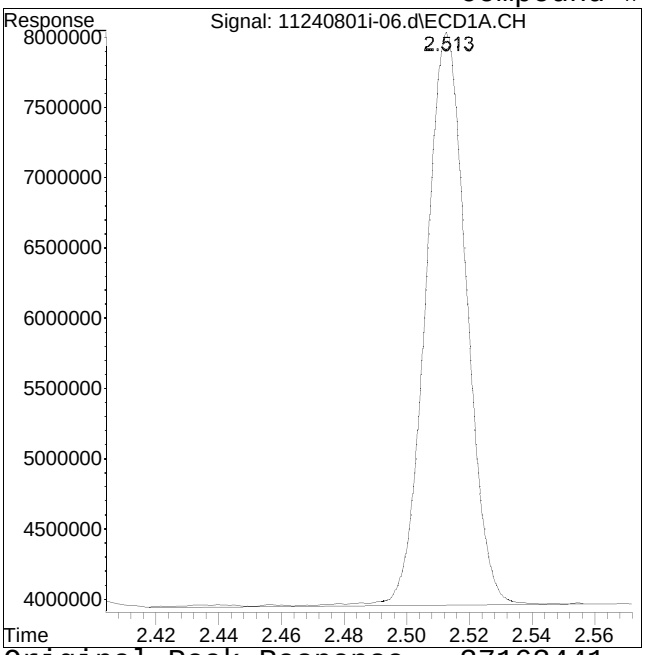
Manual Peak Response = 32007816 M4

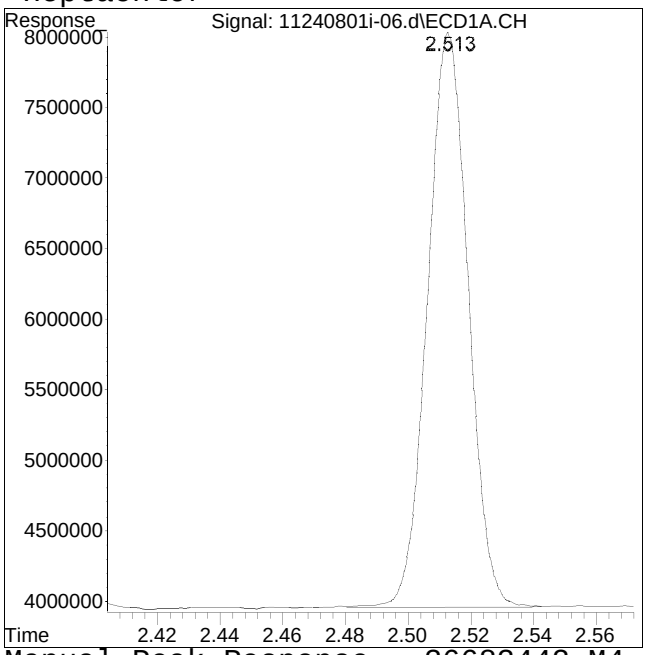
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #8: Heptachlor



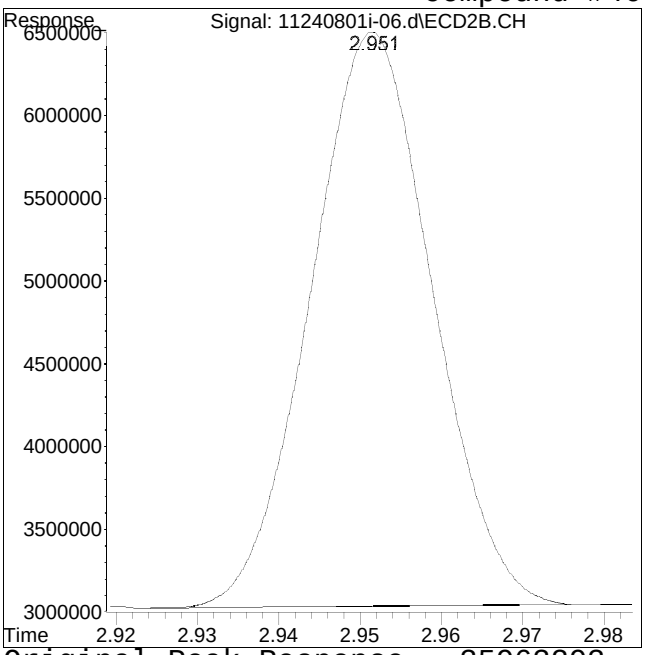


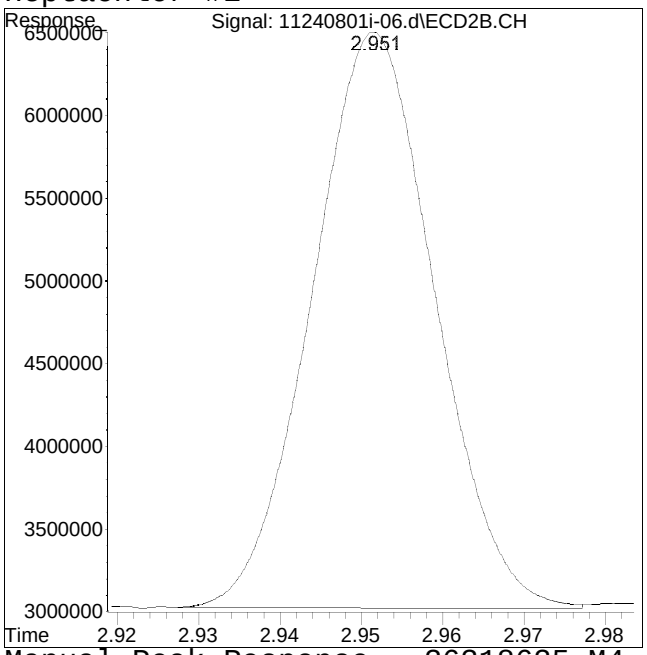
Original Peak Response = 37163441 Manual Peak Response = 36683442 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #46: Heptachlor #2



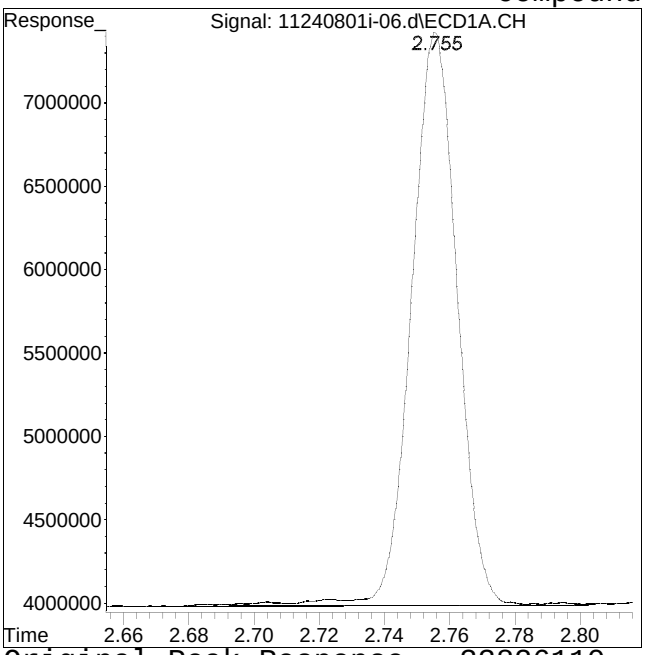


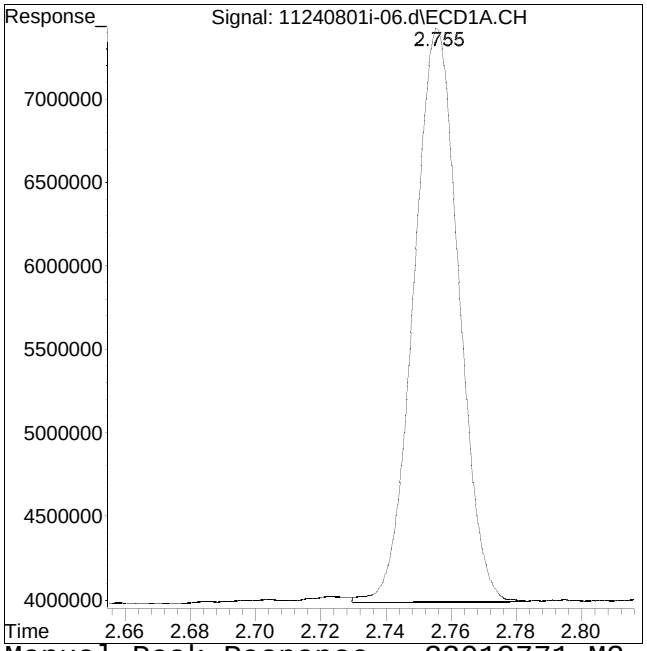
Original Peak Response = 35963293 Manual Peak Response = 36318635 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #9: Aldrin





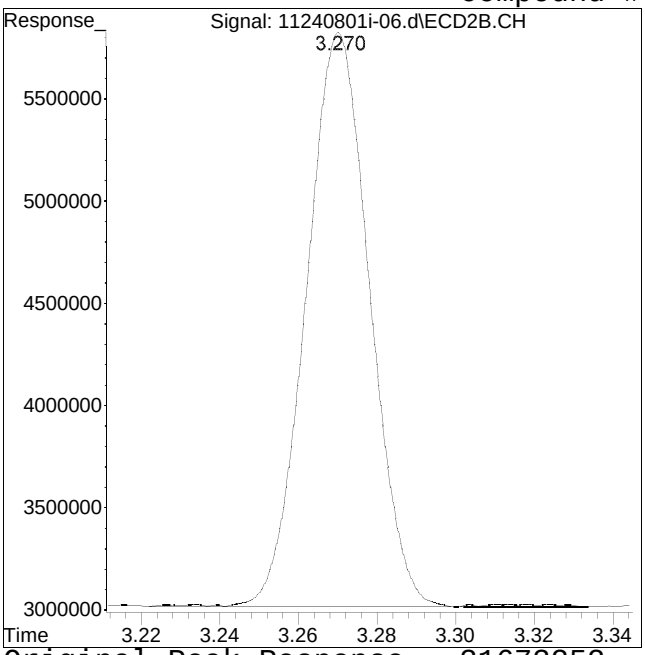
Original Peak Response = 33826110 Manual Peak Response = 33013771 M3

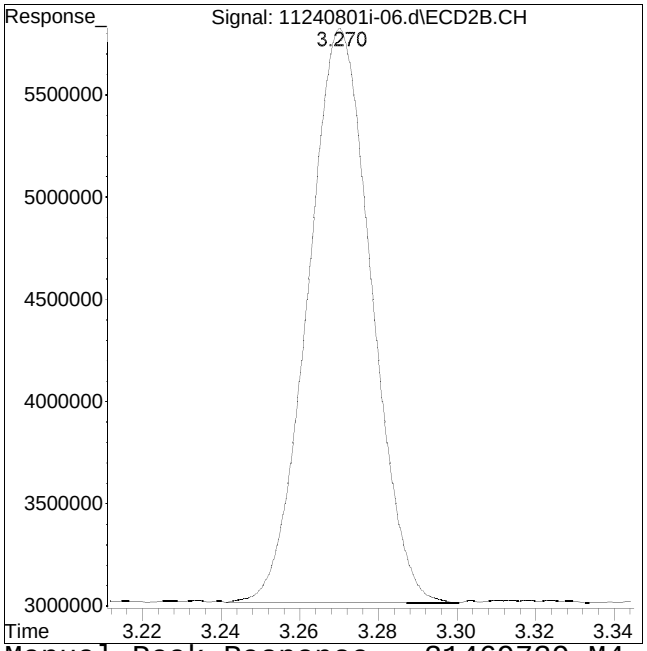
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #47: Aldrin #2



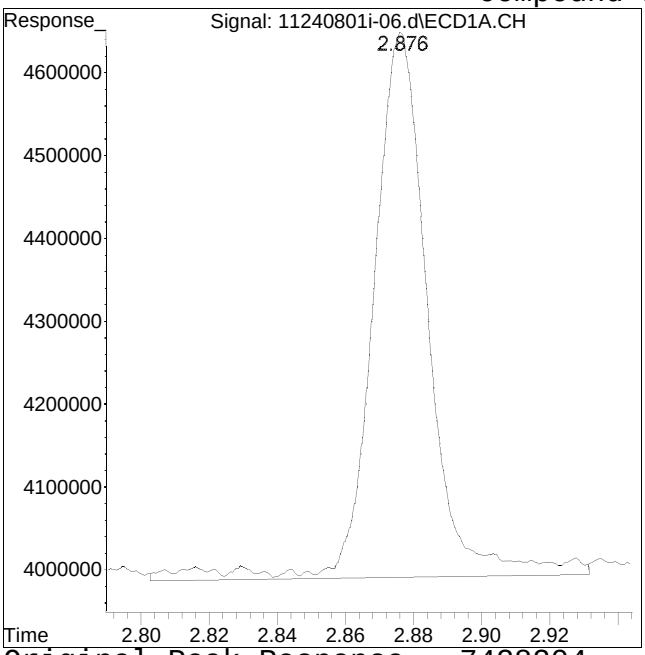


Original Peak Response = 31673252 Manual Peak Response = 31469739 M4
M4 = Poor automated baseline construction.

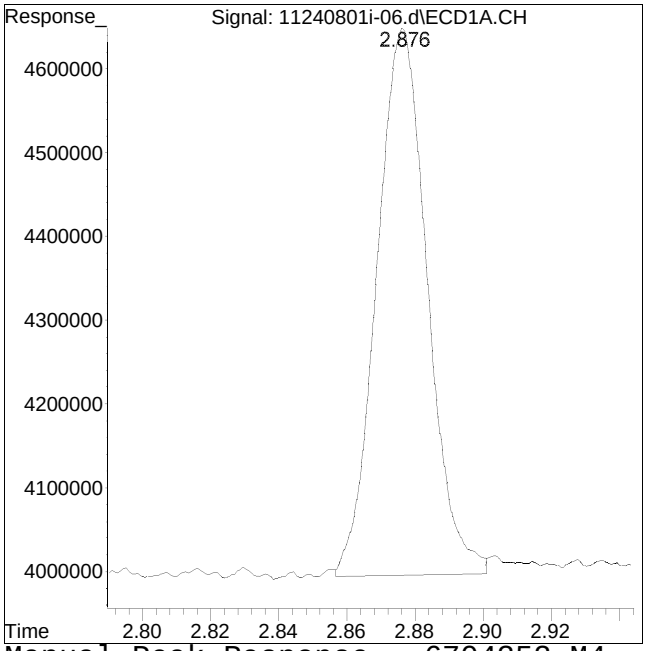
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #10: Alachlor



Original Peak Response = 7428204



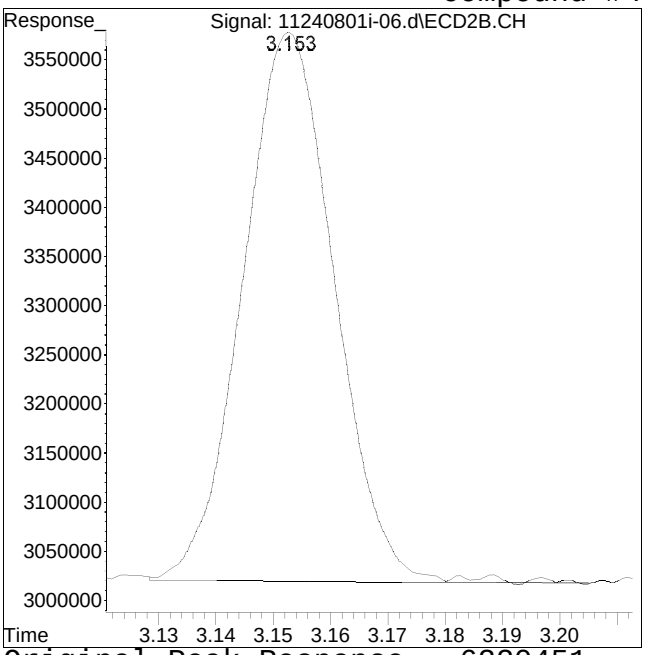
Manual Peak Response = 6704352 M4

M4 = Poor automated baseline construction.

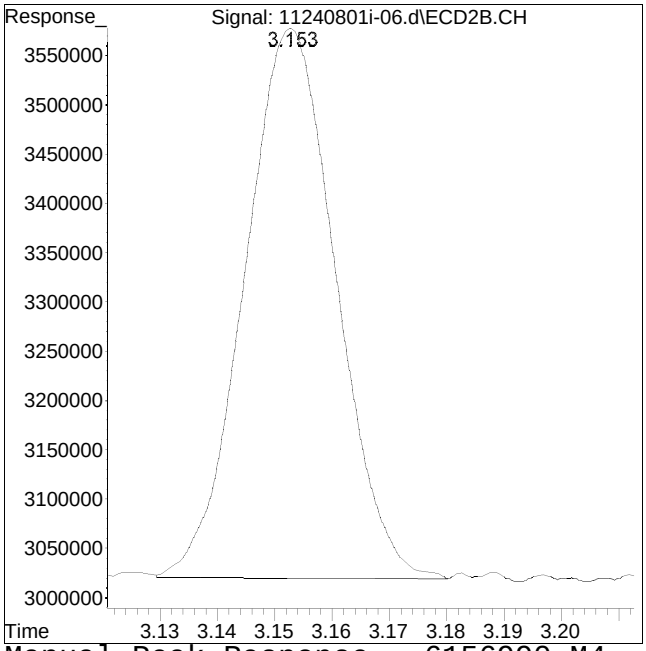
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #48: Alachlor #2



Original Peak Response = 6220451



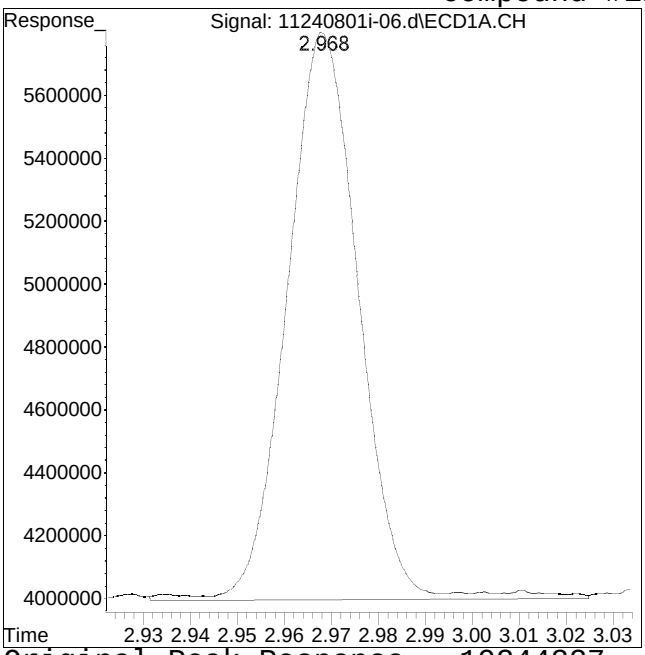
Manual Peak Response = 6156990 M4

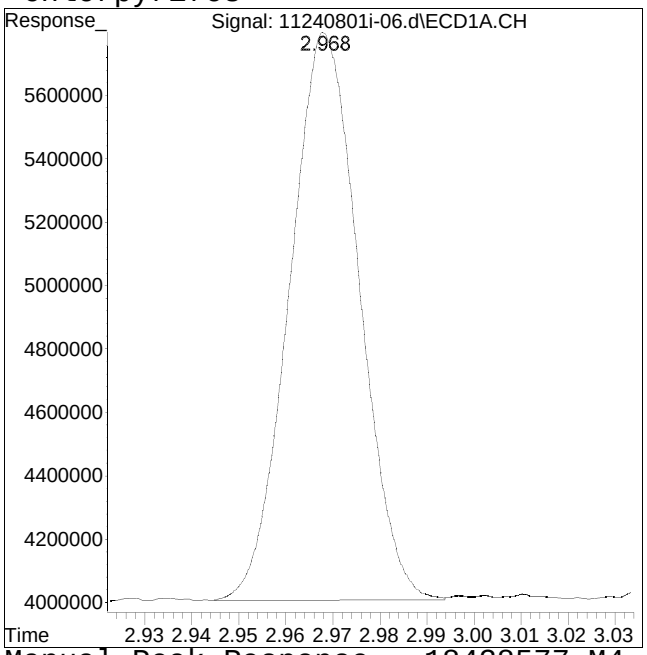
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #11: Chlorpyrifos



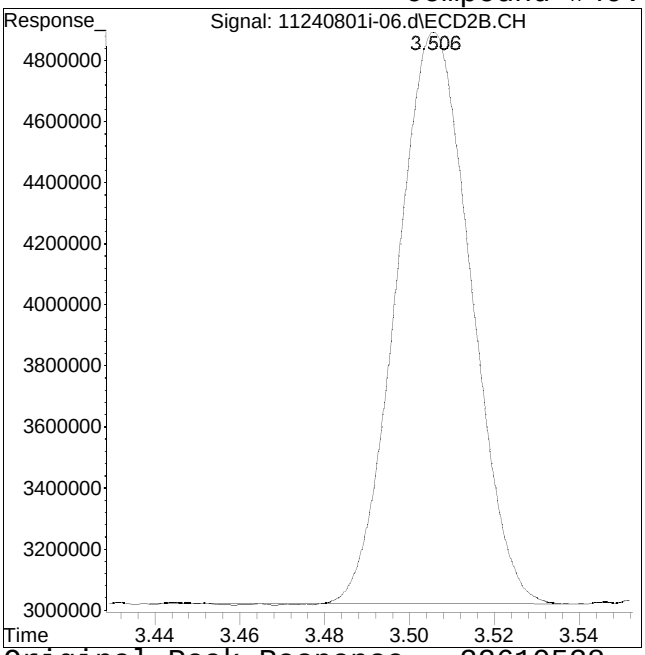


Original Peak Response = 19244227 Manual Peak Response = 18438577 M4
M4 = Poor automated baseline construction.

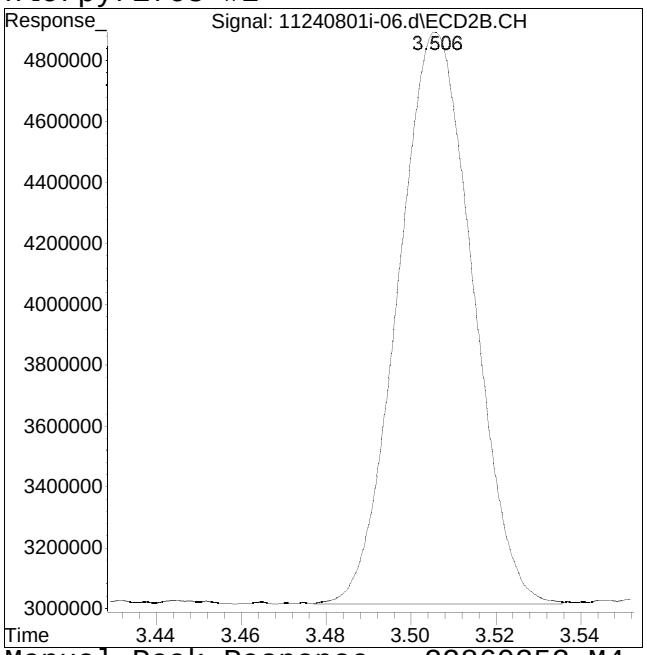
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 22610538



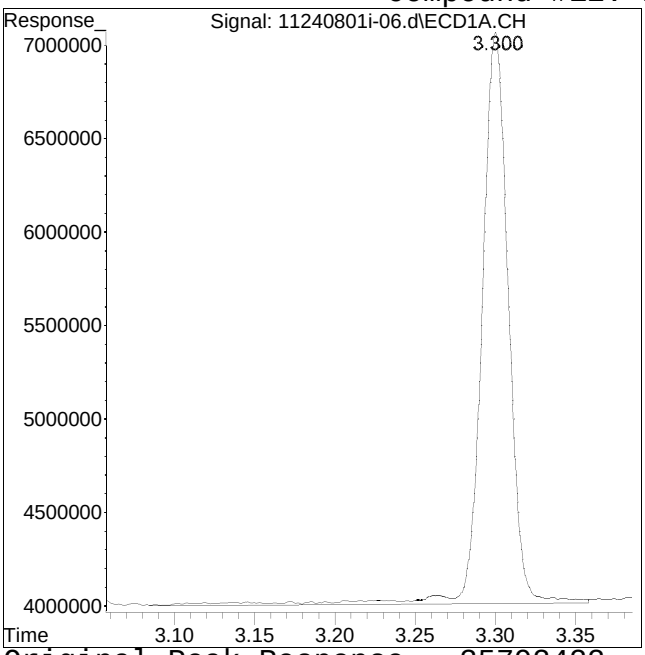
Manual Peak Response = 22860352 M4

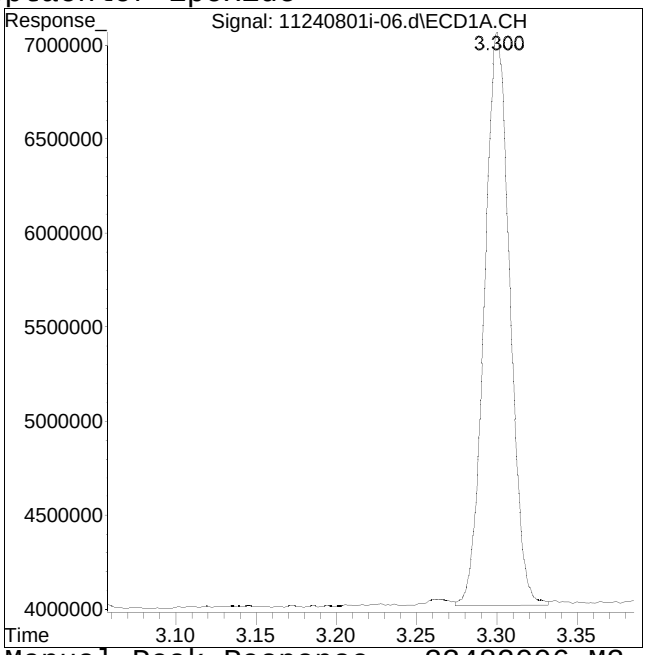
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #12: Heptachlor Epoxide



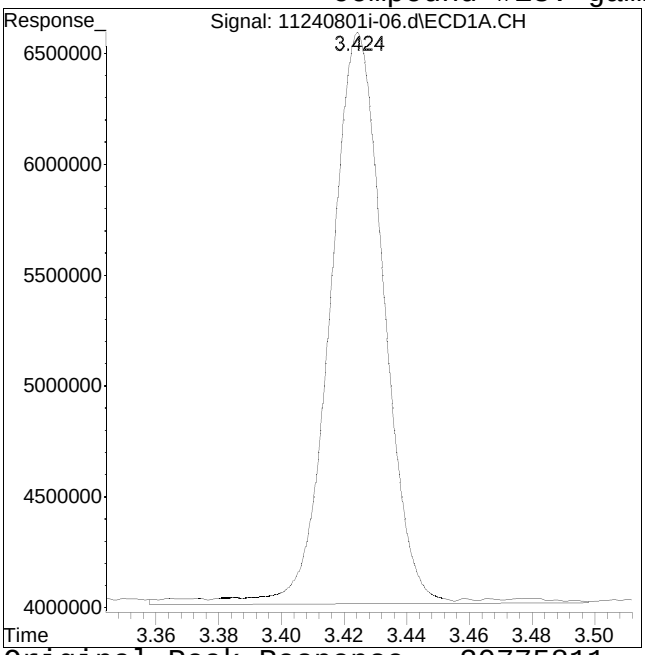


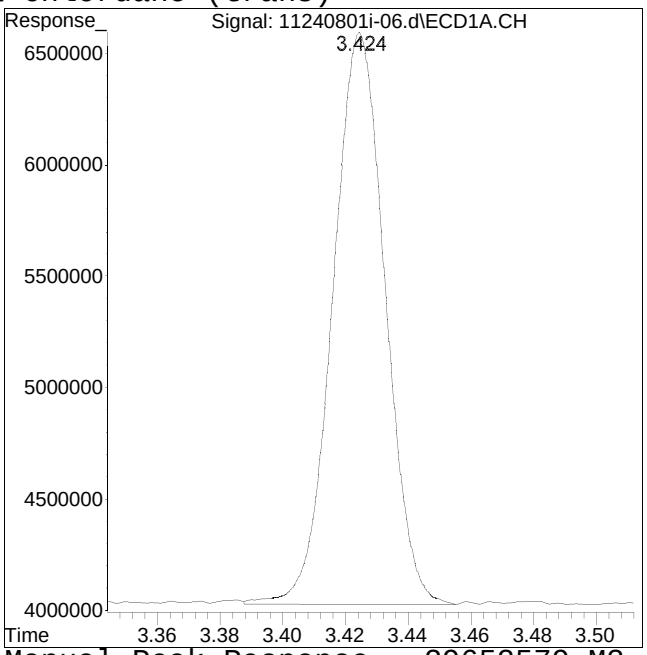
Original Peak Response = 35792422 Manual Peak Response = 33482006 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #13: gamma-Chlordane (trans)





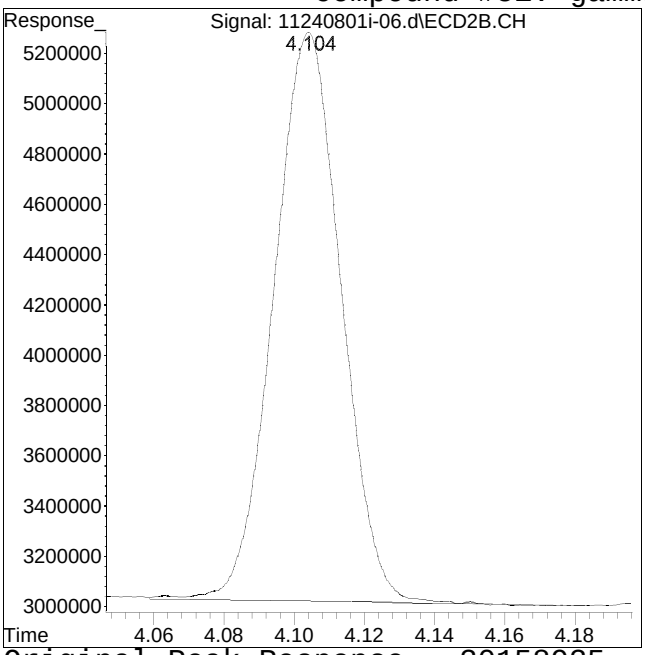
Original Peak Response = 30775811 Manual Peak Response = 29652579 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

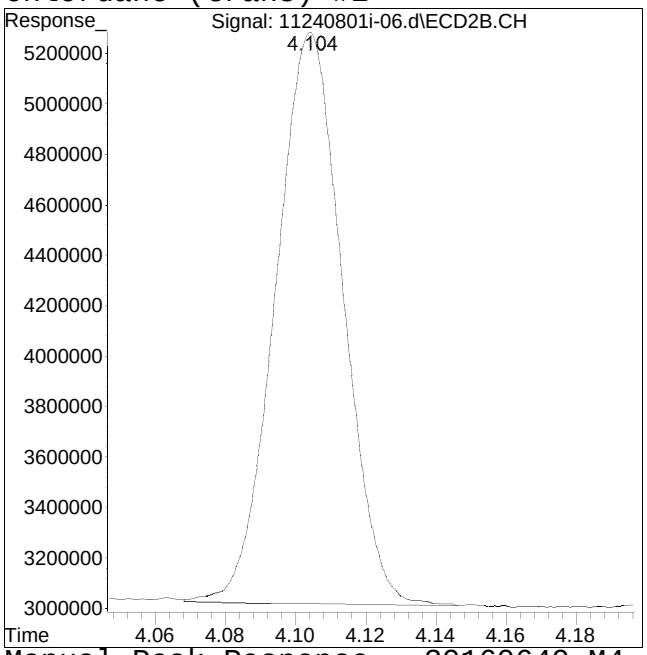
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 30158935



Manual Peak Response = 30160649 M4

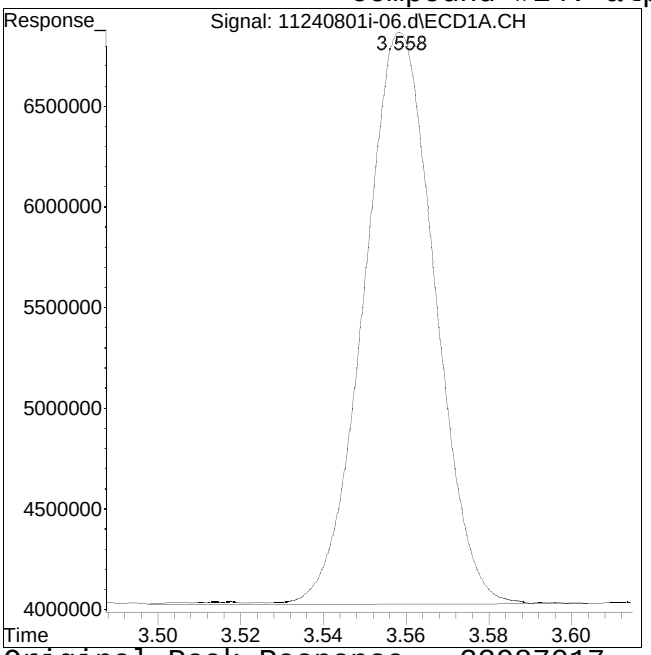
M4 = Poor automated baseline construction.

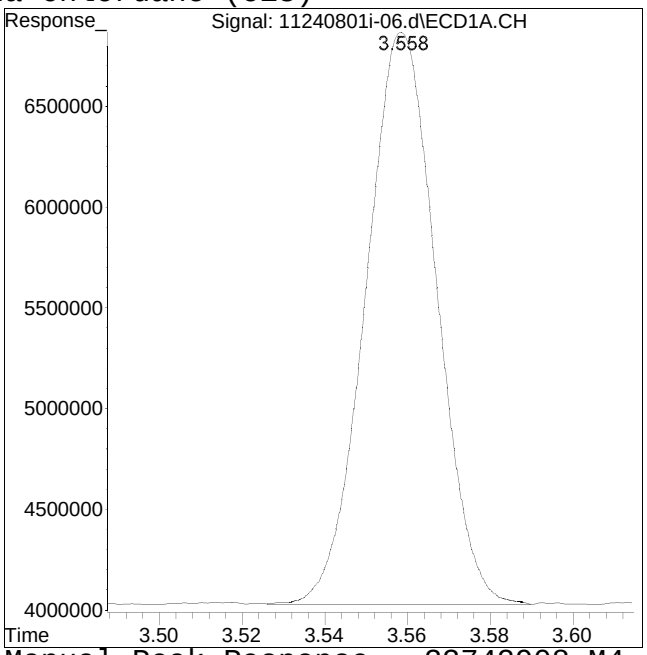
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #14: alpha-Chlordane (cis)





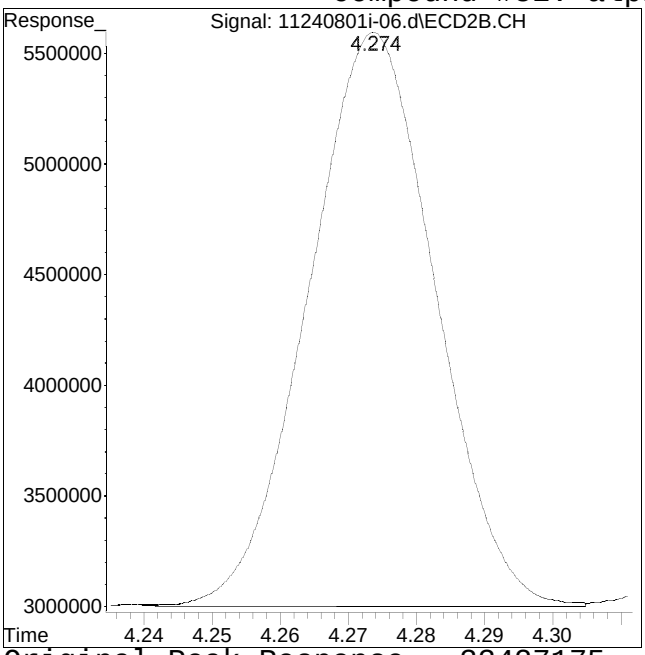
Original Peak Response = 33987017 Manual Peak Response = 33742908 M4
M4 = Poor automated baseline construction.

Manual Integration Report

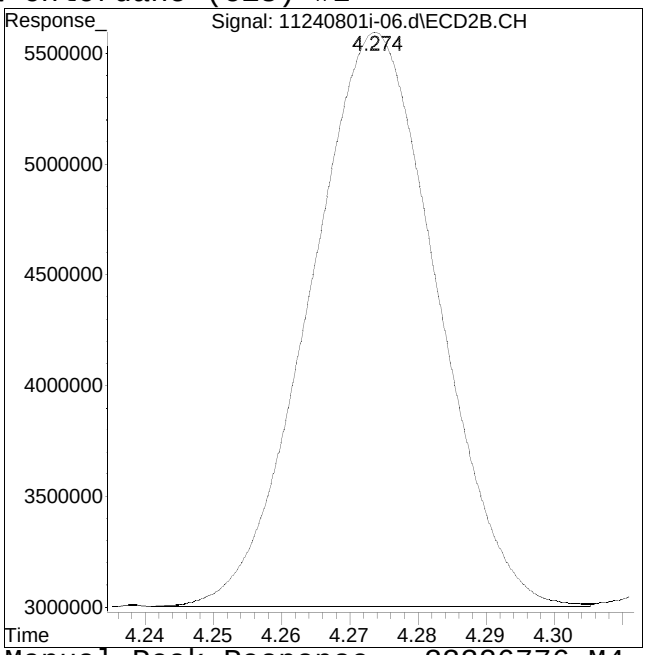
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 33427175



Manual Peak Response = 33326776 M4

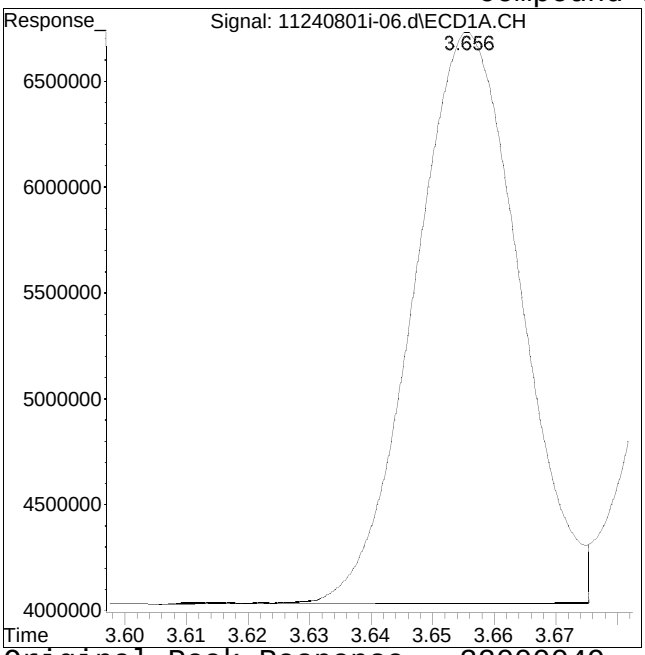
M4 = Poor automated baseline construction.

Manual Integration Report

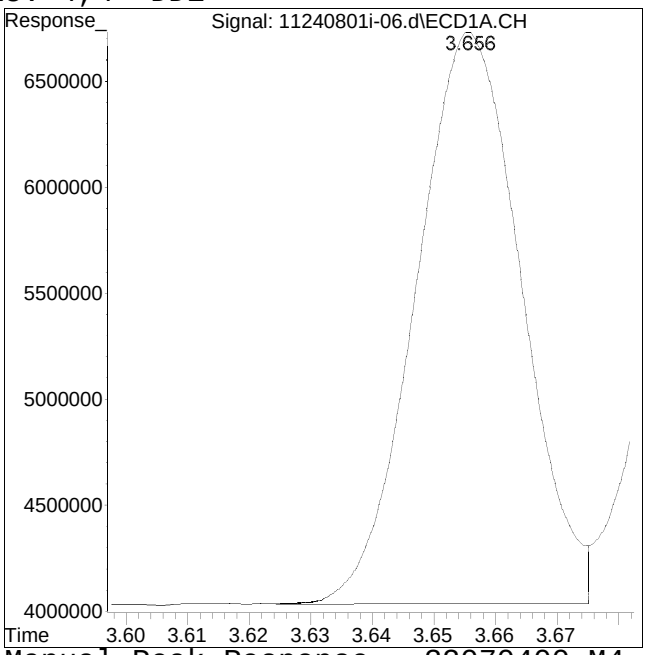
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #15: 4,4'-DDE



Original Peak Response = 32000049



Manual Peak Response = 32070400 M4

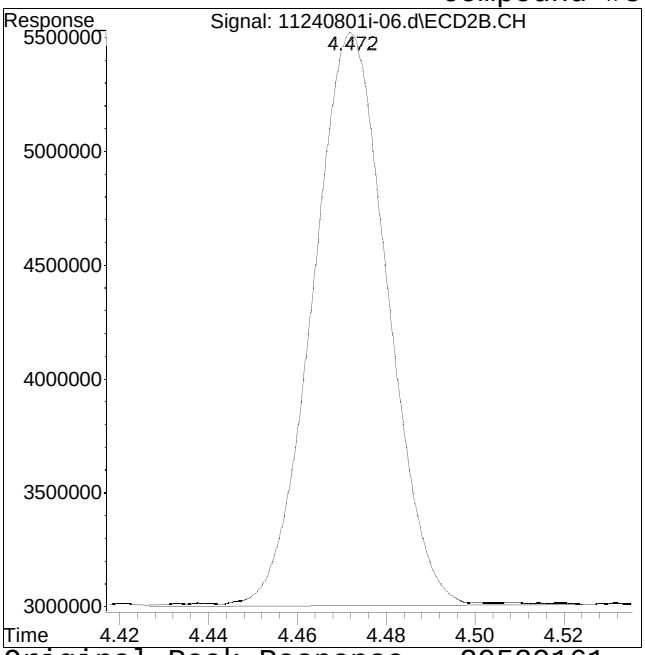
M4 = Poor automated baseline construction.

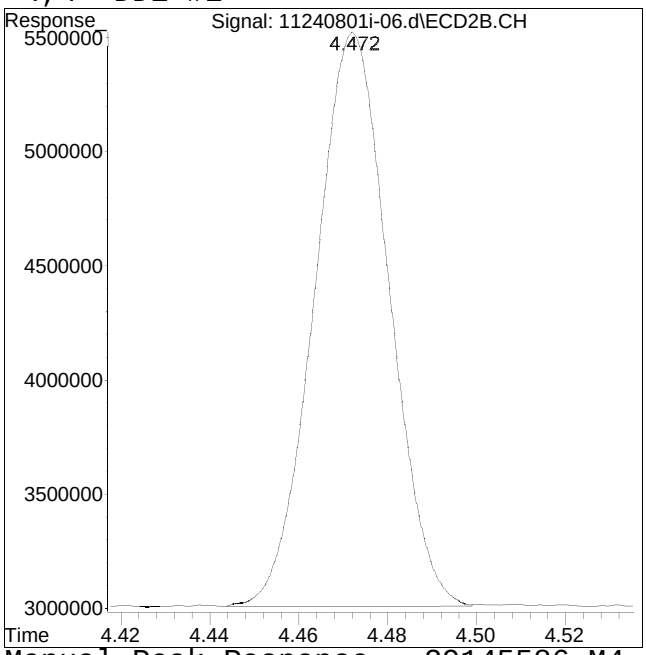
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #53: 4,4'-DDE #2





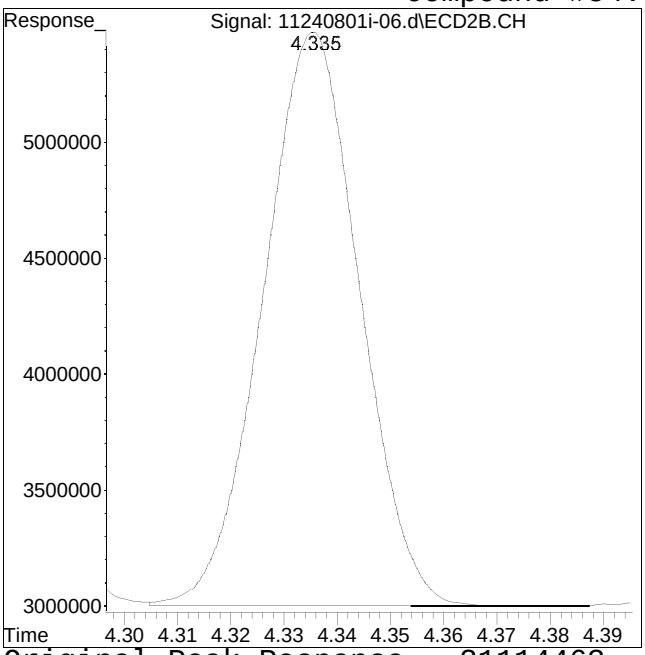
Original Peak Response = 29529161 Manual Peak Response = 29145586 M4
M4 = Poor automated baseline construction.

Manual Integration Report

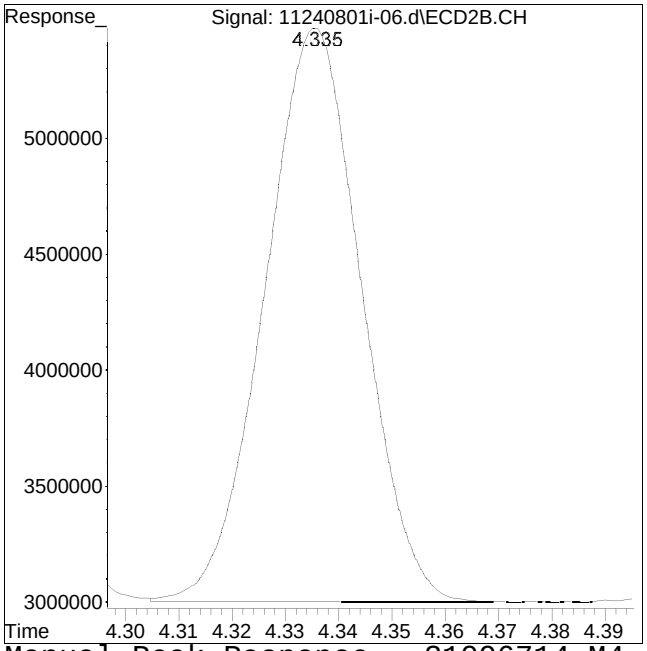
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #54: Endosulfan I #2



Original Peak Response = 31114463



Manual Peak Response = 31096714 M4

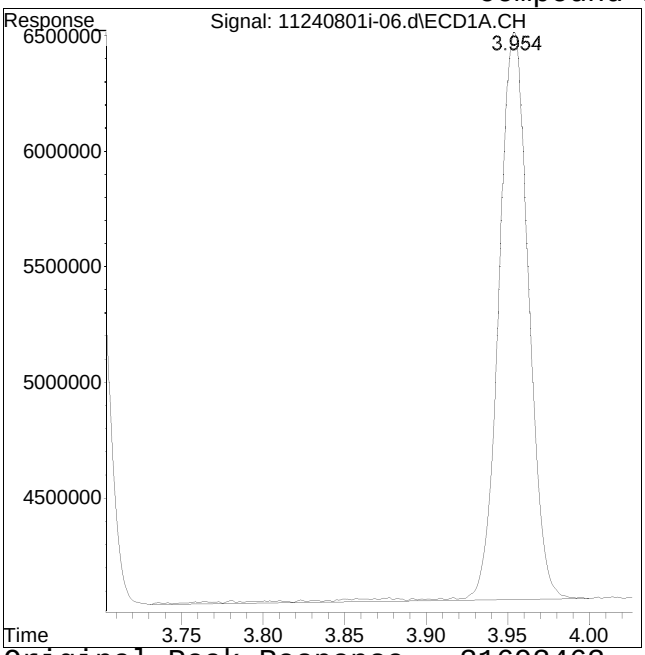
M4 = Poor automated baseline construction.

Manual Integration Report

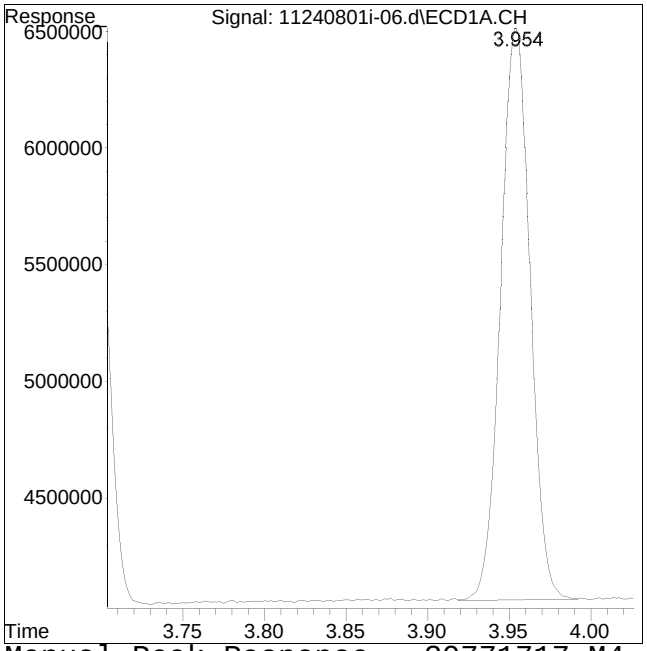
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #17: Dieldrin



Original Peak Response = 31693463



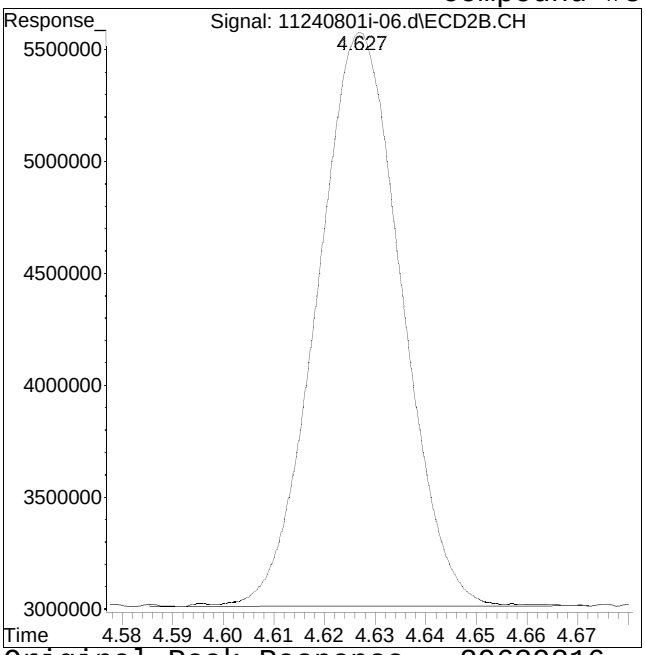
Manual Peak Response = 30771717 M4

M4 = Poor automated baseline construction.

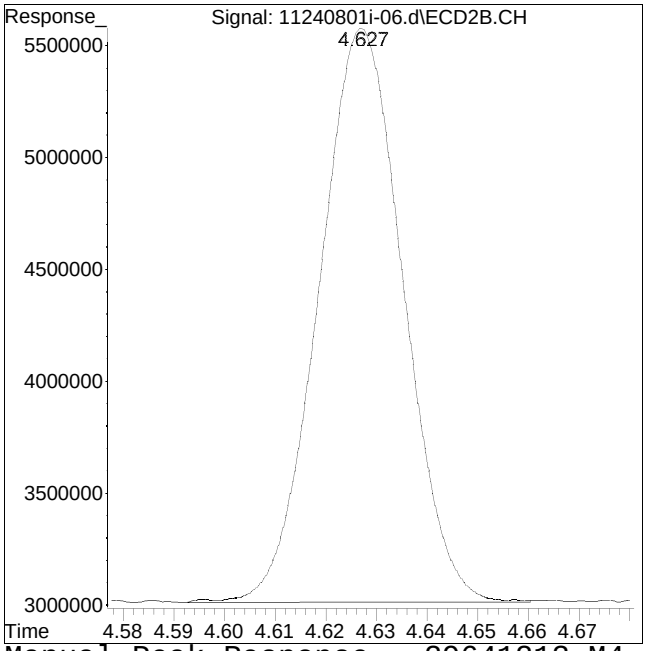
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #55: Dieldrin #2



Original Peak Response = 29639216



Manual Peak Response = 29641213 M4

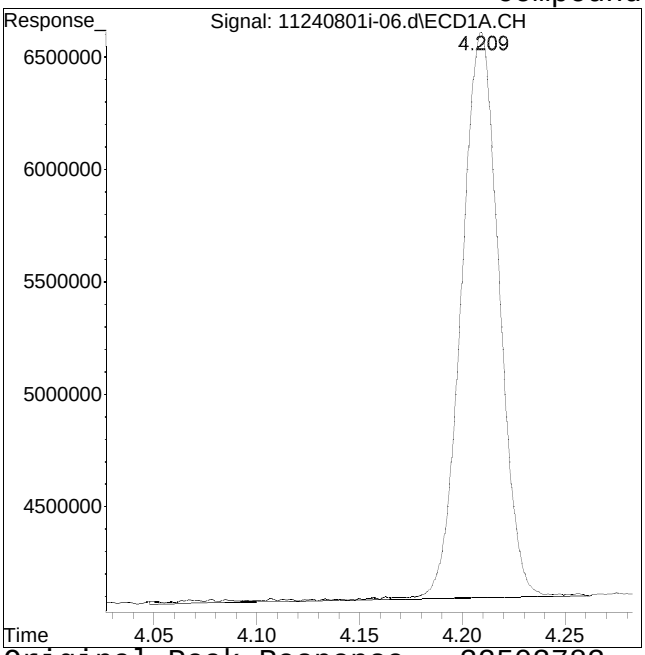
M4 = Poor automated baseline construction.

Manual Integration Report

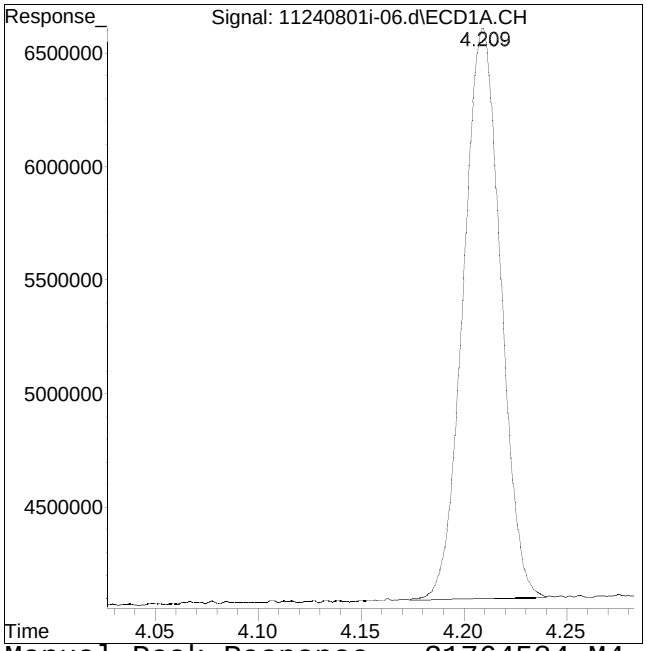
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #18: Endrin



Original Peak Response = 32503783



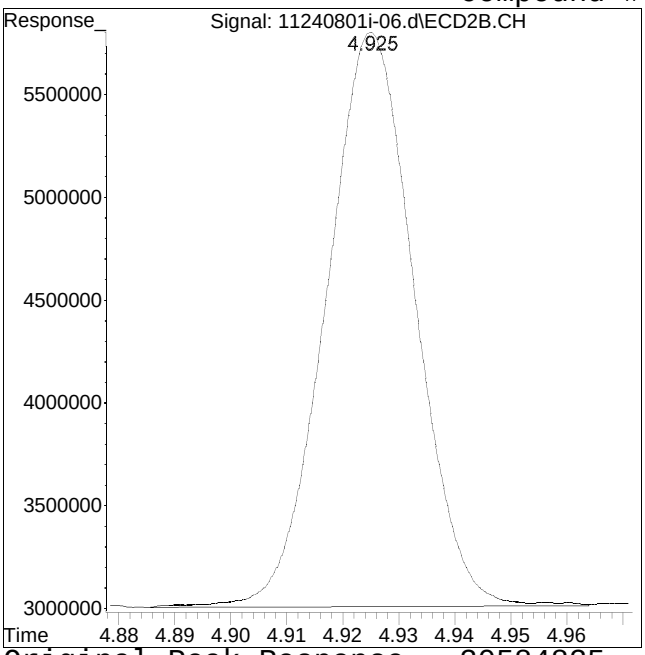
Manual Peak Response = 31764584 M4

M4 = Poor automated baseline construction.

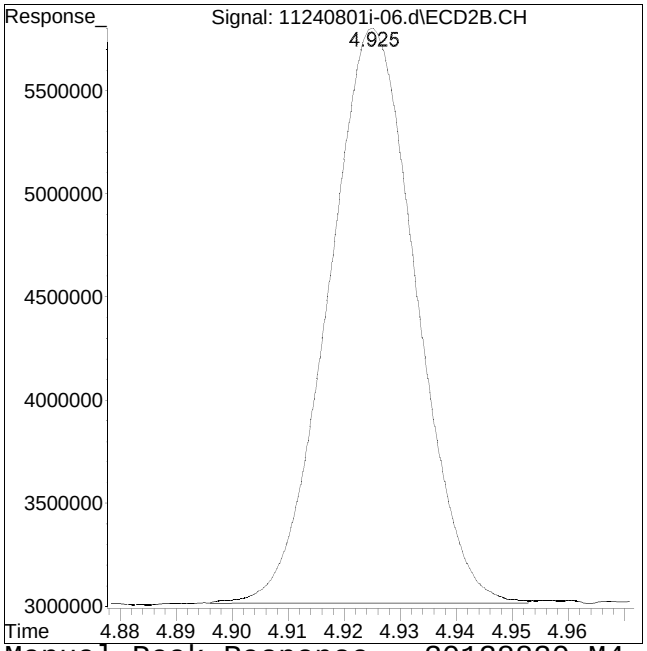
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #56: Endrin #2



Original Peak Response = 30584835



Manual Peak Response = 30138830 M4

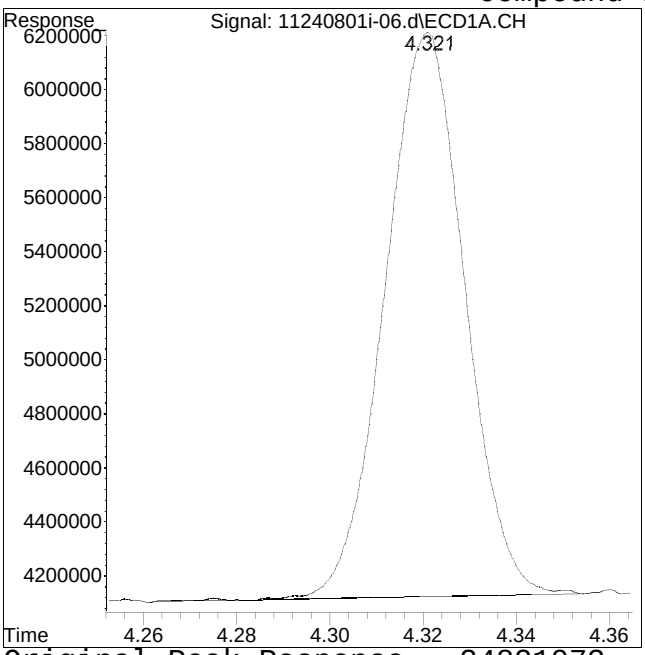
M4 = Poor automated baseline construction.

Manual Integration Report

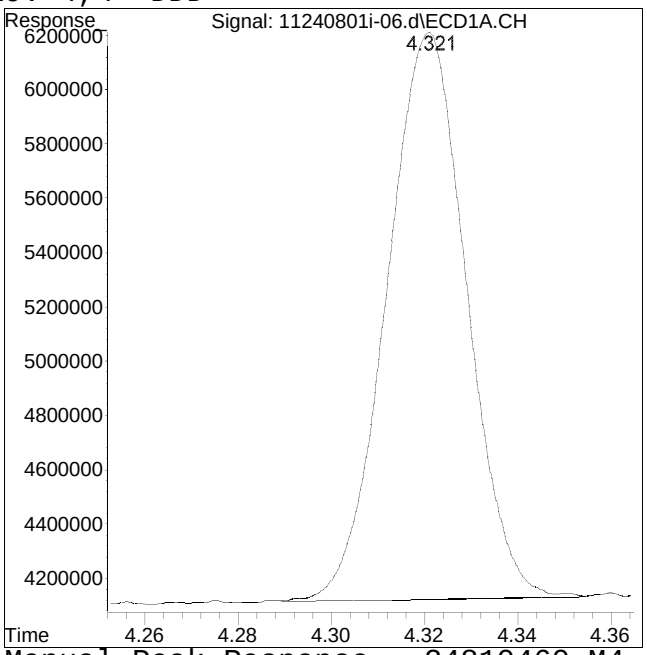
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #19: 4,4'-DDD



Original Peak Response = 24821073



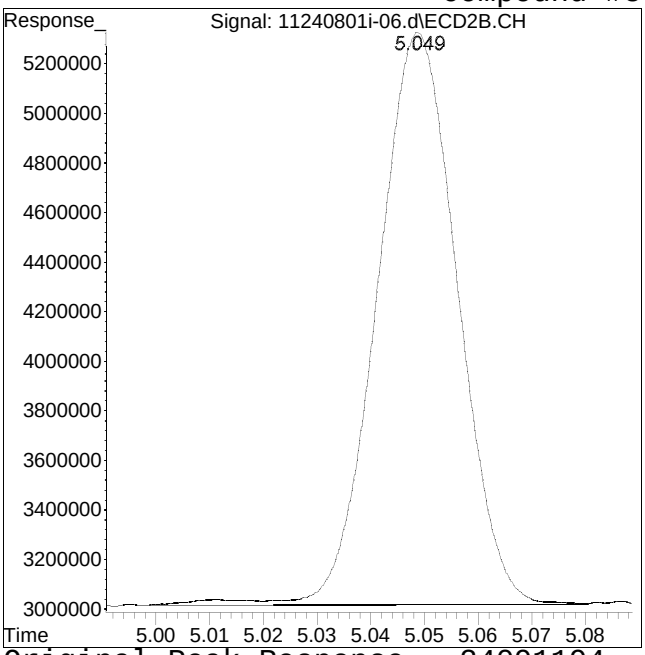
Manual Peak Response = 24810460 M4

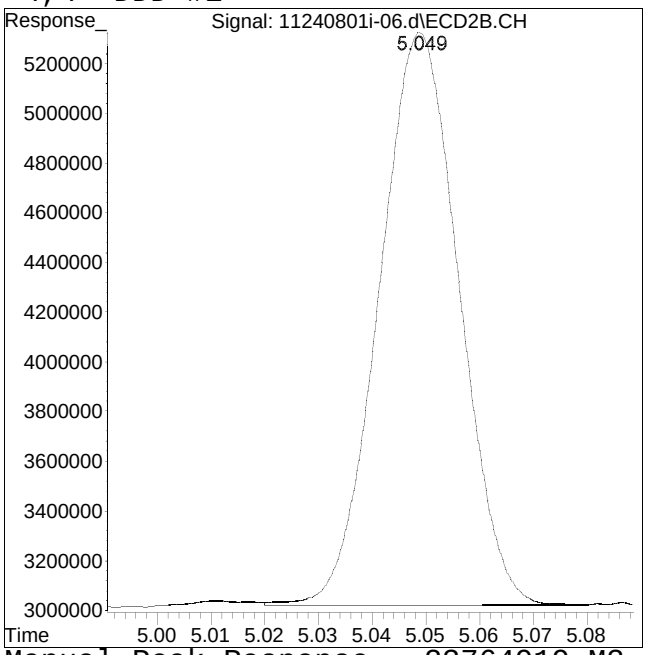
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #57: 4,4'-DDD #2





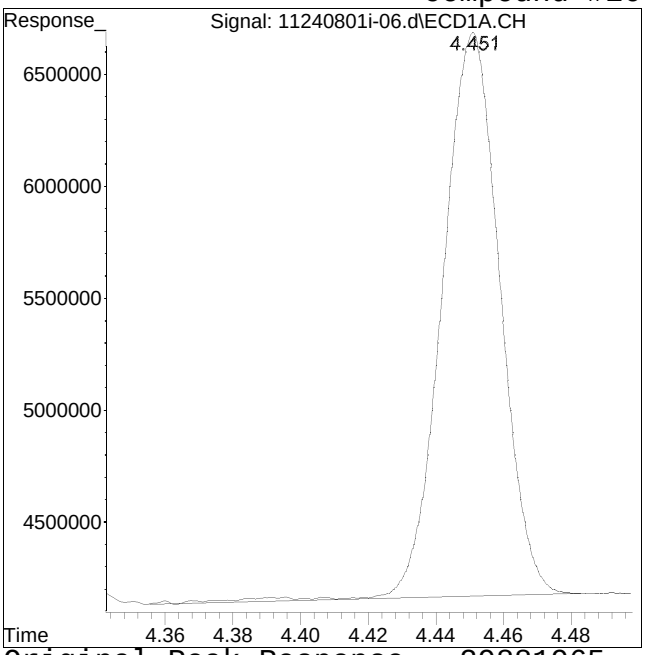
Original Peak Response = 24091194 Manual Peak Response = 23764919 M3

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

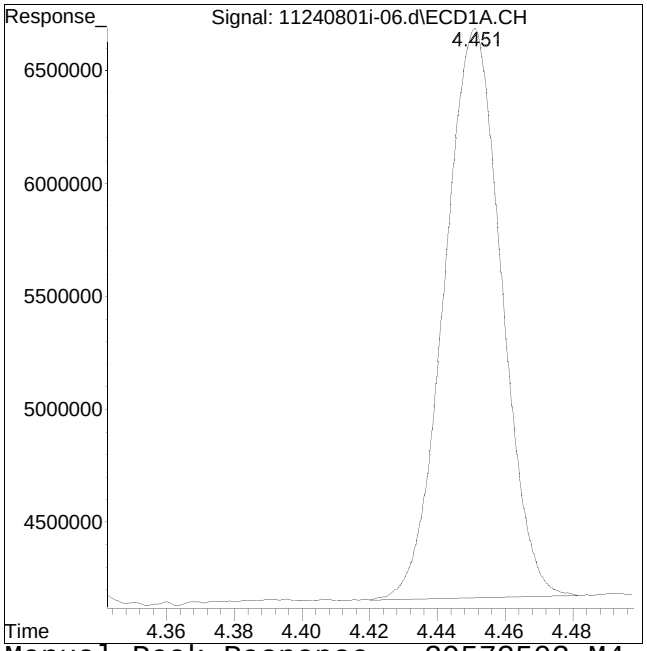
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #20: Endosulfan II



Original Peak Response = 29881965



Manual Peak Response = 29573503 M4

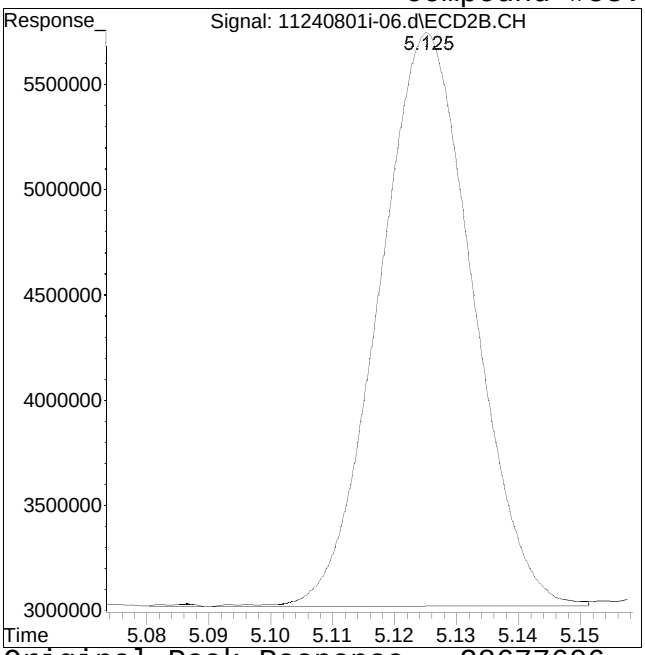
M4 = Poor automated baseline construction.

Manual Integration Report

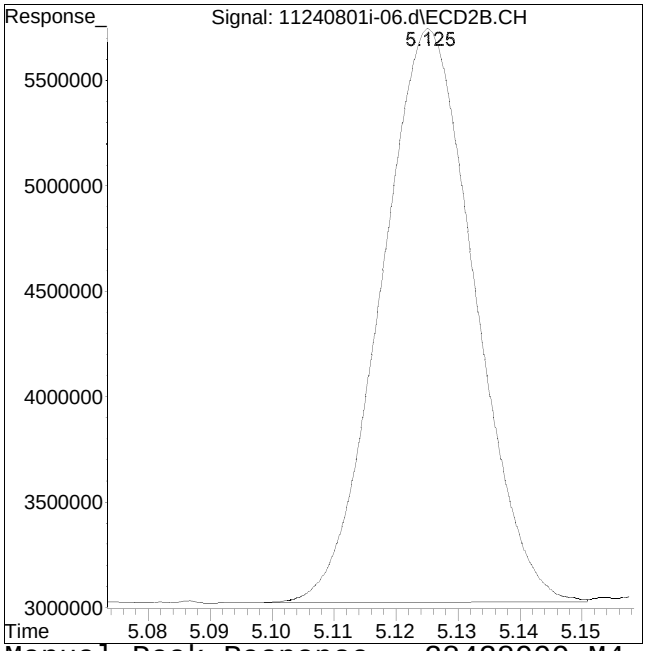
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #58: Endosulfan II #2



Original Peak Response = 28677606



Manual Peak Response = 28438999 M4

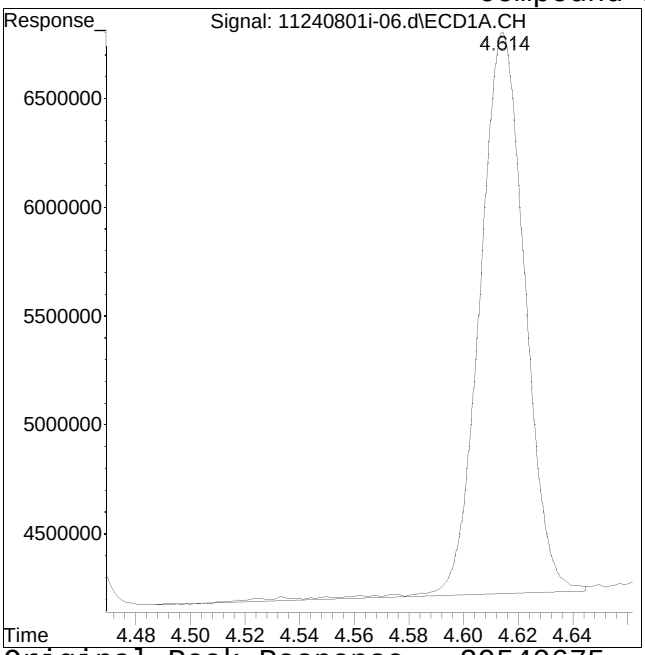
M4 = Poor automated baseline construction.

Manual Integration Report

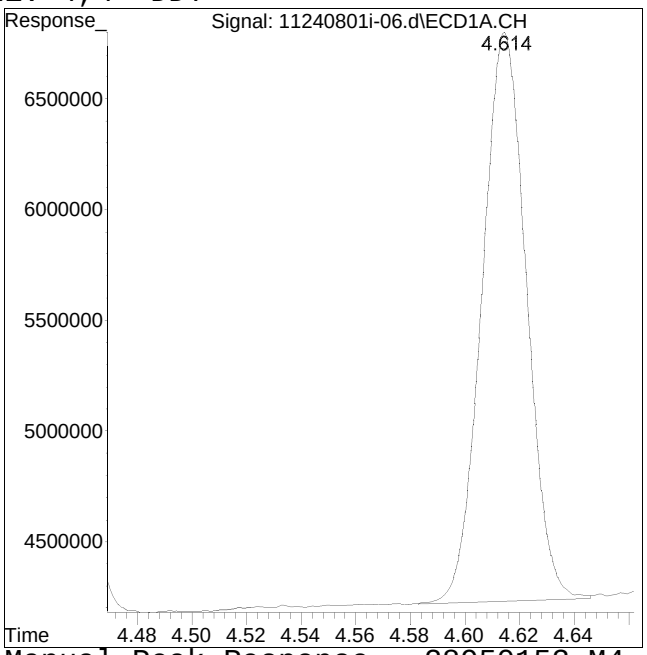
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #21: 4,4'-DDT



Original Peak Response = 29540675



Manual Peak Response = 28950153 M4

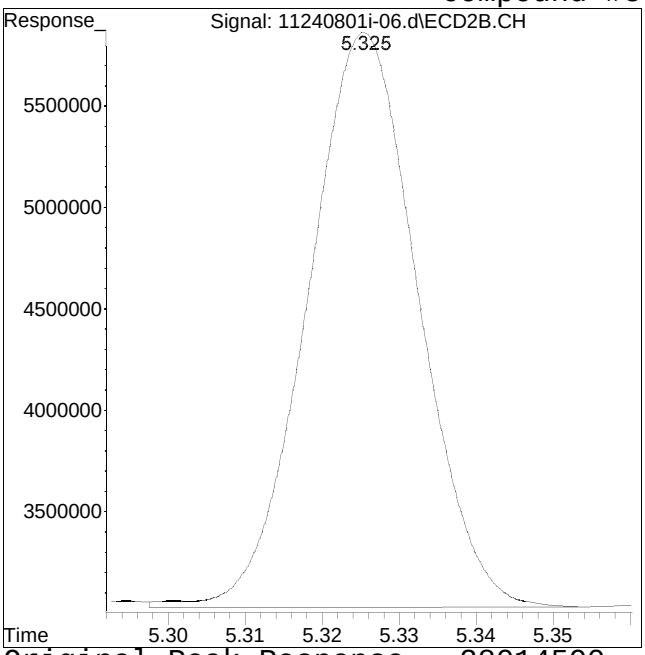
M4 = Poor automated baseline construction.

Manual Integration Report

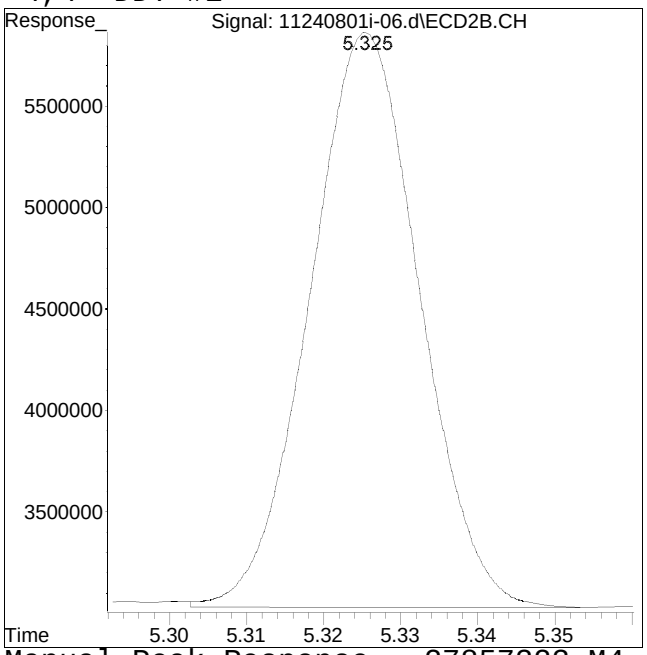
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 28014590



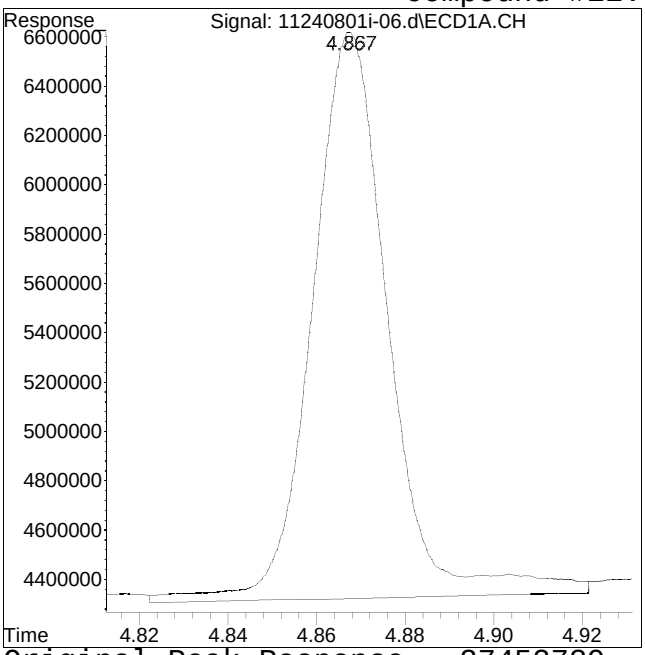
Manual Peak Response = 27857323 M4

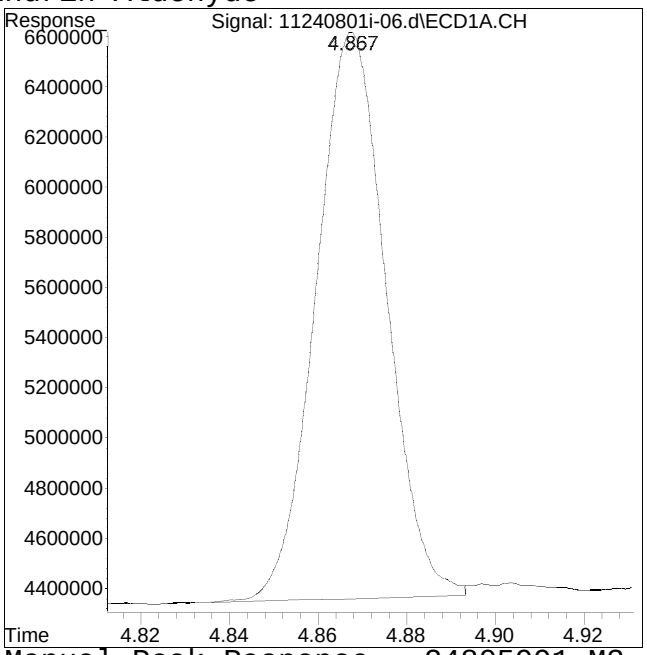
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #22: Endrin Aldehyde



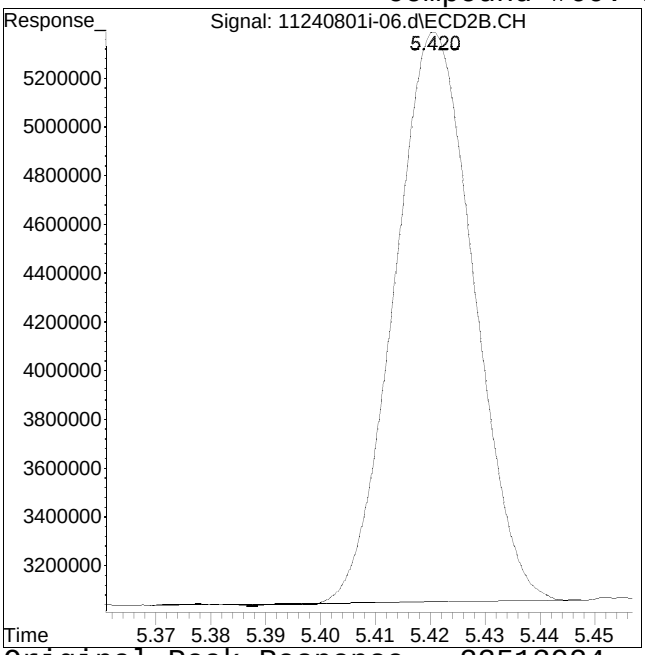


Original Peak Response = 27452739 Manual Peak Response = 24805991 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

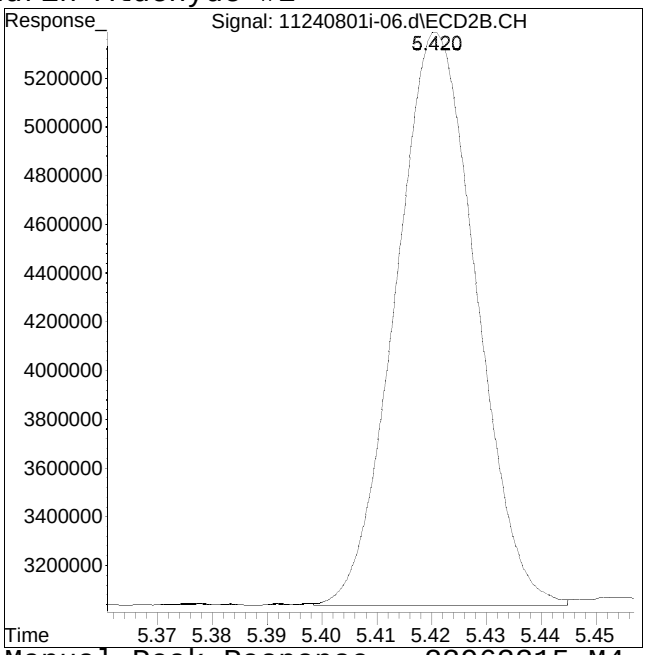
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 23513924



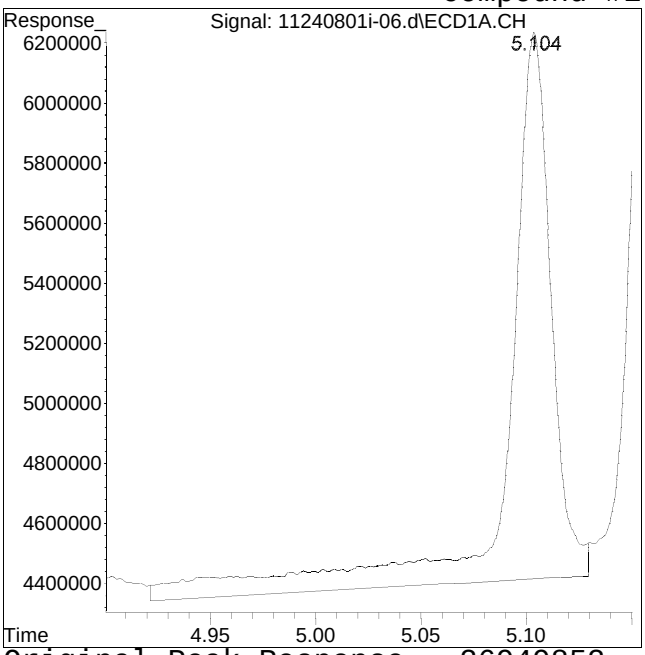
Manual Peak Response = 23963315 M4

M4 = Poor automated baseline construction.

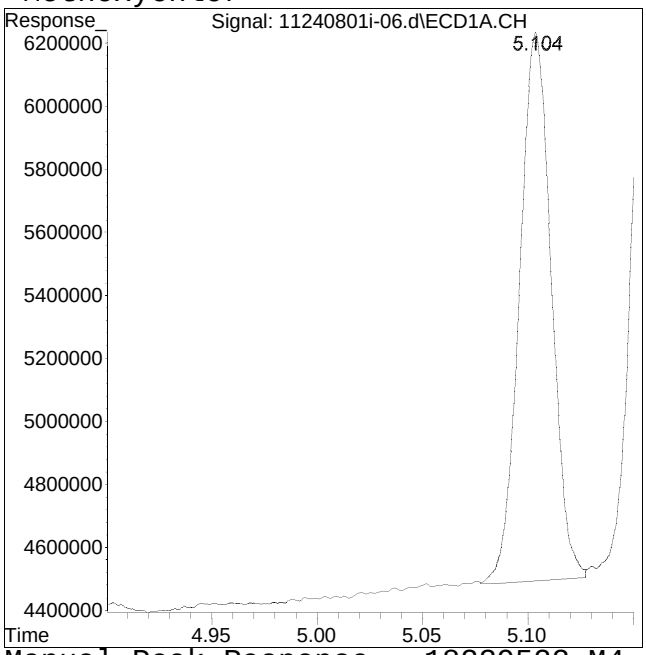
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #23: Methoxychlor



Original Peak Response = 26949852



Manual Peak Response = 18239522 M4

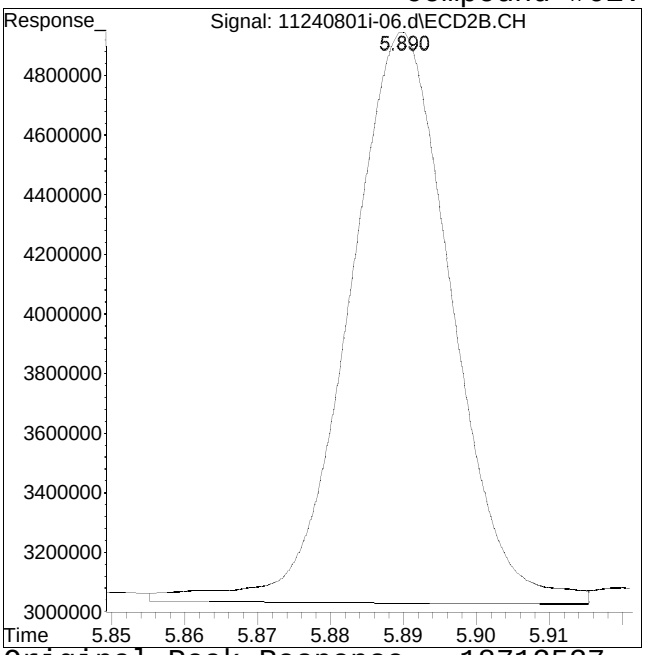
M4 = Poor automated baseline construction.

Manual Integration Report

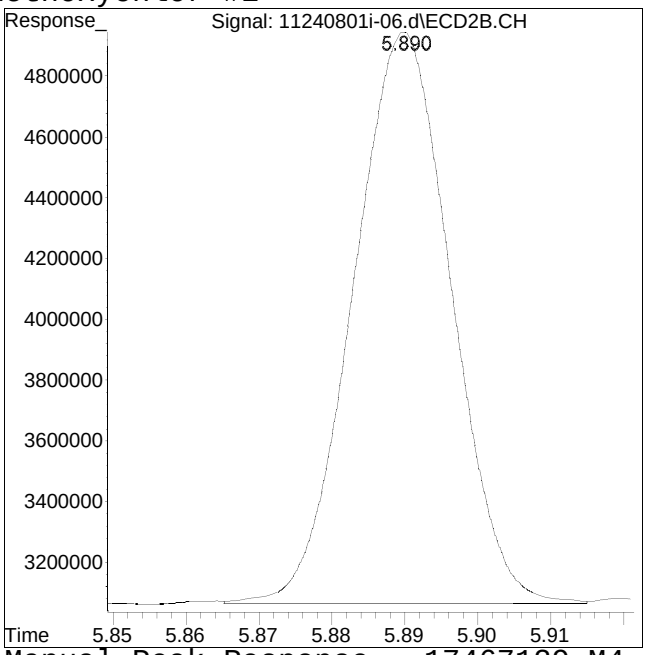
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #61: Methoxychlor #2



Original Peak Response = 18712537



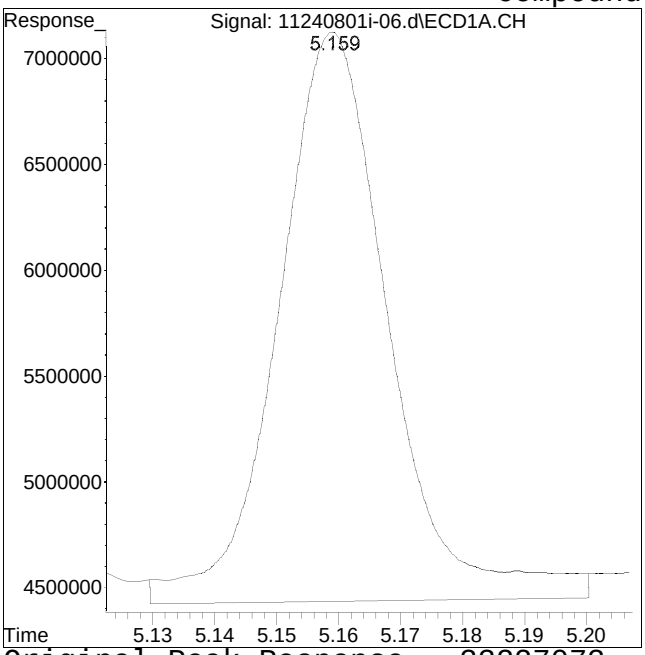
Manual Peak Response = 17467129 M4

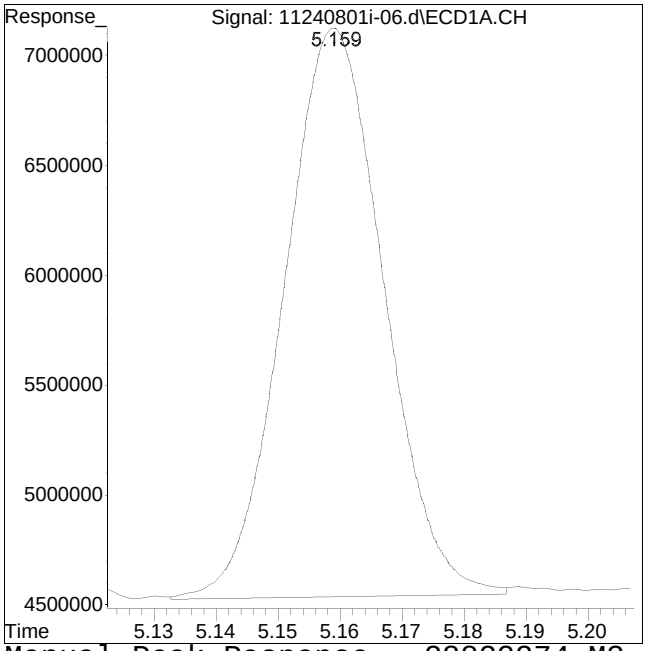
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #24: Mirex





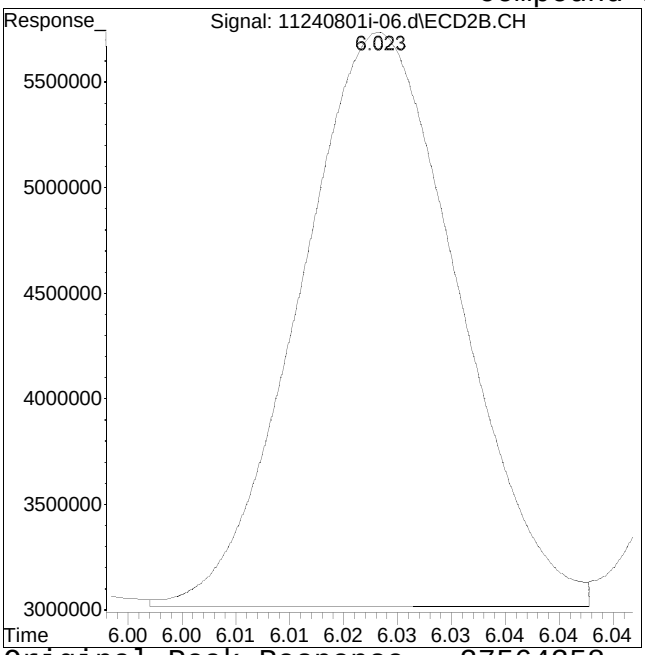
Original Peak Response = 33227073 Manual Peak Response = 28822274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

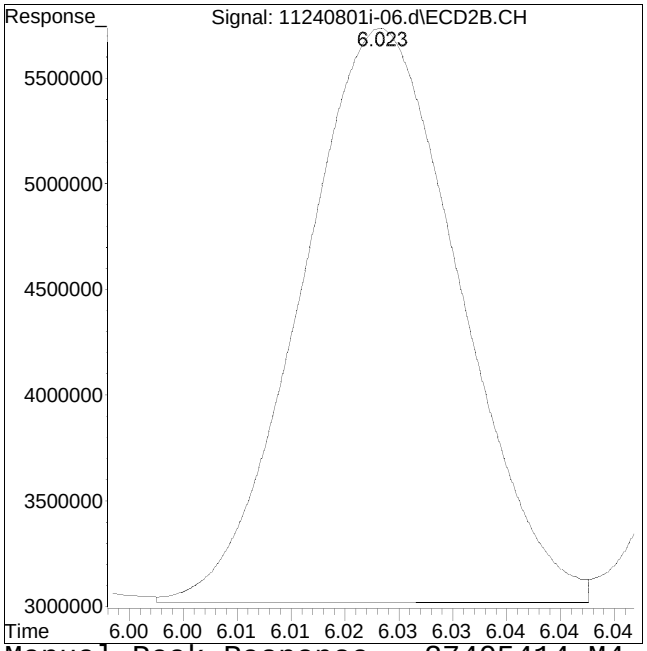
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #62: Mirex #2



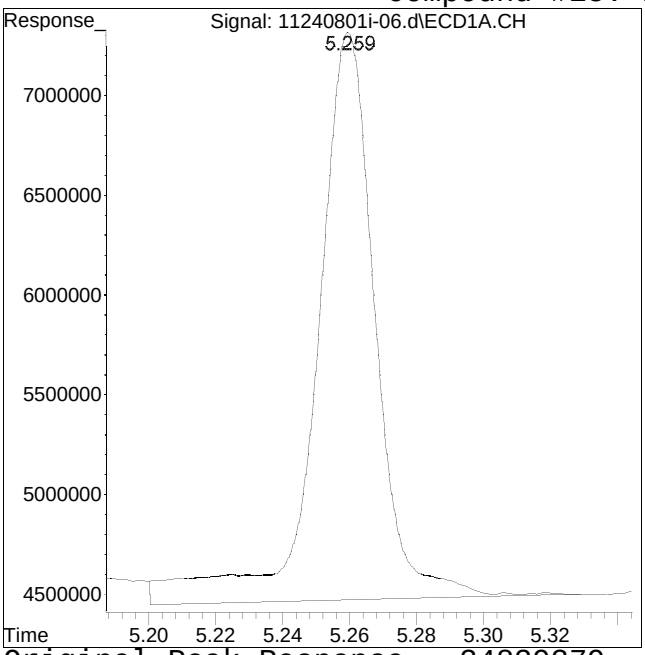


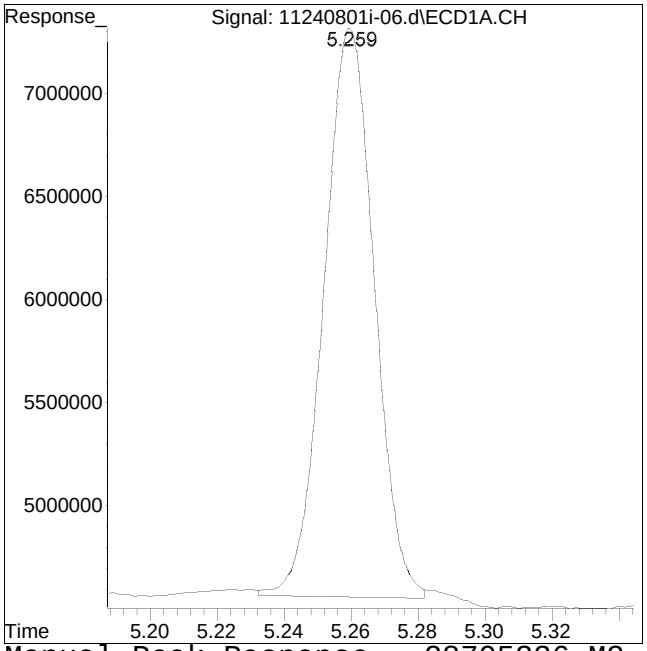
Original Peak Response = 27564358 Manual Peak Response = 27405414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #25: Endosulfan Sulfate





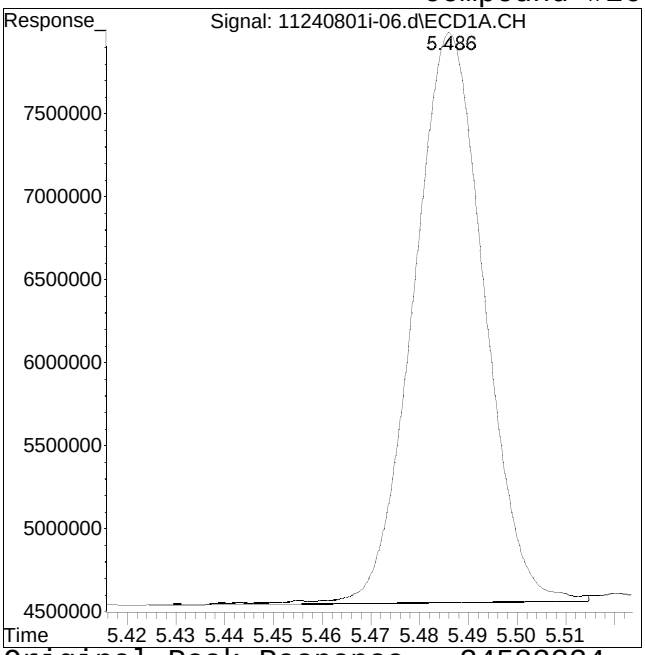
Original Peak Response = 34839379 Manual Peak Response = 28795336 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

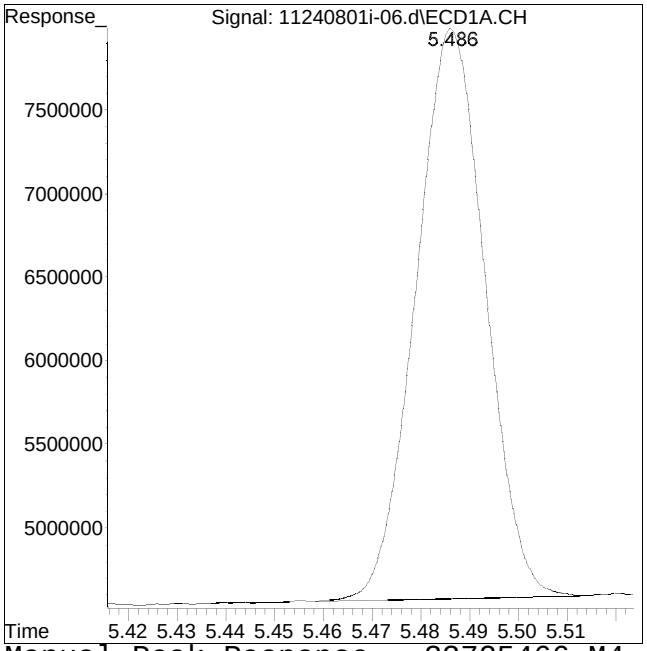
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #26: Endrin Ketone



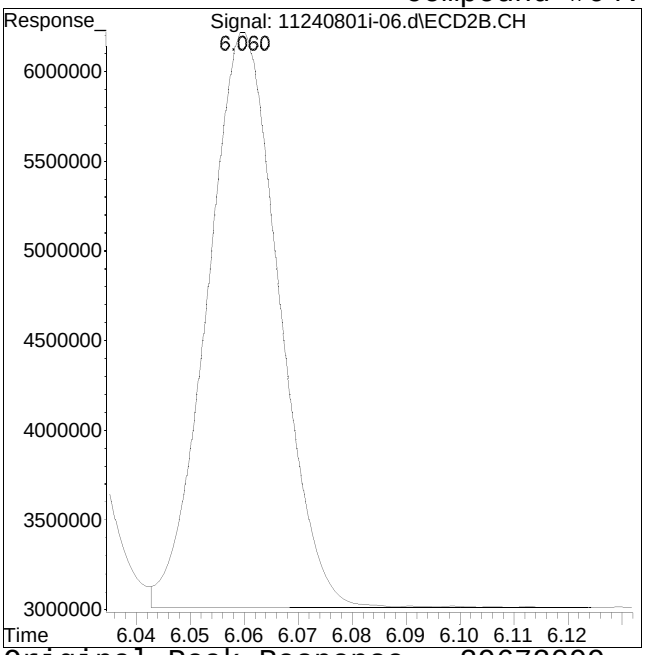


Original Peak Response = 34583334 Manual Peak Response = 33725466 M4
M4 = Poor automated baseline construction.

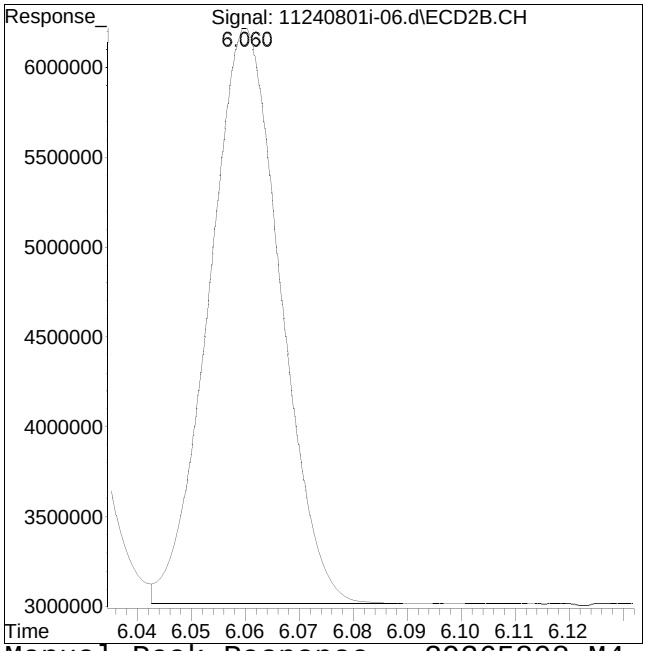
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #64: Endrin Ketone #2



Original Peak Response = 29672099



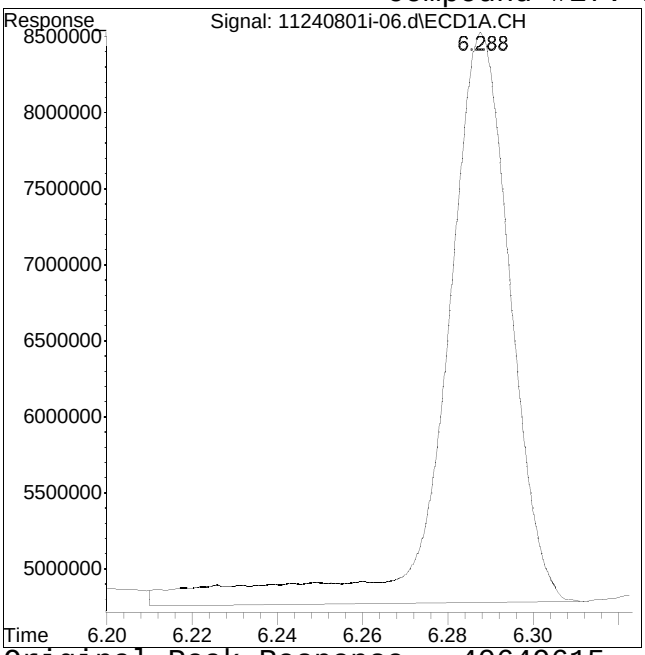
Manual Peak Response = 29365808 M4

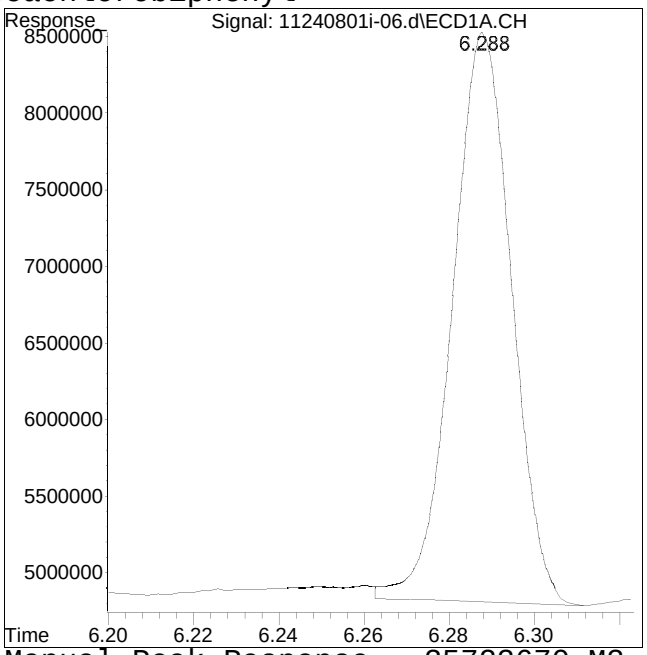
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 40649615 Manual Peak Response = 35723670 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	236.8E6	187.7E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.651	1.858	38521121	33228326	3.958M4	4.126M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	7.92%#	8.25%#
27) s	Decachlorobi	6.288	6.922	45749494	33190514	4.585M3	4.626M3
	Spiked Amount	50.000	Range 30 - 150		Recovery =	9.17%#	9.25%#
	Target Compounds						
3) t	Hexachlorobe	1.864	2.177	53831993	37517540	4.262M3	4.355M3
4) t	alpha-BHC	1.963	2.270	50099814	44404100	3.378	3.499M4
5) t	gamma-BHC (l	2.165	2.556	48429966	42423894	3.532M4	3.691M4
6) t	beta-BHC	2.221	2.622	23627338	22130202	4.112M4	4.572M4
7) t	delta-BHC	2.349	2.889	47212643	42358835	3.409M4	3.618
8) t	Heptachlor	2.513	2.951	48539979	47303379	3.873M4	4.125M4
9) t	Aldrin	2.755	3.270	43725904	41038709	3.629M3	3.833M4
10) t	Alachlor	2.876	3.152	8846077	7914947	4.229M4	5.313M4
11) t	Chlorpyrifos	2.968	3.506	24028161	29105048	4.744M4	5.206

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	43926945	42803293	3.942M3	4.261M4
13)	t	gamma-Chlord	3.424	4.104	38878589	38970708	3.786M4	4.193M4
14)	t	alpha-Chlord	3.559	4.273	44728489	43103625	3.859M3	4.197M4
15)	t	4,4'-DDE	3.656	4.472	42411214	37932784	3.626M4	3.740M3
16)	t	Endosulfan I	3.695	4.335	41113069	40054576	3.894	4.272M4
17)	t	Dieldrin	3.954	4.627	40416298	38468360	3.654M4	3.937M4
18)	t	Endrin	4.209	4.925	41670444	39189618	3.747M4	3.963M4
19)	t	4,4'-DDD	4.321	5.049	32563209	30675797	3.557M4	3.766M4
20)	t	Endosulfan I	4.451	5.125	38878709	36626235	3.907M4	4.280M4
21)	t	4,4'-DDT	4.615	5.326	37823947	35899886	3.661M4	3.859M4
22)	t	Endrin Aldeh	4.868	5.421	32912480	30791502	3.951M4	4.329M4
23)	t	Methoxychlor	5.103	5.890	23121492	22184815	4.437M4	4.706M4
24)	t	Mirex	5.159	6.023	37112581	34701868	4.423M4	4.946M4
25)	t	Endosulfan S	5.259	5.650	37357641	36575099	4.010M3	4.387M4
26)	t	Endrin Keton	5.486	6.060	44230088	37958462	3.979M4	4.219M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

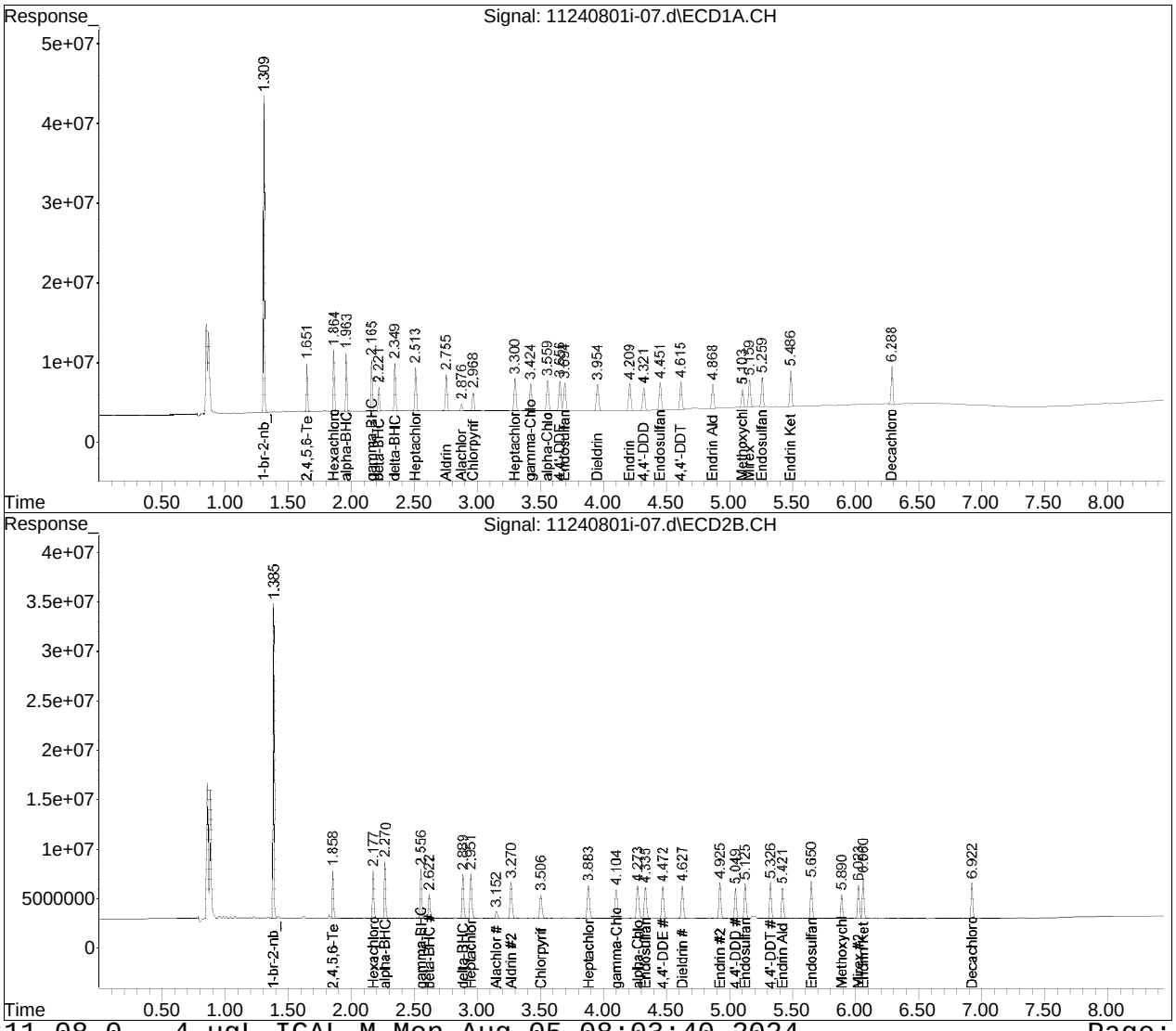
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

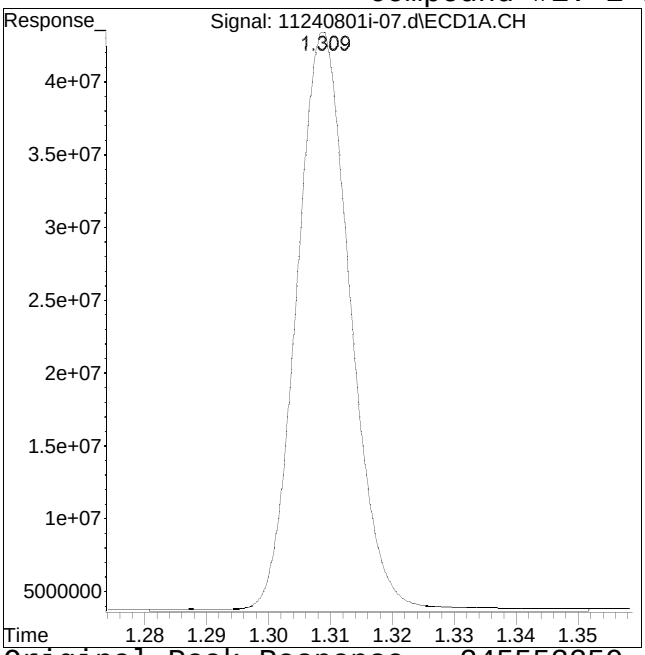


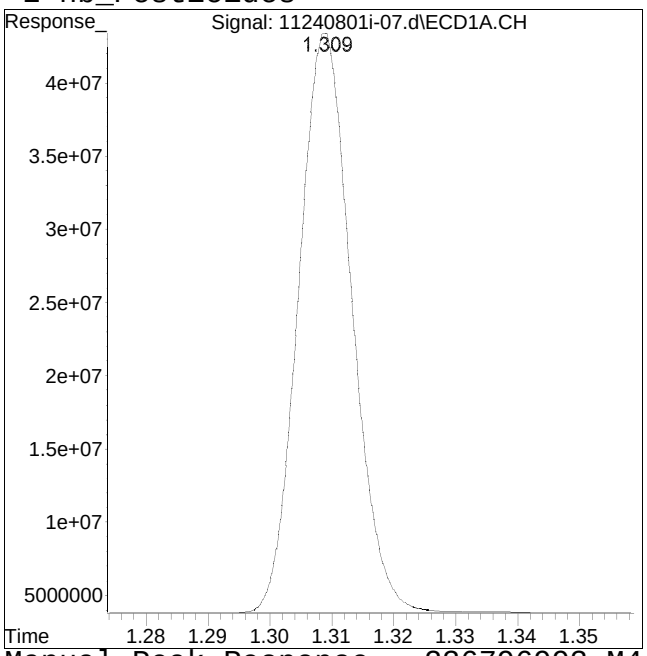
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #1: 1-br-2-nb_Pesticides



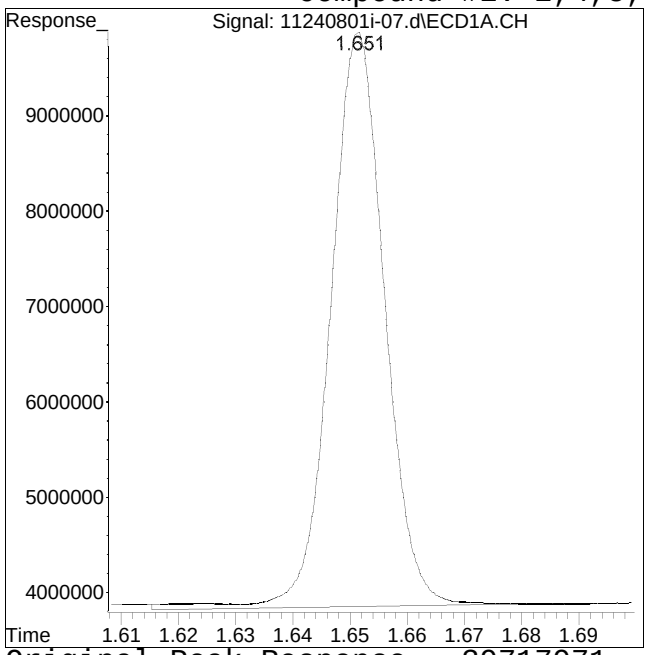


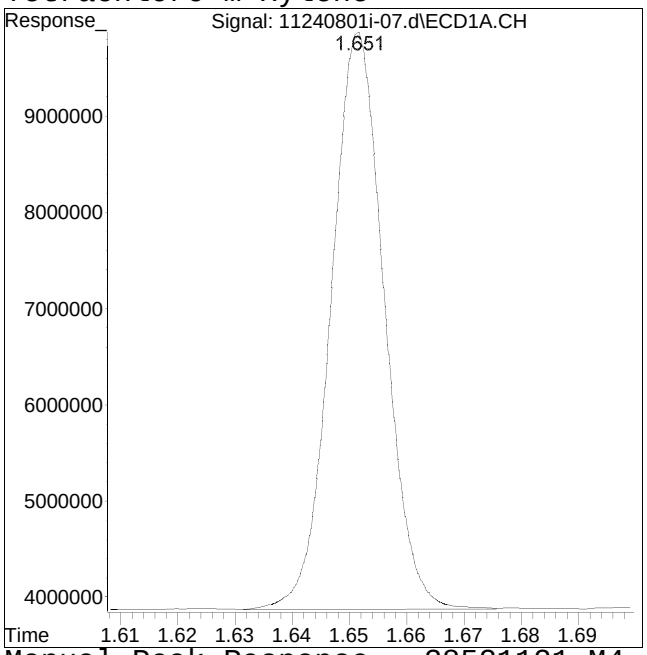
Original Peak Response = 245553359 Manual Peak Response = 236796993 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





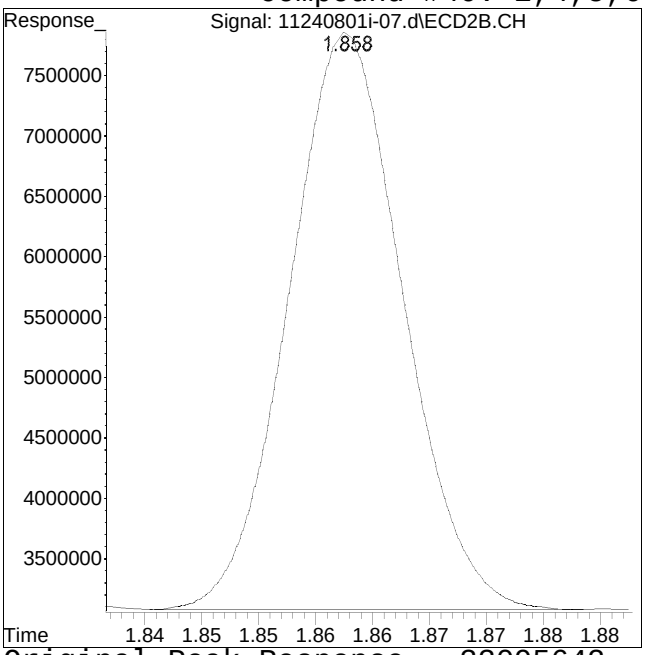
Original Peak Response = 39717971 Manual Peak Response = 38521121 M4
M4 = Poor automated baseline construction.

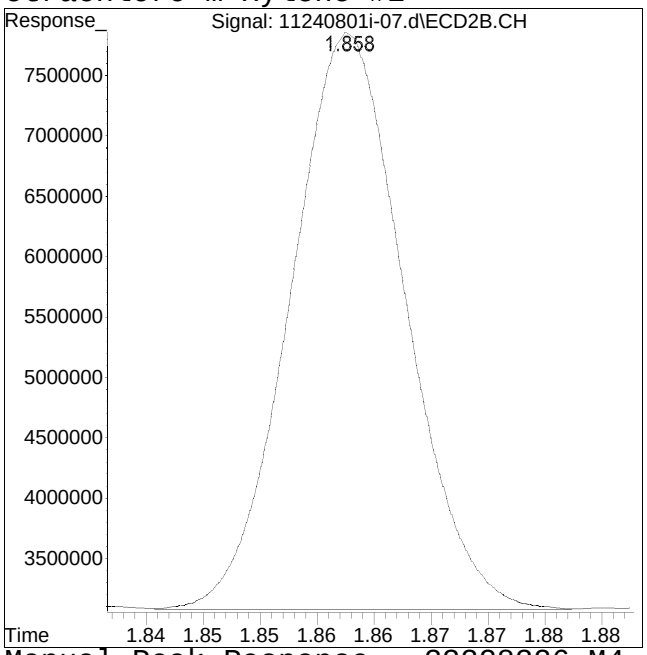
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



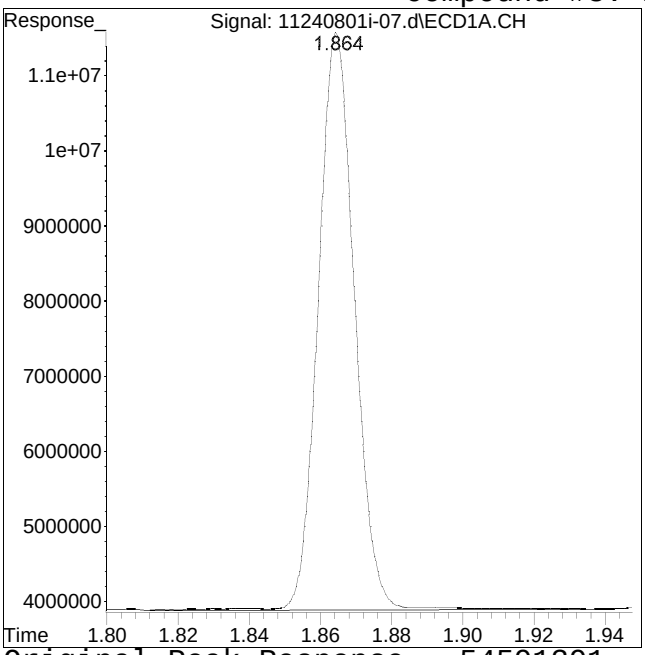


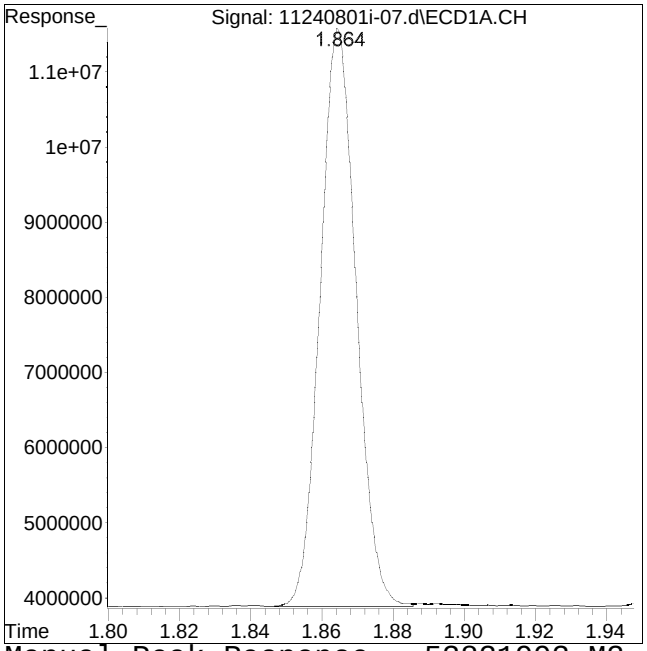
Original Peak Response = 33095642 Manual Peak Response = 33228326 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #3: Hexachlorobenzene



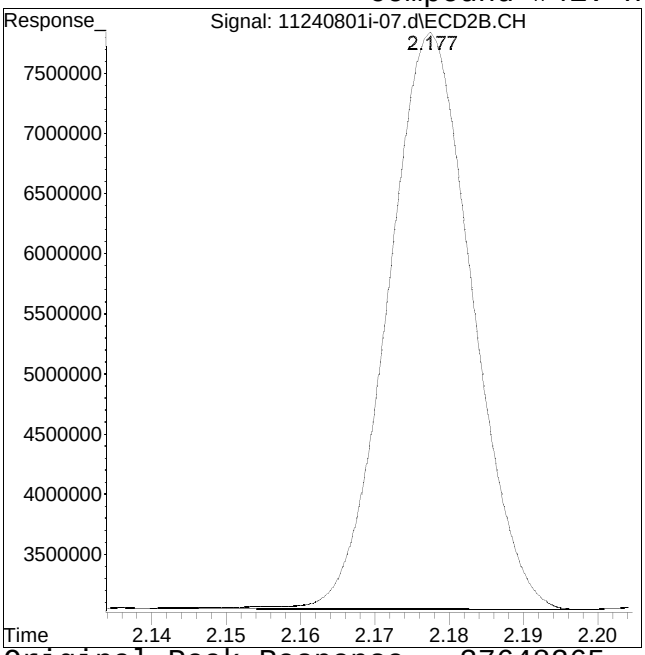


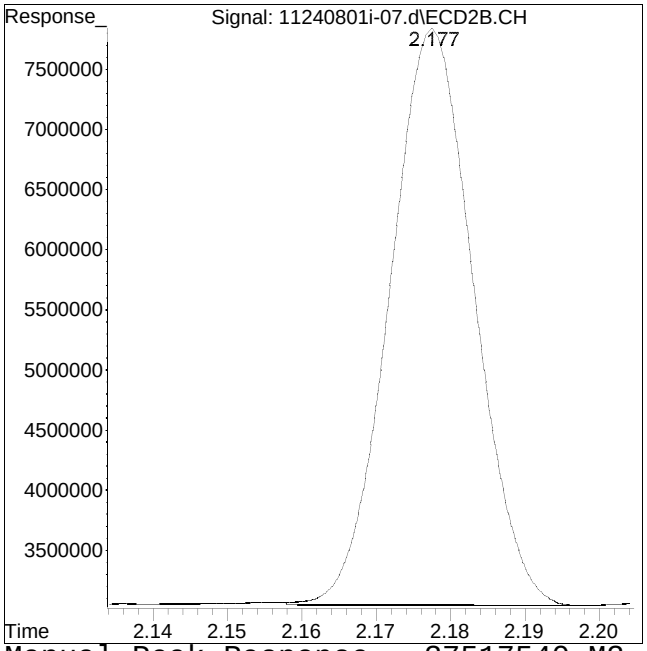
Original Peak Response = 54591391 Manual Peak Response = 53831993 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #41: Hexachlorobenzene #2



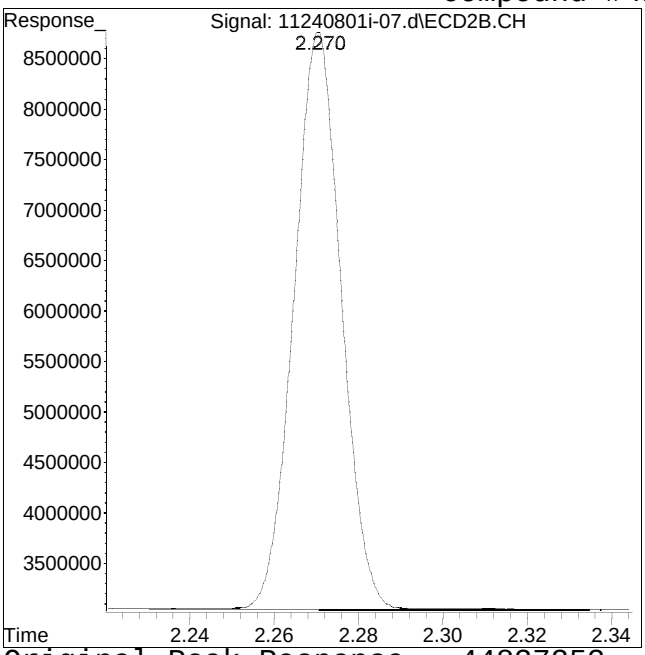


Original Peak Response = 37648265 Manual Peak Response = 37517540 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

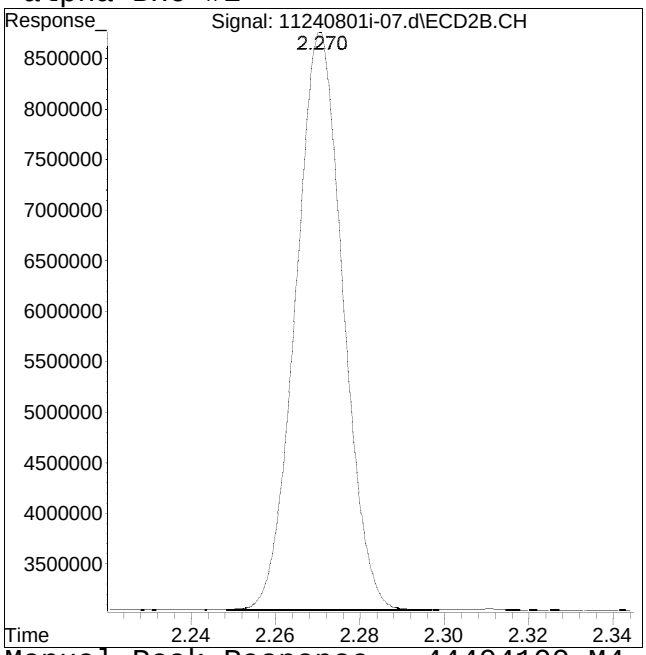
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #42: alpha-BHC #2



Original Peak Response = 44837253



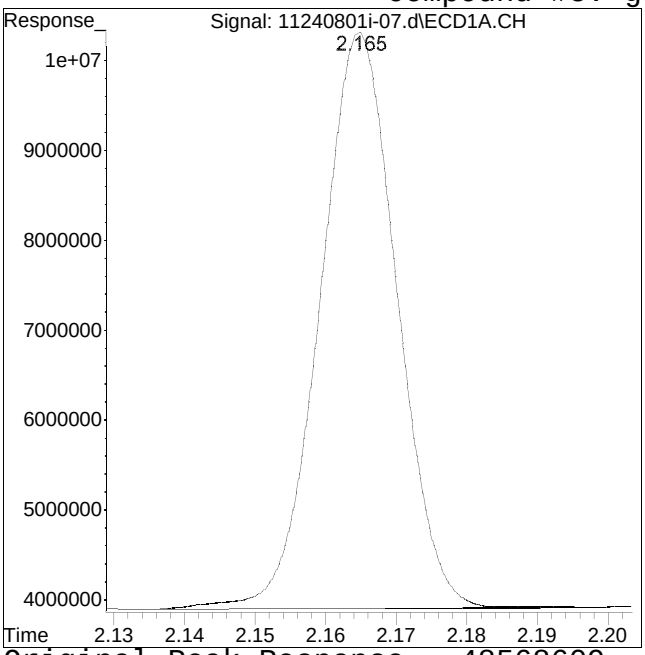
Manual Peak Response = 44404100 M4

M4 = Poor automated baseline construction.

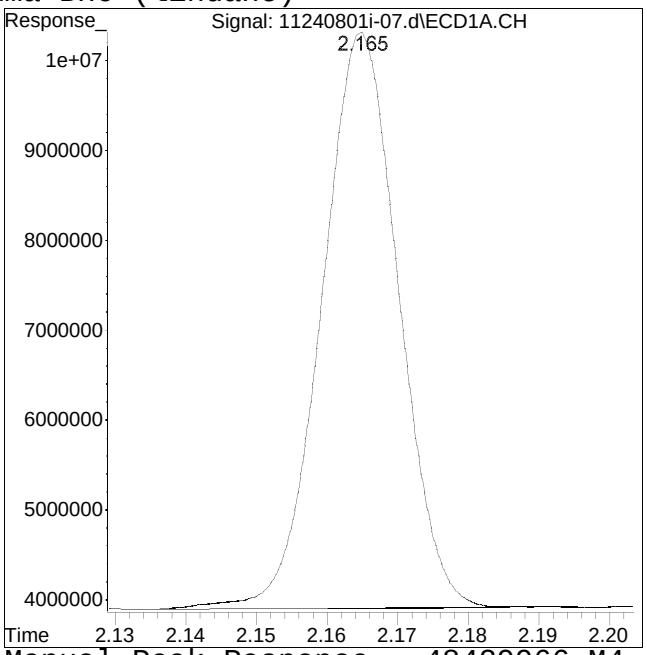
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 48568609

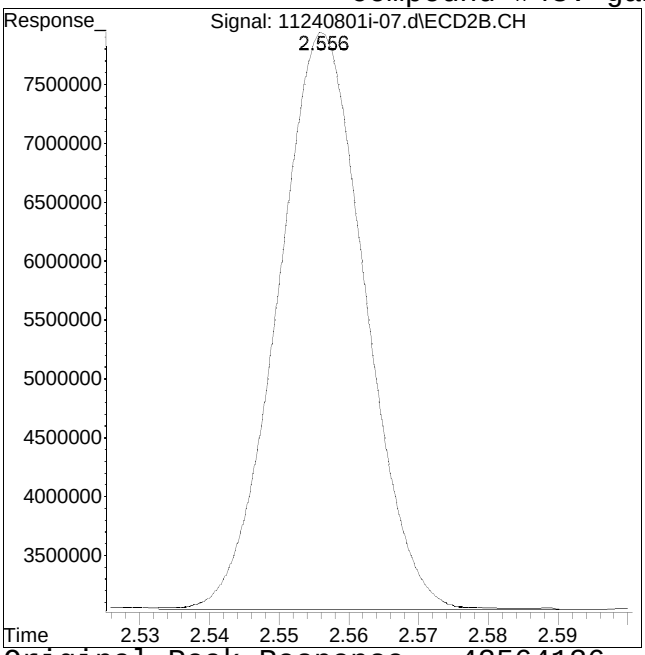


Manual Peak Response = 48429966 M4
M4 = Poor automated baseline construction.

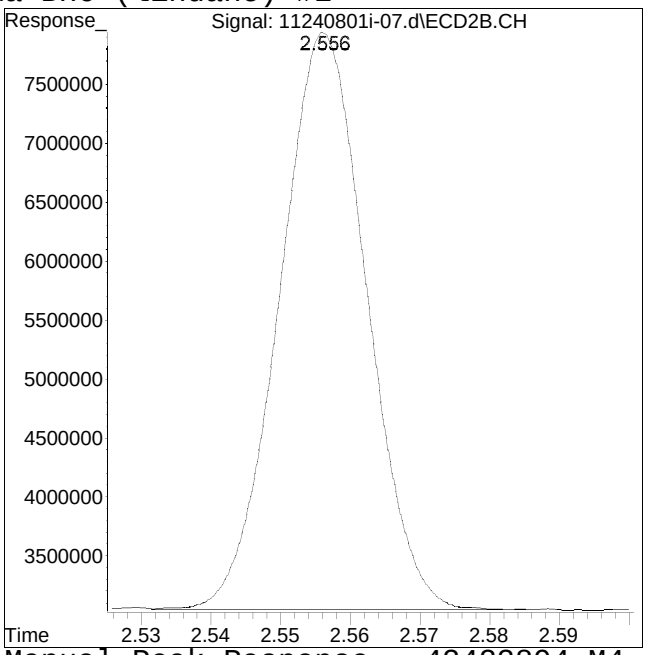
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 42564136



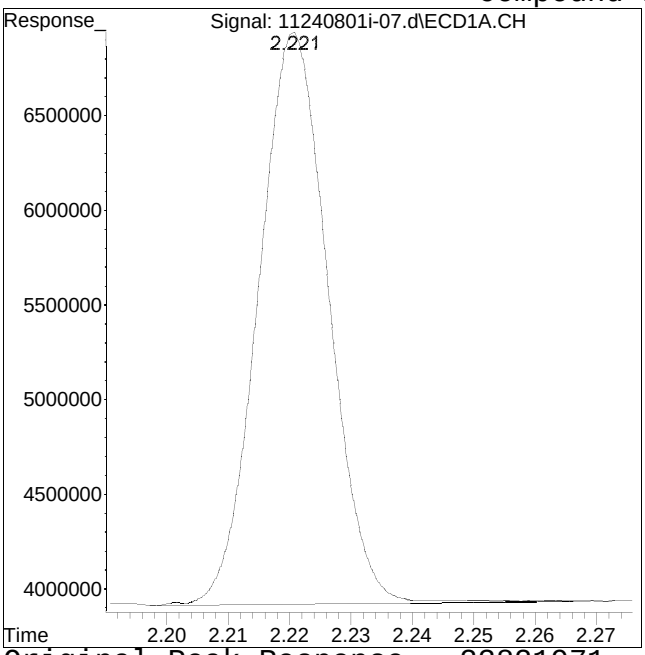
Manual Peak Response = 42423894 M4

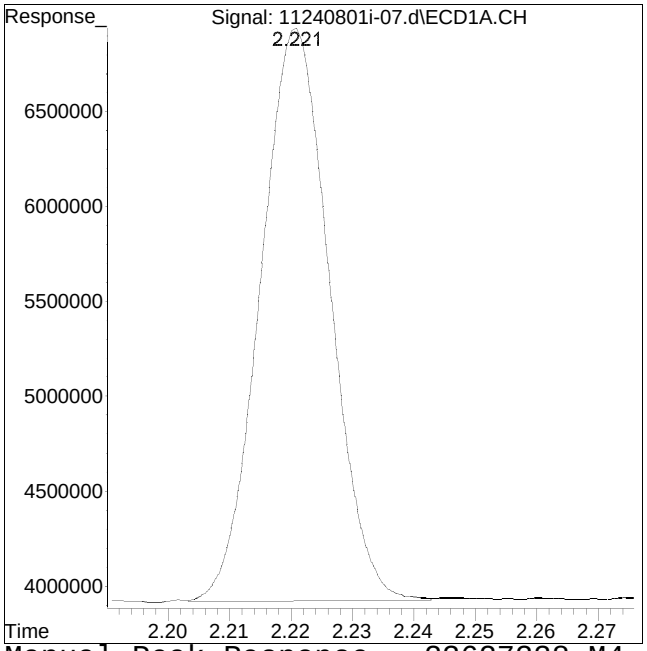
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #6: beta-BHC





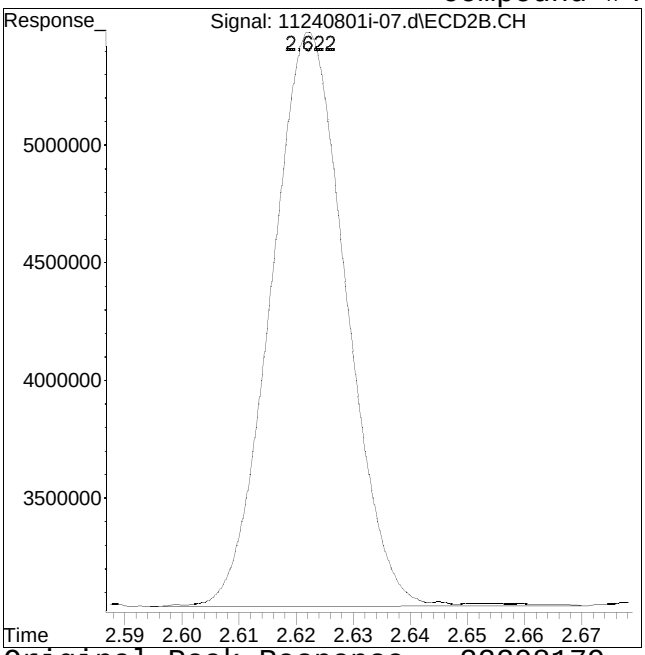
Original Peak Response = 23821971 Manual Peak Response = 23627338 M4
M4 = Poor automated baseline construction.

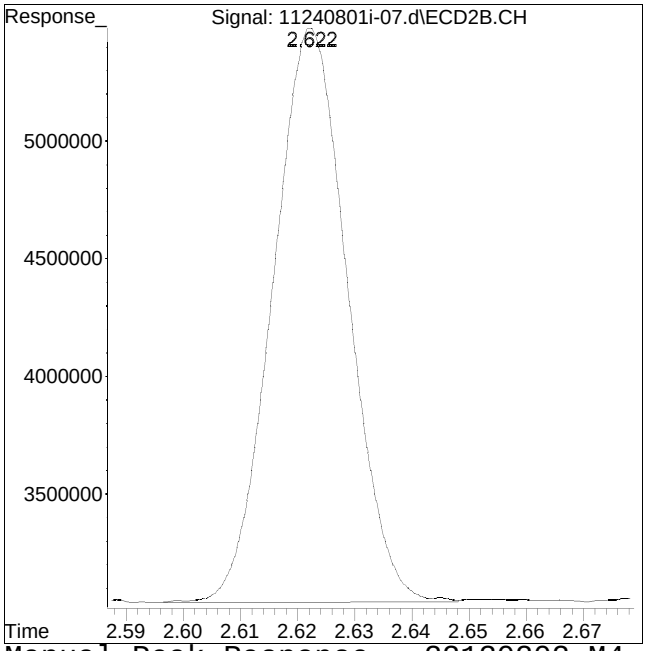
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #44: beta-BHC #2





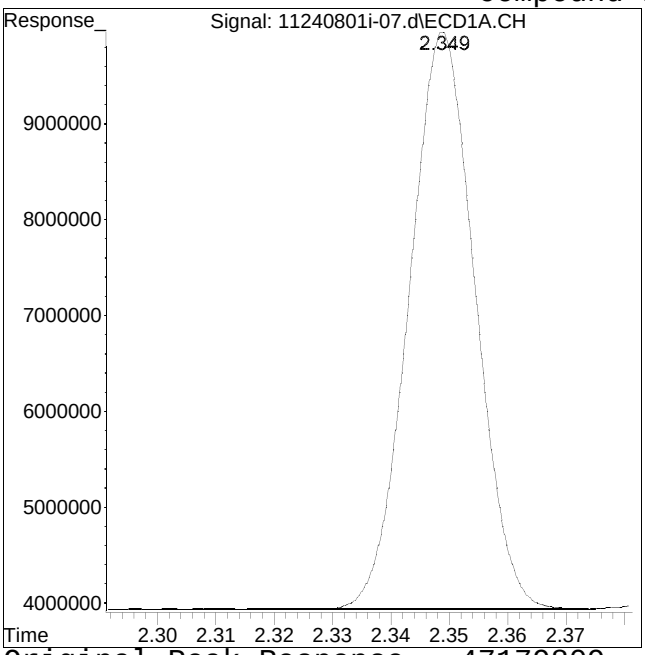
Original Peak Response = 22208179 Manual Peak Response = 22130202 M4
M4 = Poor automated baseline construction.

Manual Integration Report

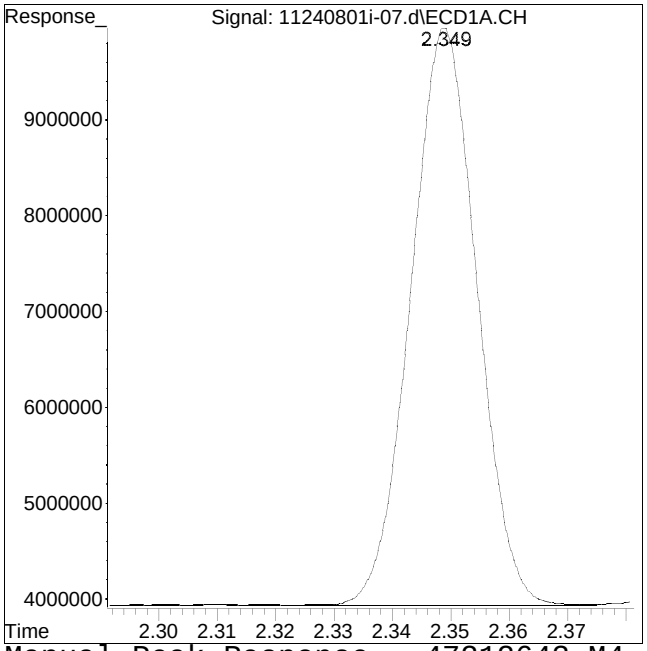
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #7: delta-BHC



Original Peak Response = 47179809



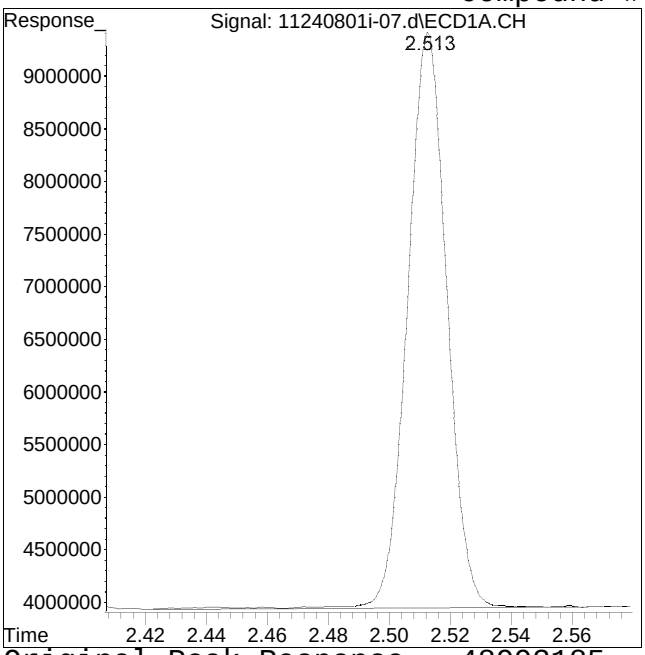
Manual Peak Response = 47212643 M4

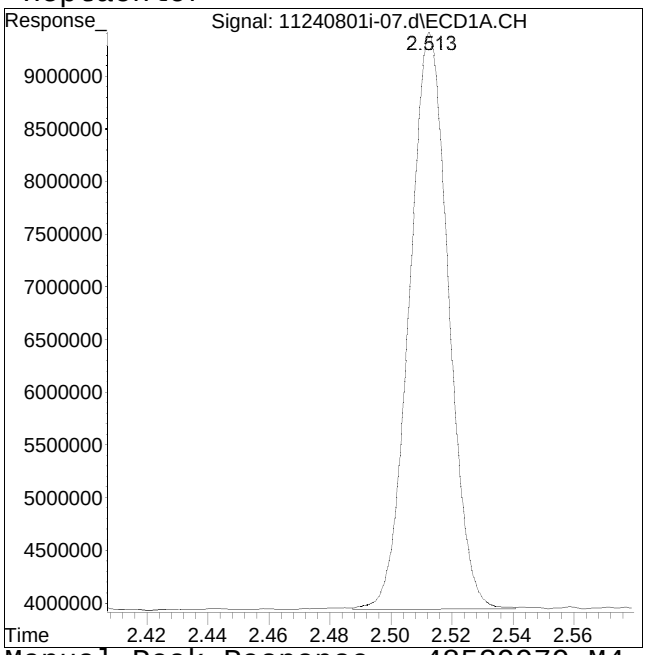
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #8: Heptachlor





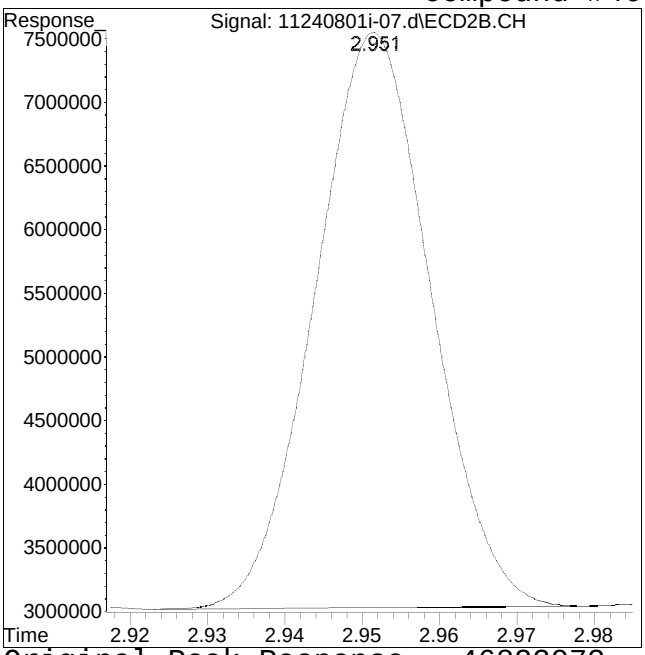
Original Peak Response = 48993185 Manual Peak Response = 48539979 M4
M4 = Poor automated baseline construction.

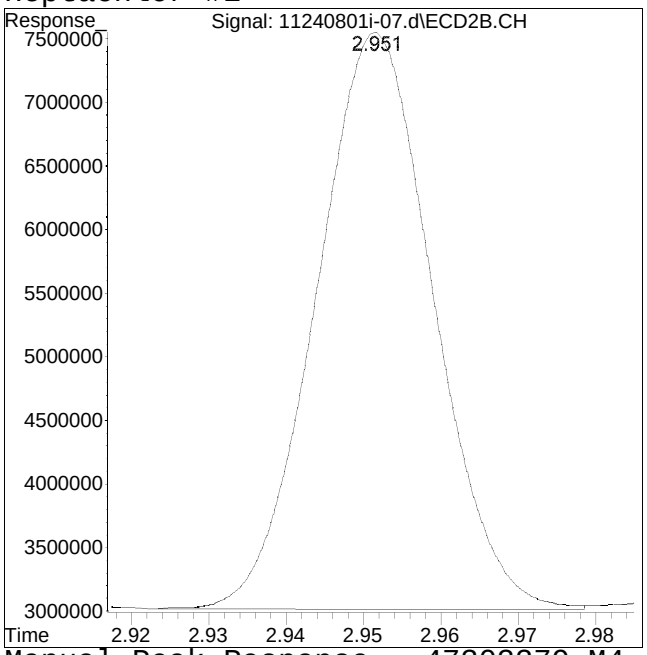
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #46: Heptachlor #2





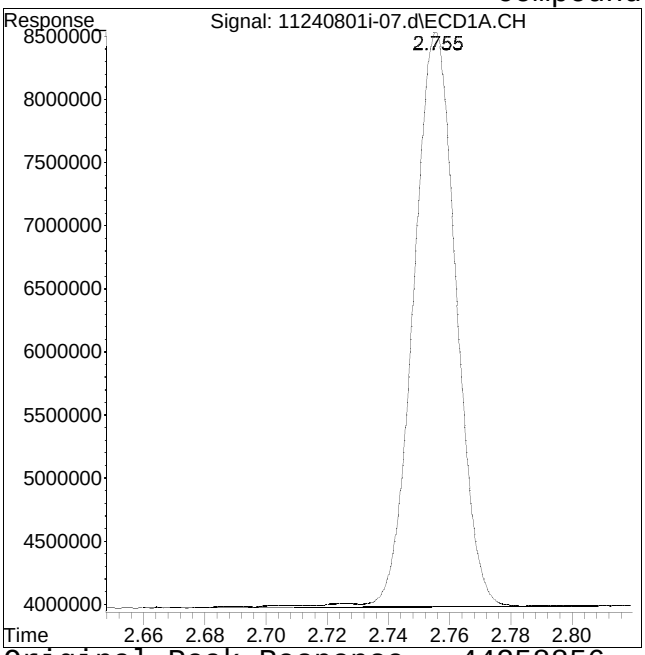
Original Peak Response = 46822072 Manual Peak Response = 47303379 M4
M4 = Poor automated baseline construction.

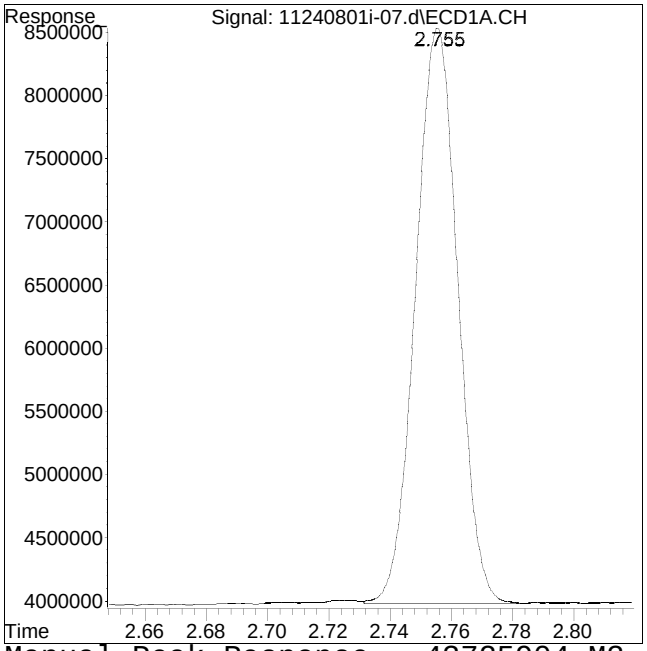
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #9: Aldrin





Original Peak Response = 44258856 Manual Peak Response = 43725904 M3

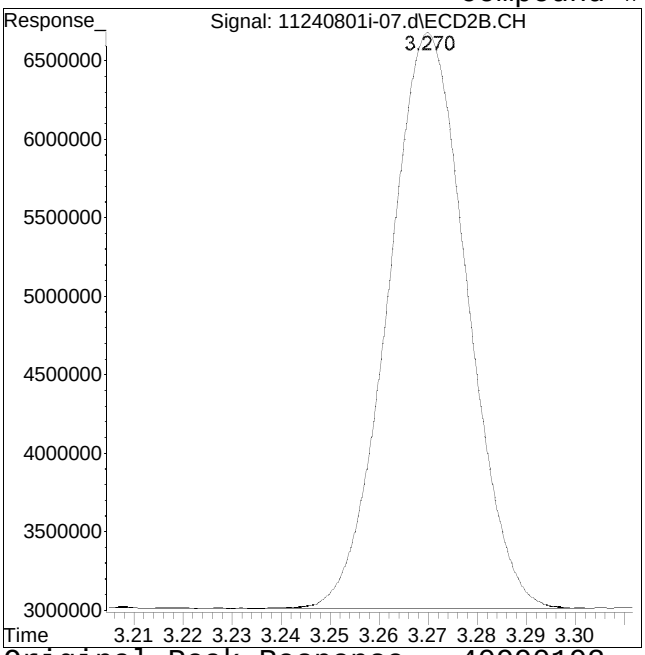
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

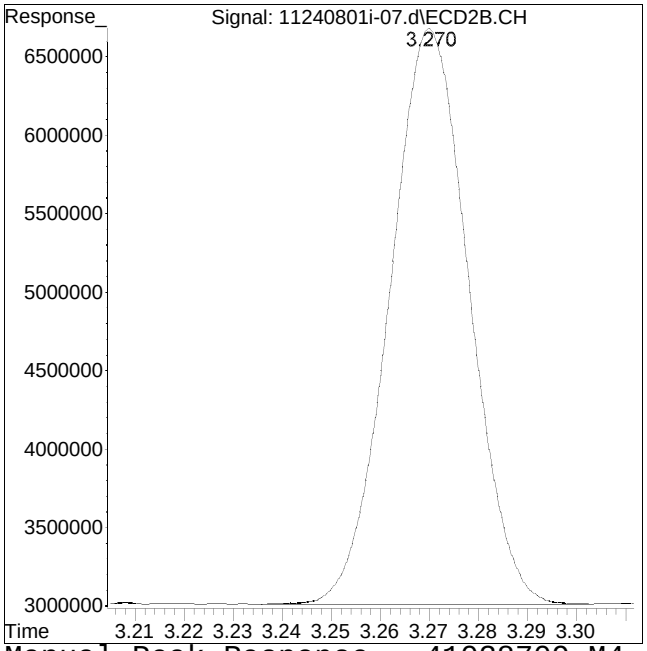
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #47: Aldrin #2



Original Peak Response = 40990192



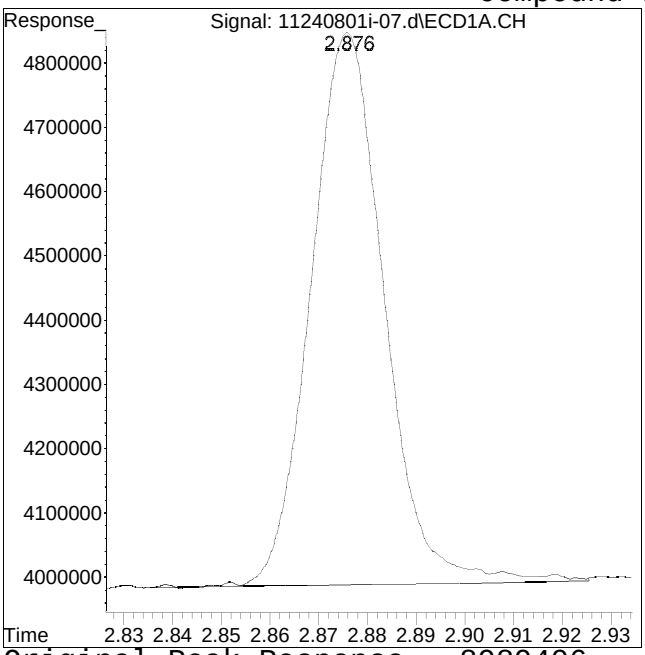
Manual Peak Response = 41038709 M4

M4 = Poor automated baseline construction.

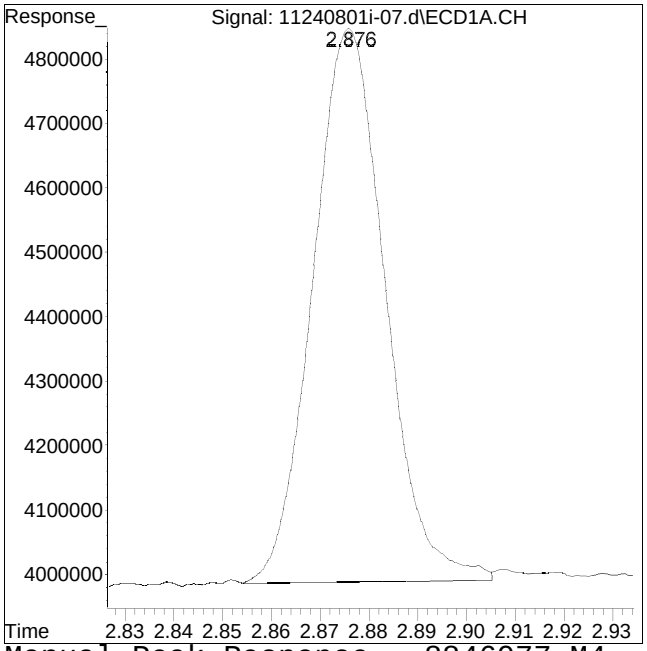
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #10: Alachlor



Original Peak Response = 8989406



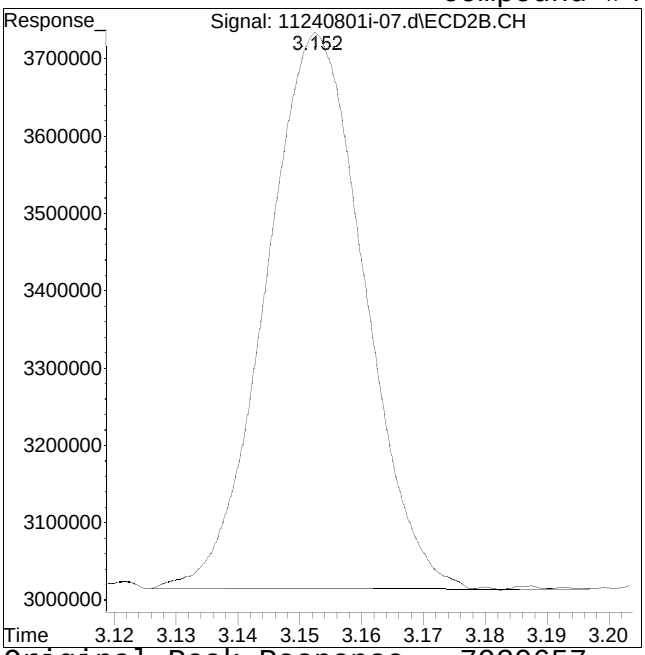
Manual Peak Response = 8846077 M4

M4 = Poor automated baseline construction.

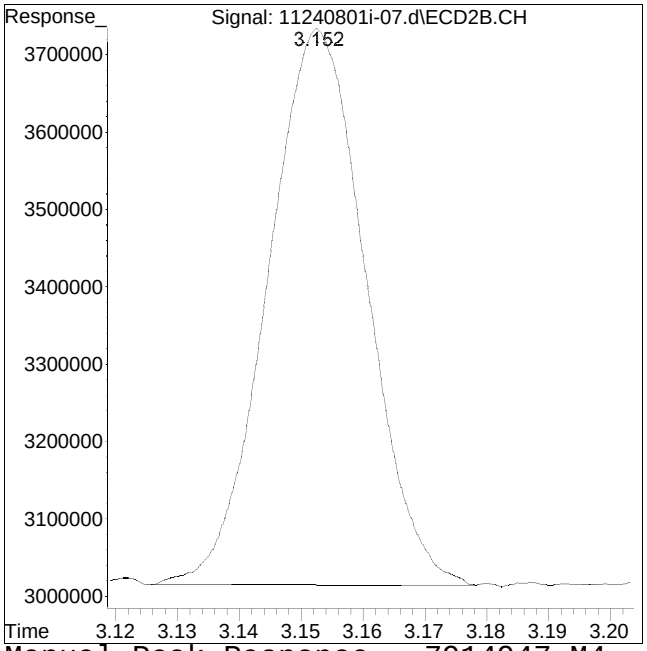
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #48: Alachlor #2



Original Peak Response = 7930657



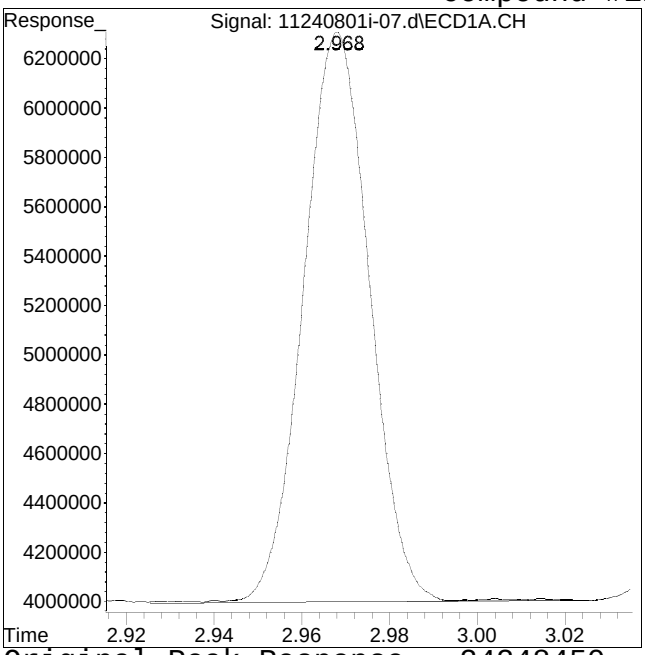
Manual Peak Response = 7914947 M4

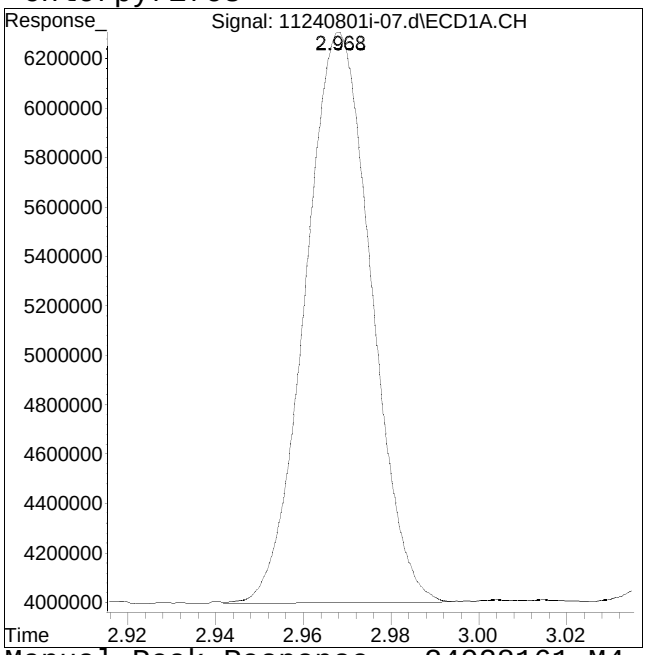
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #11: Chlorpyrifos



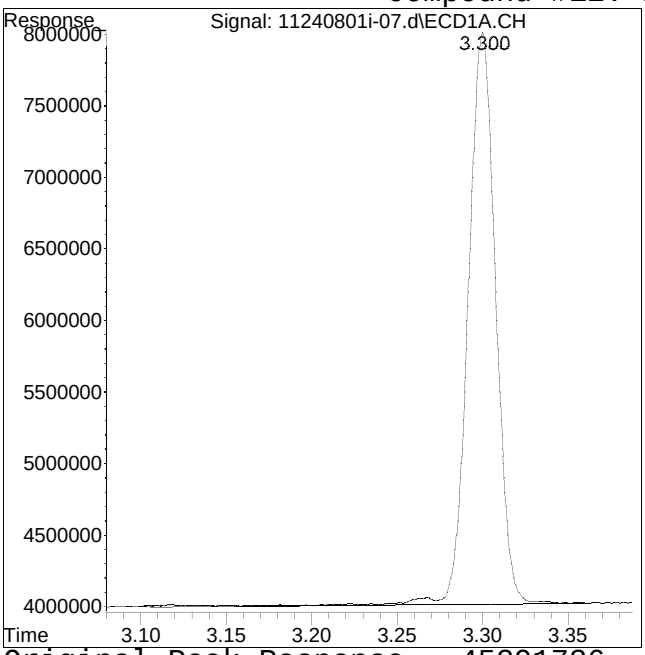


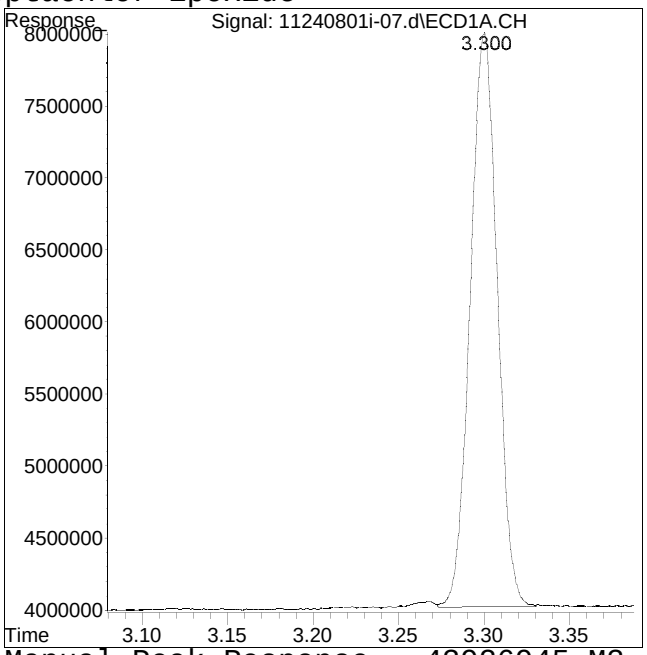
Original Peak Response = 24248450 Manual Peak Response = 24028161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 45291736 Manual Peak Response = 43926945 M3

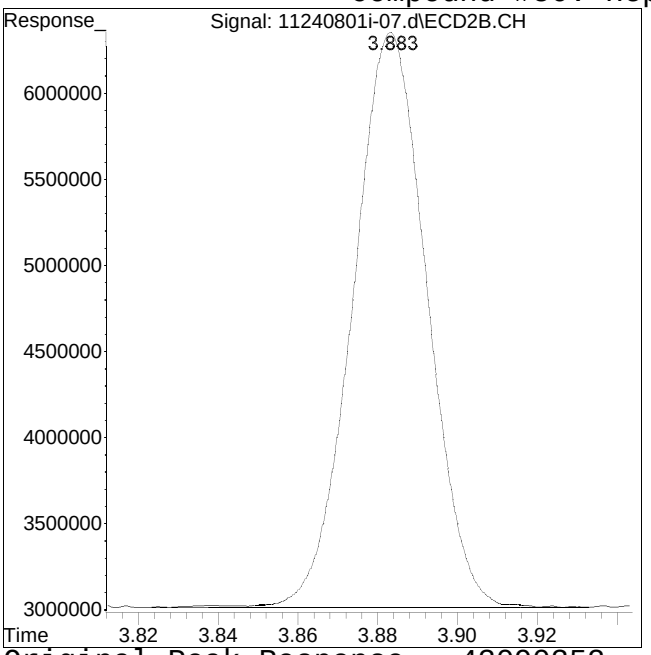
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

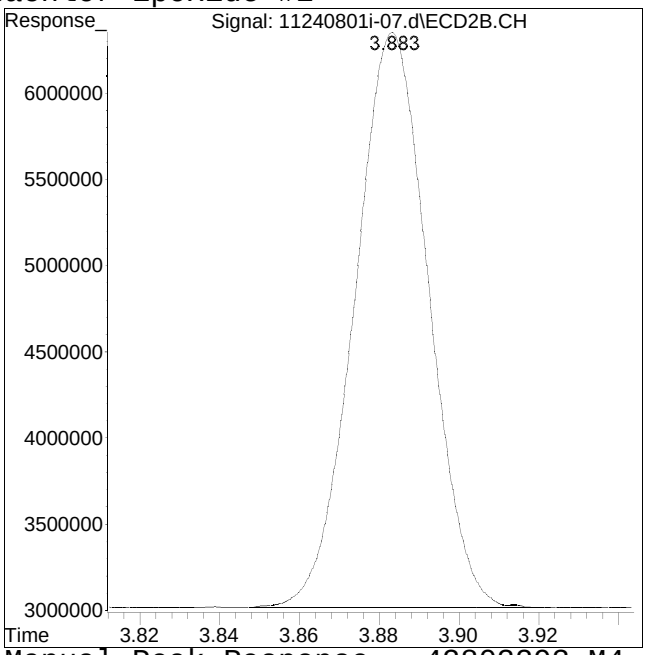
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #50: Heptachlor Epoxide #2



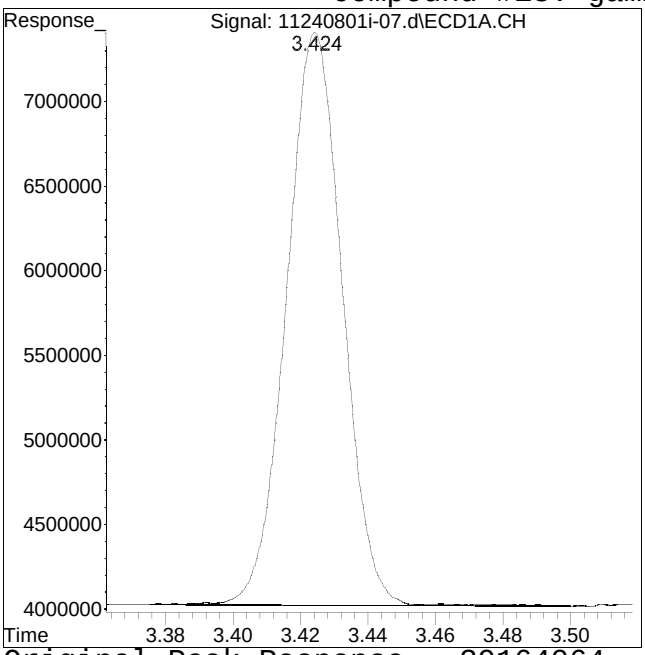


Original Peak Response = 43090352 Manual Peak Response = 42803293 M4
M4 = Poor automated baseline construction.

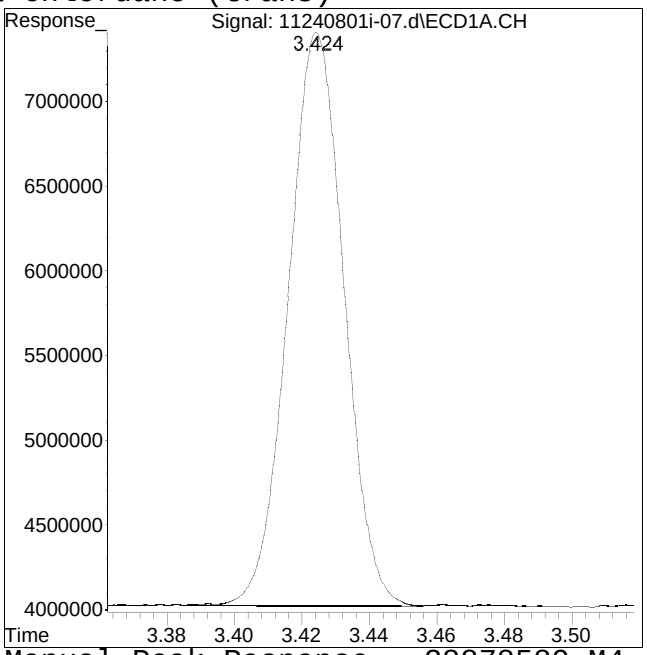
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 39164064



Manual Peak Response = 38878589 M4

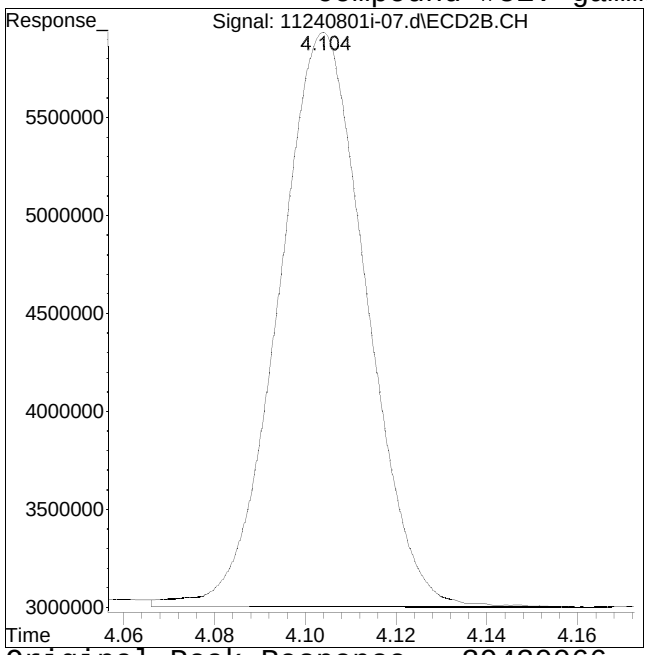
M4 = Poor automated baseline construction.

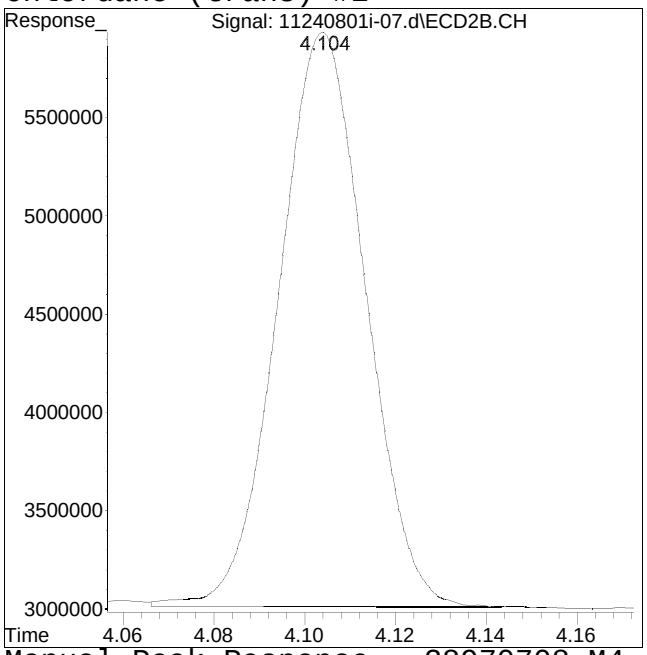
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #51: gamma-Chlordane (trans) #2



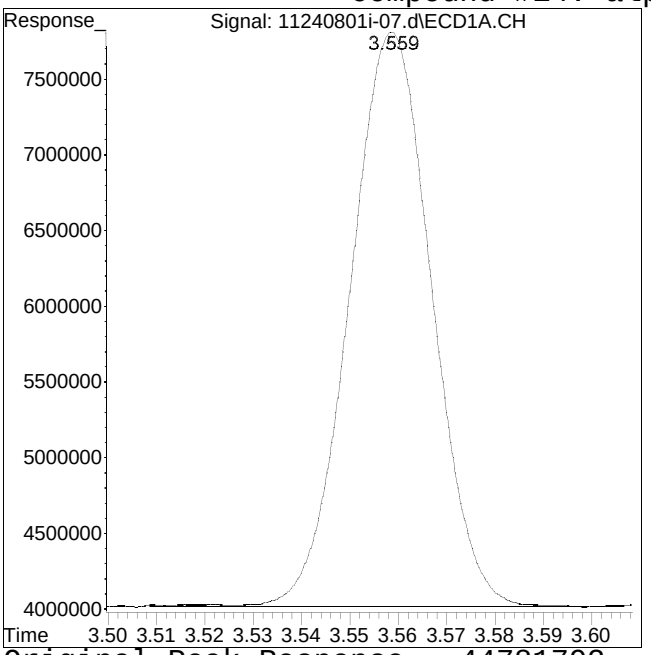


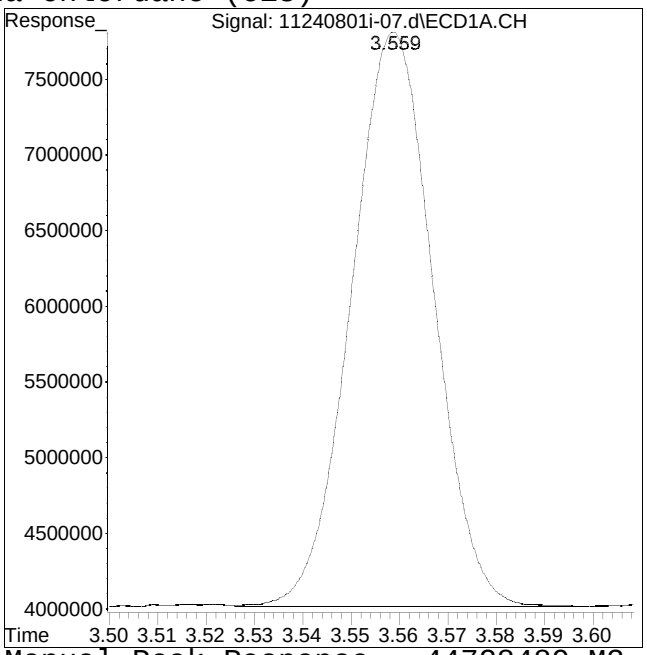
Original Peak Response = 39430066 Manual Peak Response = 38970708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #14: alpha-Chlordane (cis)





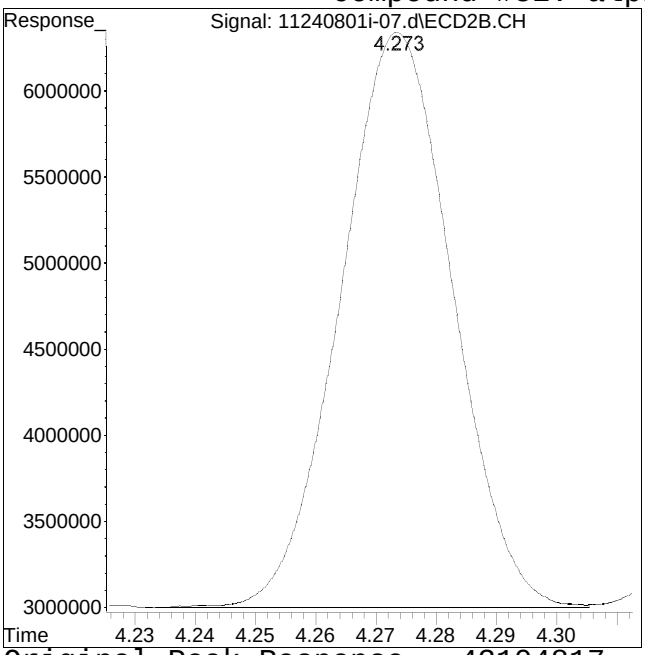
Original Peak Response = 44781792 Manual Peak Response = 44728489 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

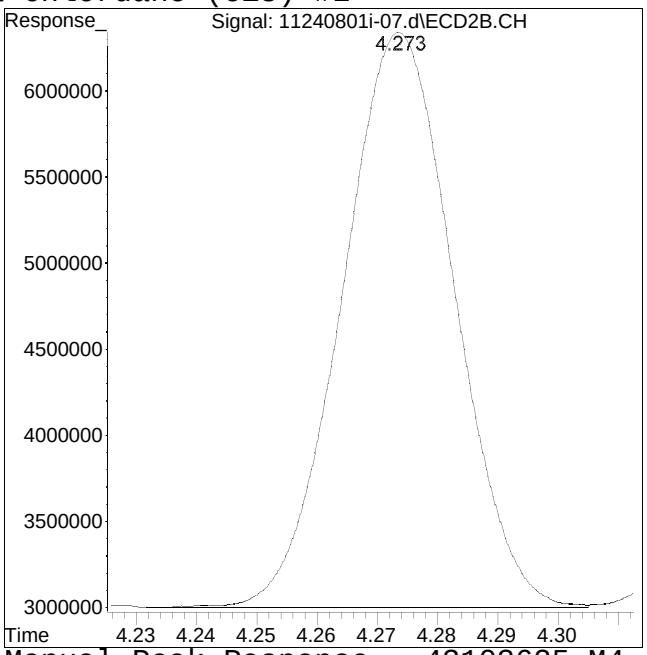
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 43104817



Manual Peak Response = 43103625 M4

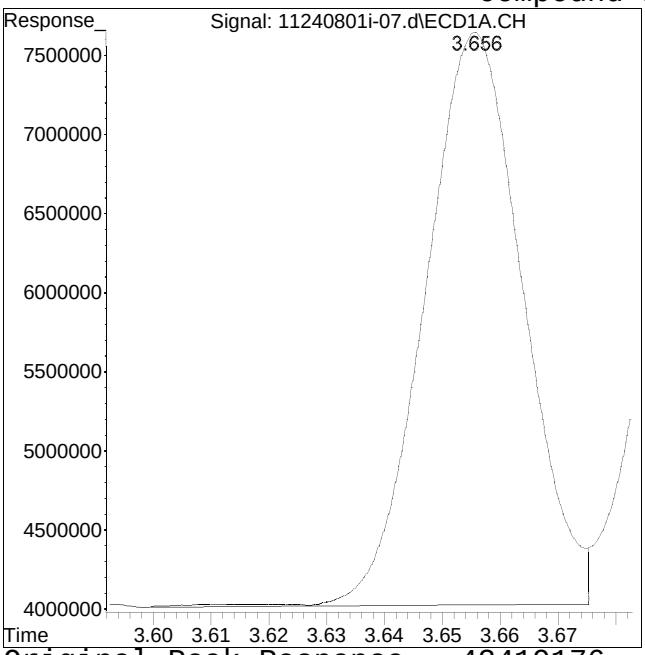
M4 = Poor automated baseline construction.

Manual Integration Report

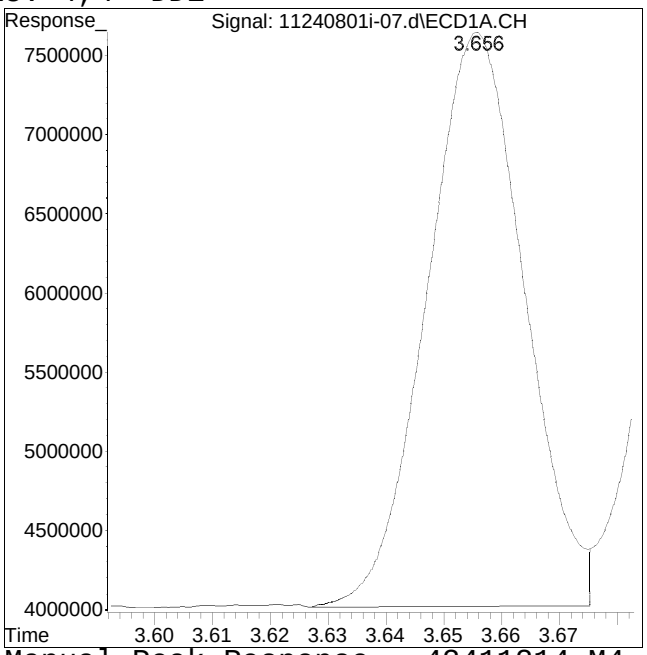
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #15: 4,4'-DDE



Original Peak Response = 42419176



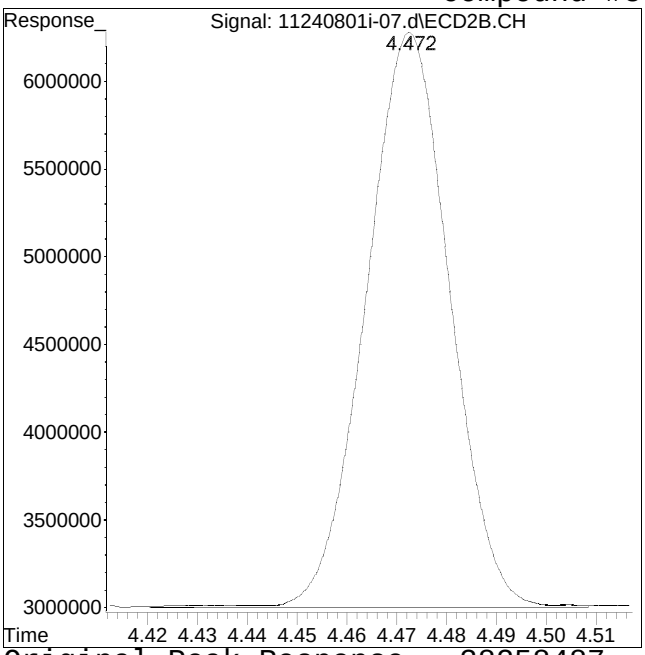
Manual Peak Response = 42411214 M4

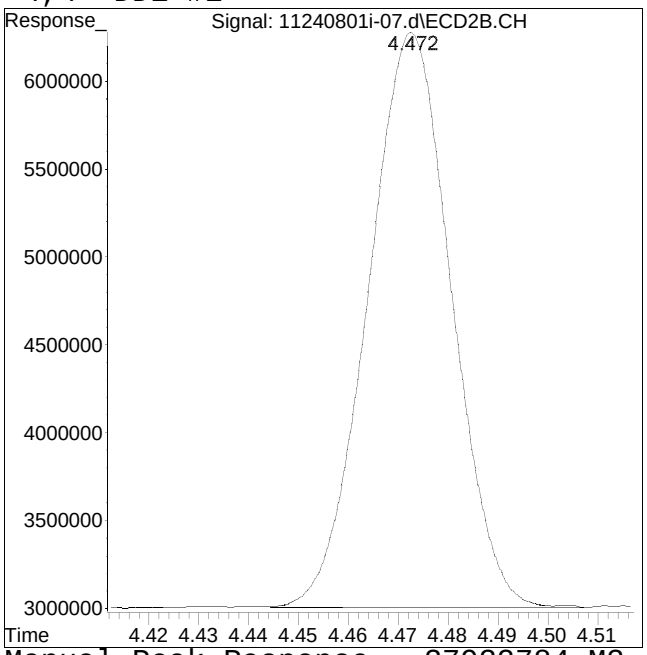
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #53: 4,4'-DDE #2





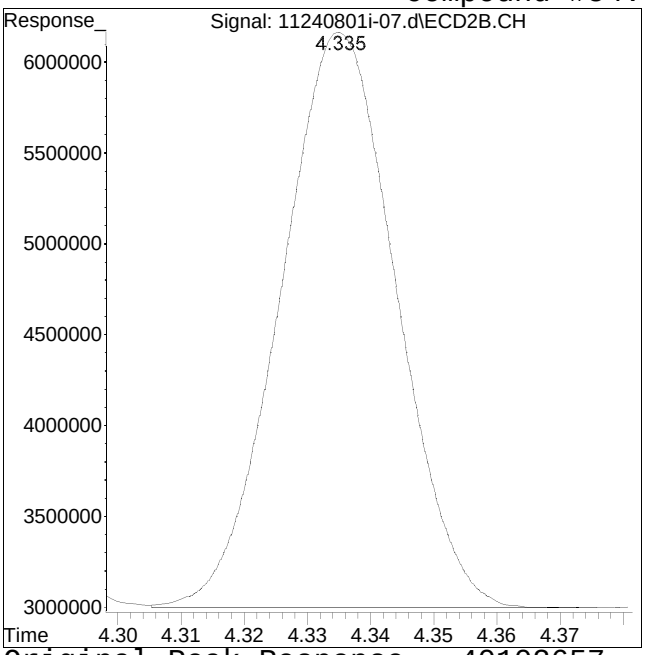
Original Peak Response = 38258487 Manual Peak Response = 37932784 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

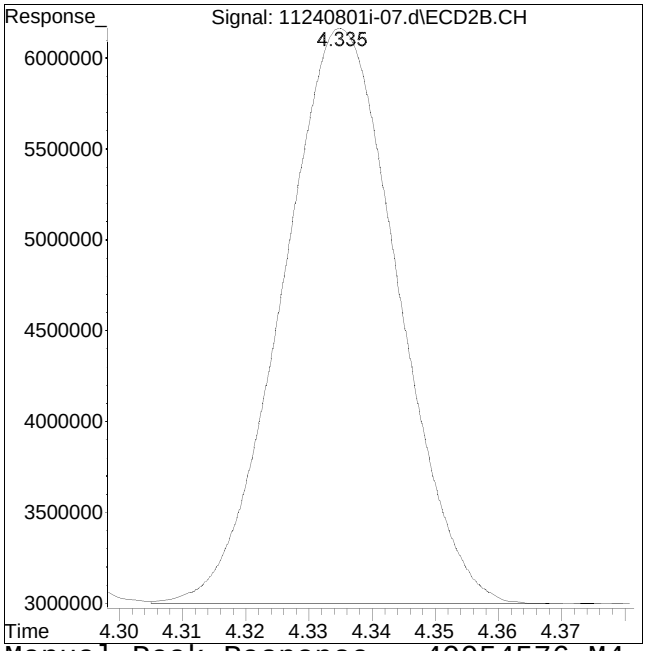
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #54: Endosulfan I #2



Original Peak Response = 40102657



Manual Peak Response = 40054576 M4

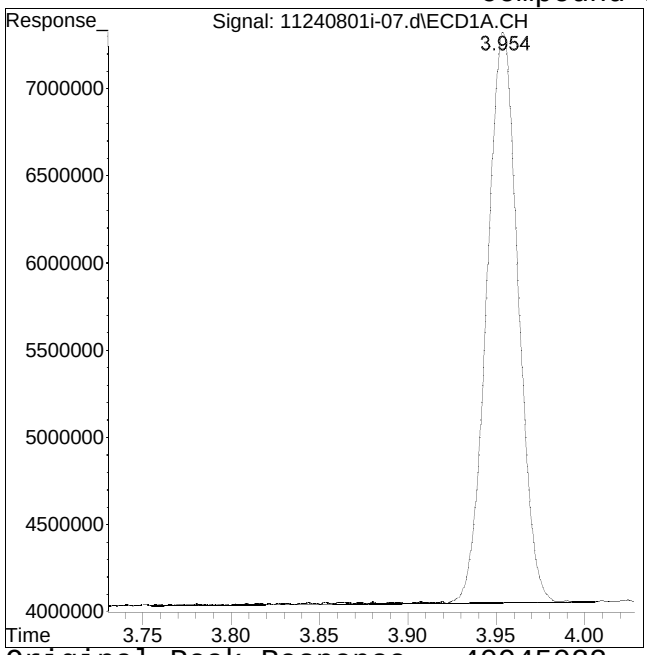
M4 = Poor automated baseline construction.

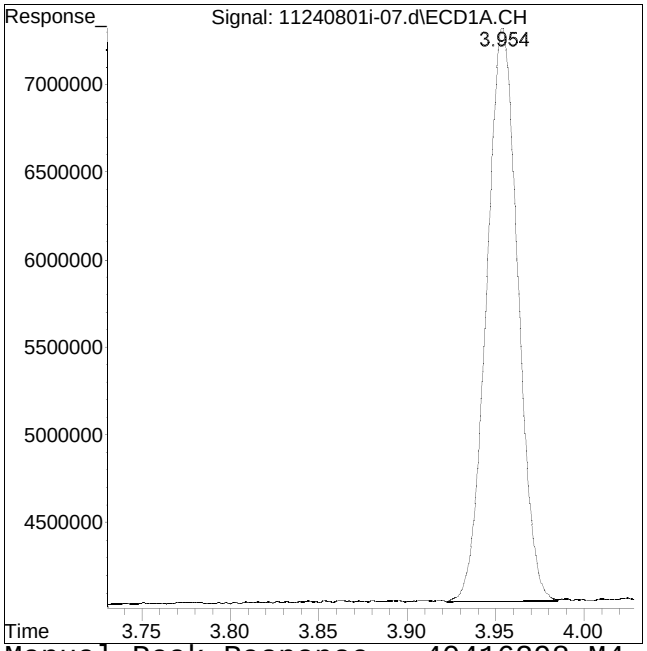
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #17: Dieldrin



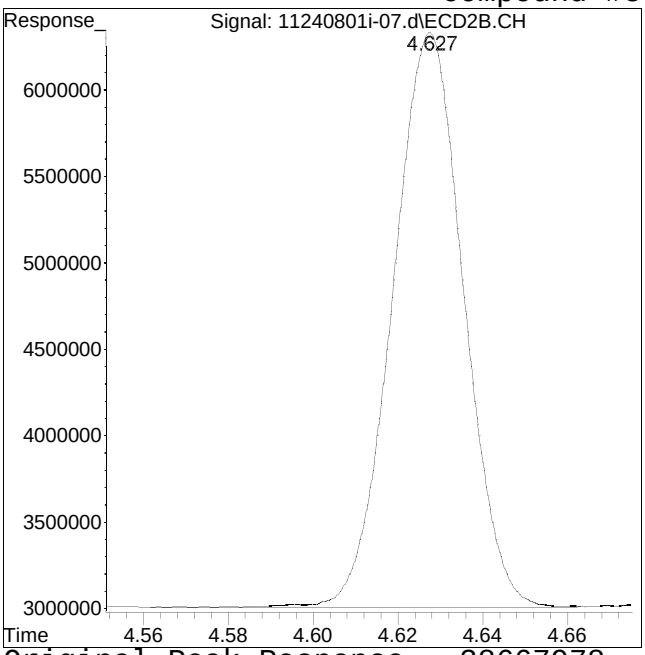


Original Peak Response = 40945022 Manual Peak Response = 40416298 M4
M4 = Poor automated baseline construction.

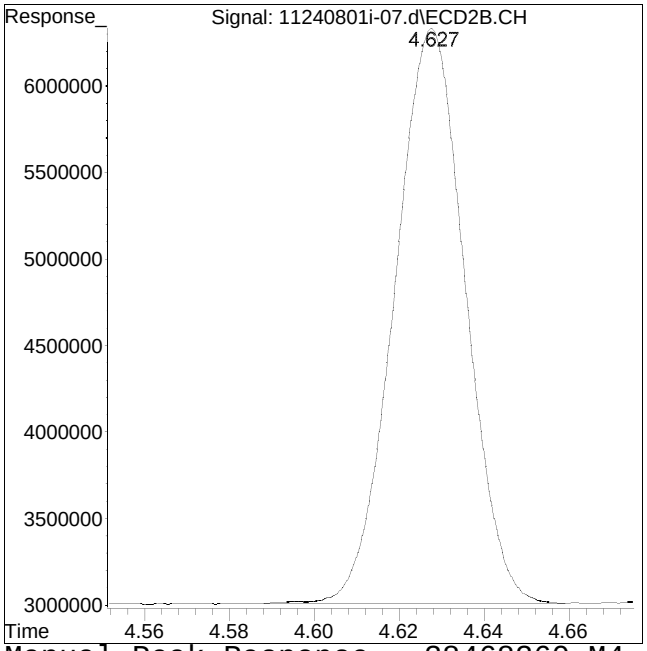
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #55: Dieldrin #2



Original Peak Response = 38667978



Manual Peak Response = 38468360 M4

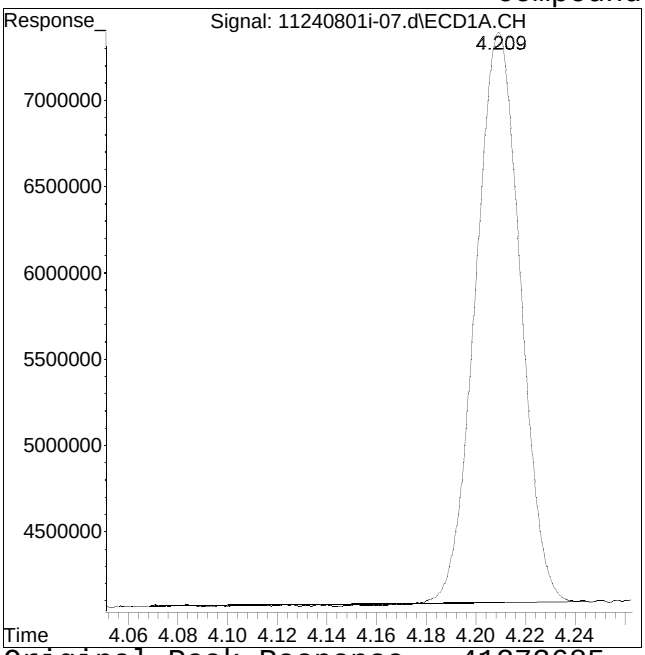
M4 = Poor automated baseline construction.

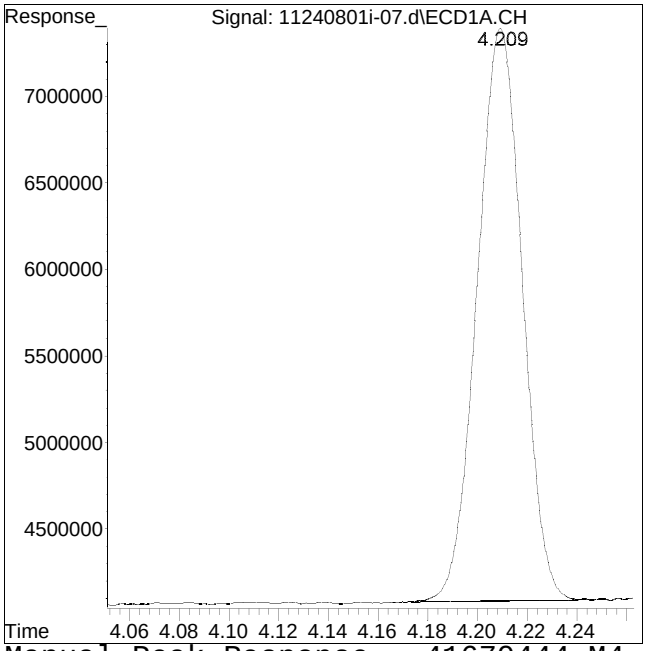
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #18: Endrin



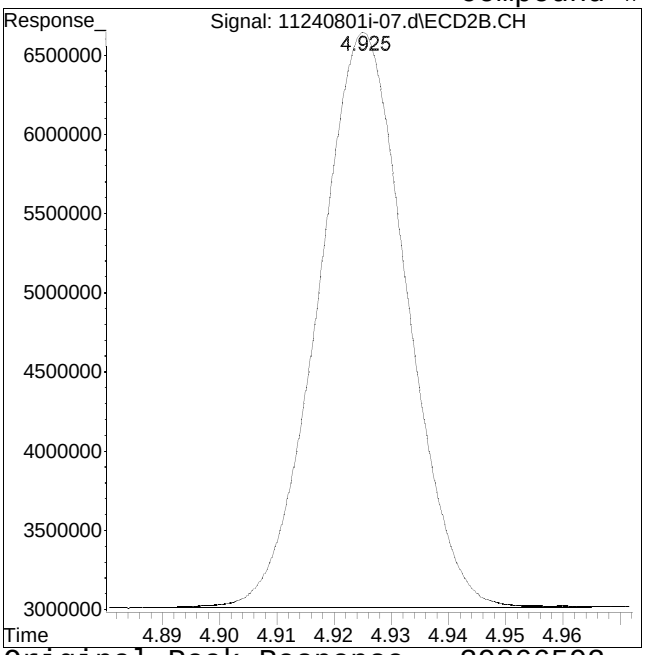


Original Peak Response = 41273685 Manual Peak Response = 41670444 M4
M4 = Poor automated baseline construction.

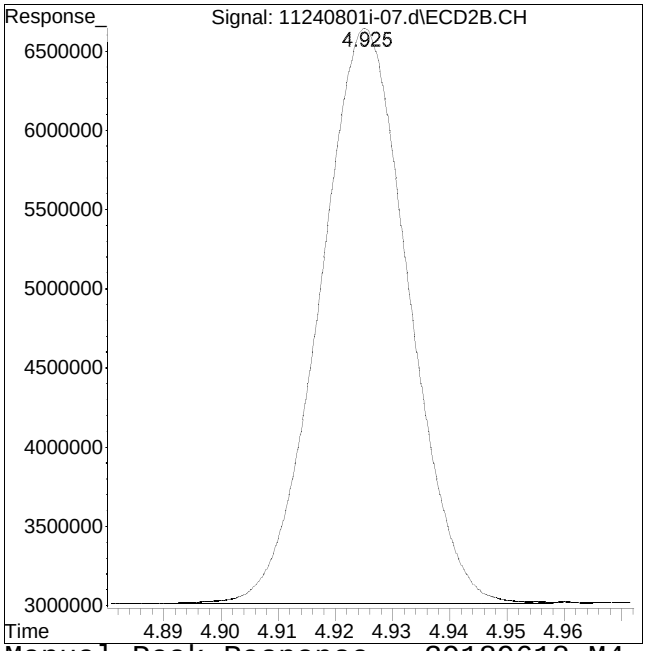
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #56: Endrin #2



Original Peak Response = 39266592



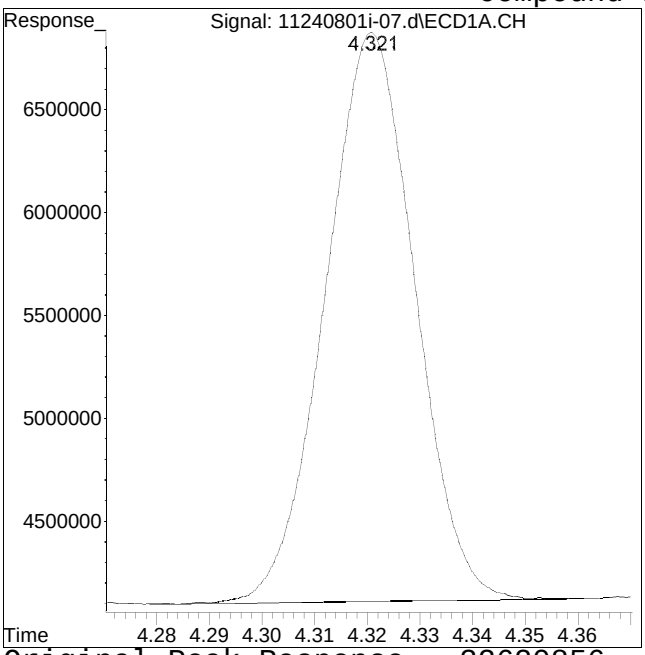
Manual Peak Response = 39189618 M4

M4 = Poor automated baseline construction.

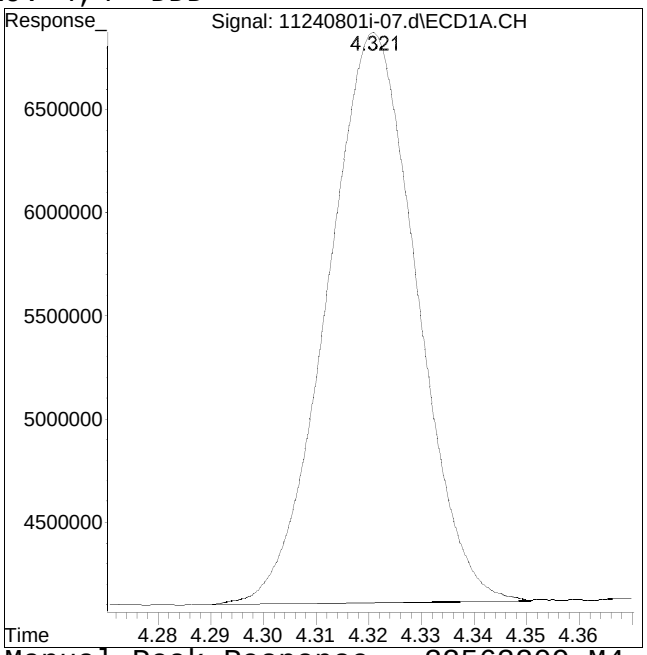
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #19: 4,4'-DDD



Original Peak Response = 32620856



Manual Peak Response = 32563209 M4

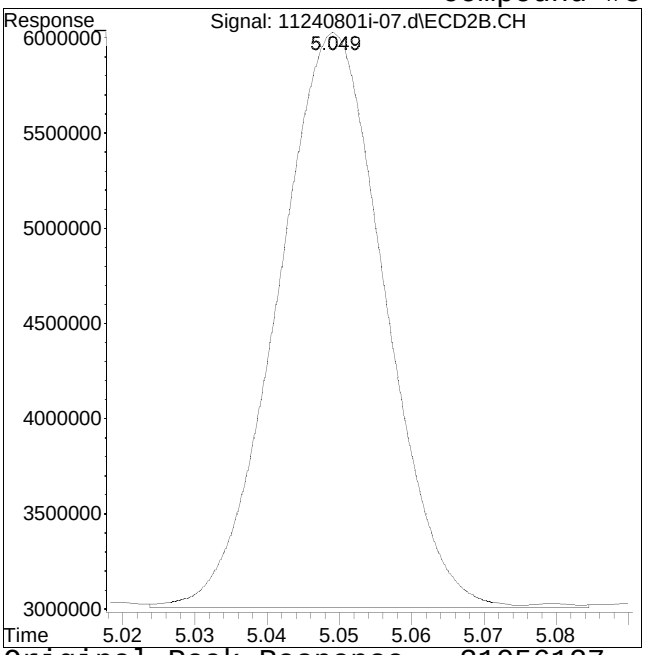
M4 = Poor automated baseline construction.

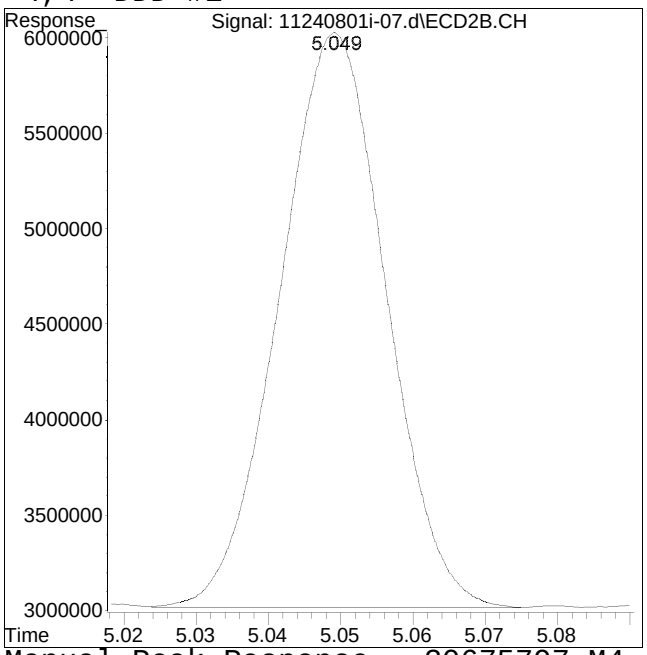
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #57: 4,4'-DDD #2



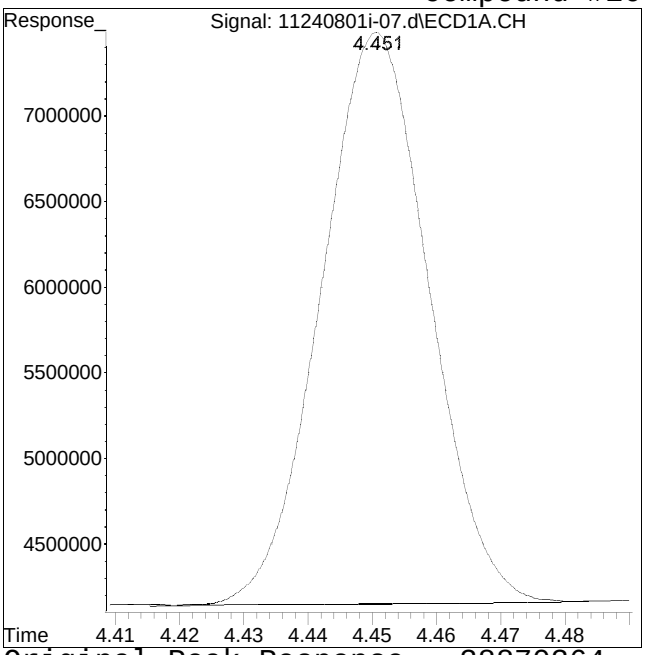


Original Peak Response = 31056127 Manual Peak Response = 30675797 M4
M4 = Poor automated baseline construction.

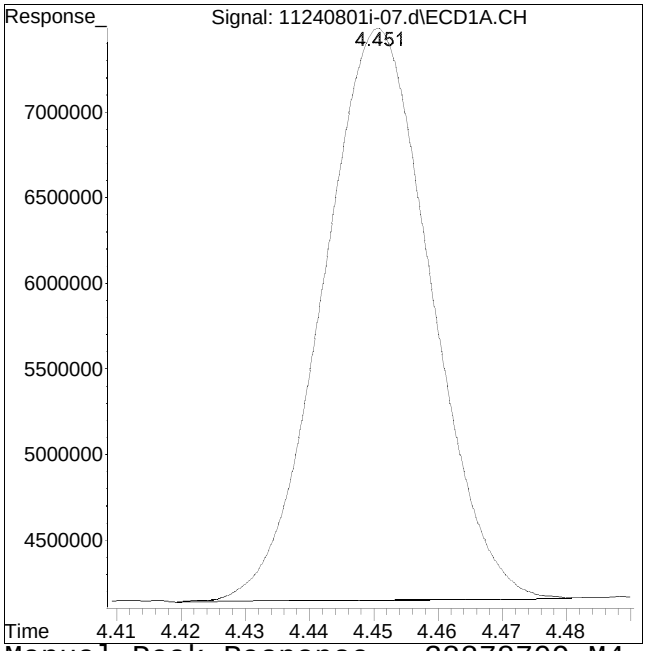
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #20: Endosulfan II



Original Peak Response = 38870364



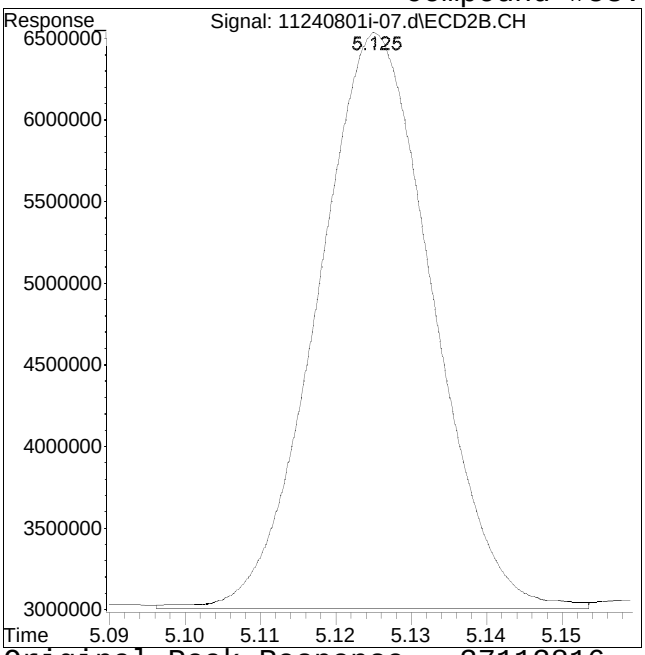
Manual Peak Response = 38878709 M4

M4 = Poor automated baseline construction.

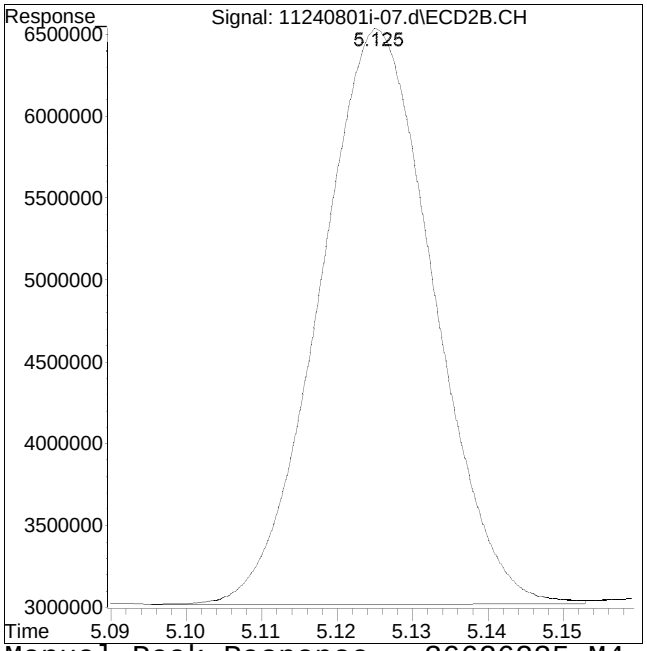
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #58: Endosulfan II #2



Original Peak Response = 37113816



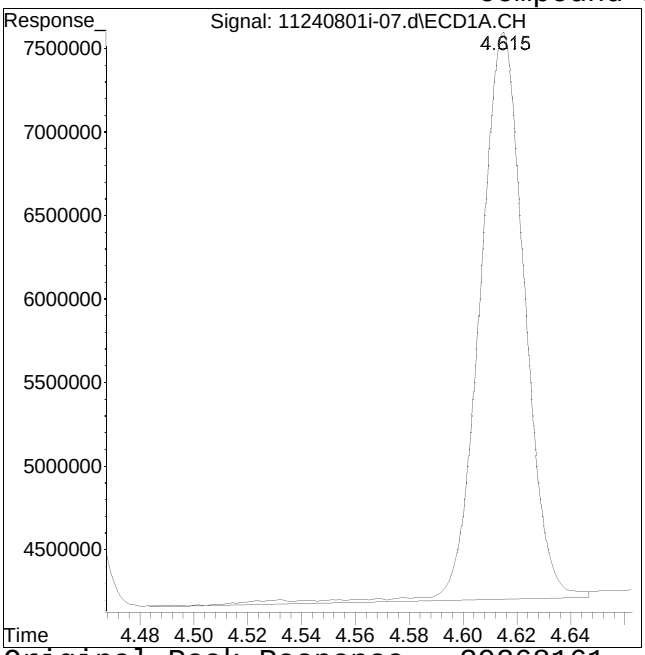
Manual Peak Response = 36626235 M4
M4 = Poor automated baseline construction.

Manual Integration Report

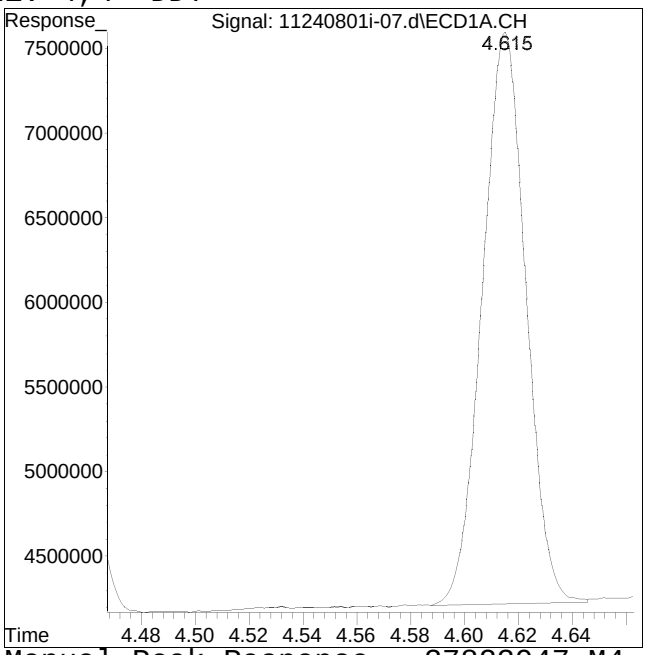
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #21: 4,4'-DDT



Original Peak Response = 39268161



Manual Peak Response = 37823947 M4

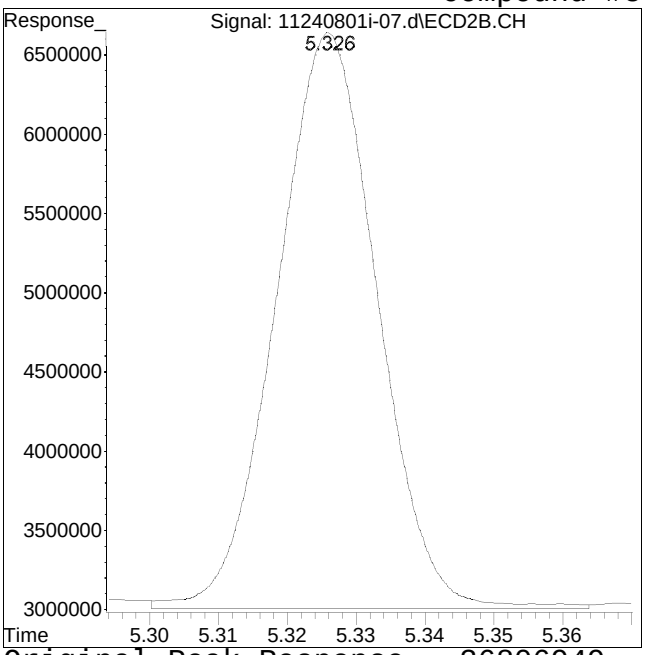
M4 = Poor automated baseline construction.

Manual Integration Report

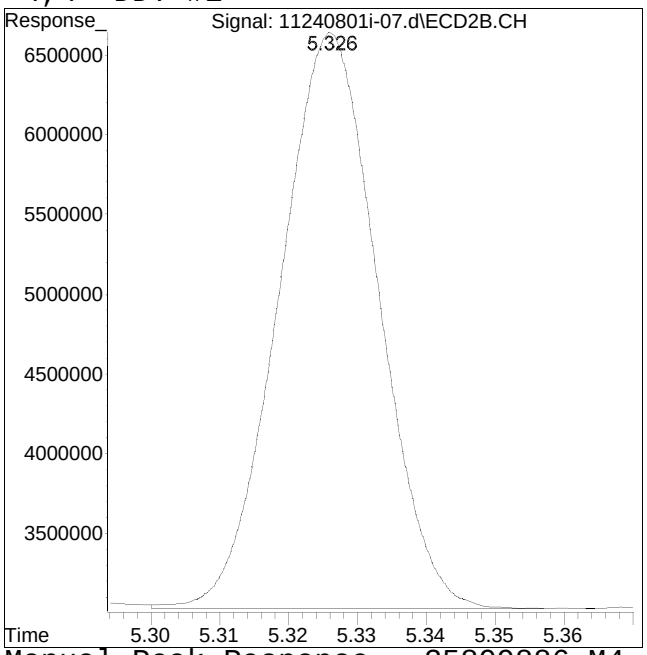
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 36806949



Manual Peak Response = 35899886 M4

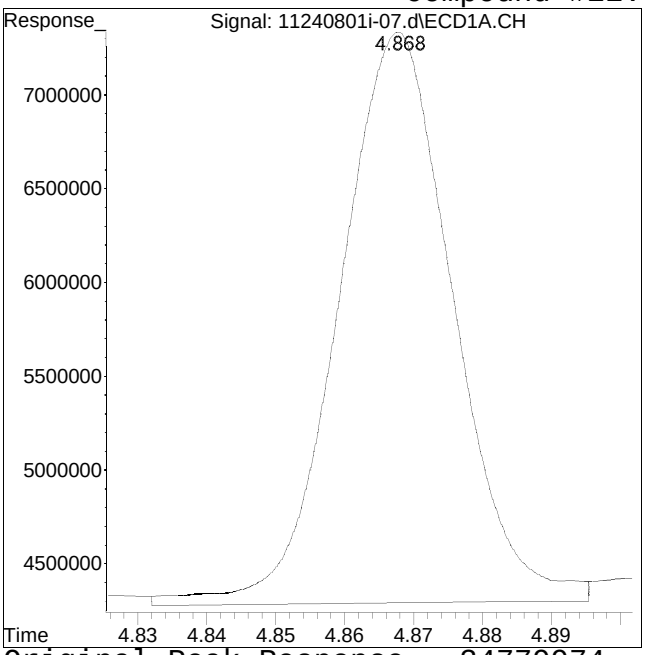
M4 = Poor automated baseline construction.

Manual Integration Report

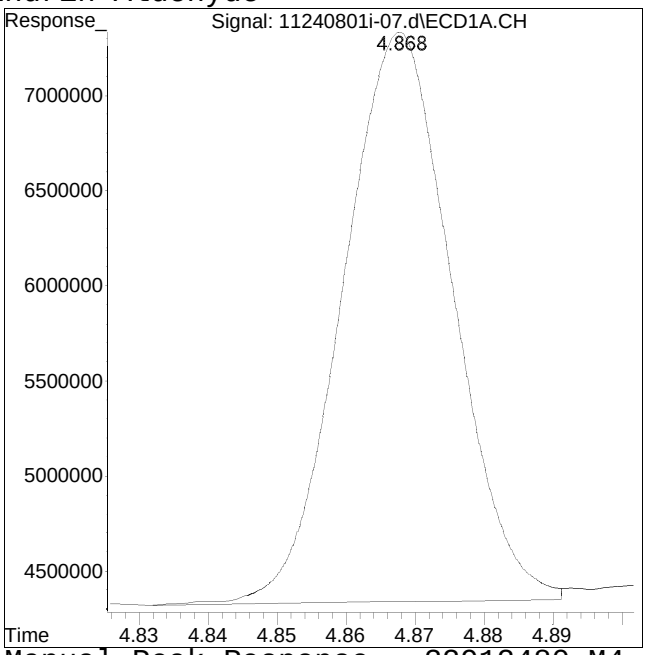
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #22: Endrin Aldehyde



Original Peak Response = 34779974



Manual Peak Response = 32912480 M4

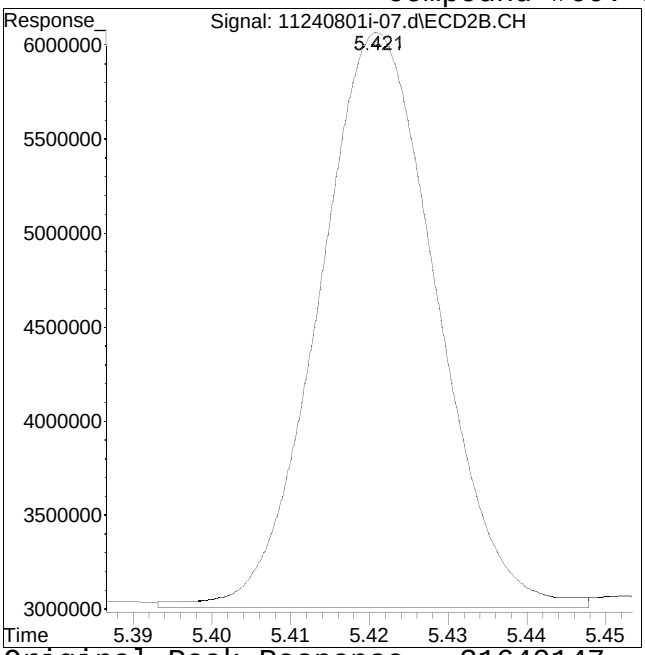
M4 = Poor automated baseline construction.

Manual Integration Report

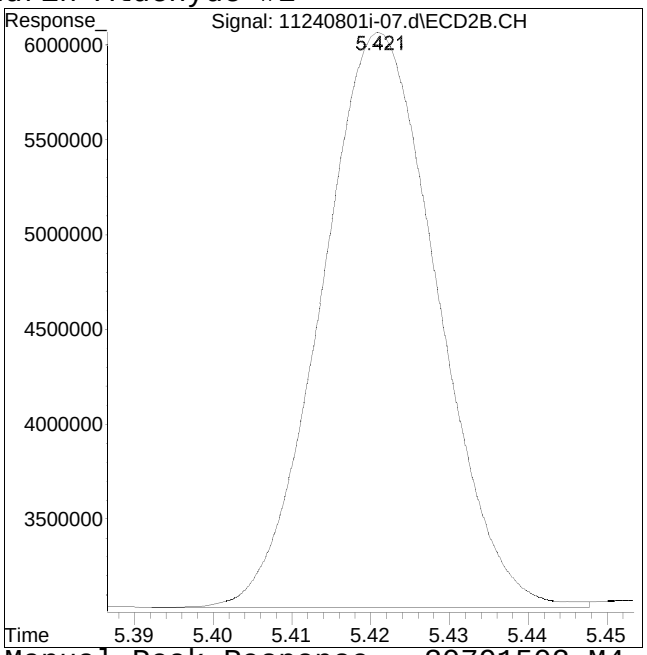
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 31640147



Manual Peak Response = 30791502 M4

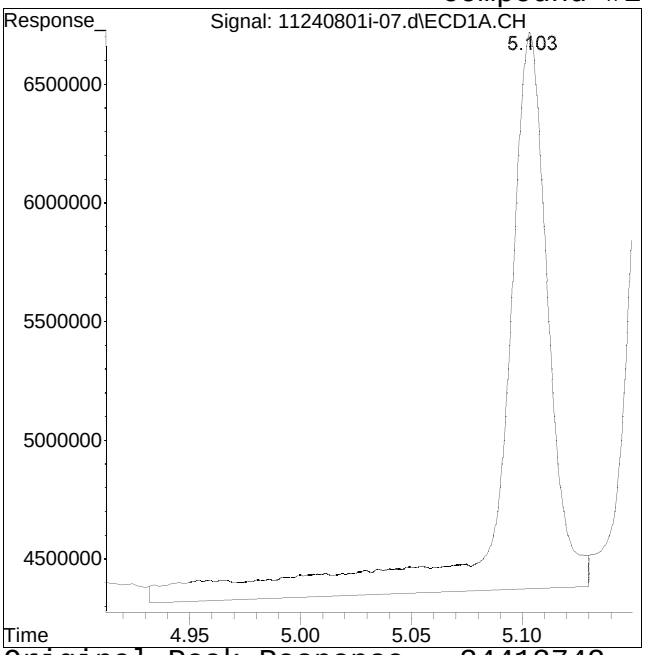
M4 = Poor automated baseline construction.

Manual Integration Report

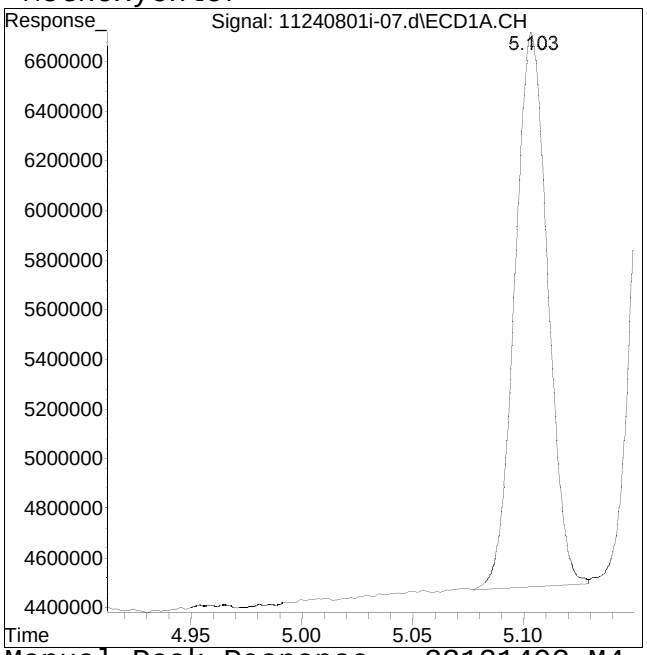
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #23: Methoxychlor



Original Peak Response = 34413742



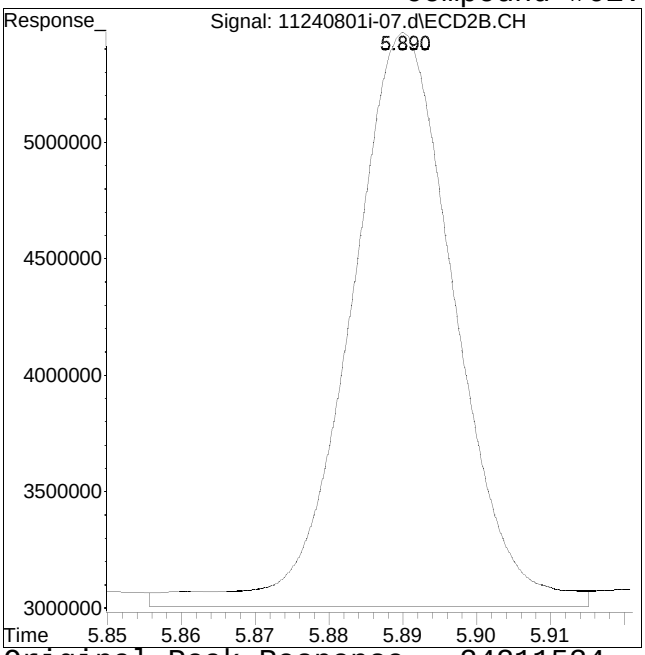
Manual Peak Response = 23121492 M4

M4 = Poor automated baseline construction.

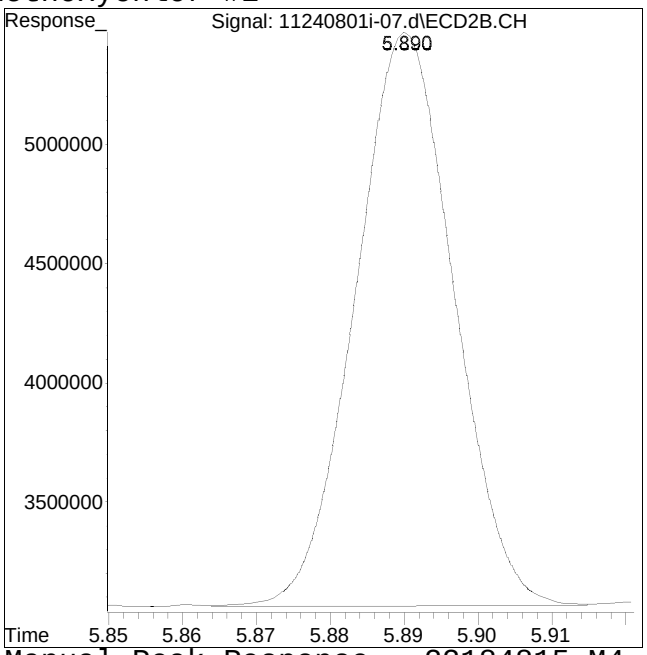
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #61: Methoxychlor #2



Original Peak Response = 24211534

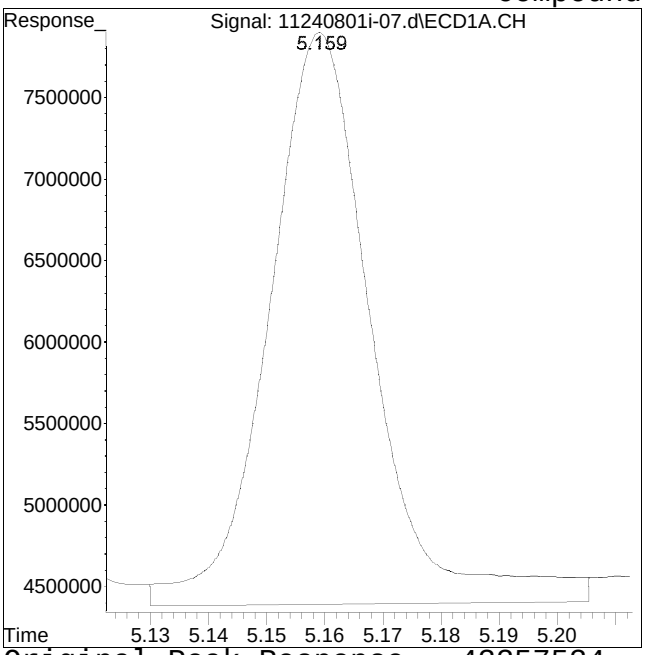


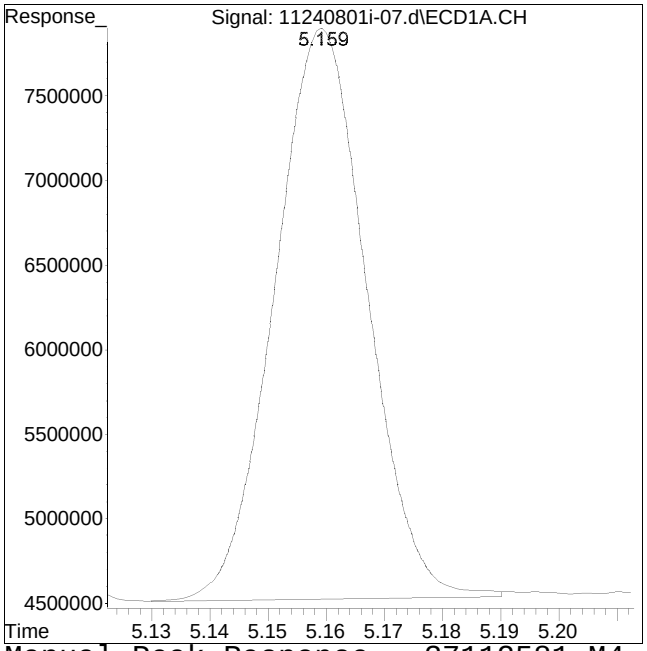
Manual Peak Response = 22184815 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #24: Mirex





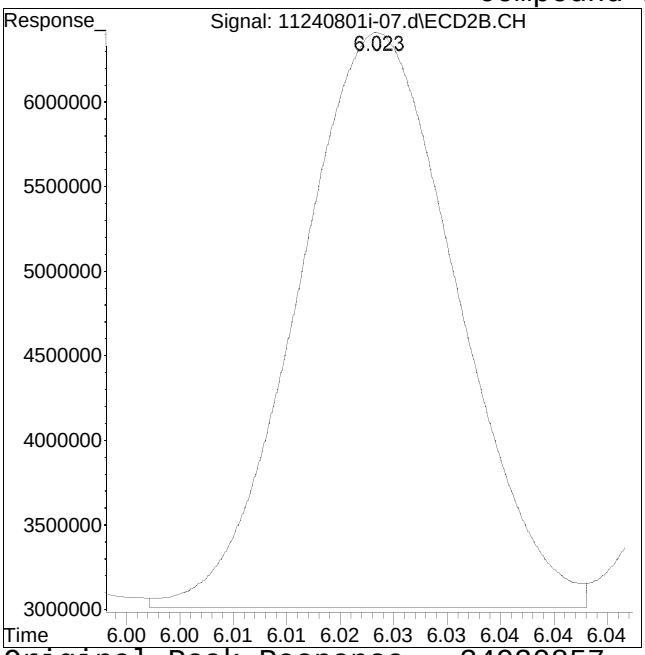
Original Peak Response = 43357534 Manual Peak Response = 37112581 M4
M4 = Poor automated baseline construction.

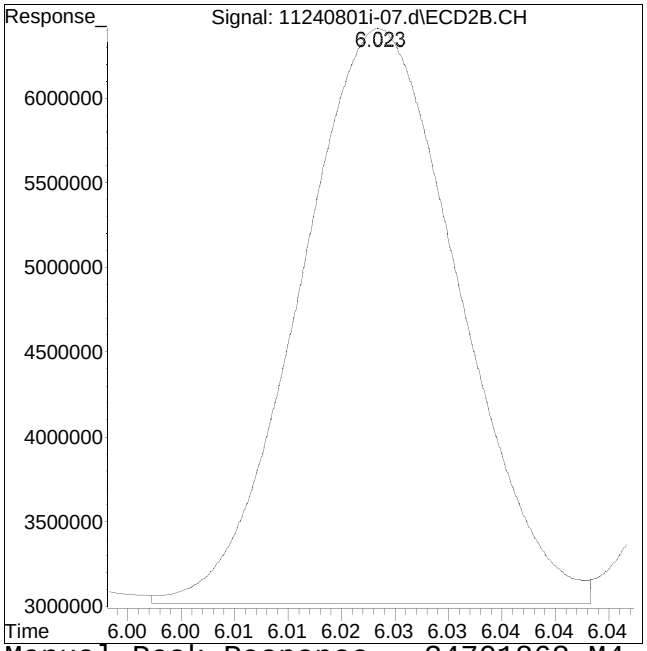
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #62: Mirex #2



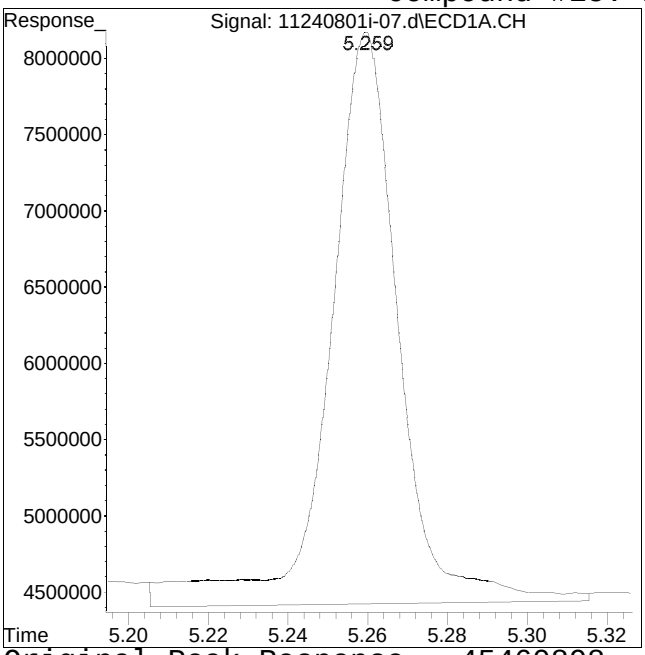


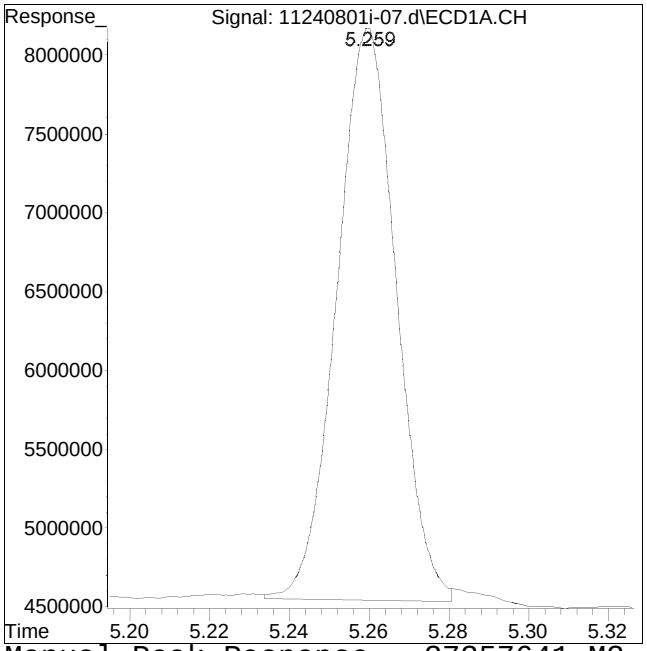
Original Peak Response = 34930857 Manual Peak Response = 34701868 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #25: Endosulfan Sulfate



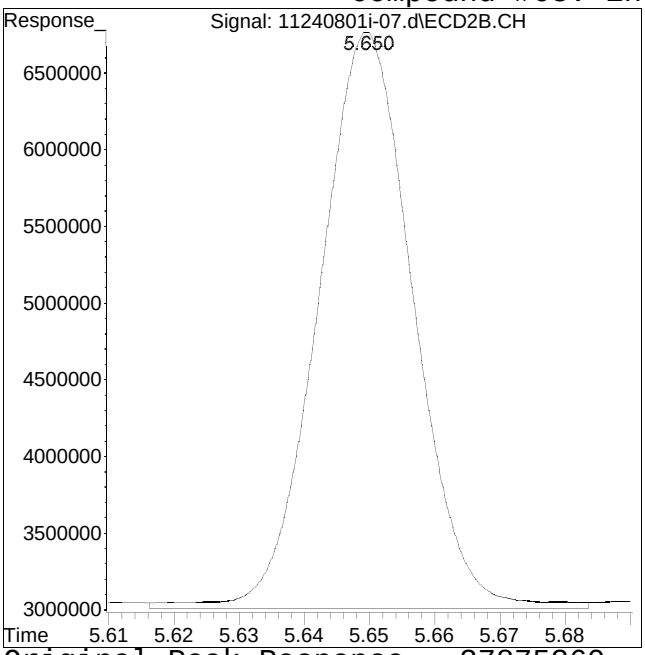


Original Peak Response = 45460898 Manual Peak Response = 37357641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

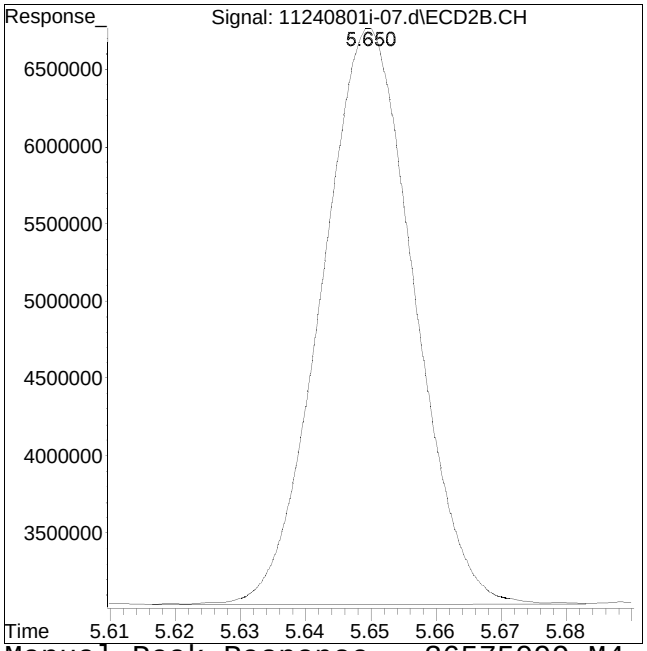
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 37875360



Manual Peak Response = 36575099 M4

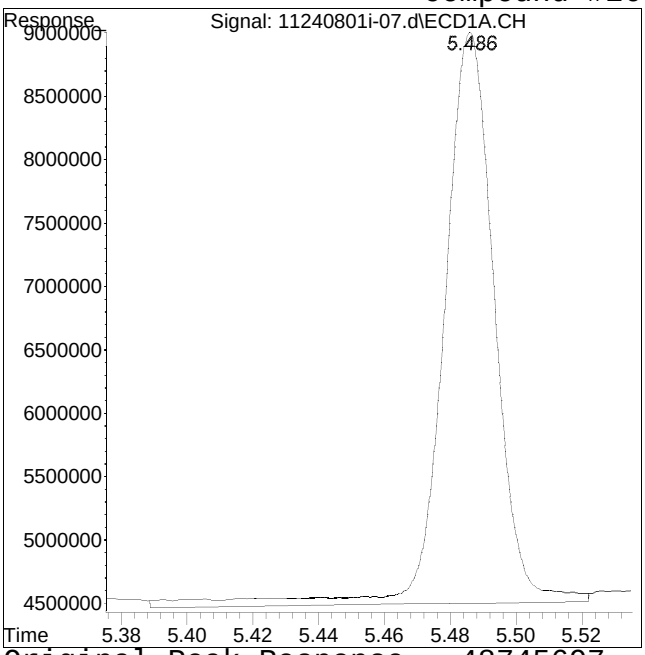
M4 = Poor automated baseline construction.

Manual Integration Report

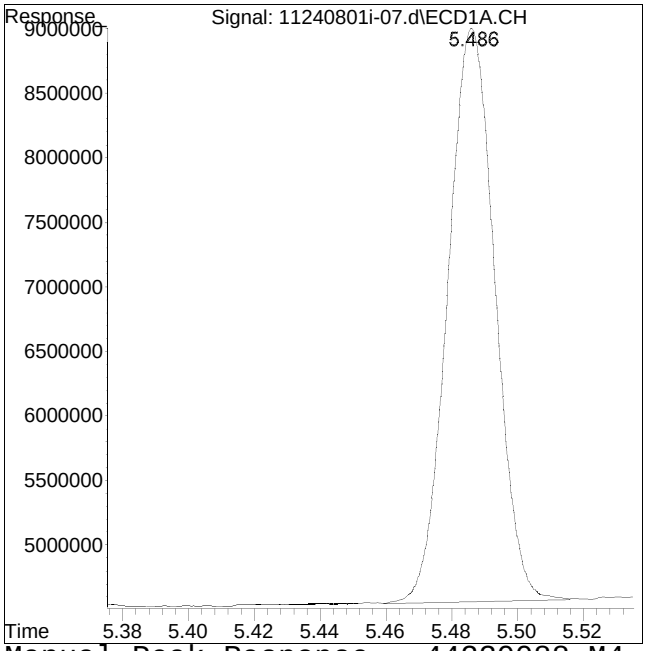
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #26: Endrin Ketone



Original Peak Response = 48745697



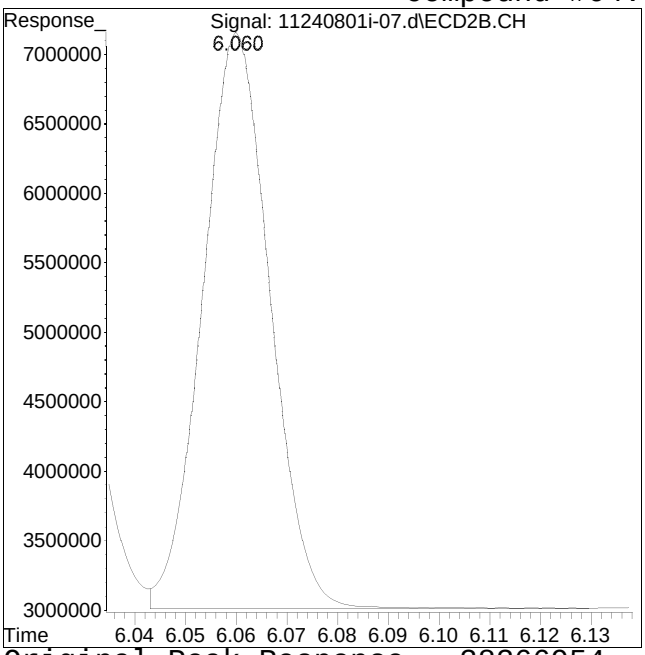
Manual Peak Response = 44230088 M4

M4 = Poor automated baseline construction.

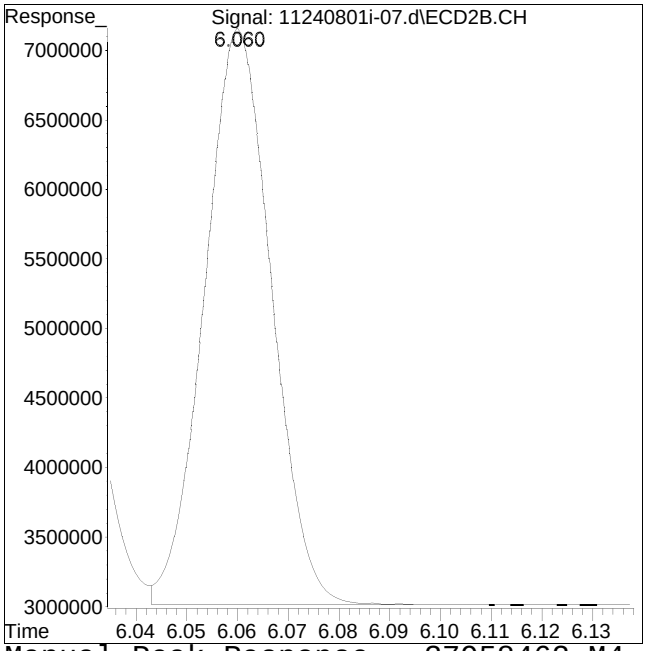
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #64: Endrin Ketone #2



Original Peak Response = 38366954



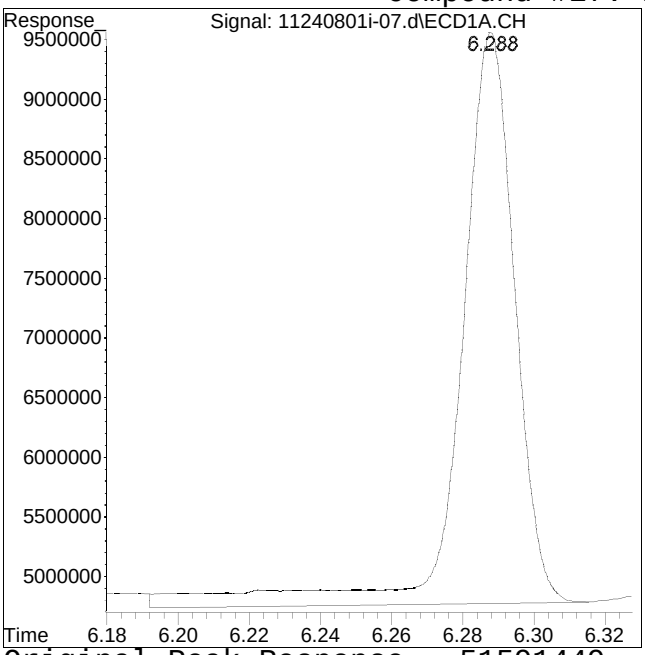
Manual Peak Response = 37958462 M4

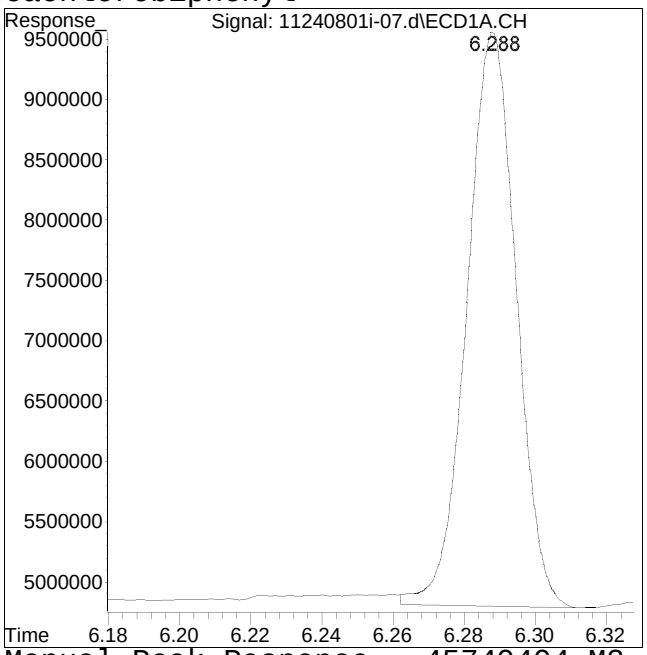
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #27: Decachlorobiphenyl





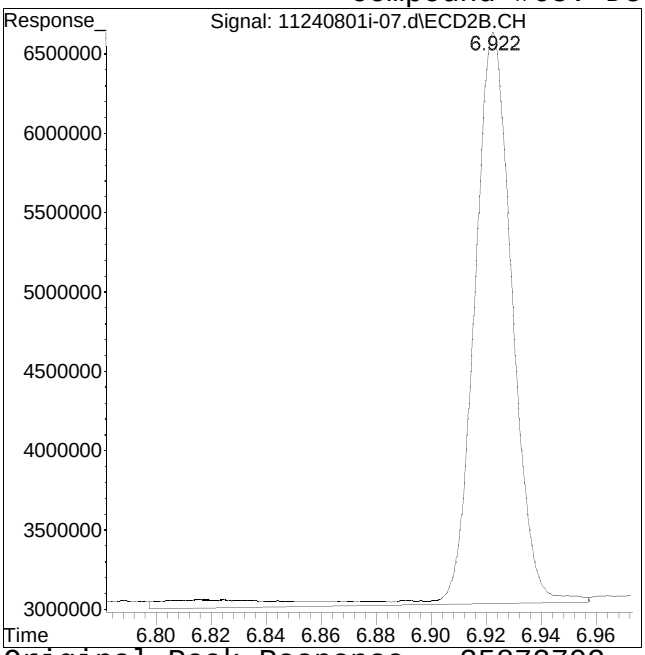
Original Peak Response = 51591449 Manual Peak Response = 45749494 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

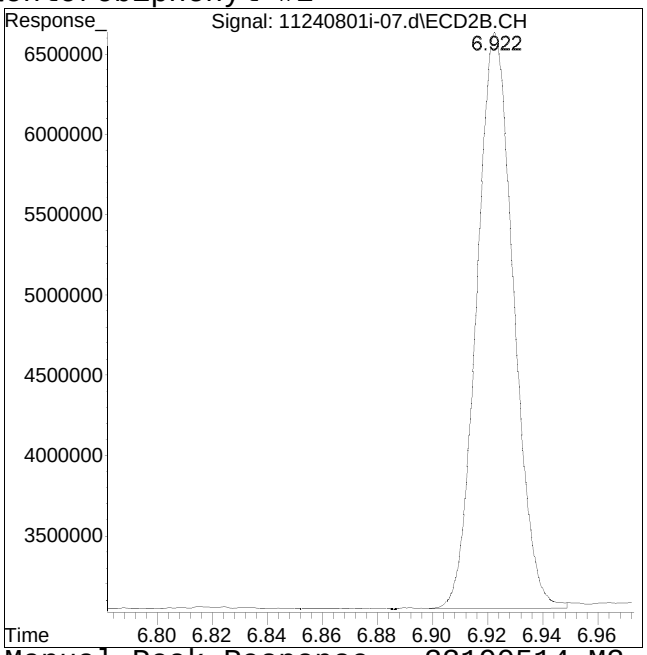
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 35872792 Manual Peak Response = 33190514 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	230.2E6	183.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	94692243	79326112	10.009M3	10.112M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.02%#	20.22%#
27) s	Decachlorobi	6.288	6.926	105.6E6	76218538	11.126M4	11.124M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.25%#	22.25%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	128.7E6	87741303	10.612M3	10.546M4
4) t	alpha-BHC	1.963	2.271	131.5E6	113.4E6	8.927M4	8.964M4
5) t	gamma-BHC (l	2.165	2.556	124.7E6	105.7E6	9.208M4	9.281M4
6) t	beta-BHC	2.221	2.622	57666588	50690449	10.408M4	10.925M4
7) t	delta-BHC	2.349	2.889	123.1E6	105.8E6	8.948M4	9.082M4
8) t	Heptachlor	2.513	2.952	121.4E6	113.2E6	9.955M3	10.142M4
9) t	Aldrin	2.756	3.271	111.0E6	100.2E6	9.353M3	9.490
10) t	Alachlor	2.876	3.153	21898451	17688763	11.052M3	13.104M4
11) t	Chlorpyrifos	2.968	3.506	56598911	64282619	12.097M4	12.517M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	109.2E6	100.6E6	10.102M3	10.320M4
13)	t	gamma-Chlord	3.424	4.104	96157290	90465298	9.543M4	9.961M4
14)	t	alpha-Chlord	3.558	4.274	110.5E6	101.3E6	9.760M3	10.124M4
15)	t	4,4'-DDE	3.656	4.473	107.5E6	93263696	9.325M4	9.283M4
16)	t	Endosulfan I	3.695	4.335	102.4E6	94144855	9.968	10.358M4
17)	t	Dieldrin	3.954	4.627	102.5E6	92864186	9.418M4	9.671M3
18)	t	Endrin	4.209	4.925	105.4E6	94579708	9.682M4	9.746M4
19)	t	4,4'-DDD	4.321	5.049	82871356	75210993	9.153M4	9.330M4
20)	t	Endosulfan I	4.451	5.125	97072990	86490847	10.043	10.443M4
21)	t	4,4'-DDT	4.615	5.326	95391216	87653270	9.380M4	9.565M4
22)	t	Endrin Aldeh	4.868	5.421	80826935	71991100	9.975M3	10.462M3
23)	t	Methoxychlor	5.104	5.890	55896006	50960693	11.325M4	11.378M3
24)	t	Mirex	5.159	6.024	88807138	77737040	11.134M3	11.745
25)	t	Endosulfan S	5.259	5.650	92158727	84950349	10.221M3	10.550M4
26)	t	Endrin Keton	5.486	6.060	110.5E6	91234131	10.280M4	10.487M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

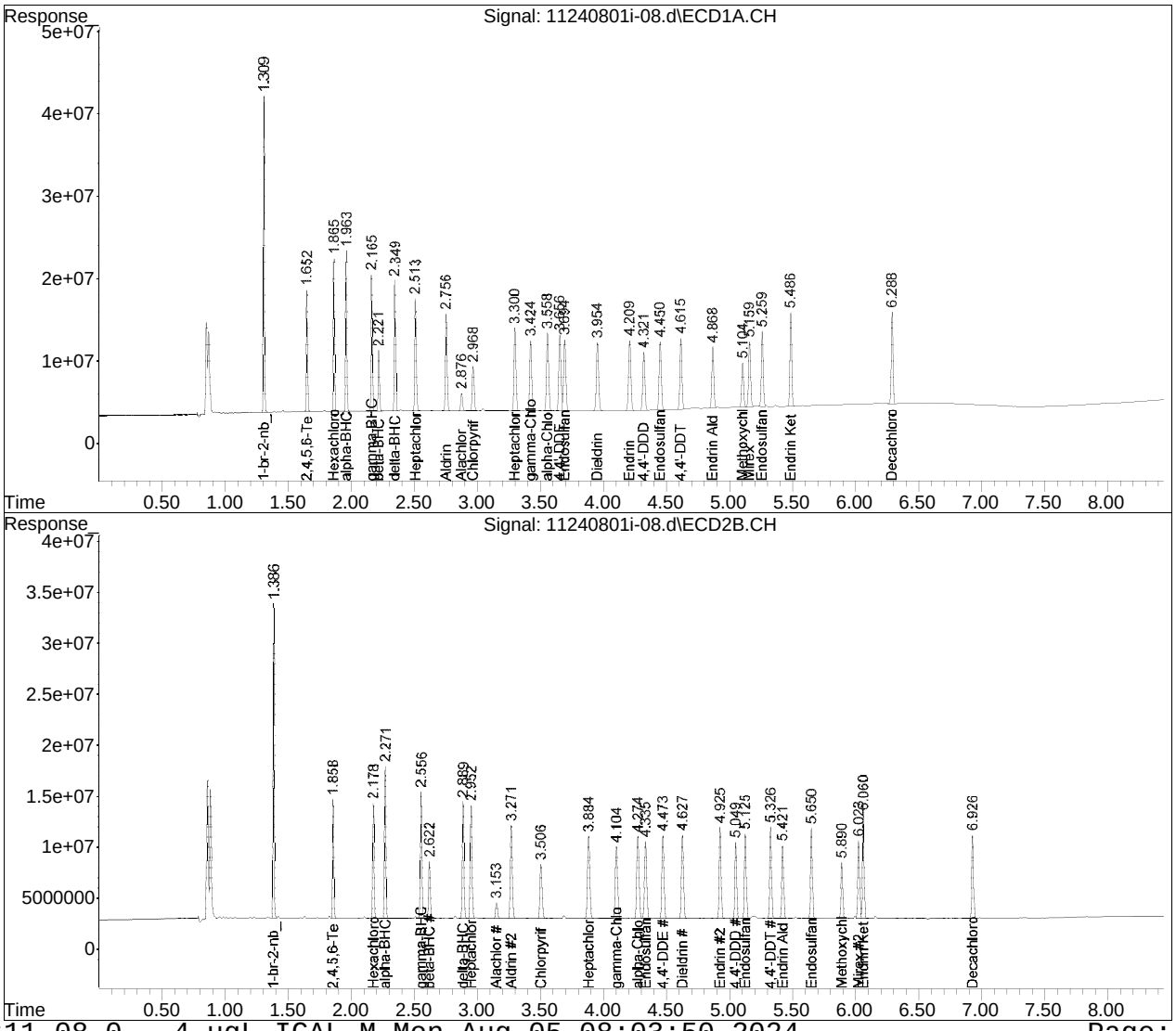
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

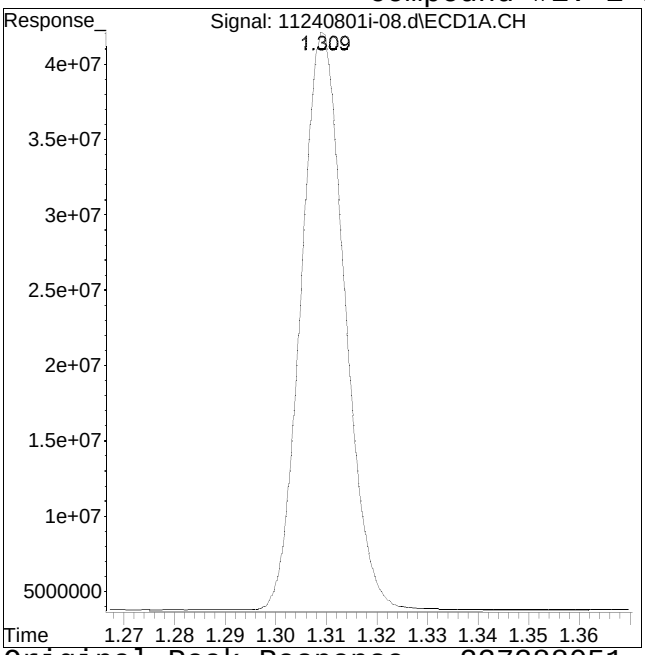
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

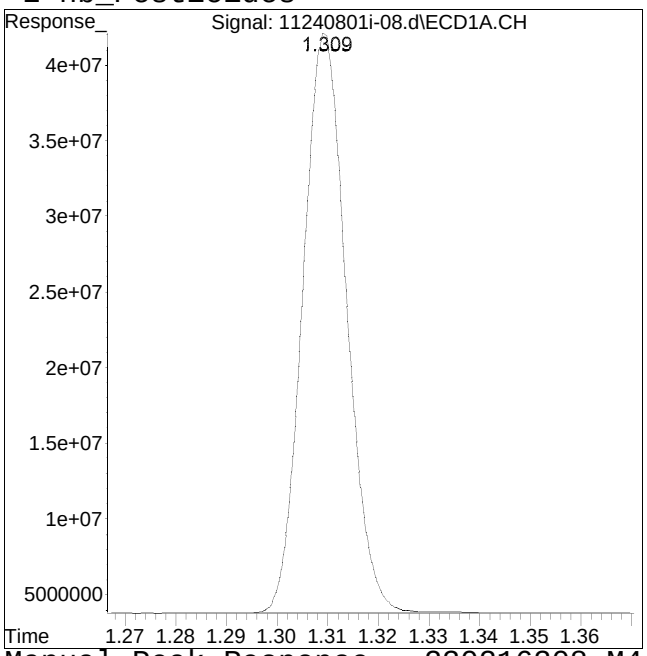


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #1: 1-br-2-nb_Pesticides



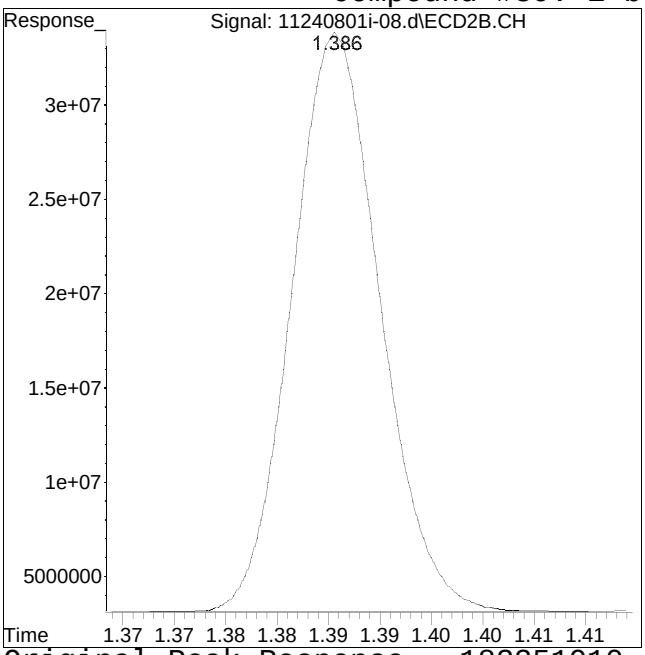


Original Peak Response = 237388051 Manual Peak Response = 230216308 M4
M4 = Poor automated baseline construction.

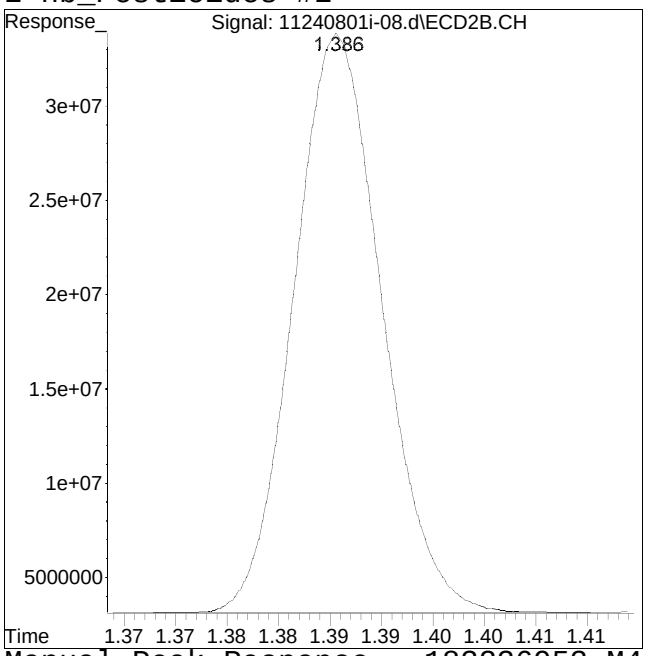
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183351910



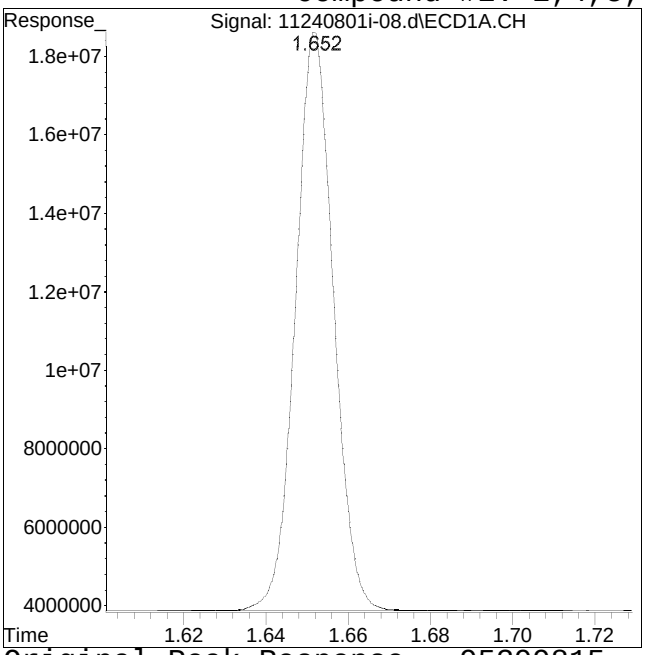
Manual Peak Response = 183236953 M4

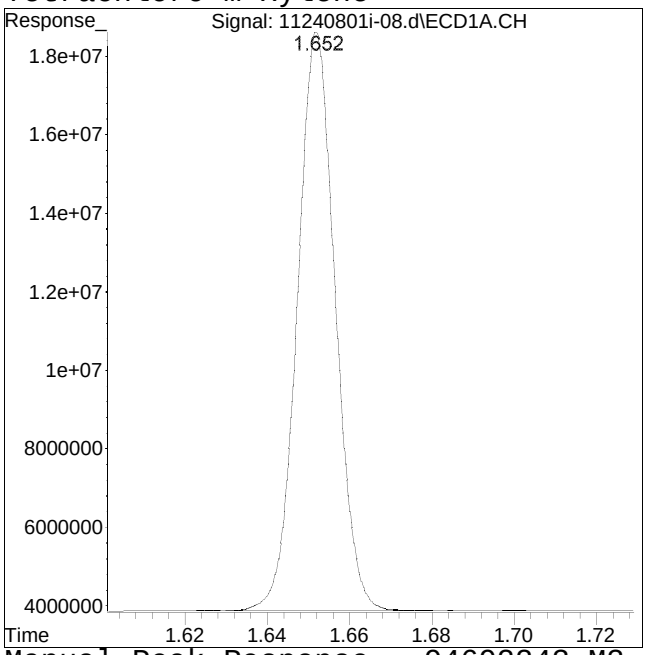
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



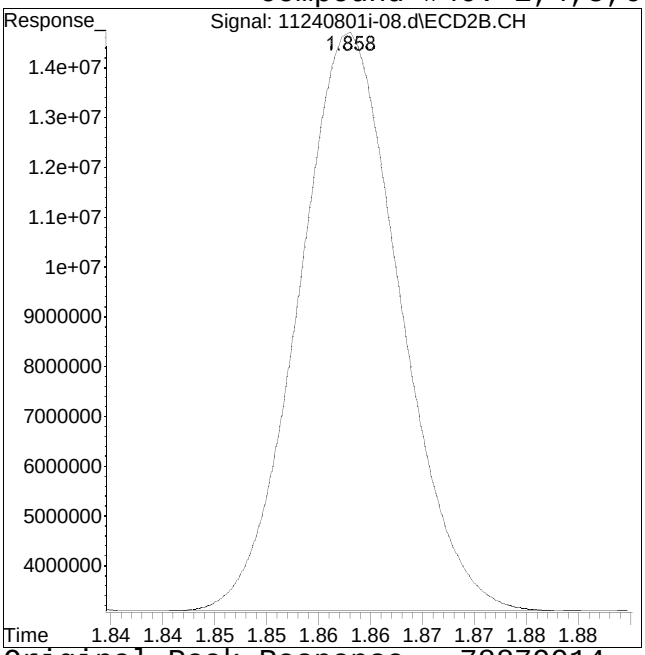


Original Peak Response = 95399815 Manual Peak Response = 94692243 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

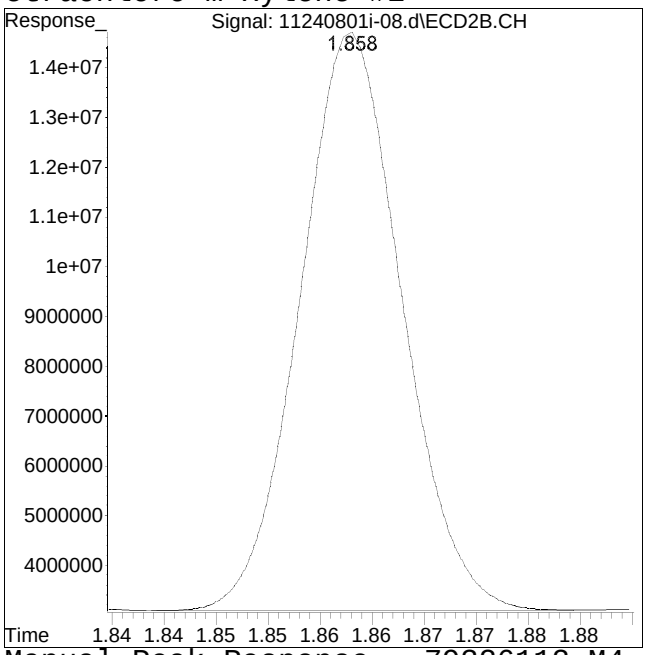
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 78879914



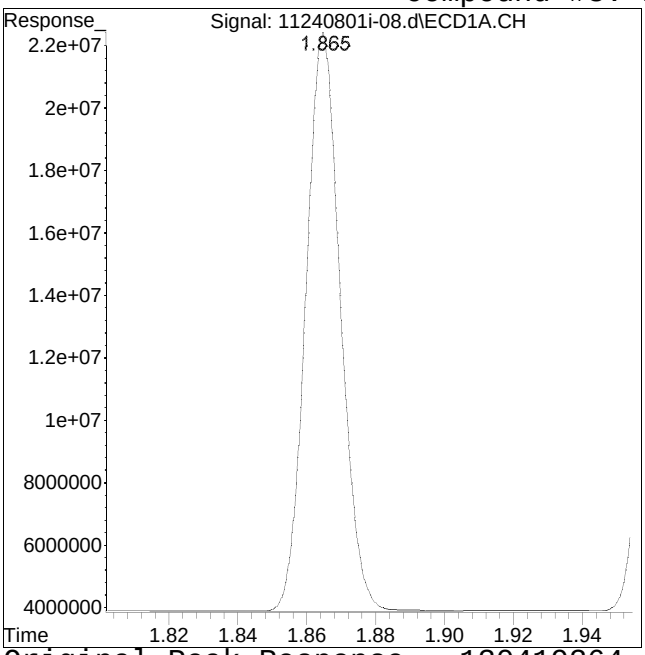
Manual Peak Response = 79326112 M4

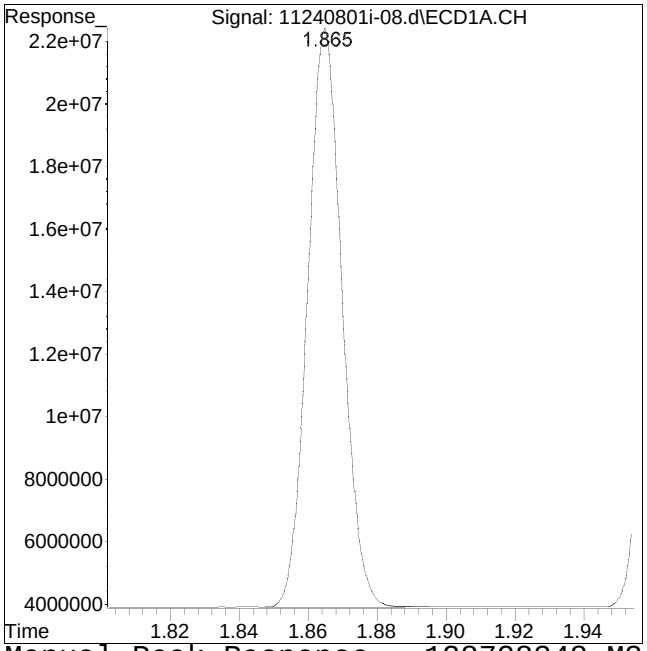
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #3: Hexachlorobenzene





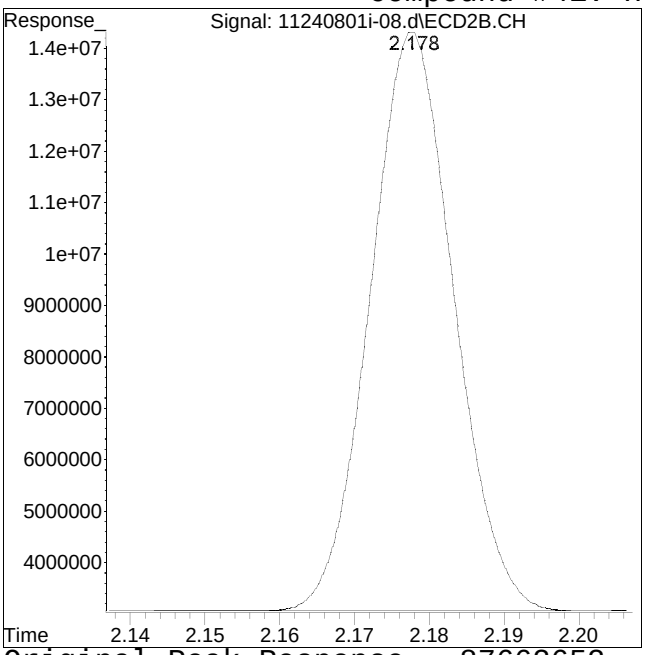
Original Peak Response = 130419364 Manual Peak Response = 128728348 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

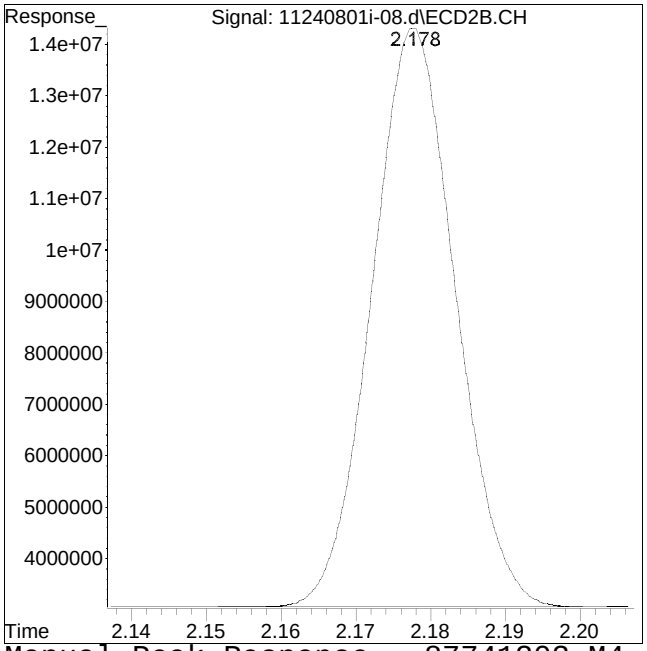
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 87662652



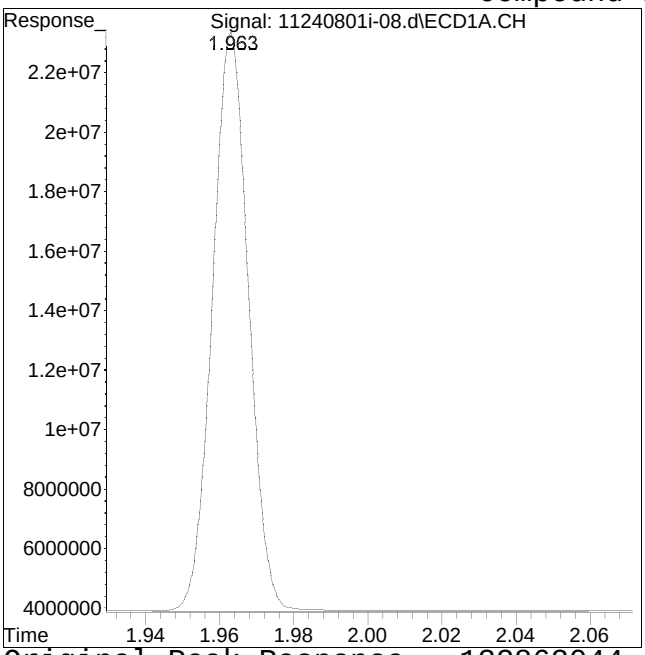
Manual Peak Response = 87741303 M4

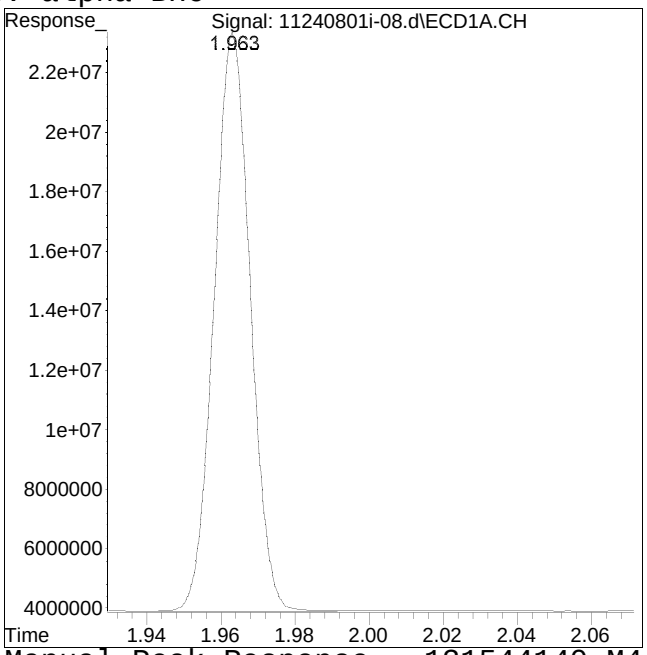
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #4: alpha-BHC





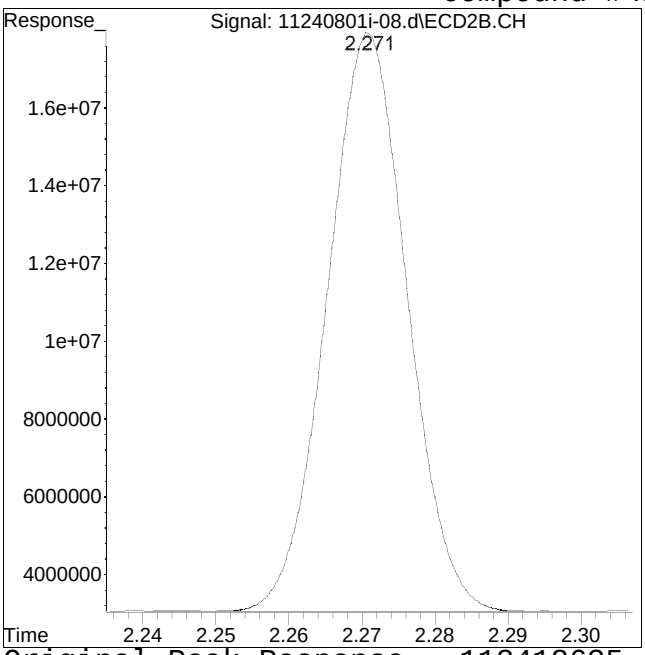
Original Peak Response = 132862044 Manual Peak Response = 131544140 M4
M4 = Poor automated baseline construction.

Manual Integration Report

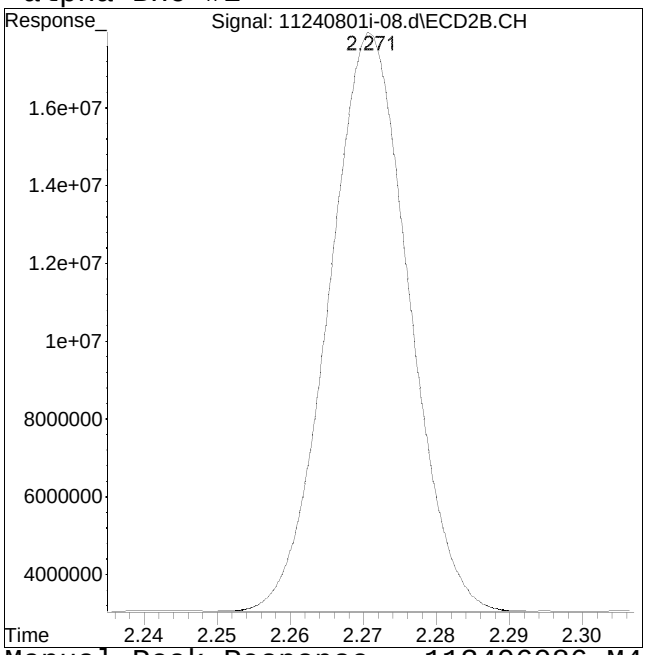
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #42: alpha-BHC #2



Original Peak Response = 113412635



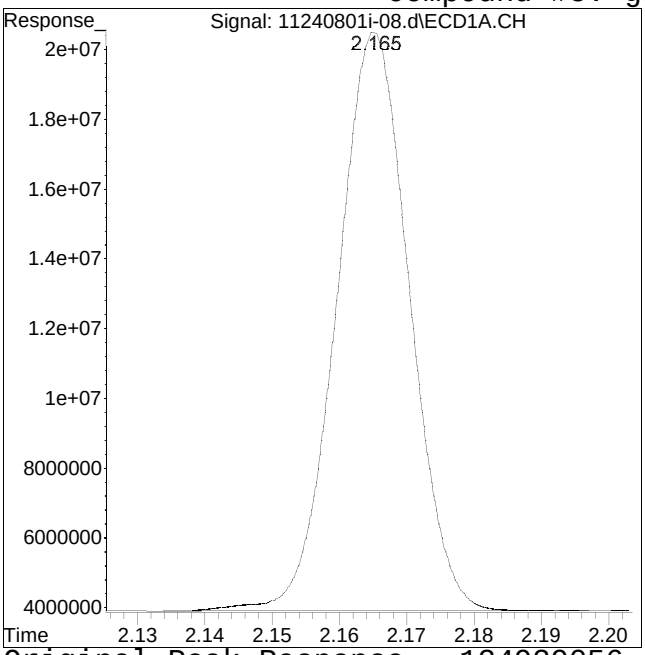
Manual Peak Response = 113406086 M4

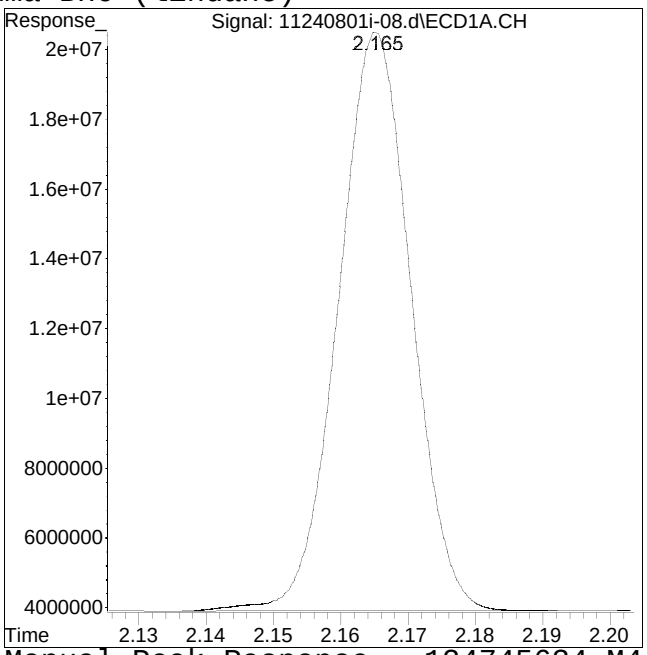
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #5: gamma-BHC (lindane)



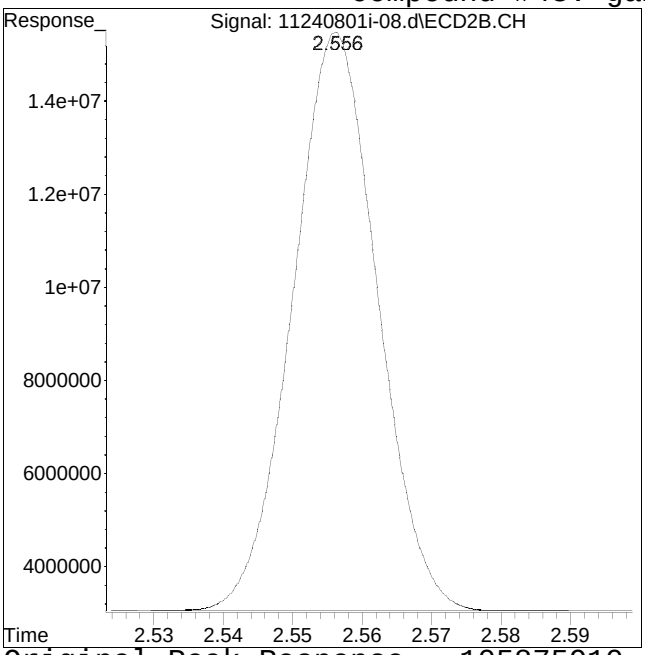


Original Peak Response = 124929056 Manual Peak Response = 124745634 M4
M4 = Poor automated baseline construction.

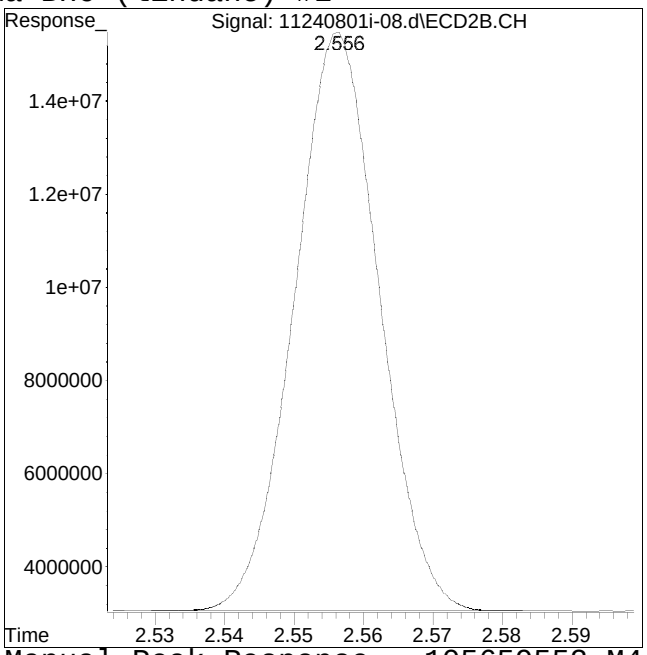
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 105875910



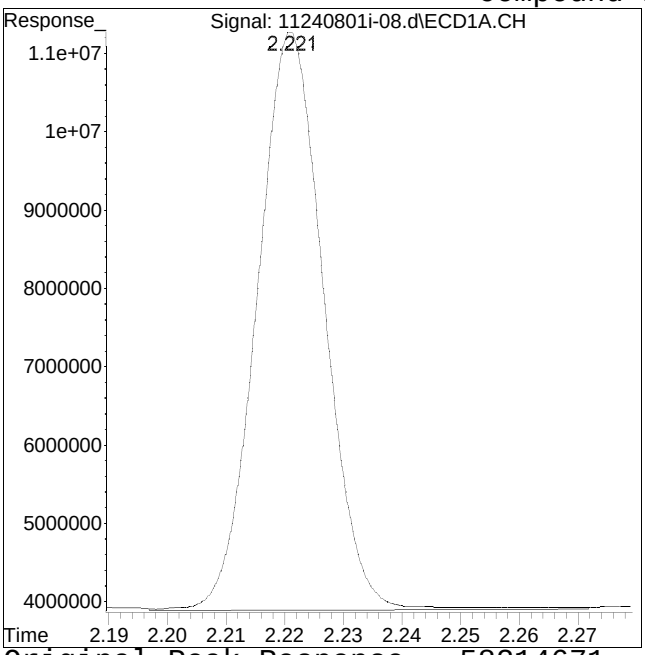
Manual Peak Response = 105659552 M4

M4 = Poor automated baseline construction.

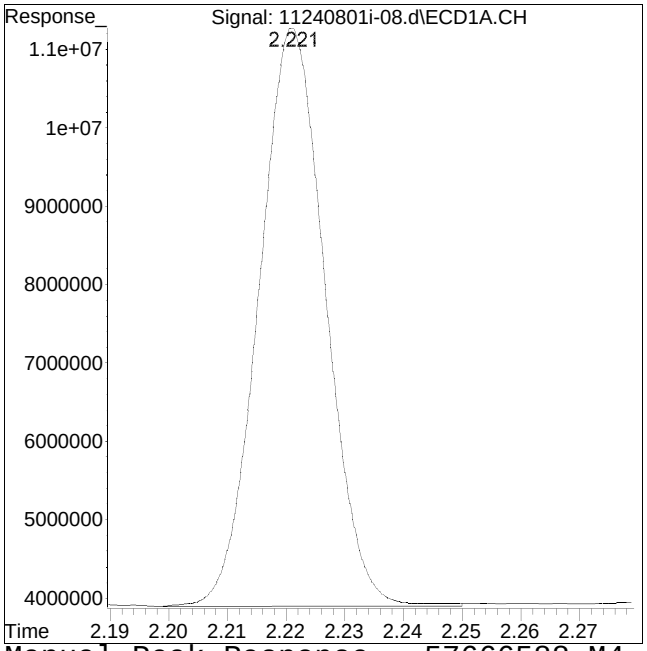
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #6: beta-BHC



Original Peak Response = 58214671



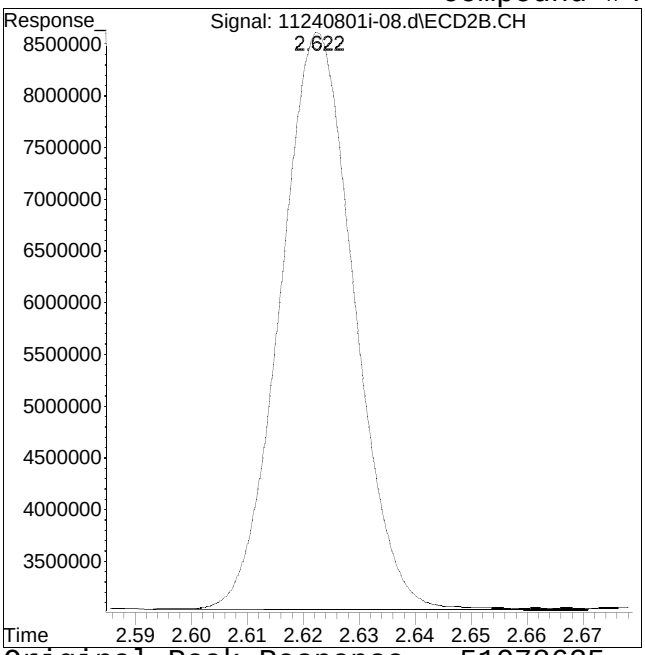
Manual Peak Response = 57666588 M4

M4 = Poor automated baseline construction.

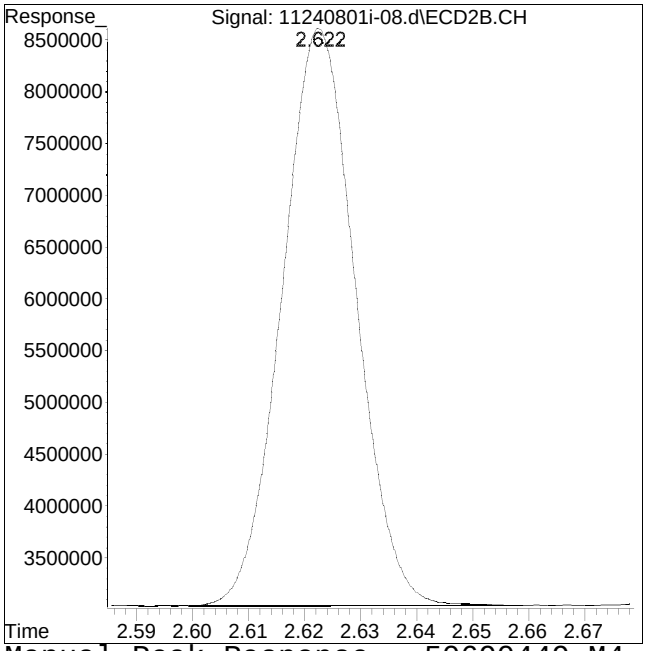
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #44: beta-BHC #2



Original Peak Response = 51078635



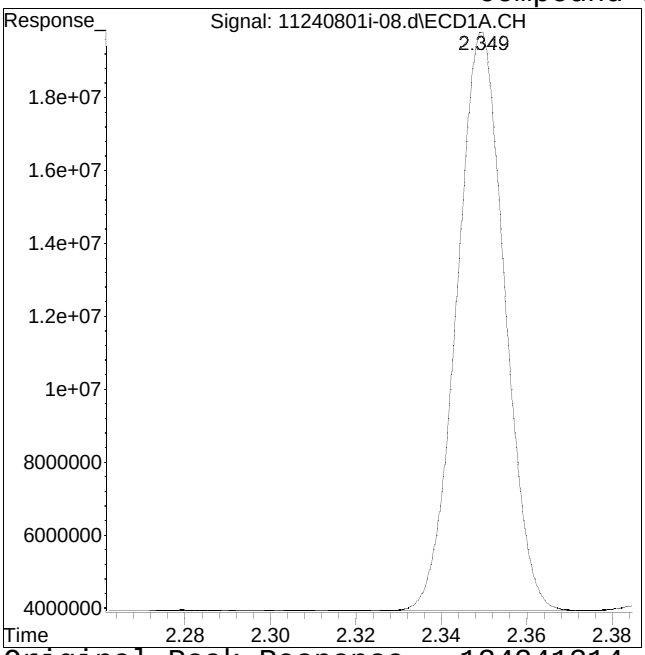
Manual Peak Response = 50690449 M4

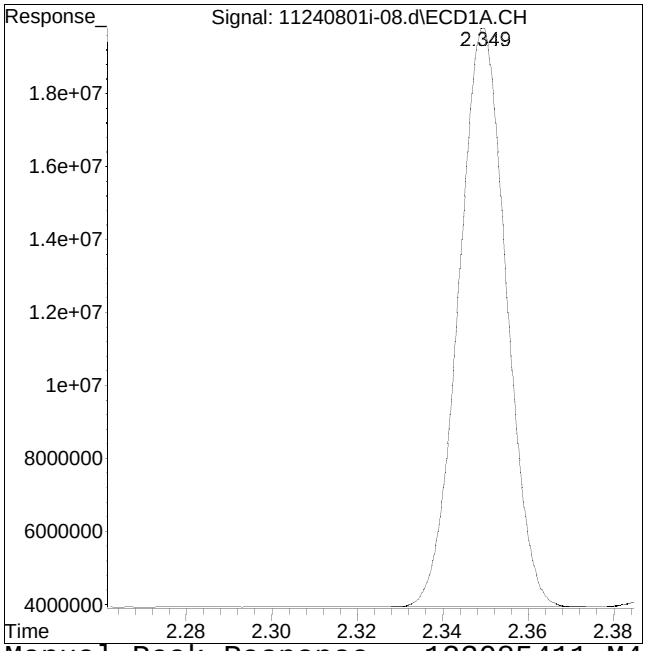
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #7: delta-BHC



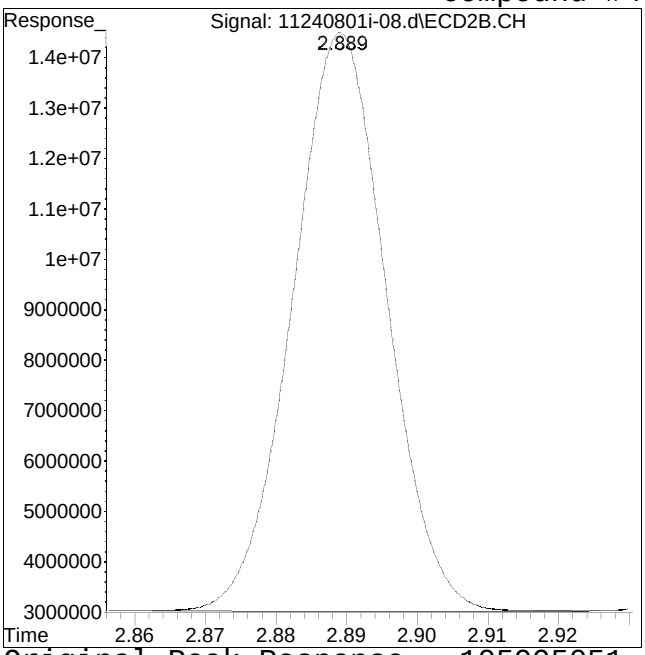


Original Peak Response = 124241314 Manual Peak Response = 123085411 M4
M4 = Poor automated baseline construction.

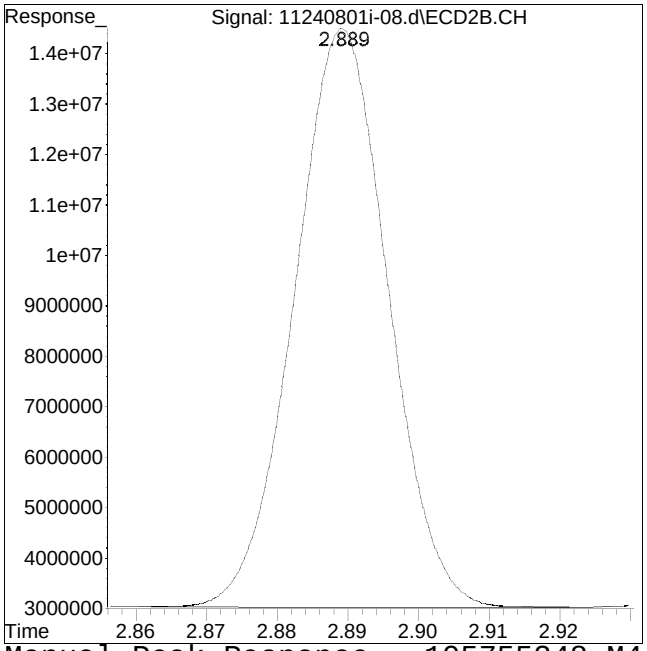
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #45: delta-BHC #2



Original Peak Response = 105995051



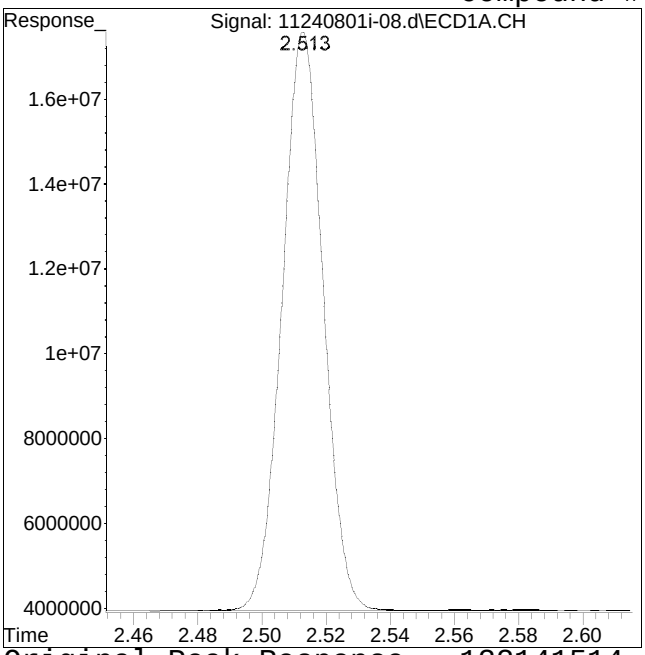
Manual Peak Response = 105755248 M4

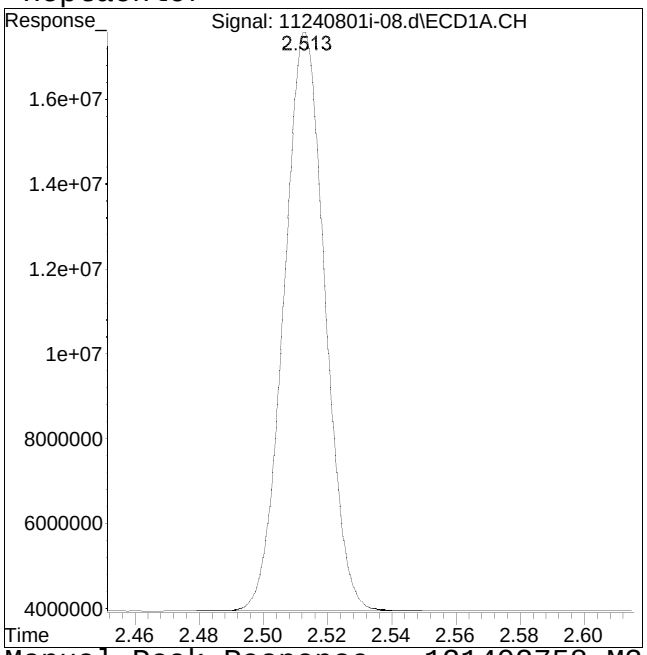
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #8: Heptachlor



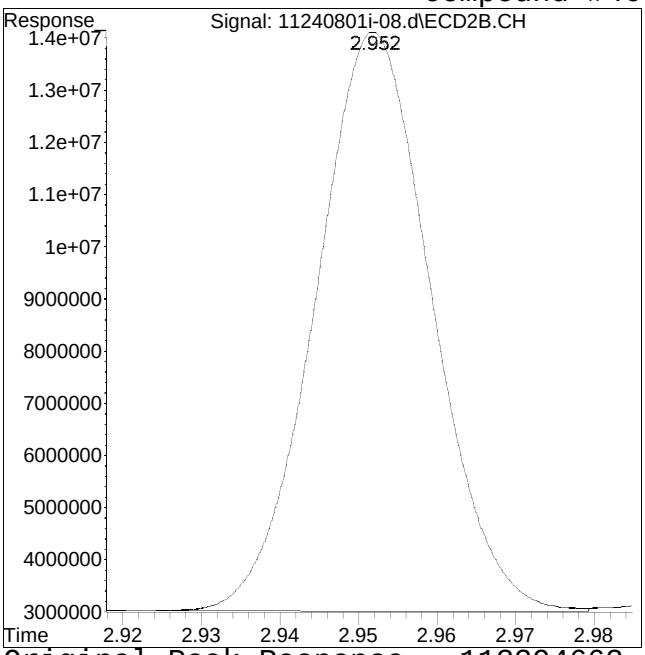


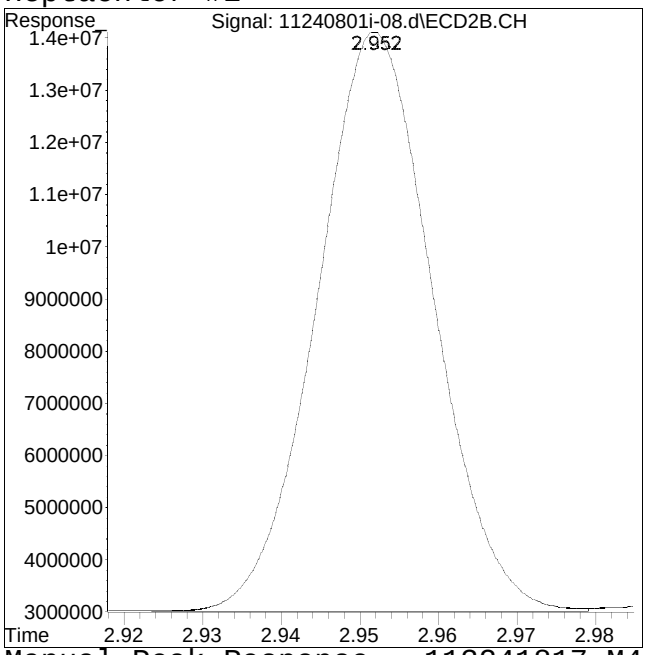
Original Peak Response = 122141514 Manual Peak Response = 121402758 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #46: Heptachlor #2





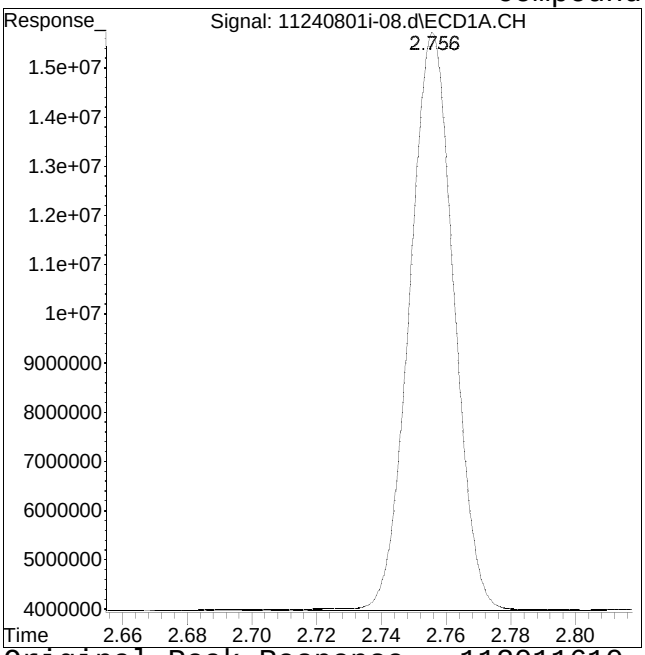
Original Peak Response = 113394662 Manual Peak Response = 113241817 M4
M4 = Poor automated baseline construction.

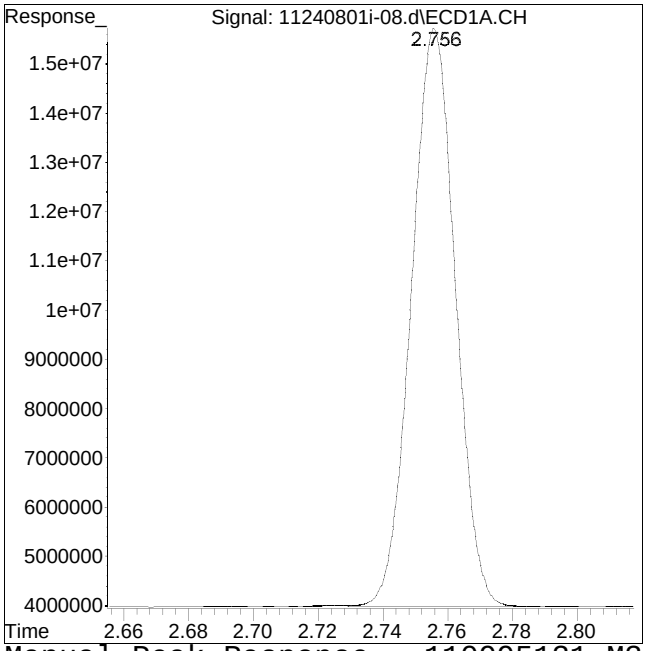
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #9: Aldrin





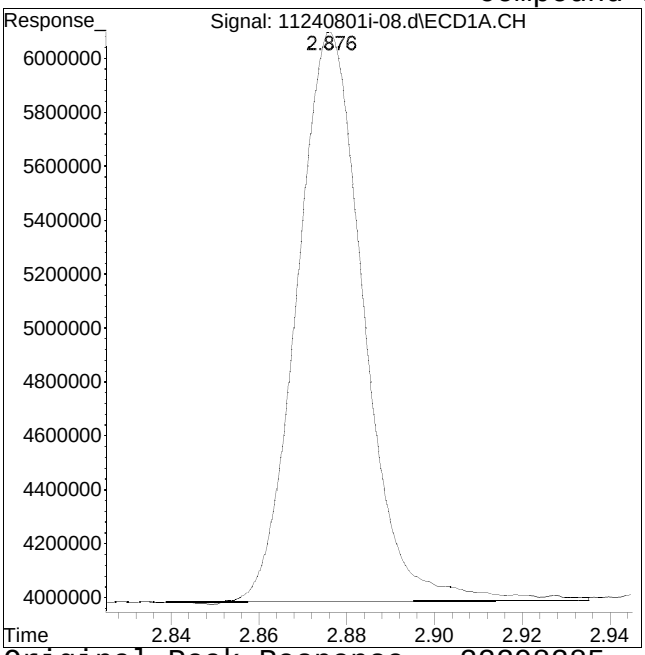
Original Peak Response = 112011610 Manual Peak Response = 110995131 M3

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

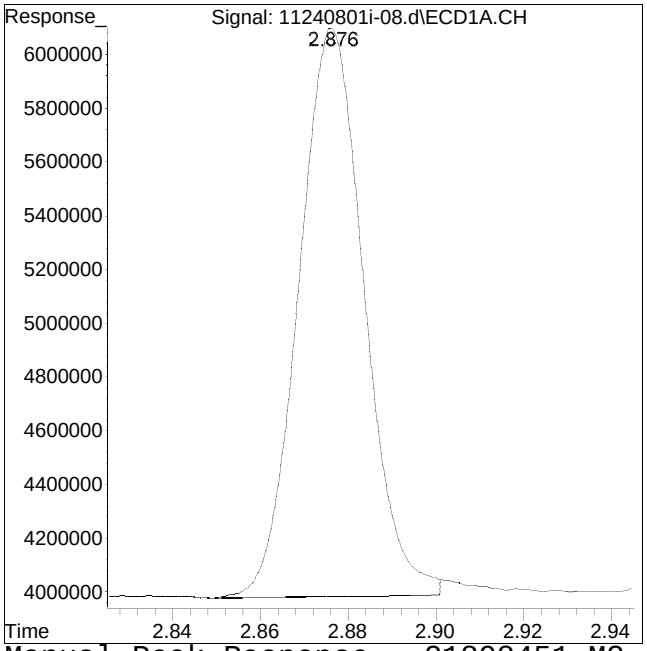
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #10: Alachlor



Original Peak Response = 22298285



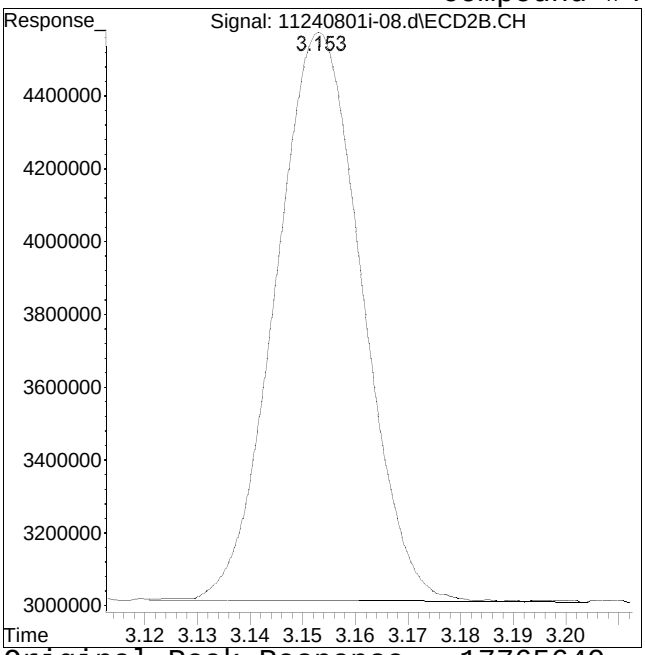
Manual Peak Response = 21898451 M3

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

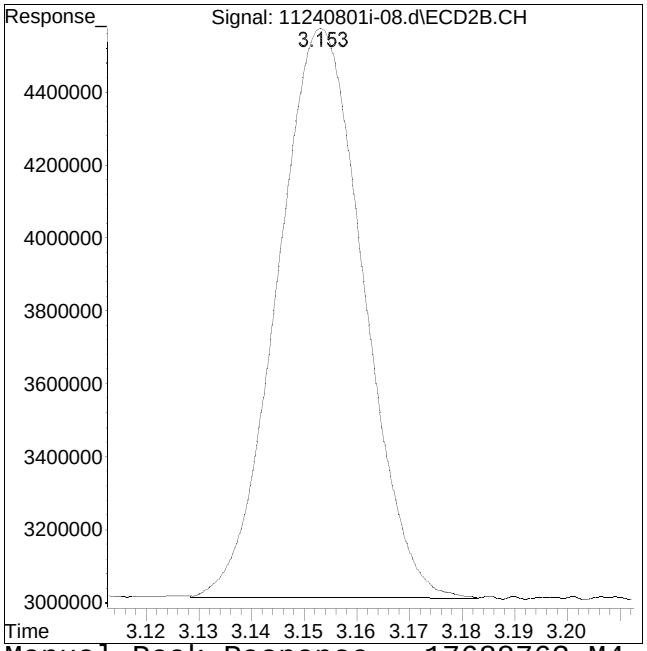
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #48: Alachlor #2



Original Peak Response = 17765640

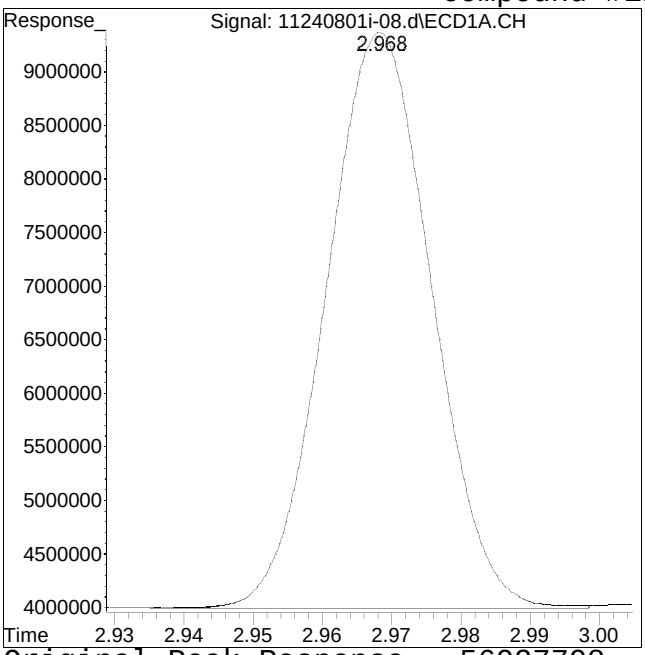


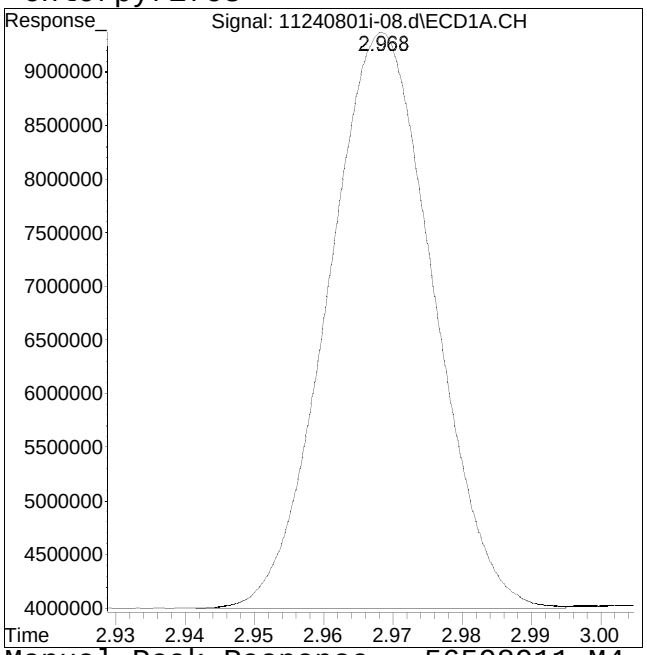
Manual Peak Response = 17688763 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #11: Chlorpyrifos



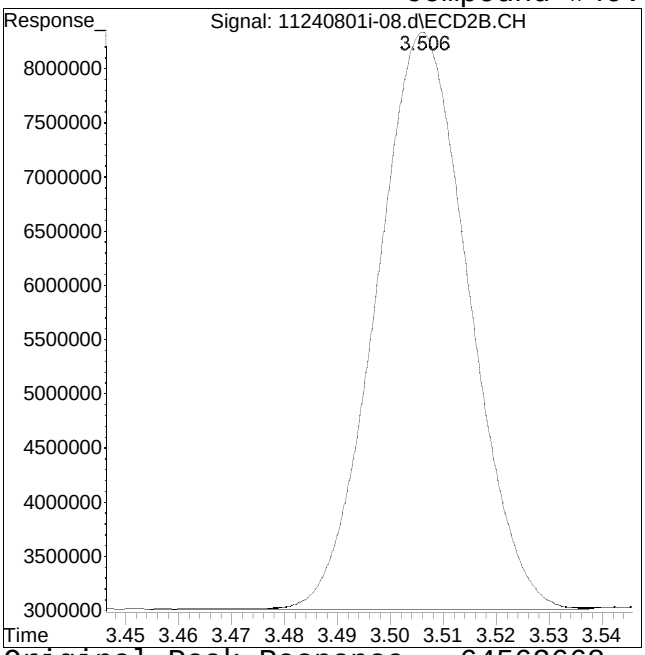


Original Peak Response = 56927798 Manual Peak Response = 56598911 M4
M4 = Poor automated baseline construction.

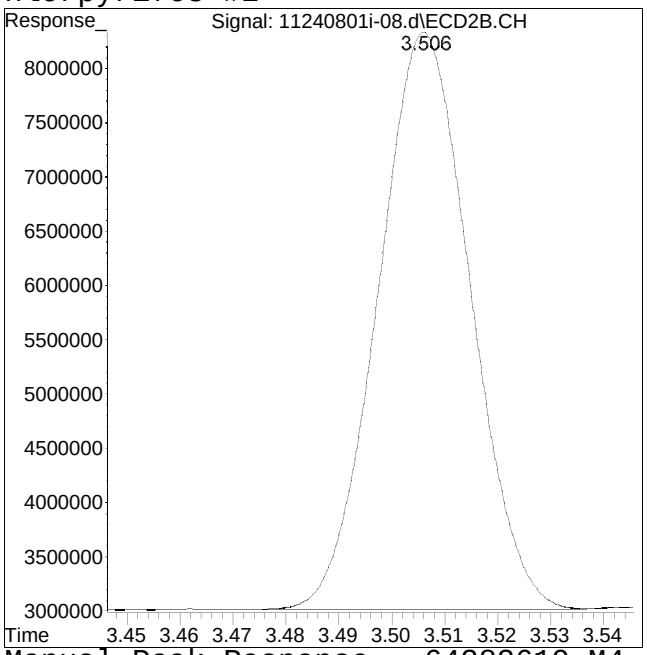
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 64562668



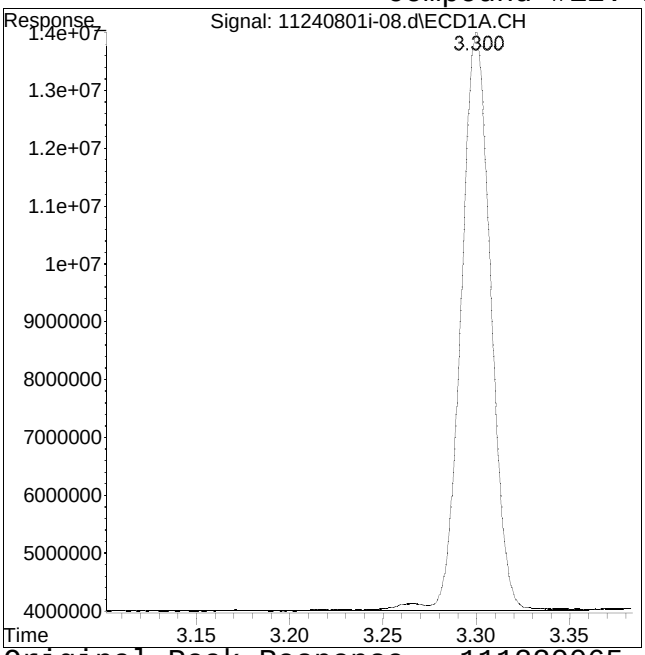
Manual Peak Response = 64282619 M4

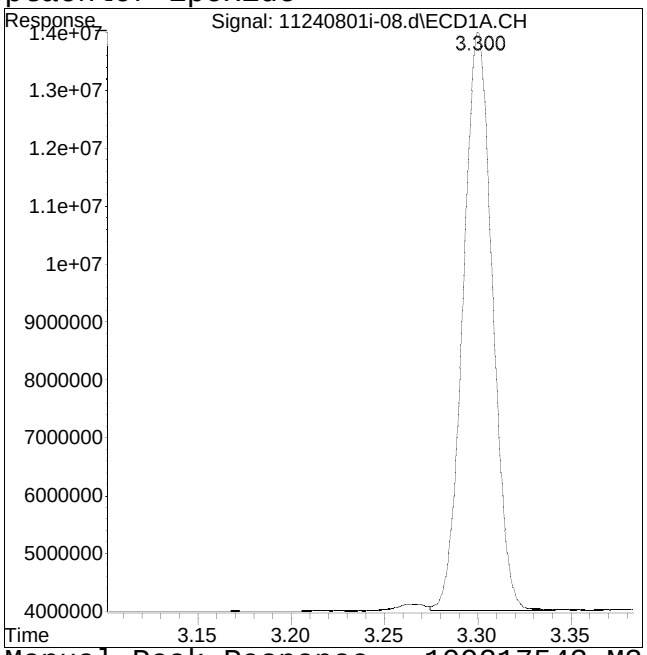
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #12: Heptachlor Epoxide



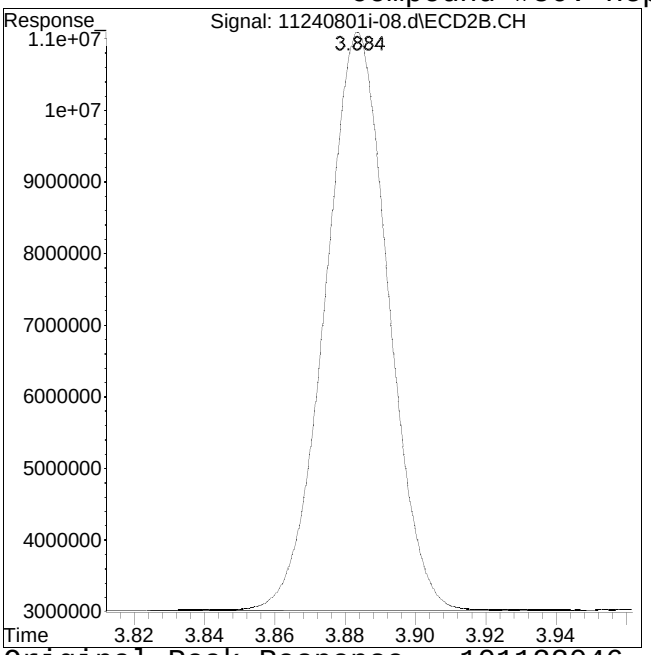


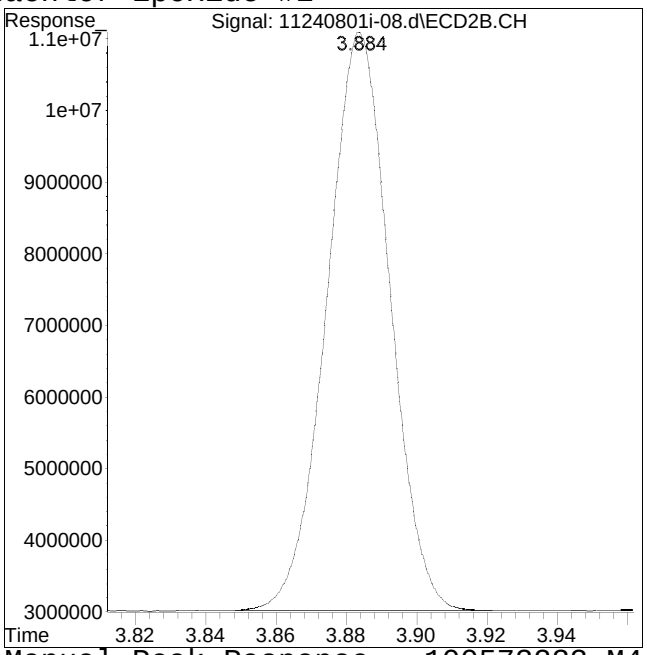
Original Peak Response = 111220065 Manual Peak Response = 109217543 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #50: Heptachlor Epoxide #2





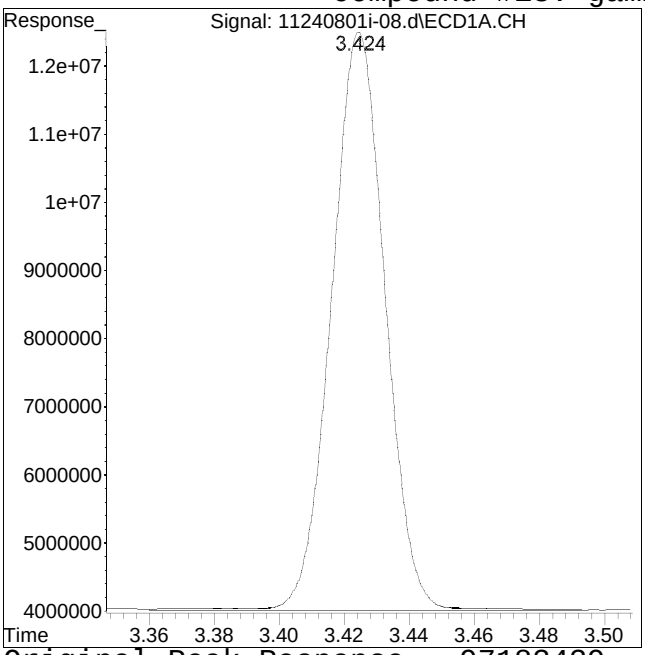
Original Peak Response = 101122046 Manual Peak Response = 100573233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

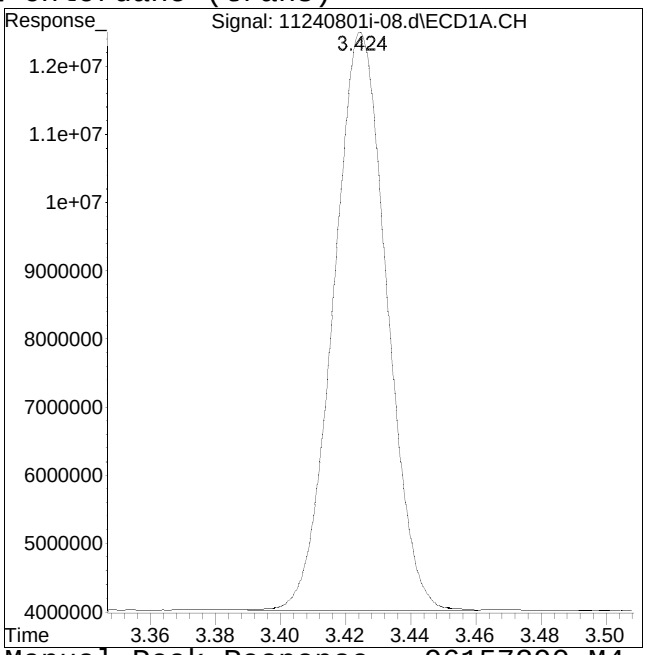
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 97183439



Manual Peak Response = 96157290 M4

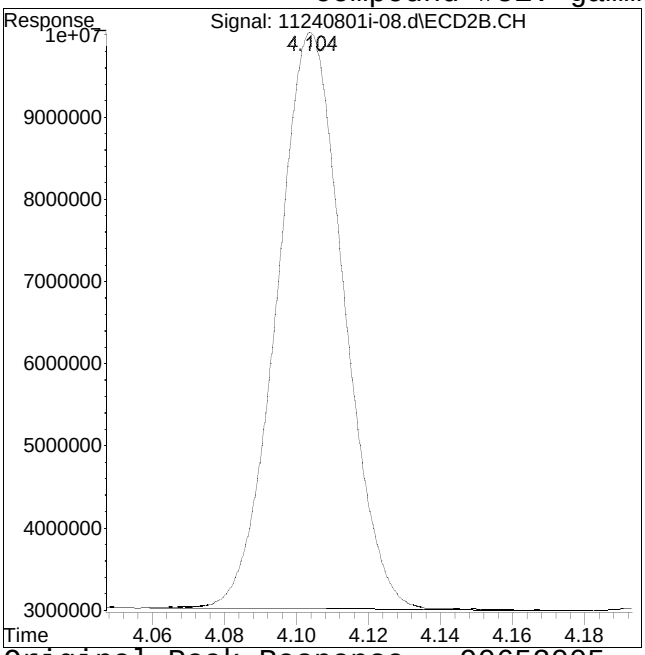
M4 = Poor automated baseline construction.

Manual Integration Report

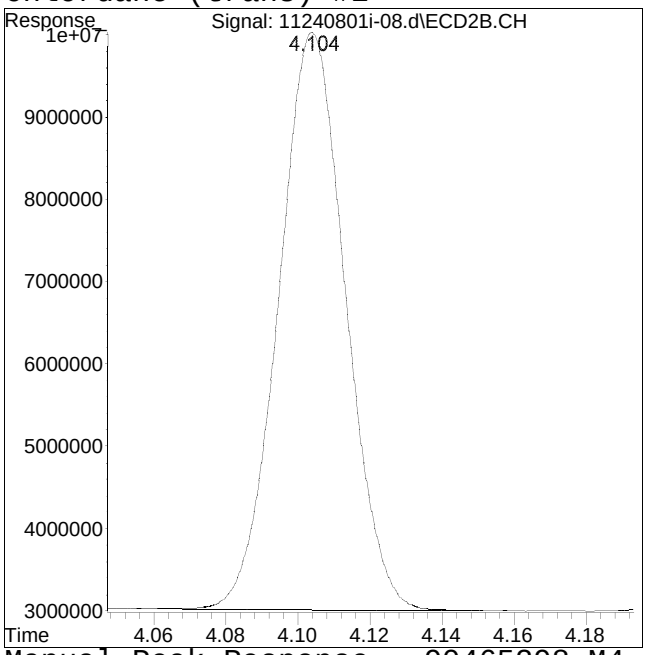
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 90652005



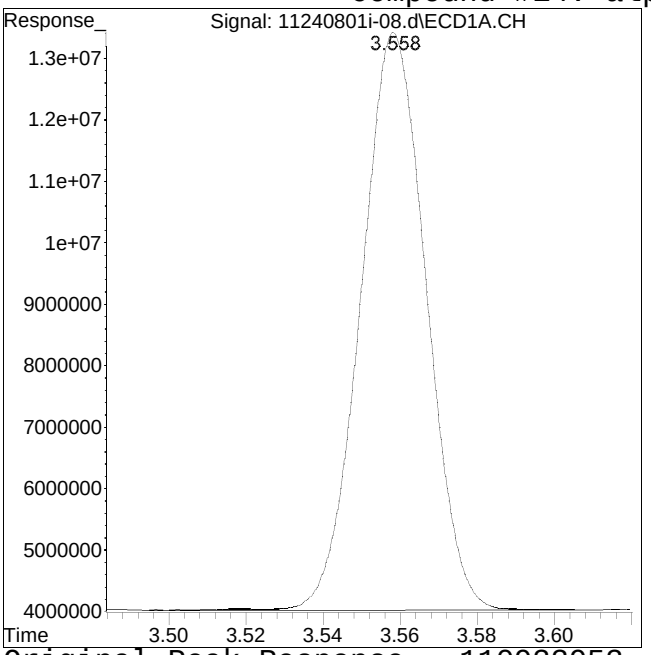
Manual Peak Response = 90465298 M4

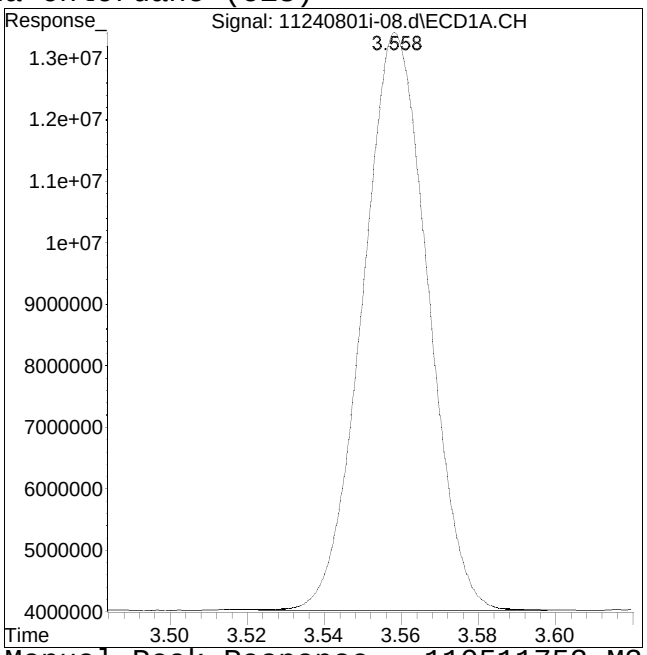
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #14: alpha-Chlordane (cis)



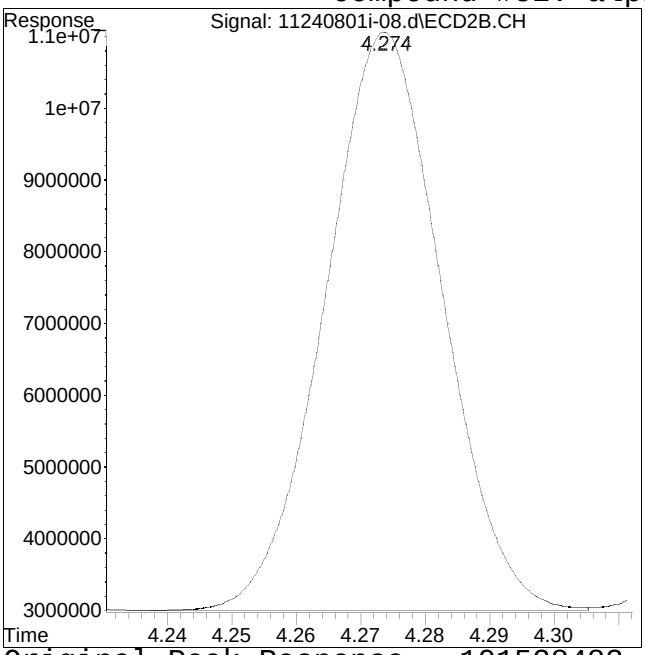


Original Peak Response = 110933953 Manual Peak Response = 110511752 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

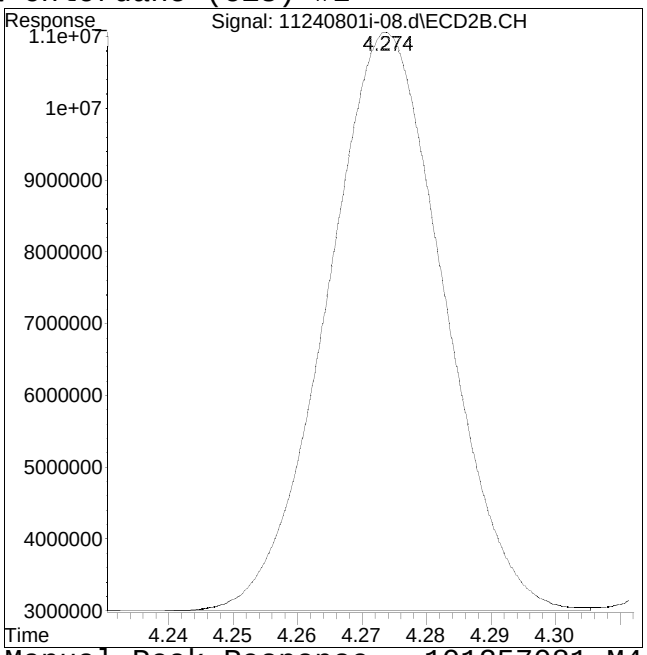
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 101528483



Manual Peak Response = 101257081 M4

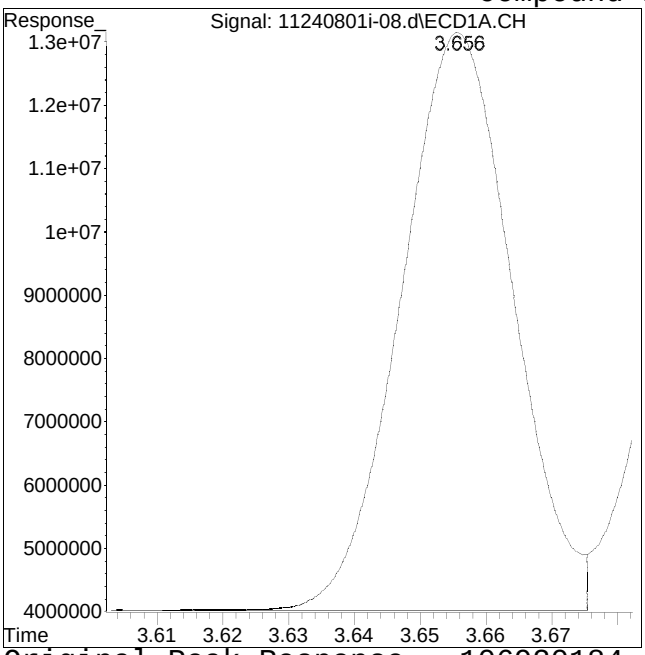
M4 = Poor automated baseline construction.

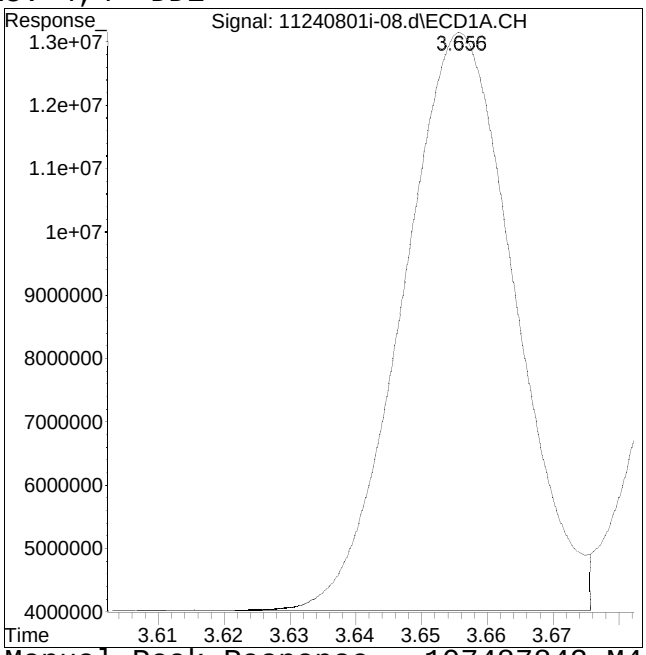
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #15: 4,4'-DDE



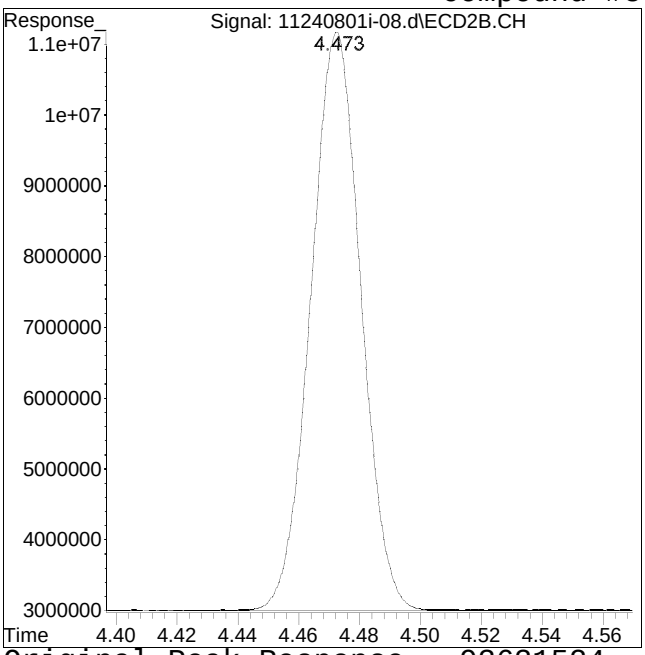


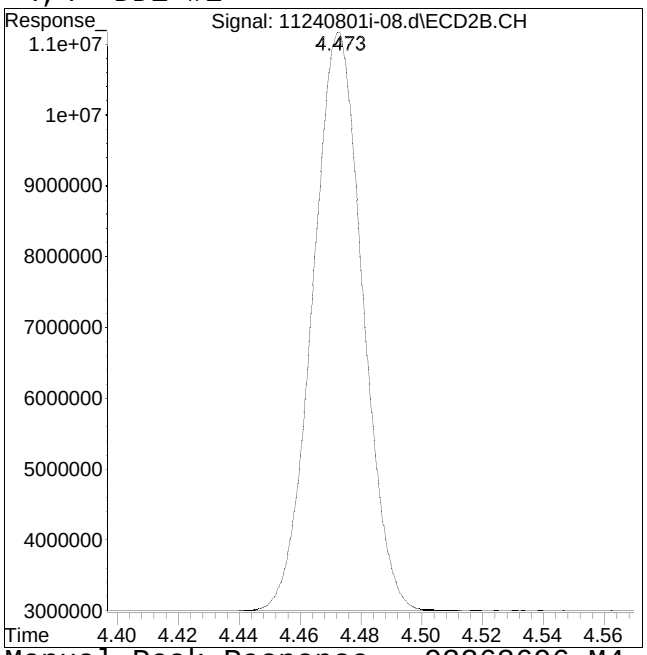
Original Peak Response = 106920184 Manual Peak Response = 107487842 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #53: 4,4'-DDE #2



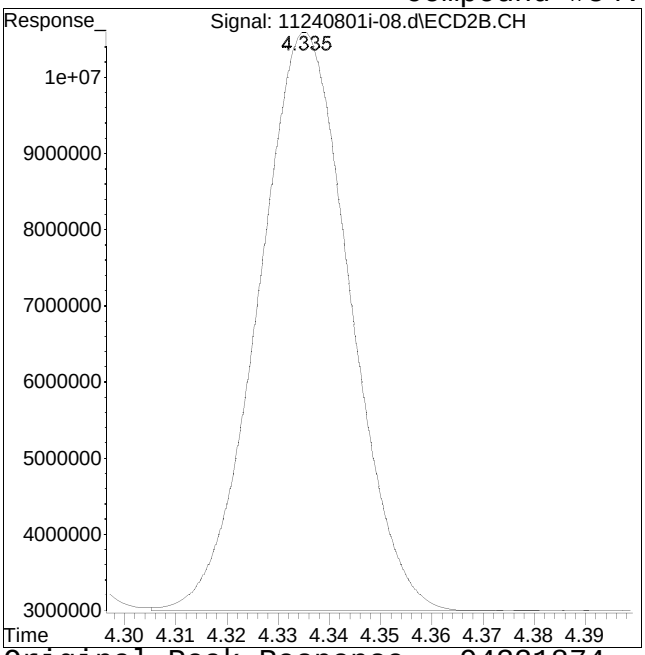


Original Peak Response = 93631524 Manual Peak Response = 93263696 M4
M4 = Poor automated baseline construction.

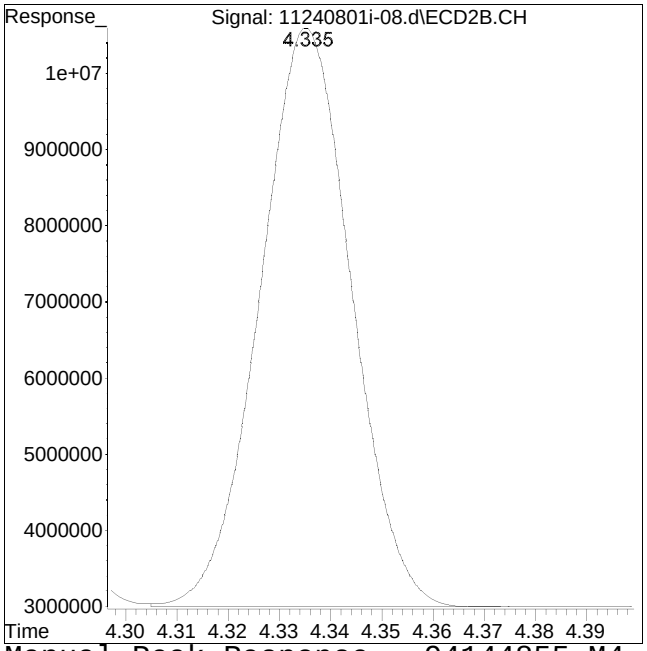
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #54: Endosulfan I #2



Original Peak Response = 94331874



Manual Peak Response = 94144855 M4

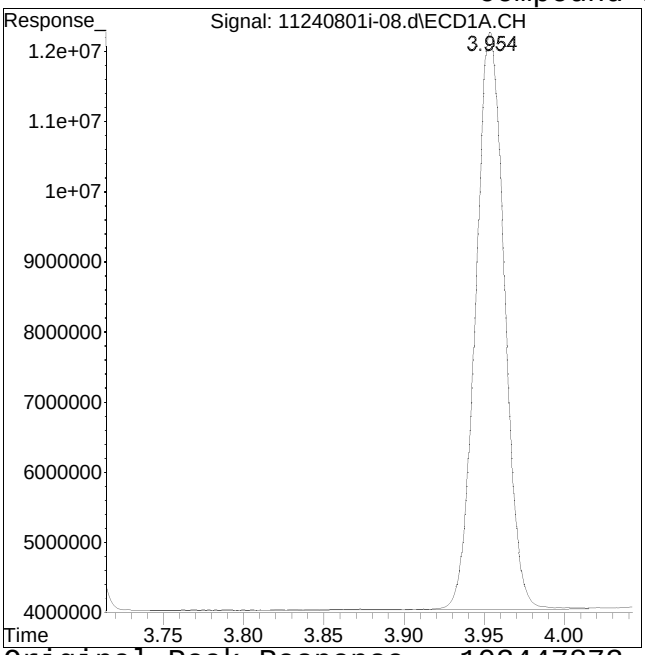
M4 = Poor automated baseline construction.

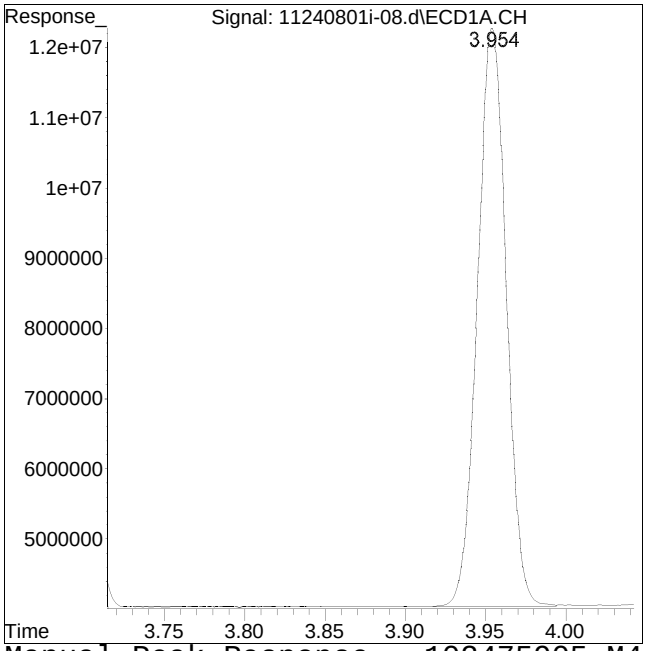
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #17: Dieldrin





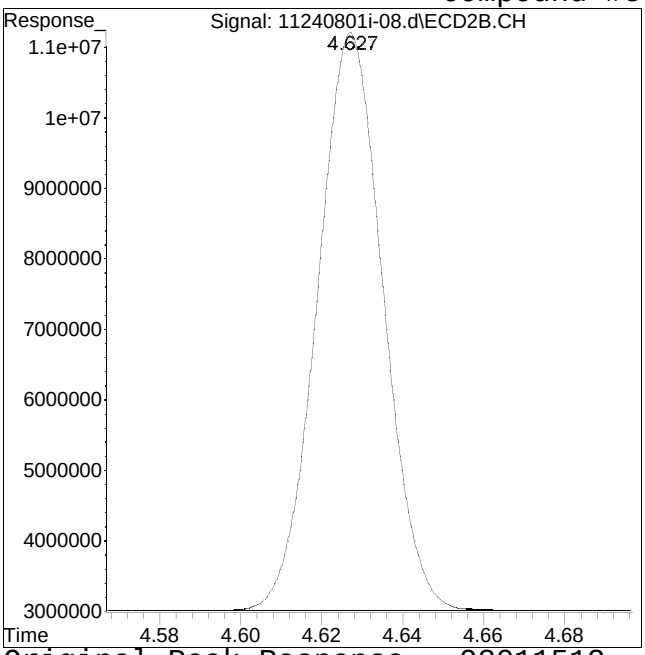
Original Peak Response = 103447873 Manual Peak Response = 102475905 M4
M4 = Poor automated baseline construction.

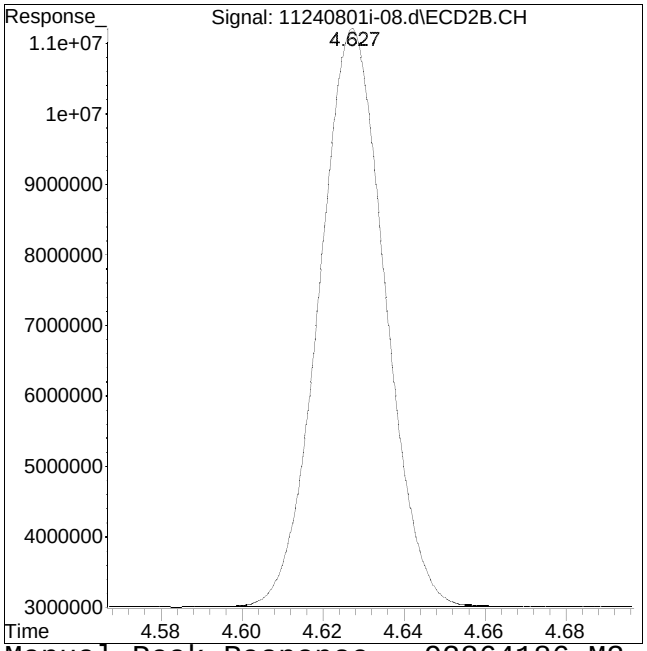
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #55: Dieldrin #2





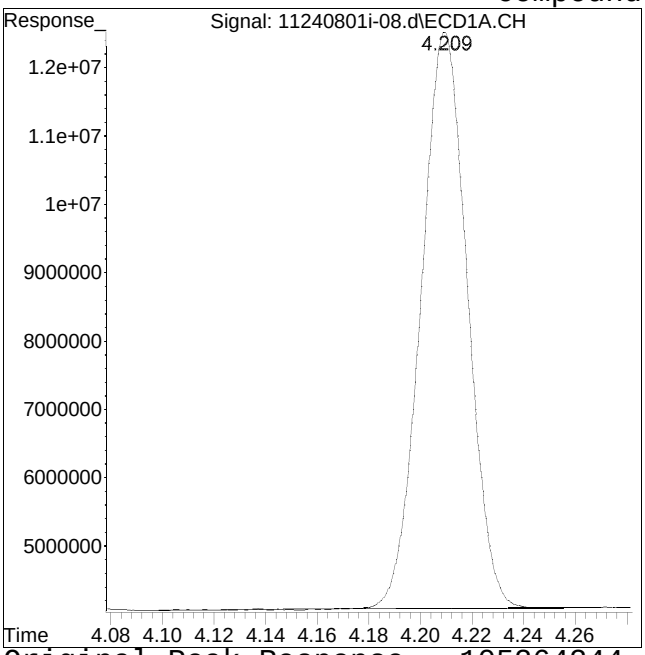
Original Peak Response = 93011512 Manual Peak Response = 92864186 M3

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

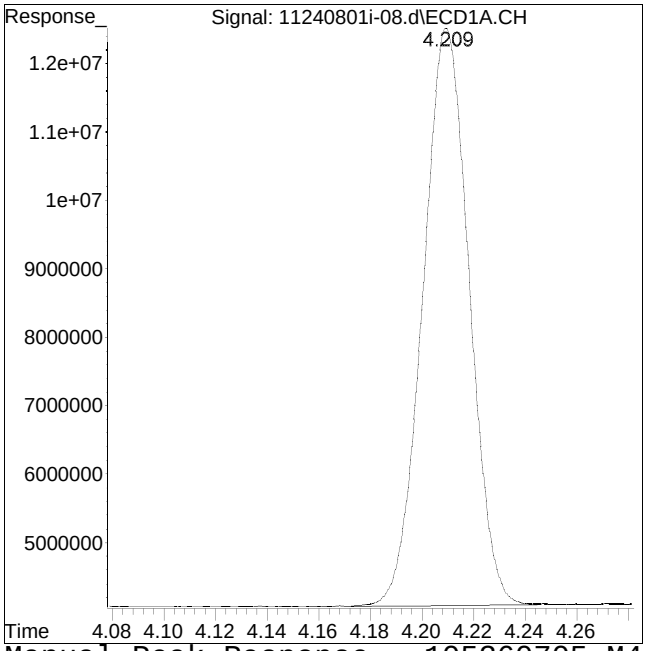
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #18: Endrin



Original Peak Response = 105264244



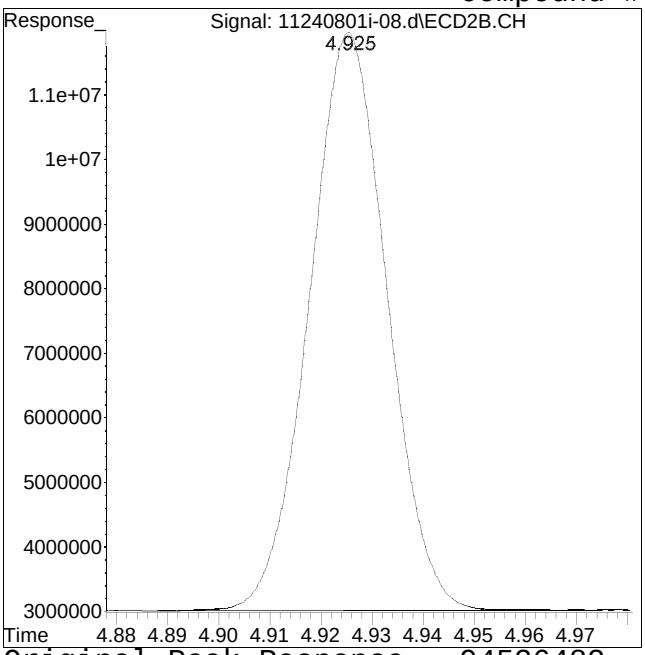
Manual Peak Response = 105360705 M4

M4 = Poor automated baseline construction.

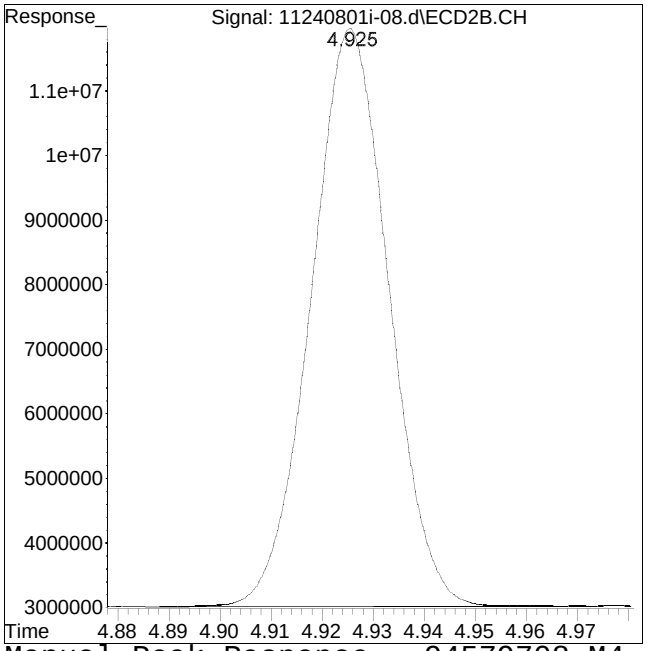
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #56: Endrin #2



Original Peak Response = 94526482



Manual Peak Response = 94579708 M4

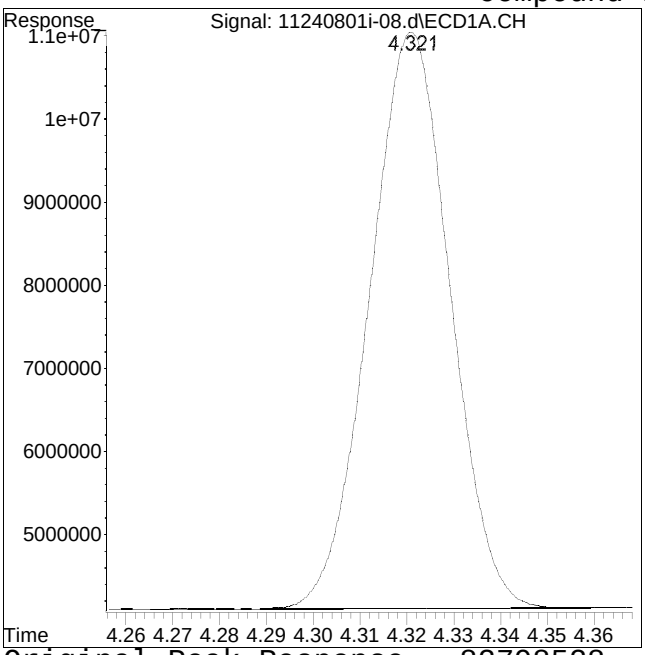
M4 = Poor automated baseline construction.

Manual Integration Report

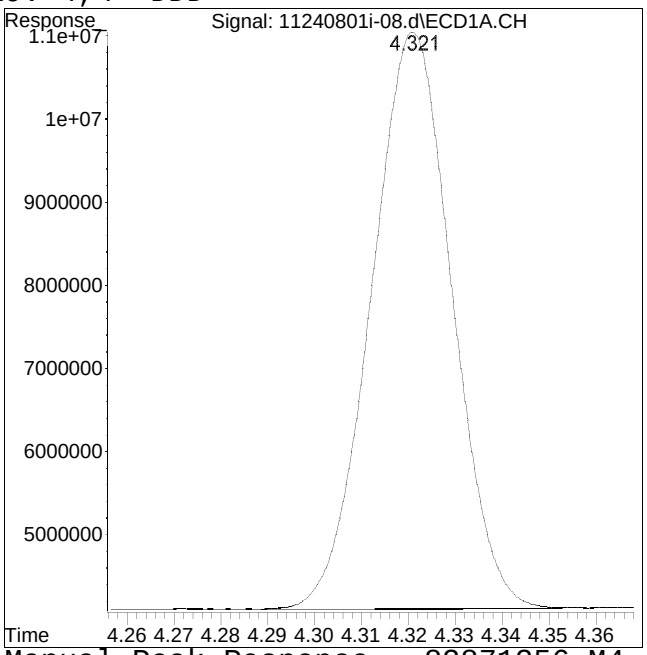
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #19: 4,4'-DDD



Original Peak Response = 82798528



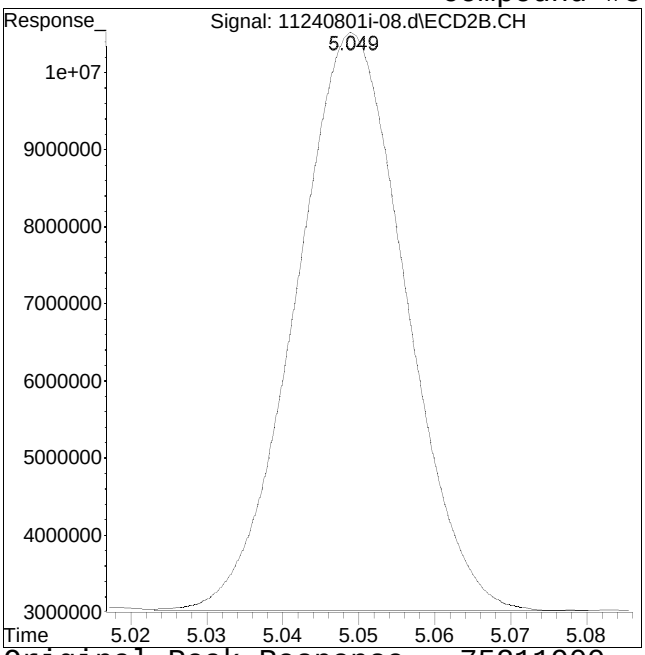
Manual Peak Response = 82871356 M4

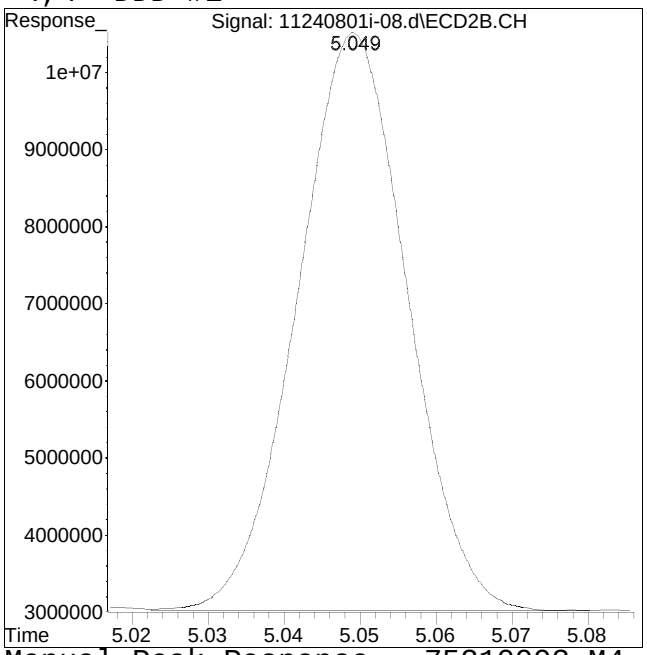
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #57: 4,4'-DDD #2





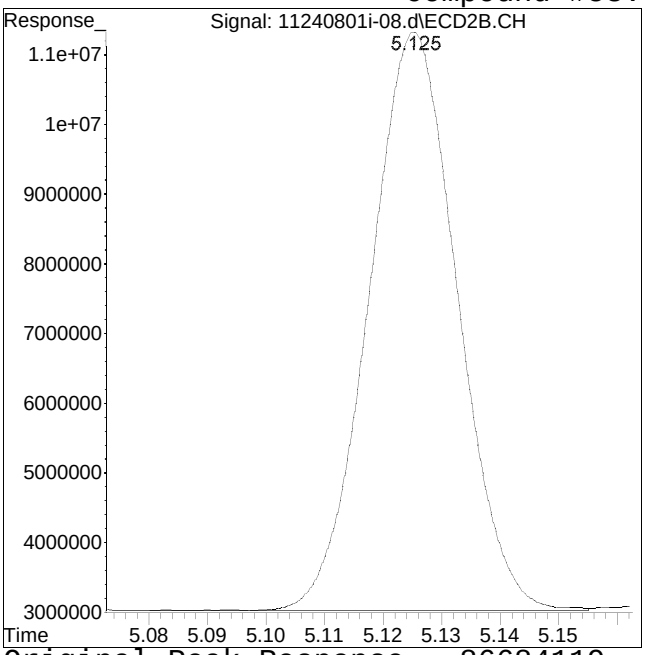
Original Peak Response = 75211900 Manual Peak Response = 75210993 M4
M4 = Poor automated baseline construction.

Manual Integration Report

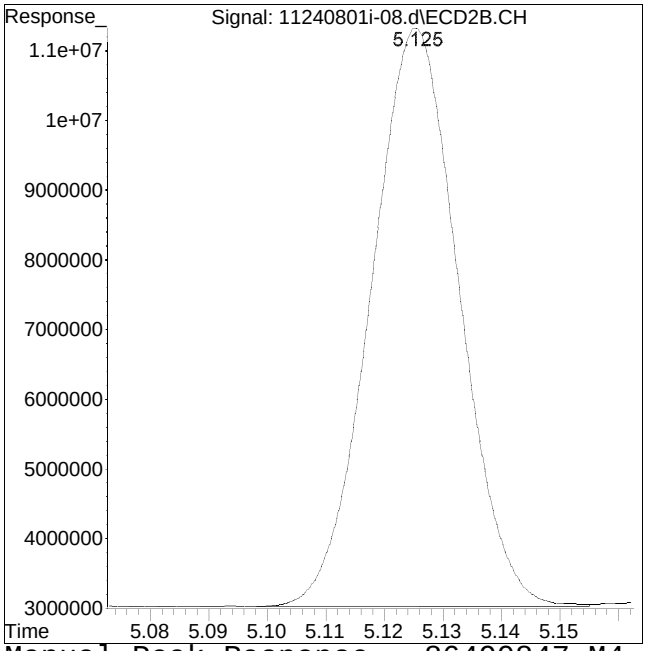
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #58: Endosulfan II #2



Original Peak Response = 86684119



Manual Peak Response = 86490847 M4

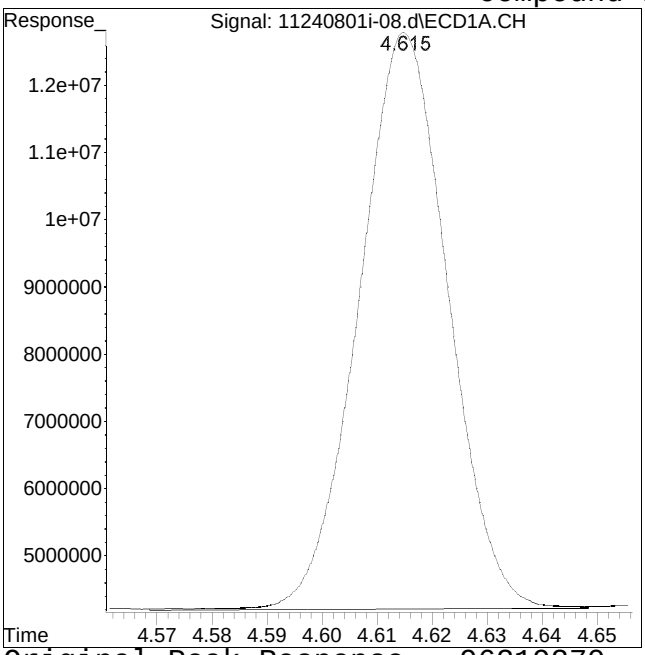
M4 = Poor automated baseline construction.

Manual Integration Report

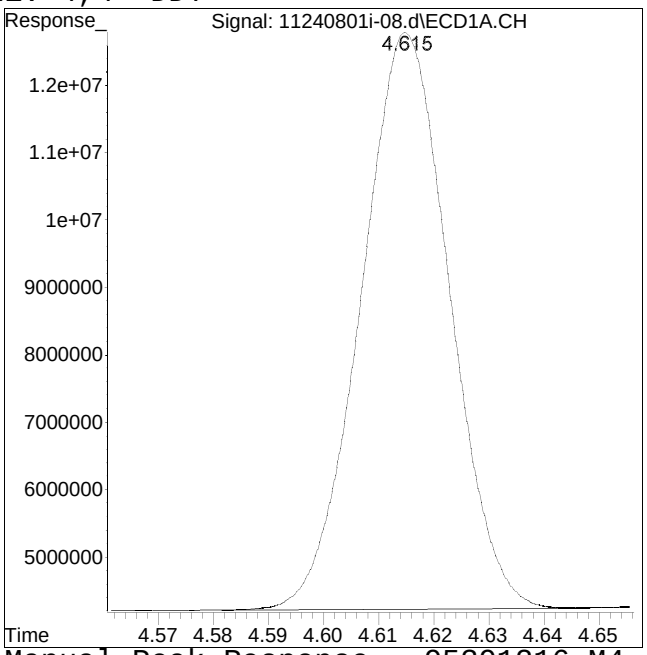
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #21: 4,4'-DDT



Original Peak Response = 96219270



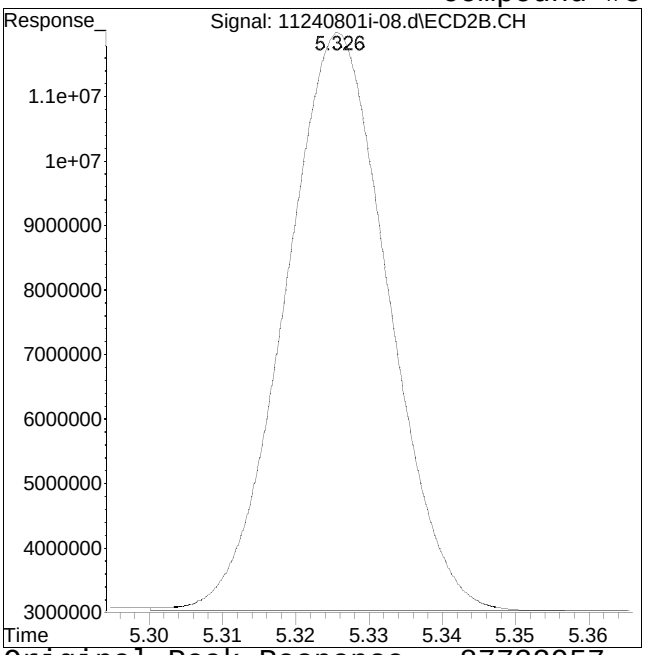
Manual Peak Response = 95391216 M4

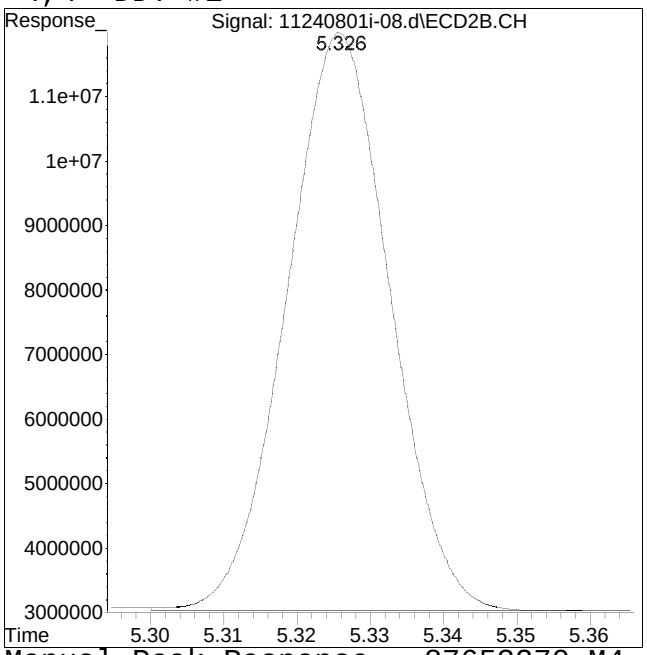
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #59: 4,4'-DDT #2



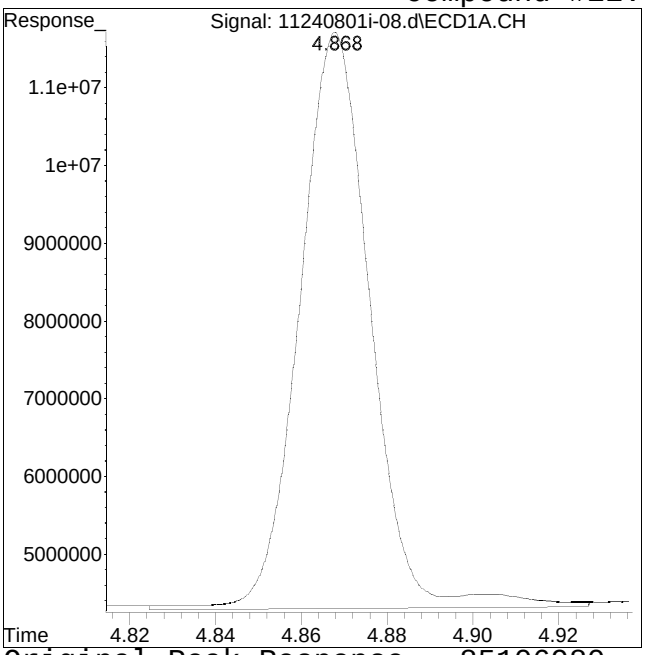


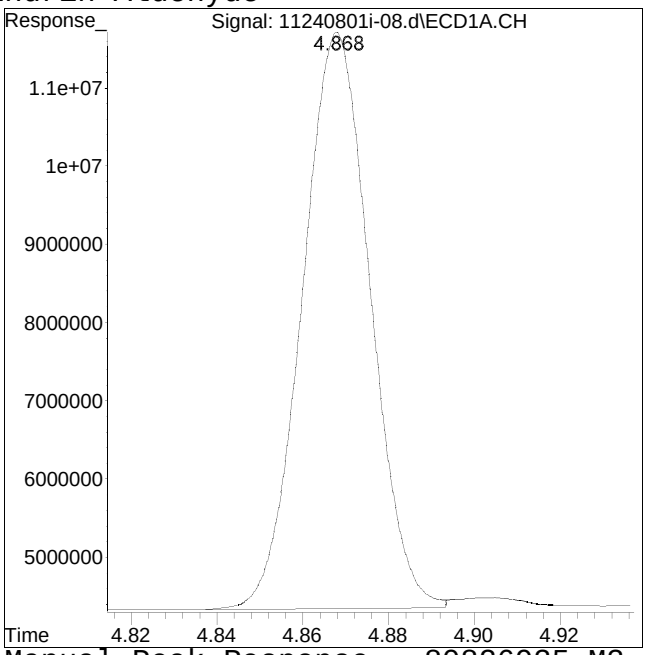
Original Peak Response = 87732957 Manual Peak Response = 87653270 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #22: Endrin Aldehyde



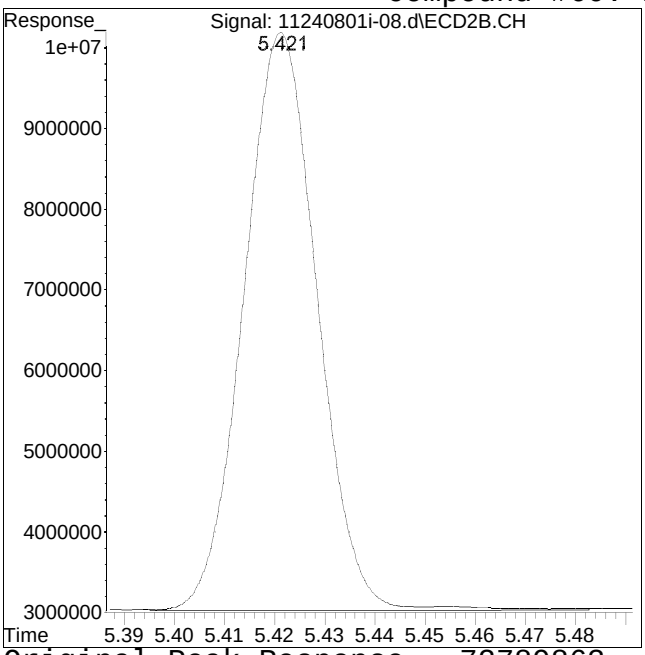


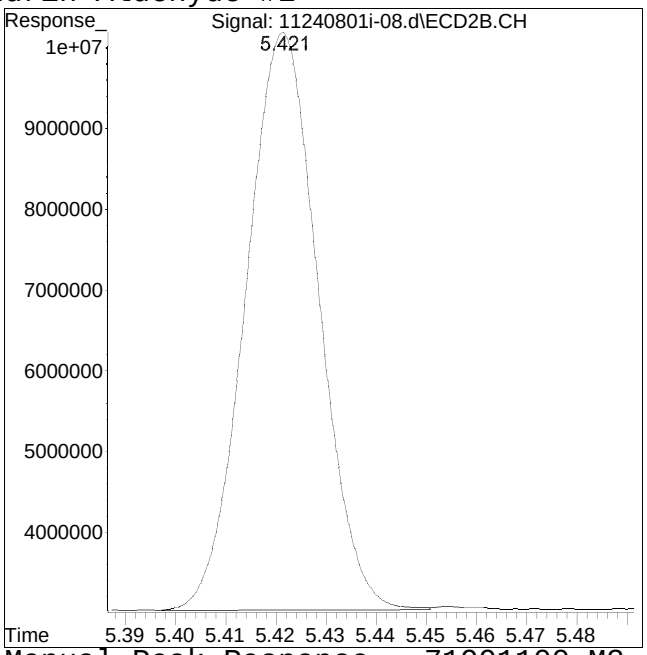
Original Peak Response = 85106980 Manual Peak Response = 80826935 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #60: Endrin Aldehyde #2



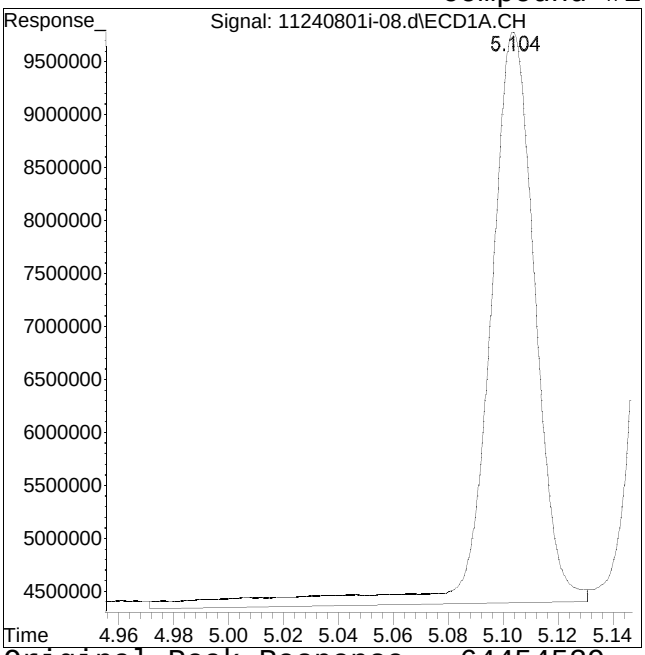


Original Peak Response = 72789863 Manual Peak Response = 71991100 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

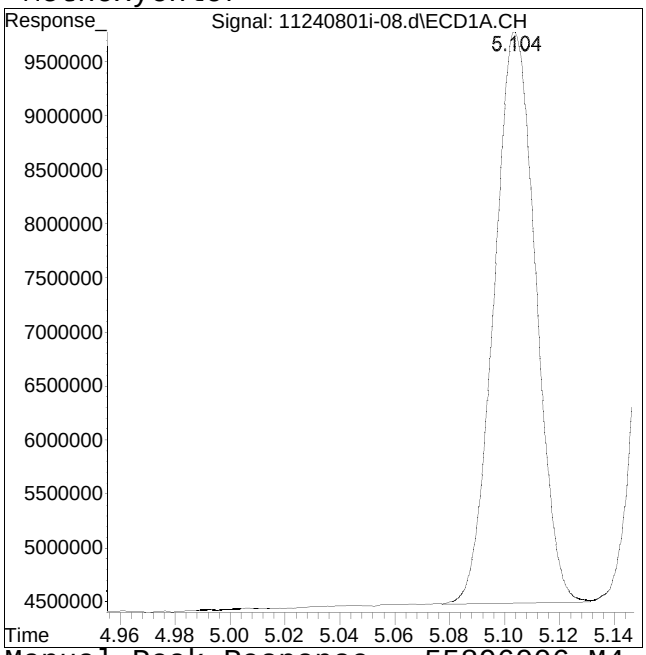
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #23: Methoxychlor



Original Peak Response = 64454539



Manual Peak Response = 55896006 M4

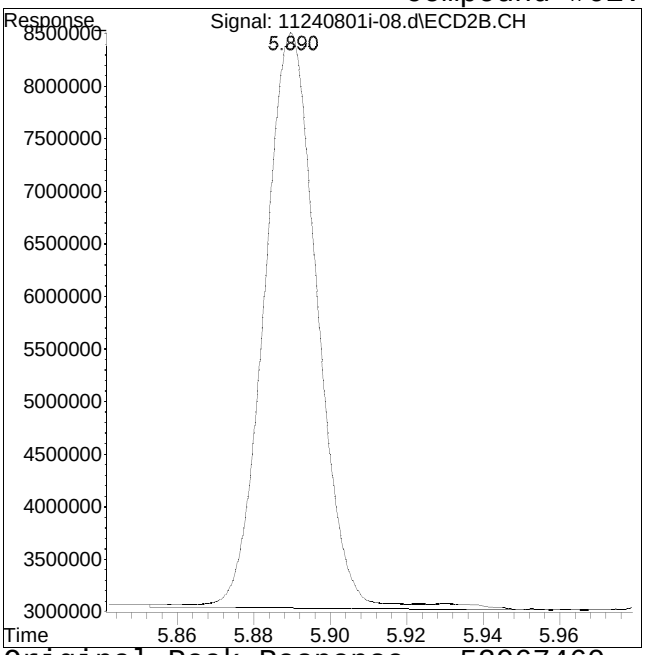
M4 = Poor automated baseline construction.

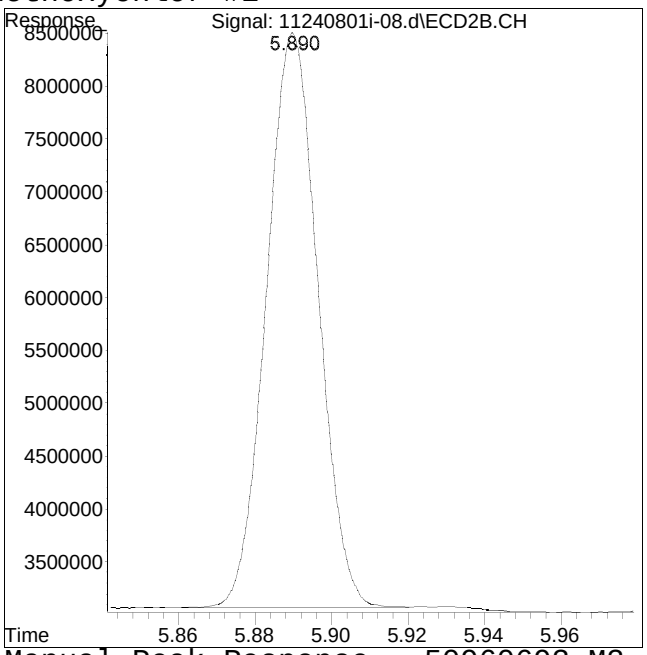
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #61: Methoxychlor #2





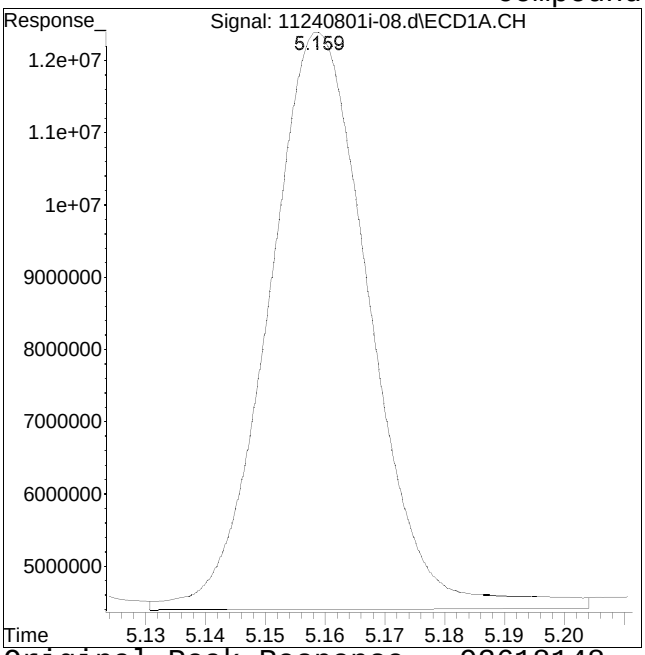
Original Peak Response = 52967460 Manual Peak Response = 50960693 M3

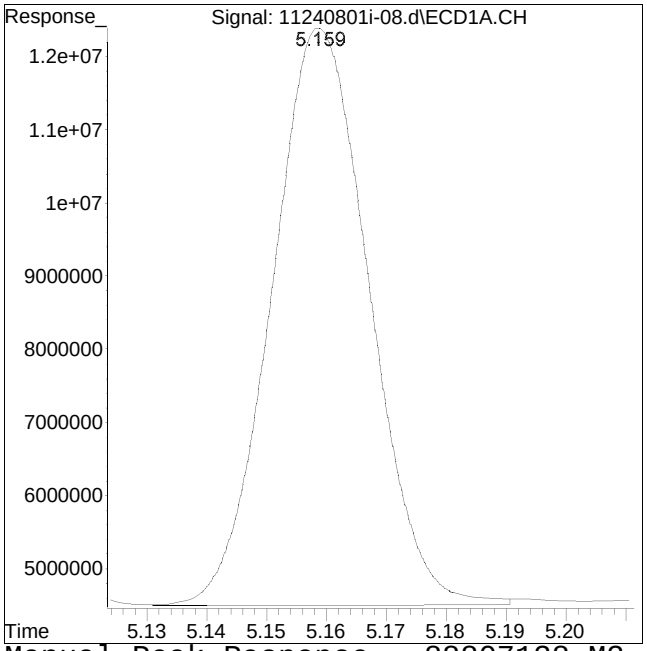
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #24: Mirex



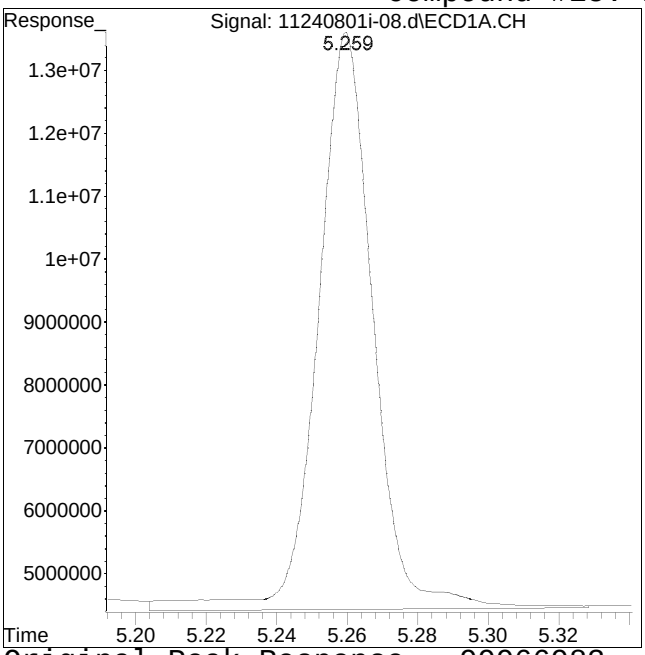


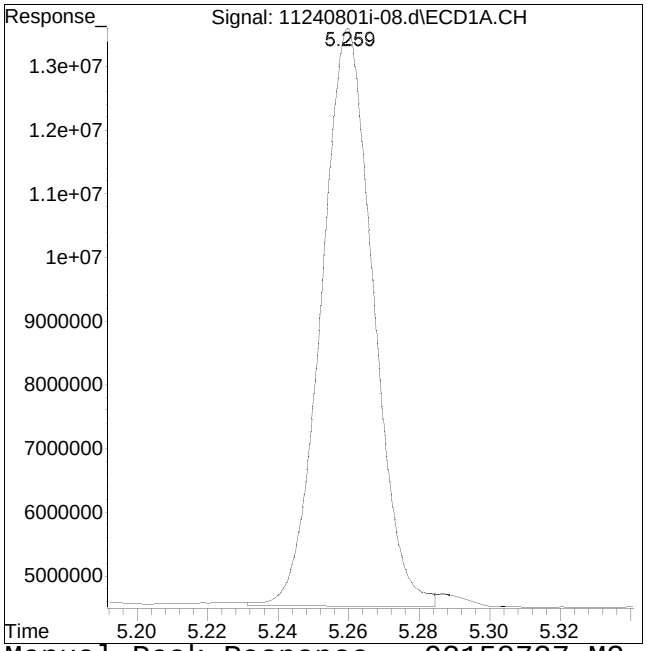
Original Peak Response = 93618148 Manual Peak Response = 88807138 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #25: Endosulfan Sulfate





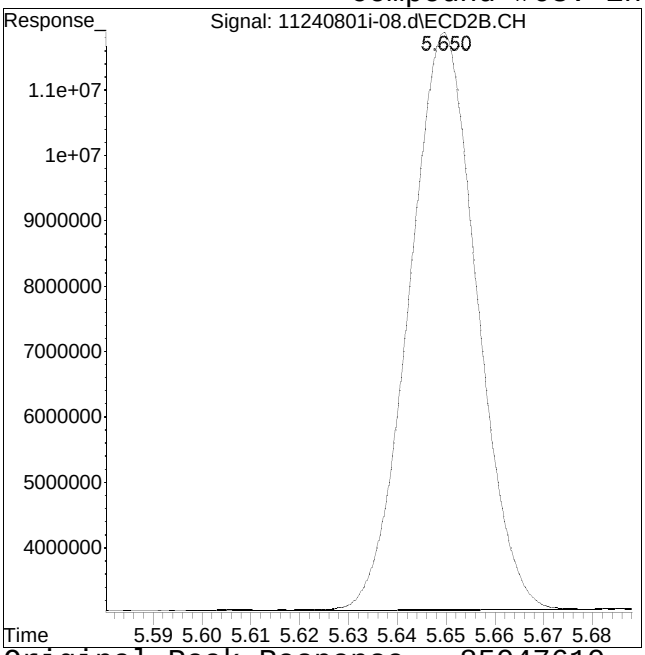
Original Peak Response = 99966983 Manual Peak Response = 92158727 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

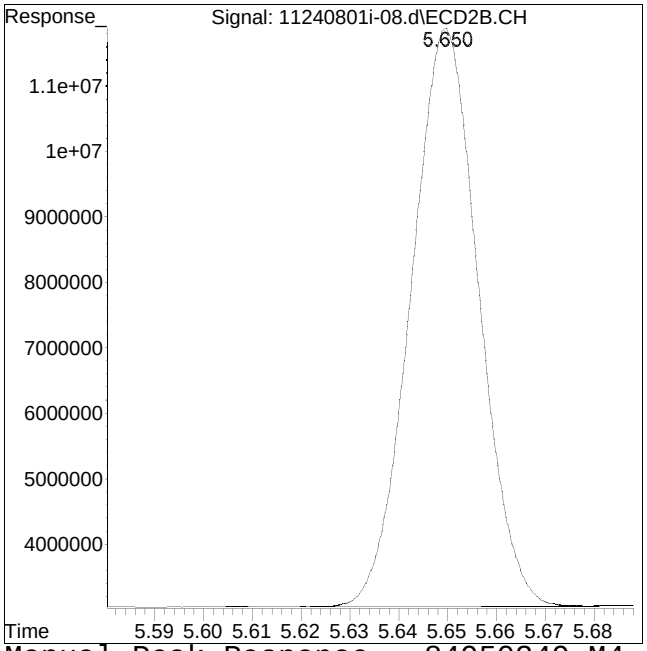
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 85047610



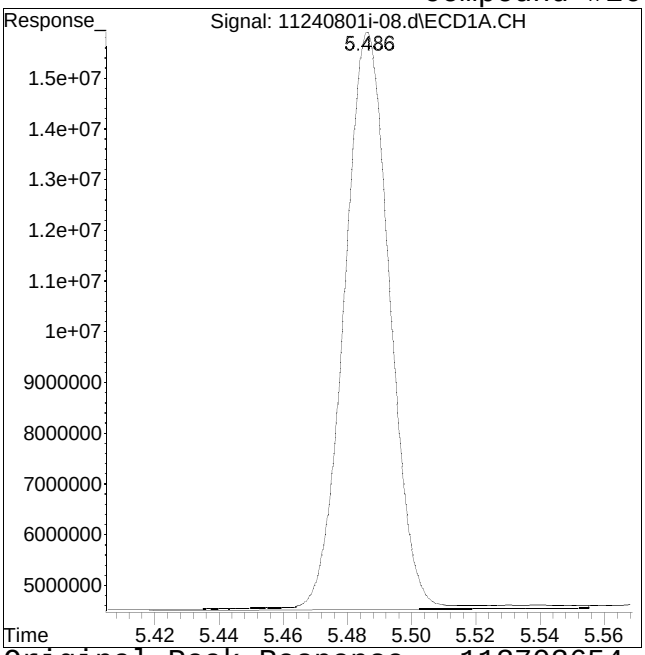
Manual Peak Response = 84950349 M4

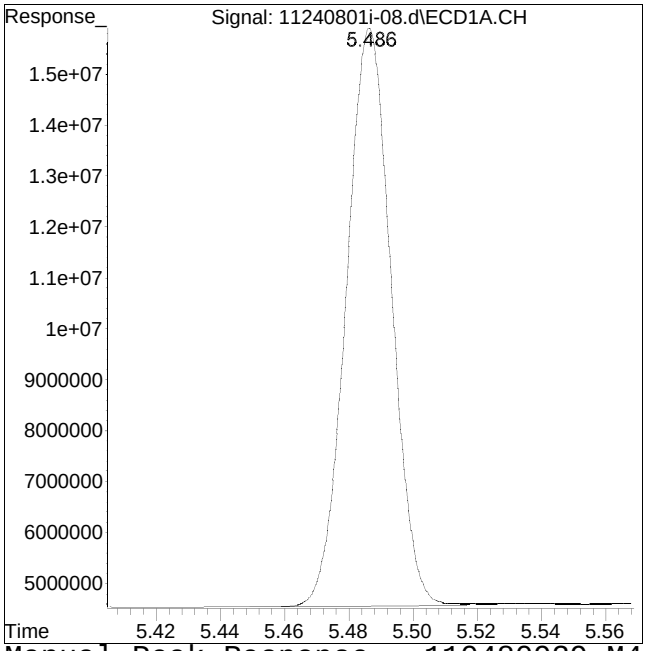
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #26: Endrin Ketone



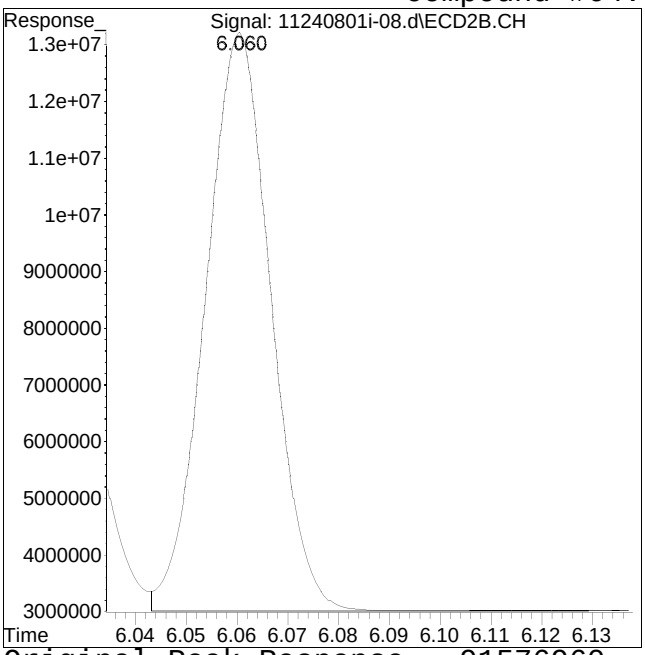


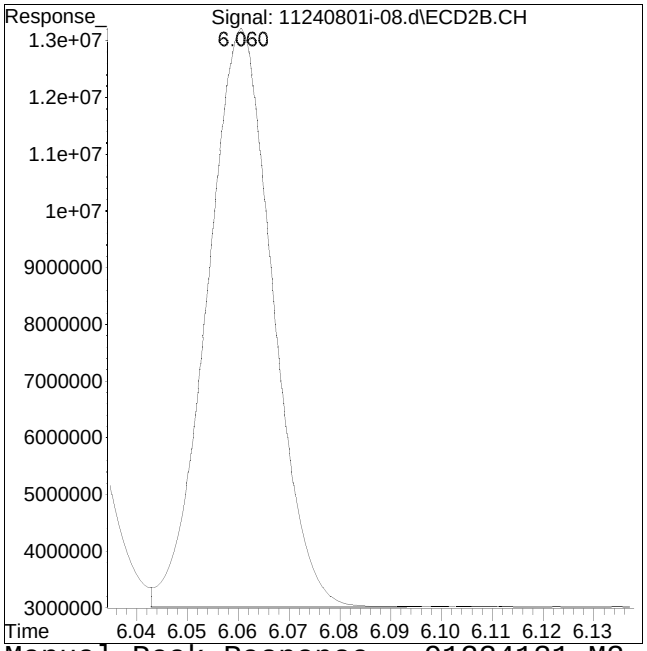
Original Peak Response = 113703654 Manual Peak Response = 110480939 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #64: Endrin Ketone #2



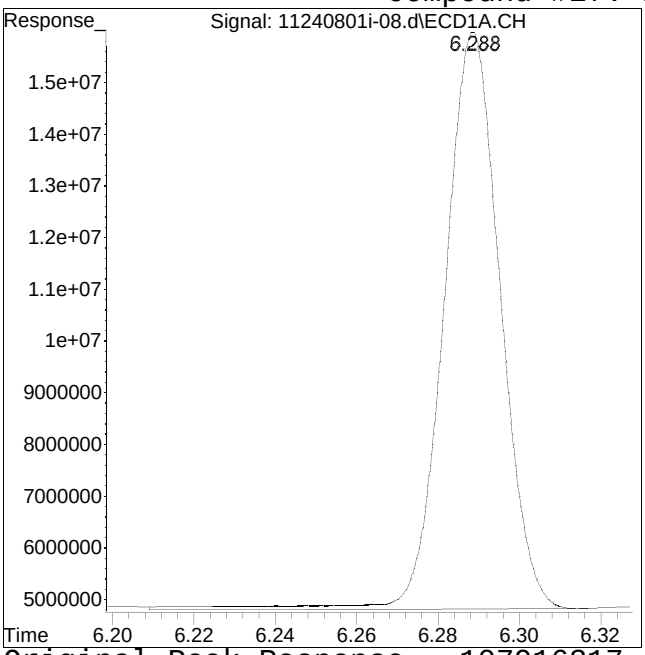


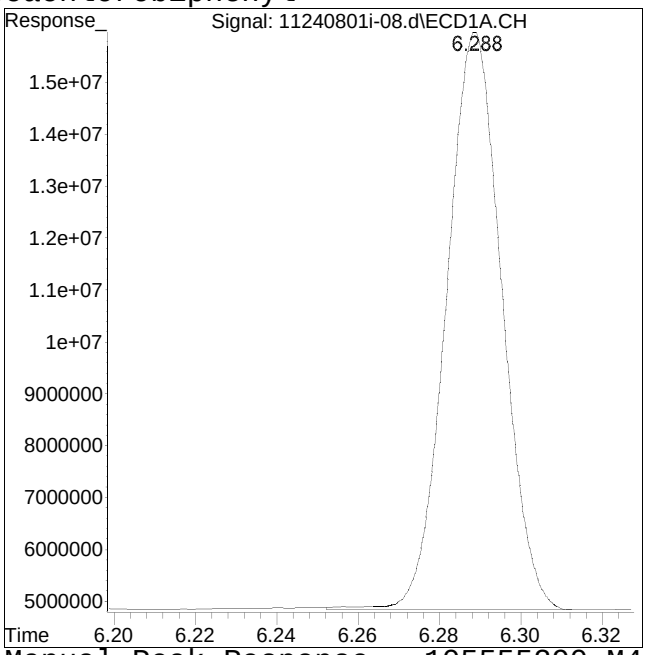
Original Peak Response = 91576960 Manual Peak Response = 91234131 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #27: Decachlorobiphenyl





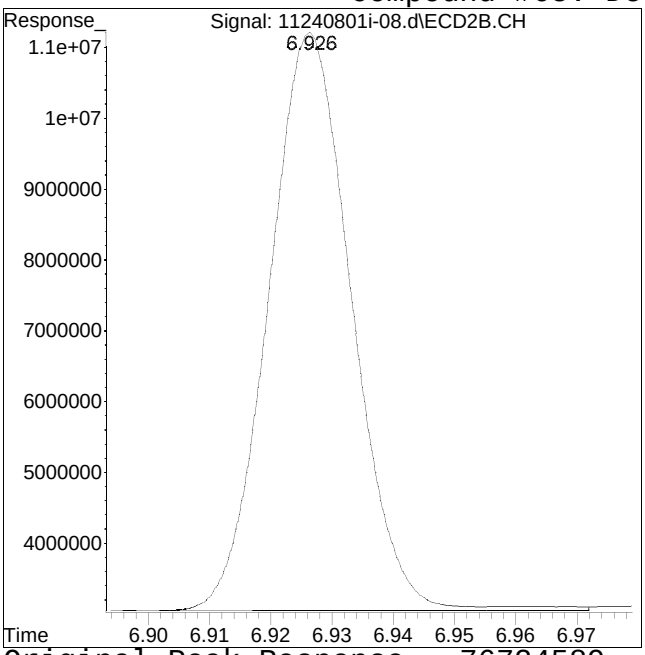
Original Peak Response = 107916317 Manual Peak Response = 105555290 M4
M4 = Poor automated baseline construction.

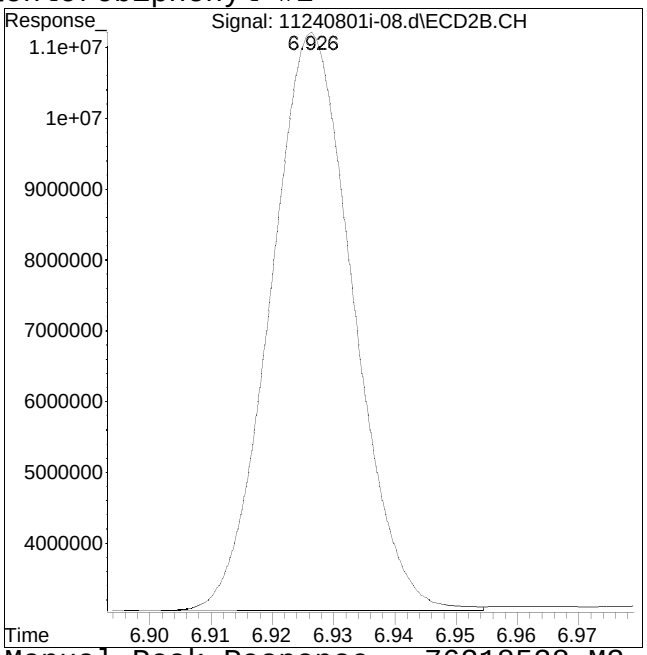
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 76724589 Manual Peak Response = 76218538 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	236.1E6	187.7E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	492.0E6	407.5E6	NoCal M3	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	6.288	6.920	489.2E6	351.4E6	NoCal M4	NoCal M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	634.9E6	430.2E6	NoCal M3	NoCal M4
4) t	alpha-BHC	1.963	2.271	745.5E6	633.1E6	NoCal M4	NoCal M4
5) t	gamma-BHC (l	2.165	2.556	687.9E6	572.6E6	NoCal M4	NoCal M4
6) t	beta-BHC	2.221	2.622	286.7E6	241.2E6	NoCal M4	NoCal M3
7) t	delta-BHC	2.350	2.889	694.2E6	581.2E6	NoCal M4	NoCal M4
8) t	Heptachlor	2.513	2.952	641.1E6	583.2E6	NoCal M4	NoCal M4
9) t	Aldrin	2.756	3.271	607.8E6	538.3E6	NoCal M4	NoCal M4
10) t	Alachlor	2.876	3.153	106.6E6	73985916	NoCal M4	NoCal M4
11) t	Chlorpyrifos	2.968	3.507	254.3E6	276.4E6	NoCal M4	NoCal

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	567.8E6	507.8E6	NoCal M3	NoCal M4
13)	t	gamma-Chlord	3.425	4.104	508.9E6	459.6E6	NoCal M4	NoCal M4
14)	t	alpha-Chlord	3.559	4.274	577.6E6	510.2E6	NoCal M3	NoCal M4
15)	t	4,4'-DDE	3.656	4.473	579.1E6	505.9E6	NoCal M4	NoCal M4
16)	t	Endosulfan I	3.695	4.336	533.8E6	473.2E6	NoCal M3	NoCal M4
17)	t	Dieldrin	3.955	4.628	554.2E6	490.0E6	NoCal M4	NoCal M4
18)	t	Endrin	4.210	4.926	563.1E6	497.8E6	NoCal	NoCal M4
19)	t	4,4'-DDD	4.322	5.049	451.2E6	402.1E6	NoCal	NoCal M4
20)	t	Endosulfan I	4.452	5.125	505.7E6	433.2E6	NoCal	NoCal M4
21)	t	4,4'-DDT	4.616	5.326	511.5E6	460.7E6	NoCal M4	NoCal M4
22)	t	Endrin Aldeh	4.868	5.421	414.1E6	353.4E6	NoCal M4	NoCal M3
23)	t	Methoxychlor	5.104	5.890	267.0E6	236.7E6	NoCal M4	NoCal M4
24)	t	Mirex	5.160	6.023	415.8E6	345.7E6	NoCal M3	NoCal M4
25)	t	Endosulfan S	5.260	5.649	466.7E6	415.6E6	NoCal M3	NoCal M3
26)	t	Endrin Keton	5.487	6.060	564.8E6	452.3E6	NoCal M4	NoCal M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

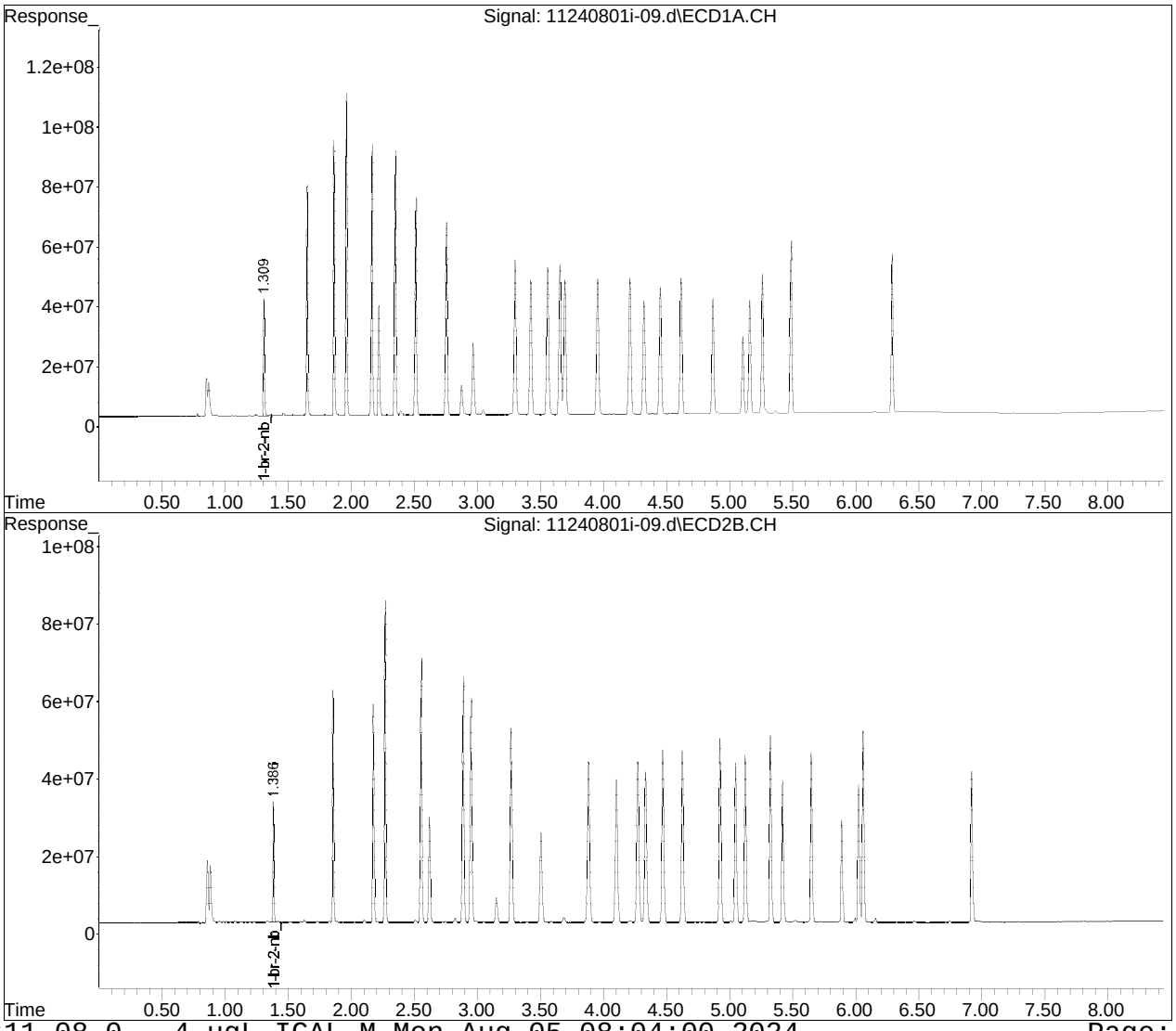
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

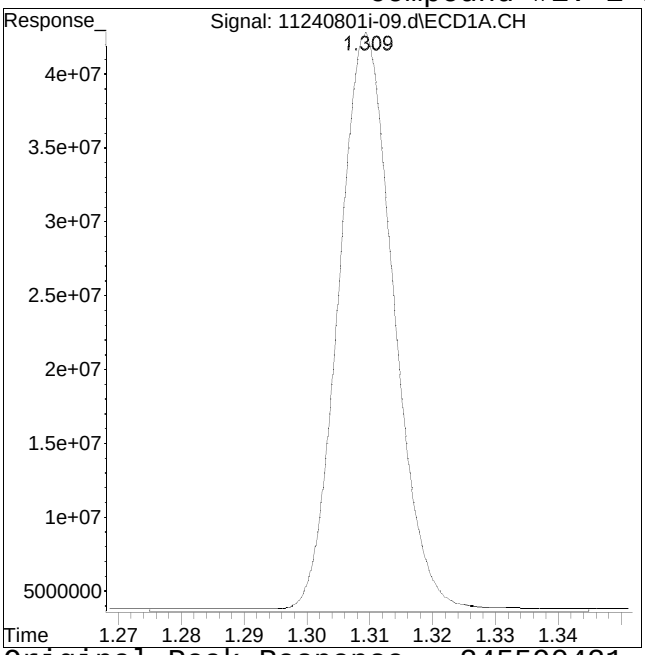
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

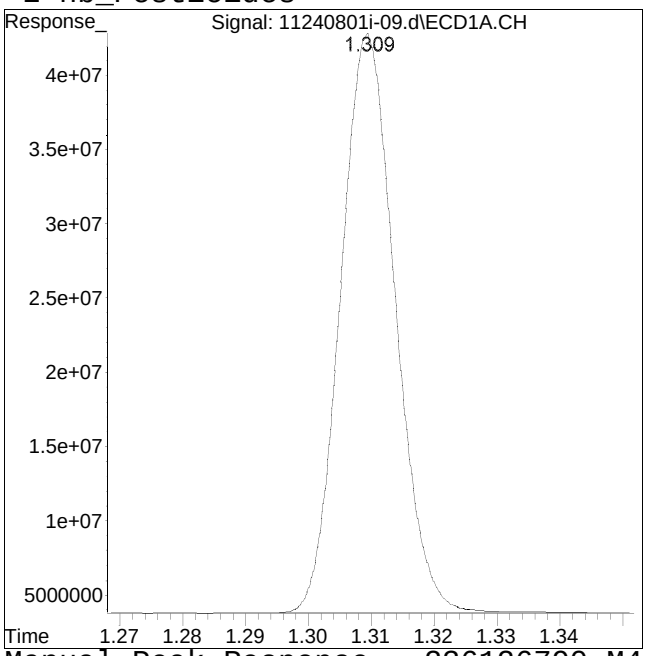


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #1: 1-br-2-nb_Pesticides





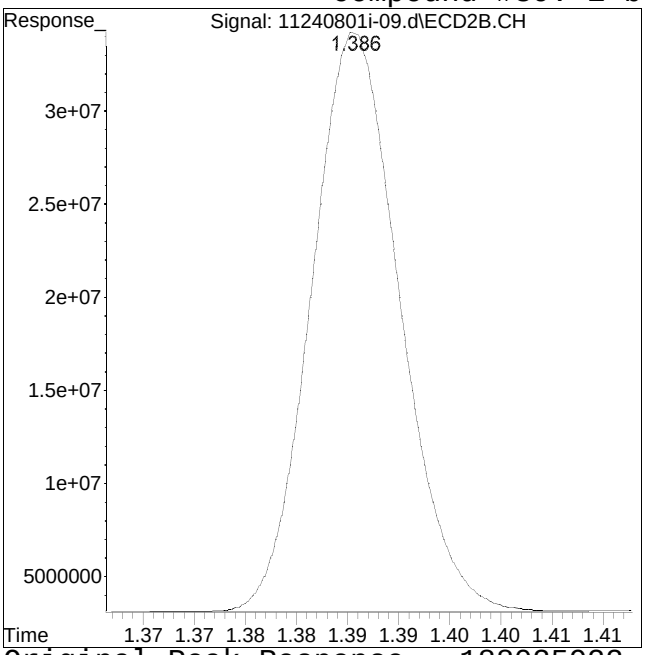
Original Peak Response = 245590421 Manual Peak Response = 236126790 M4
M4 = Poor automated baseline construction.

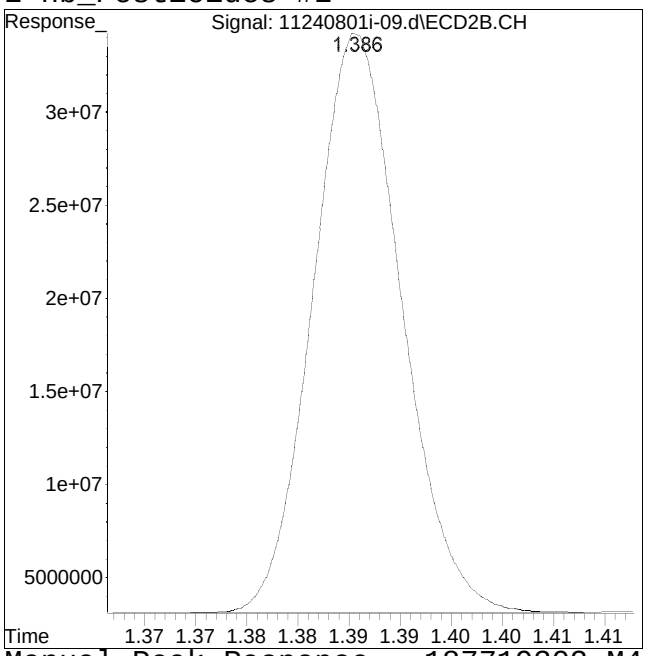
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #39: 1-br-2-nb_Pesticides #2



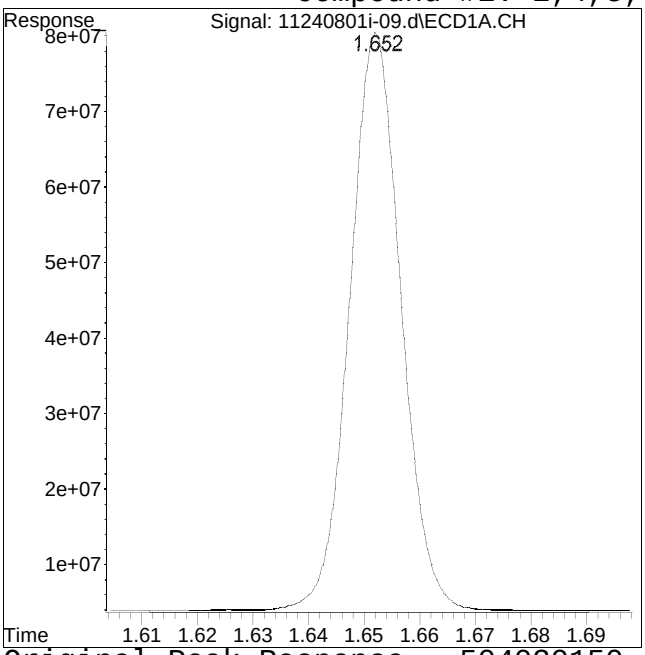


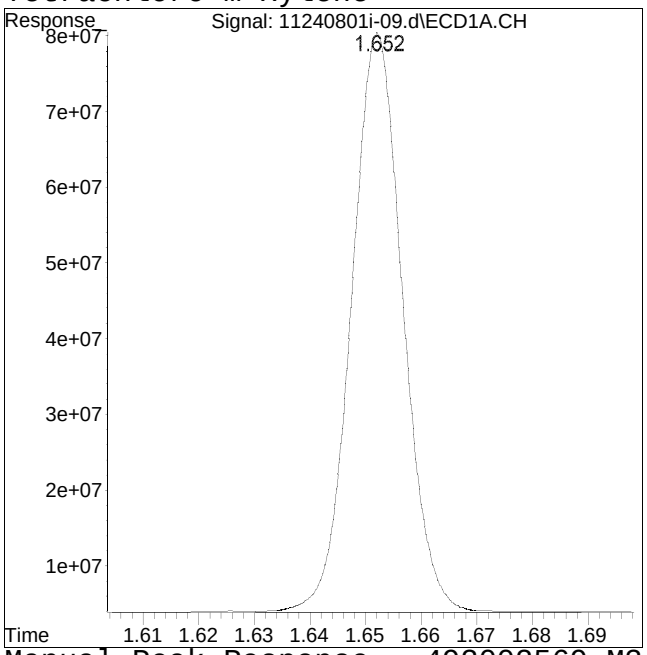
Original Peak Response = 188025922 Manual Peak Response = 187719302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



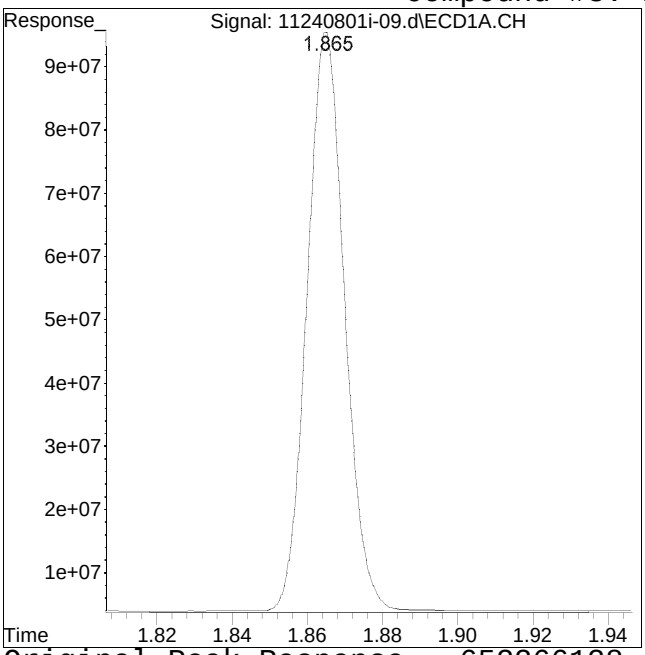


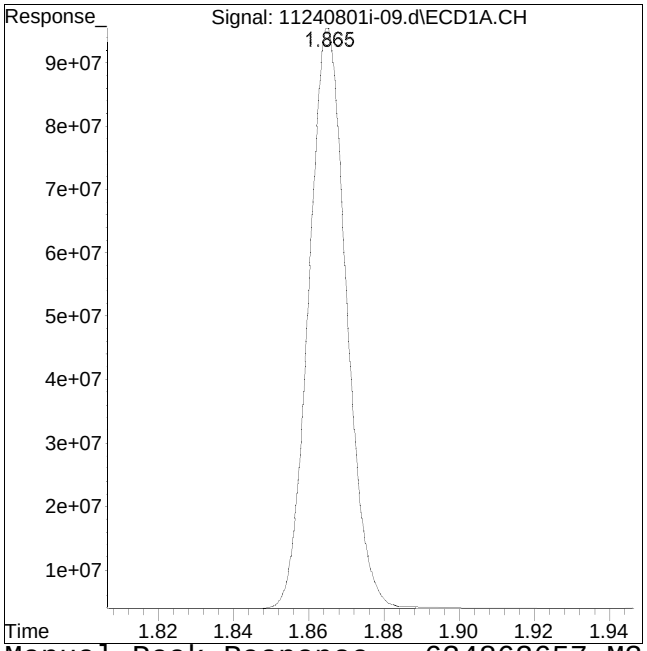
Original Peak Response = 504030150 Manual Peak Response = 492002569 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #3: Hexachlorobenzene



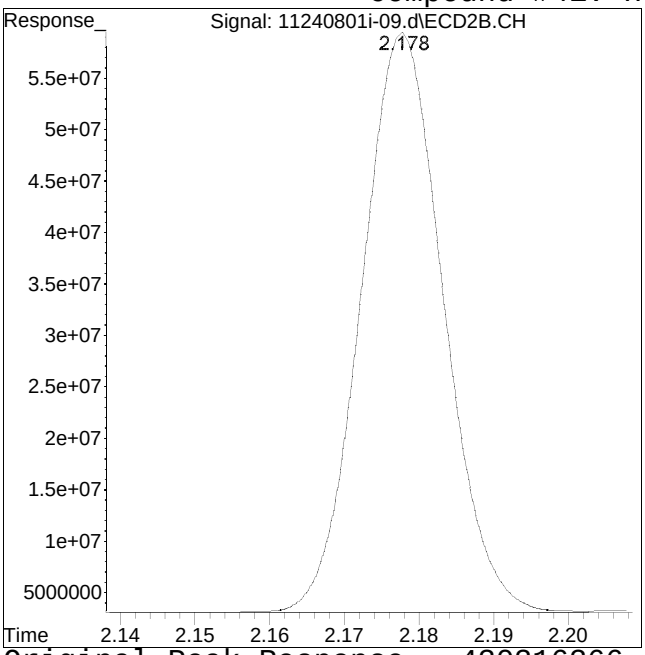


Original Peak Response = 652266128 Manual Peak Response = 634863657 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

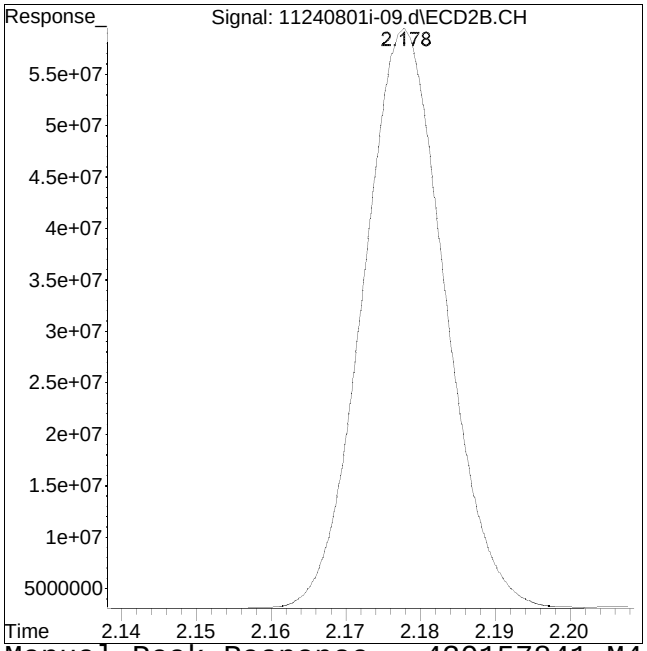
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 430316366



Manual Peak Response = 430157841 M4

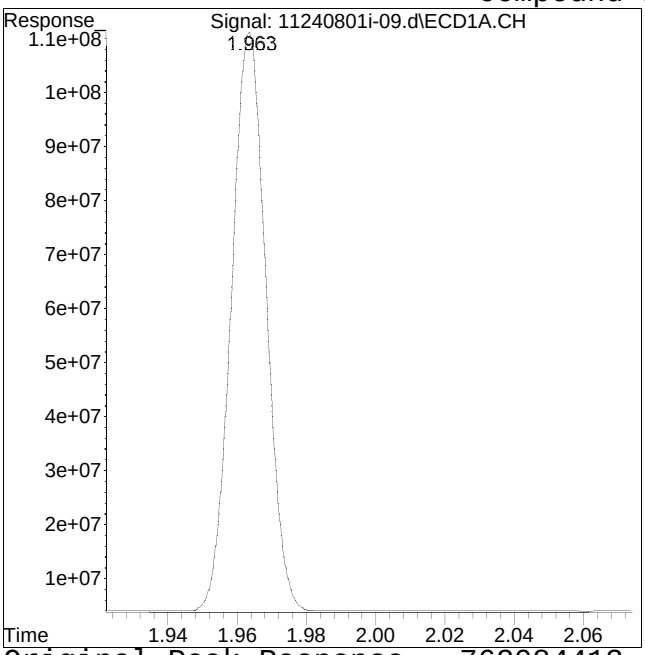
M4 = Poor automated baseline construction.

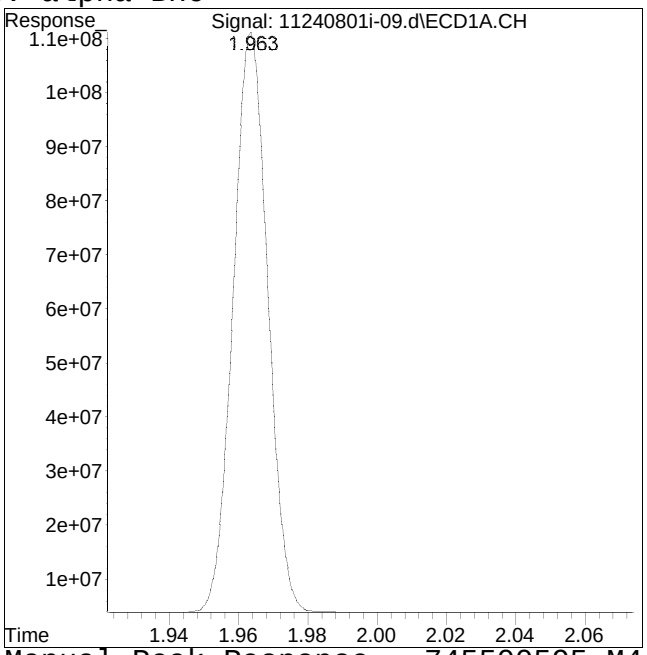
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #4: alpha-BHC



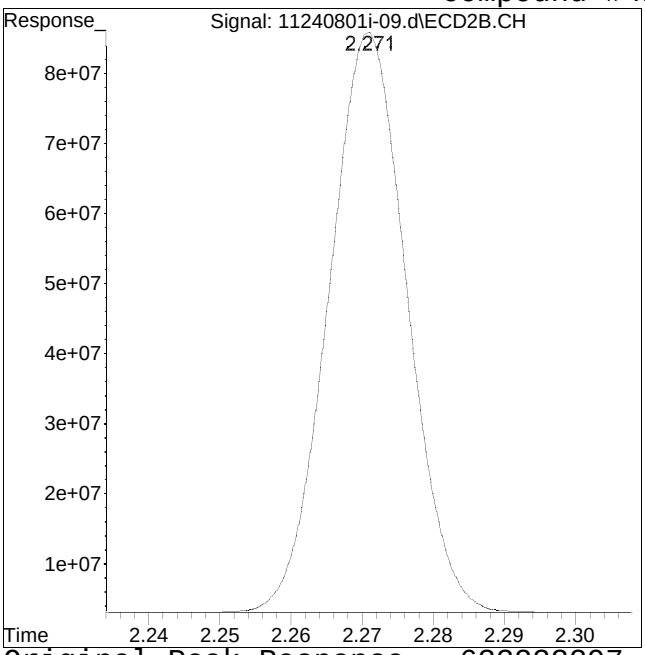


Original Peak Response = 762084413 Manual Peak Response = 745500595 M4
M4 = Poor automated baseline construction.

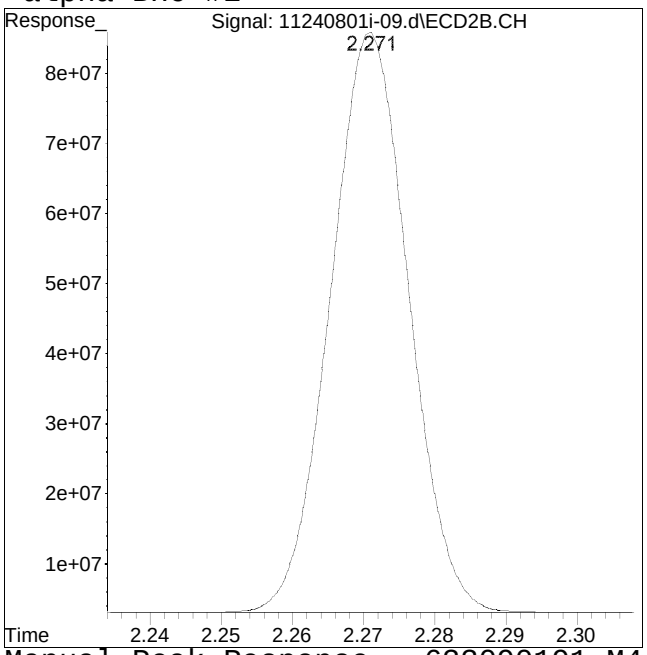
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #42: alpha-BHC #2



Original Peak Response = 633233297

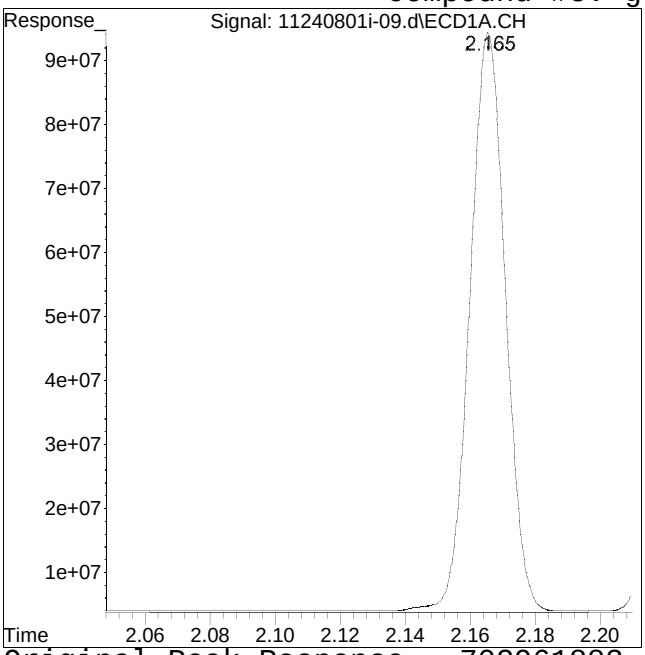


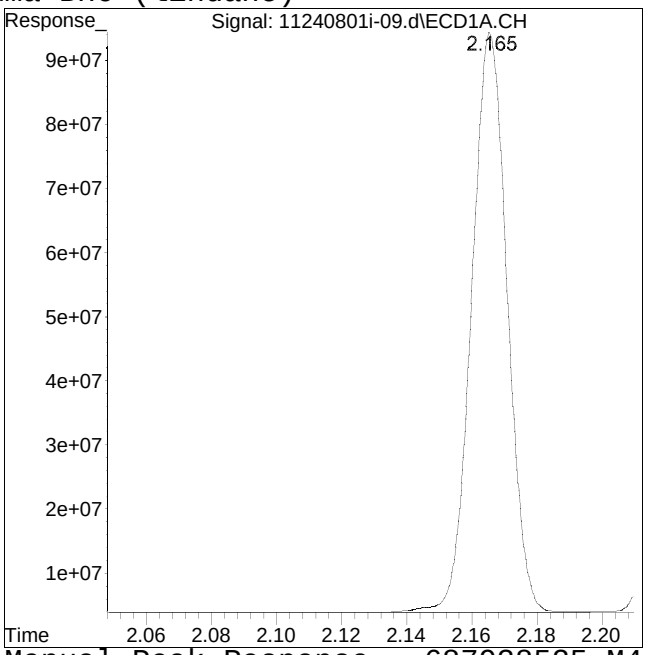
Manual Peak Response = 633090191 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #5: gamma-BHC (lindane)



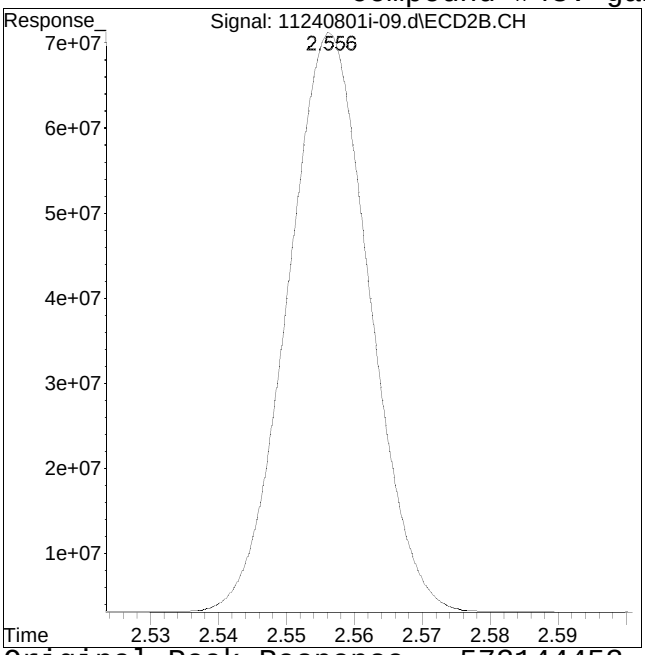


Original Peak Response = 702961883 Manual Peak Response = 687938525 M4
M4 = Poor automated baseline construction.

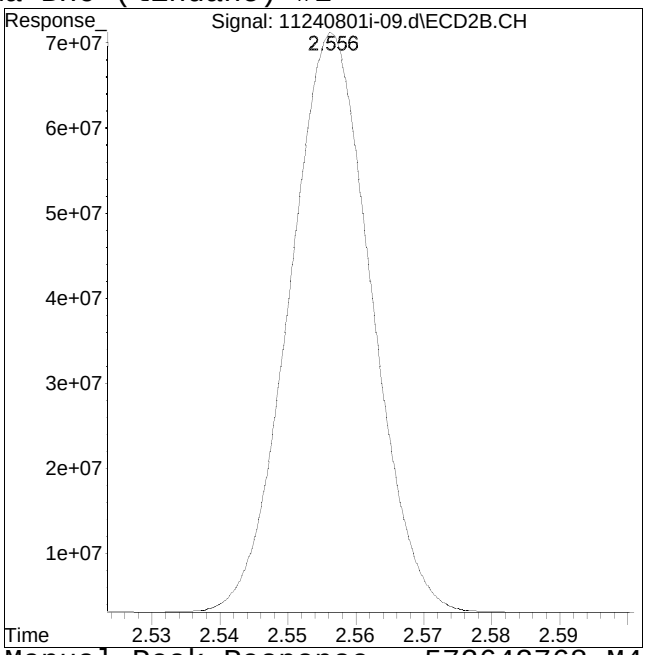
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 573144453

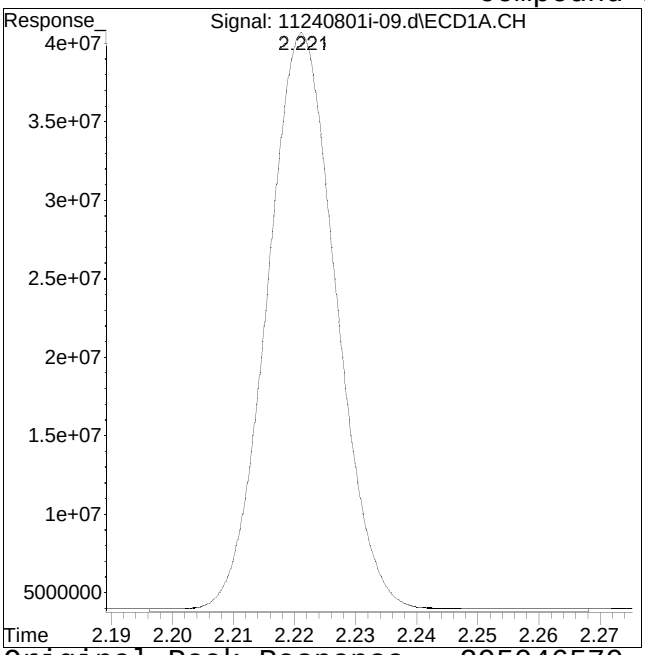


Manual Peak Response = 572642768 M4
M4 = Poor automated baseline construction.

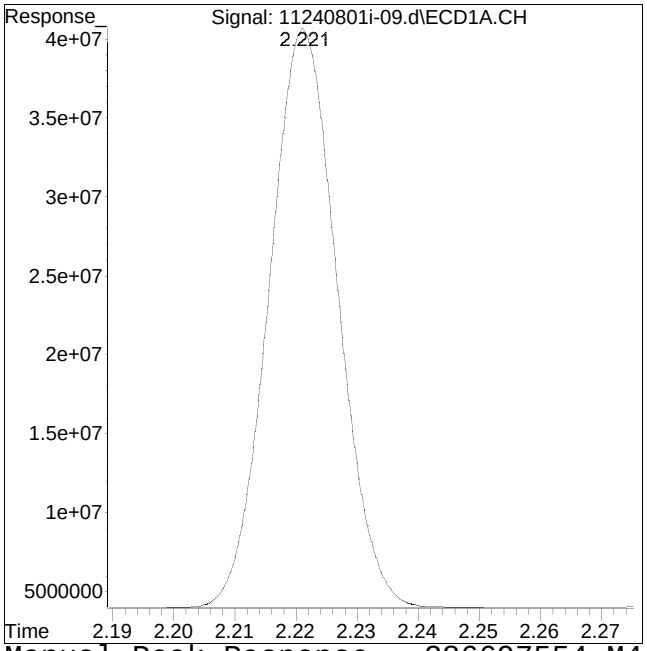
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #6: beta-BHC



Original Peak Response = 295046570



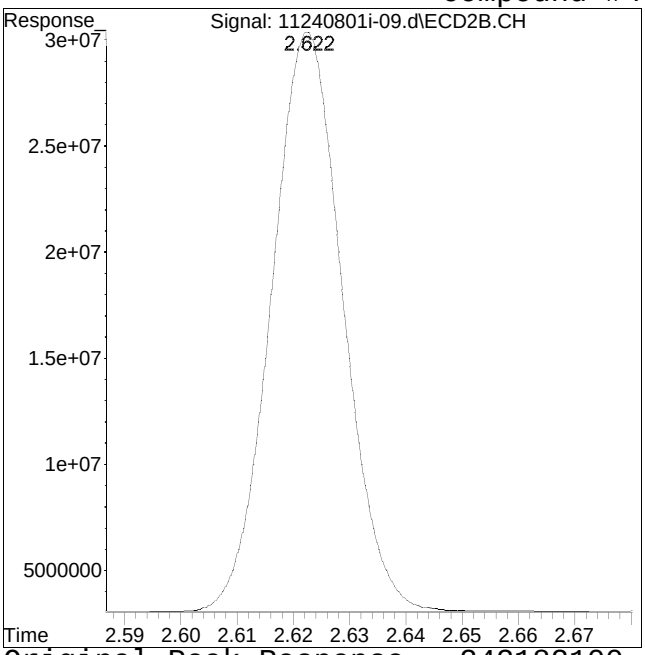
Manual Peak Response = 286697554 M4

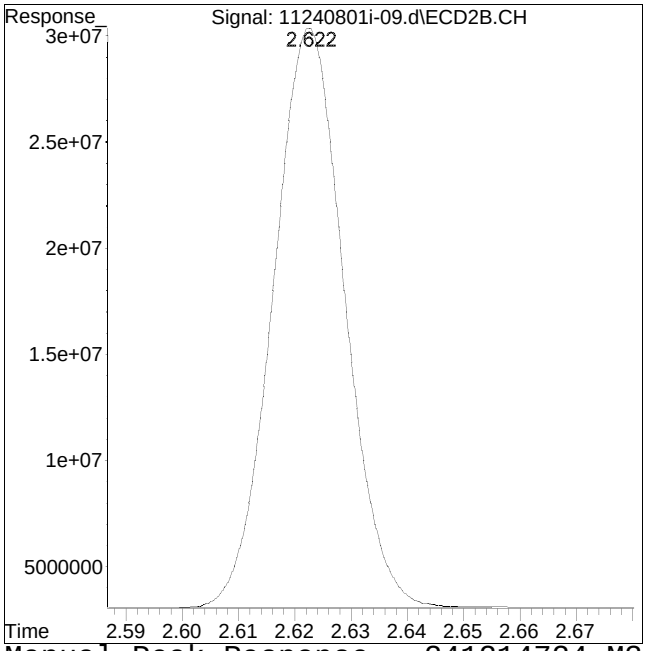
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #44: beta-BHC #2



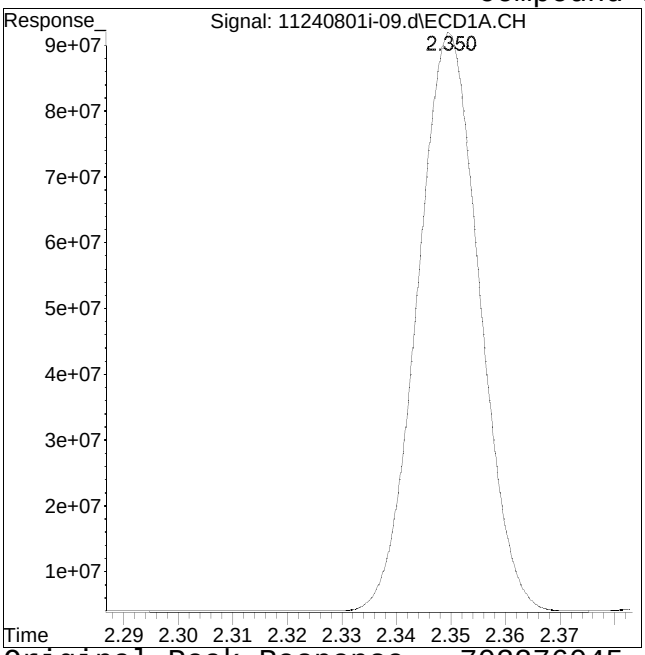


Original Peak Response = 242182100 Manual Peak Response = 241214724 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

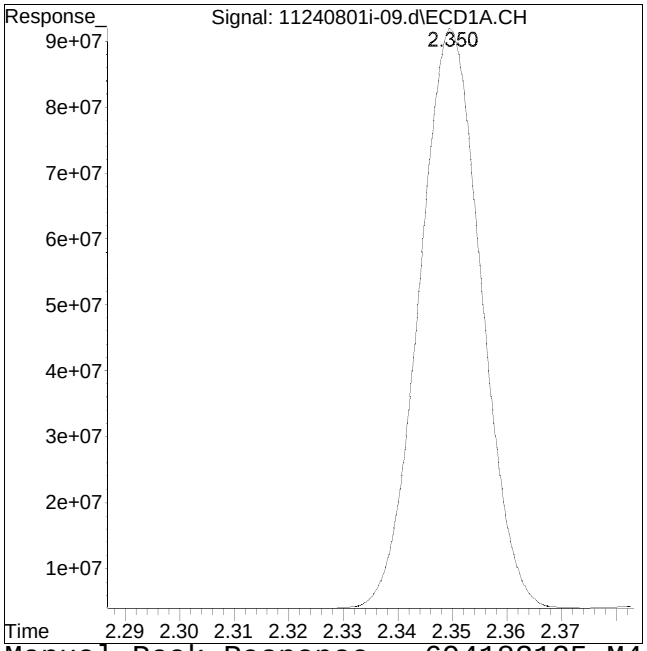
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #7: delta-BHC



Original Peak Response = 703276045



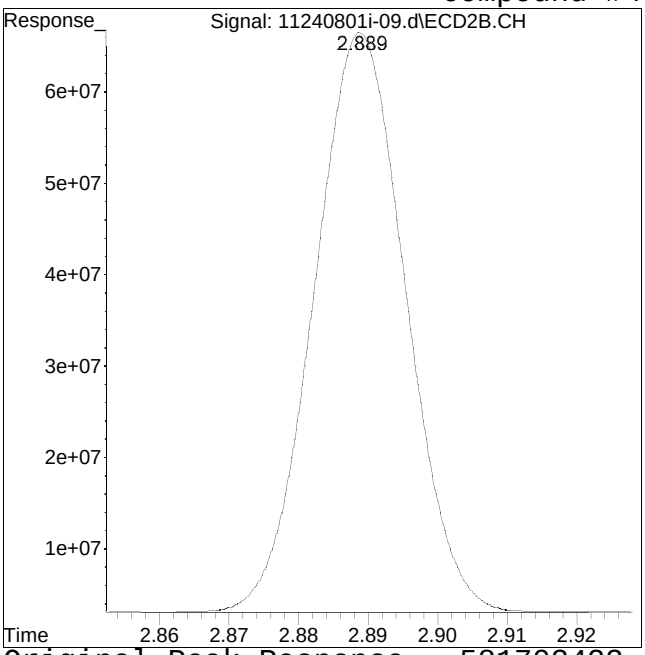
Manual Peak Response = 694183125 M4

M4 = Poor automated baseline construction.

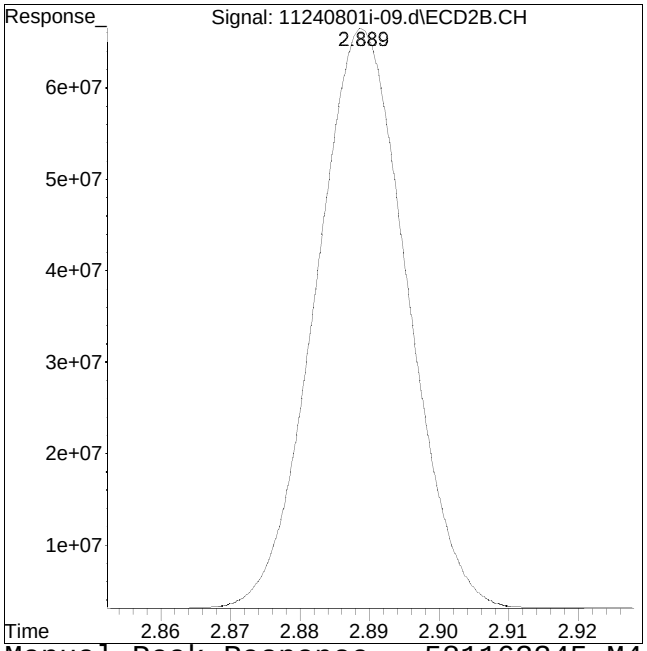
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #45: delta-BHC #2



Original Peak Response = 581702423



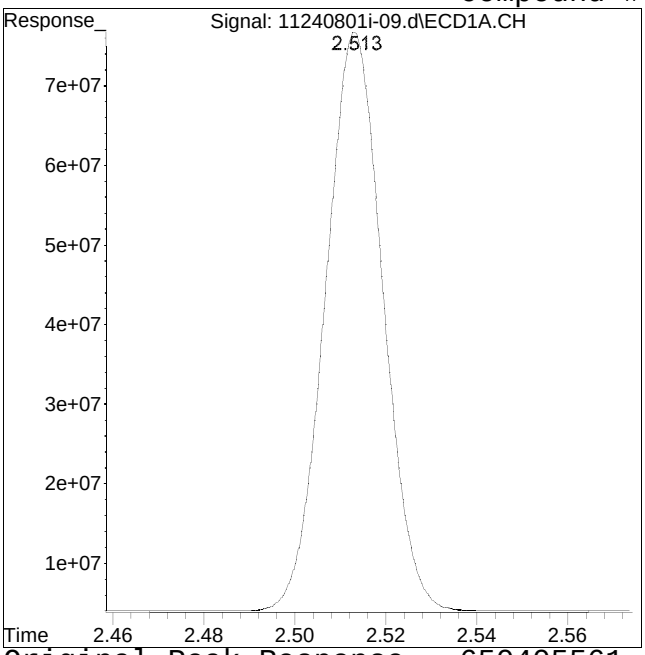
Manual Peak Response = 581163345 M4

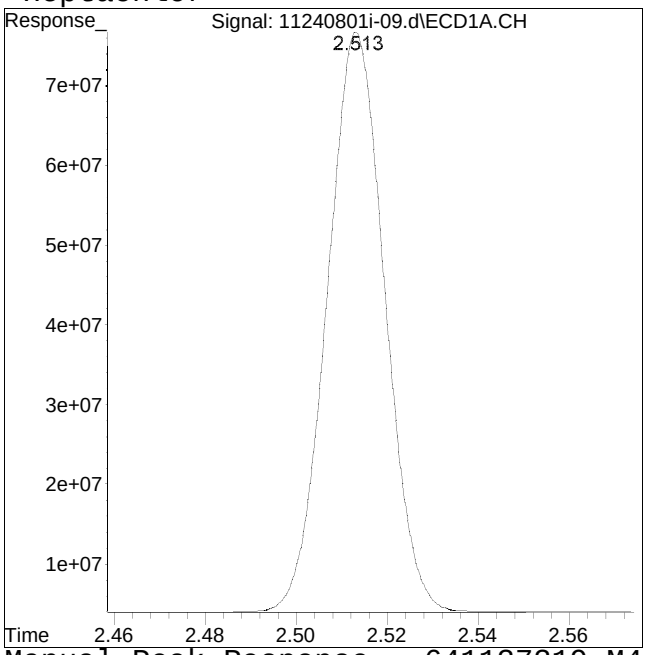
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #8: Heptachlor



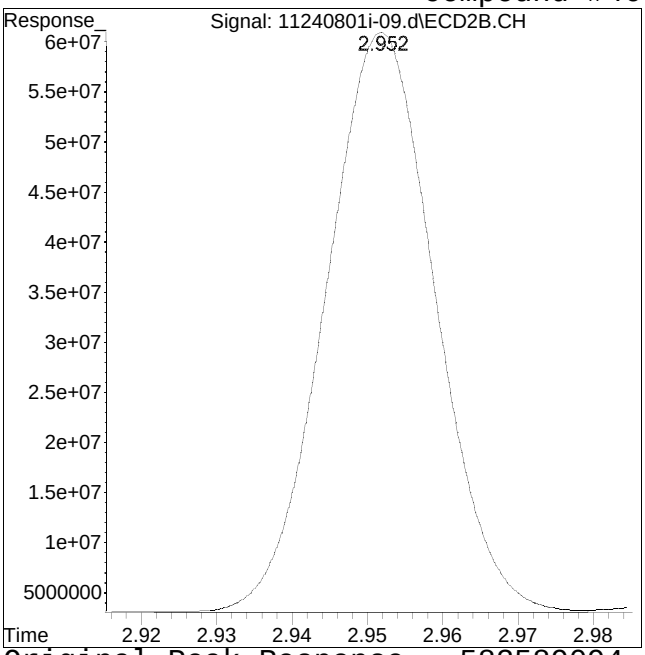


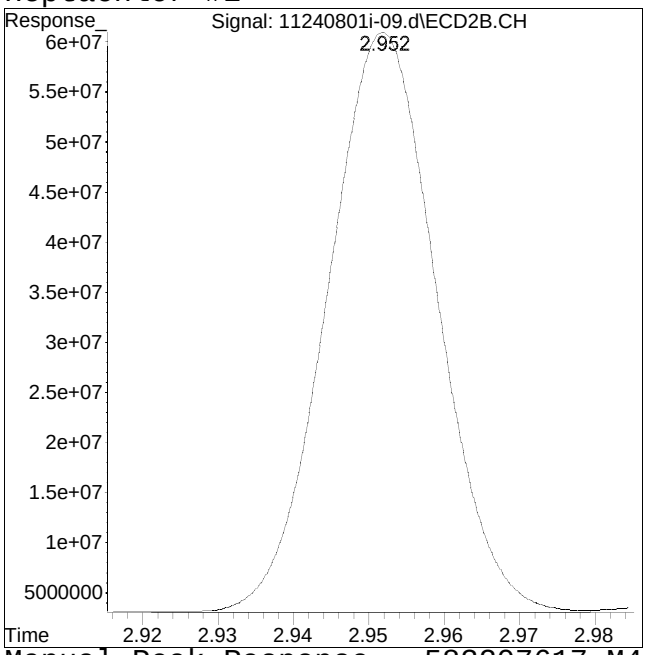
Original Peak Response = 650405561 Manual Peak Response = 641137319 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #46: Heptachlor #2



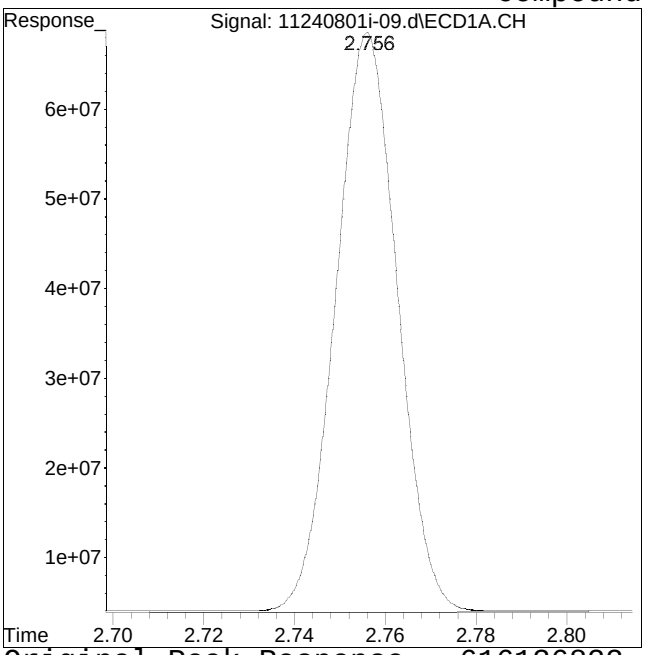


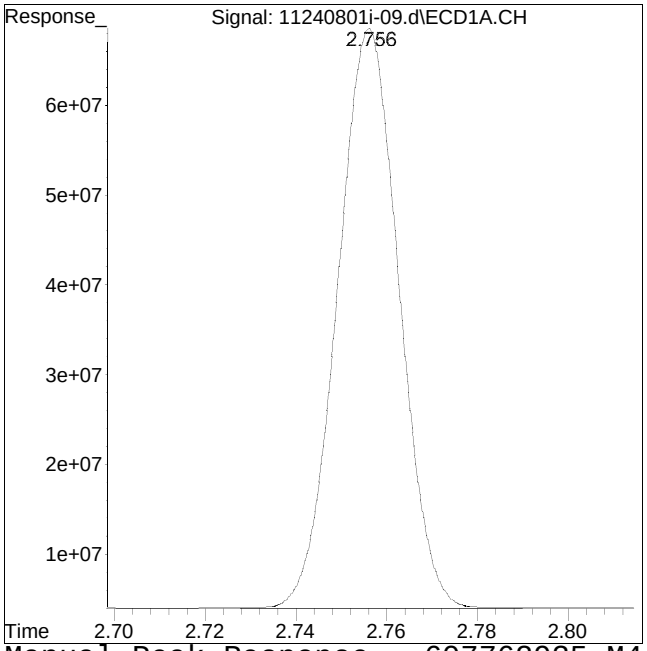
Original Peak Response = 583589094 Manual Peak Response = 583207617 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #9: Aldrin





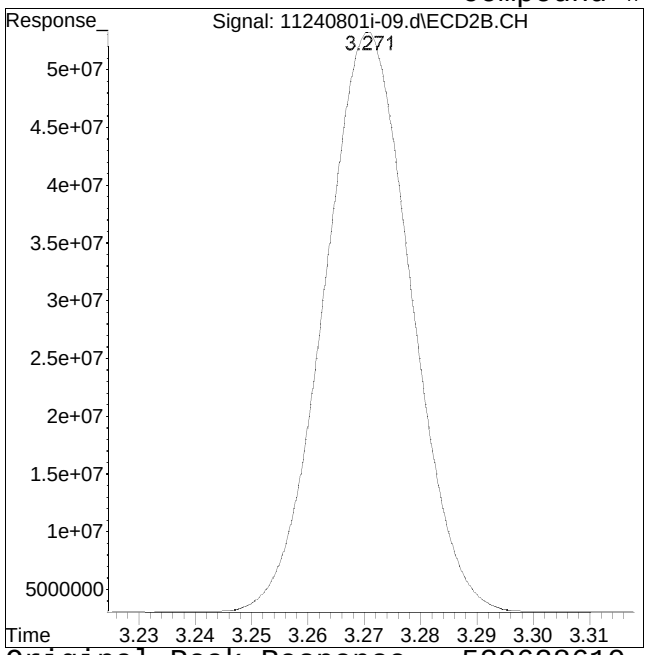
Original Peak Response = 616136822 Manual Peak Response = 607762935 M4
M4 = Poor automated baseline construction.

Manual Integration Report

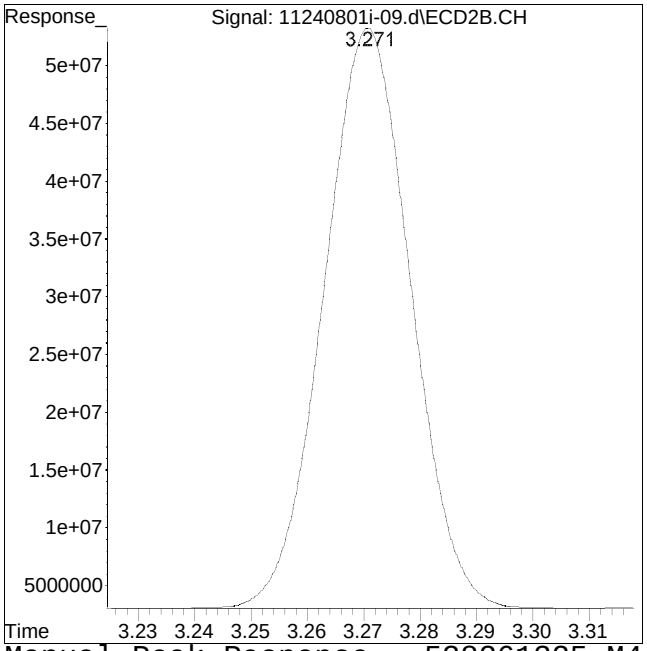
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #47: Aldrin #2



Original Peak Response = 538628610



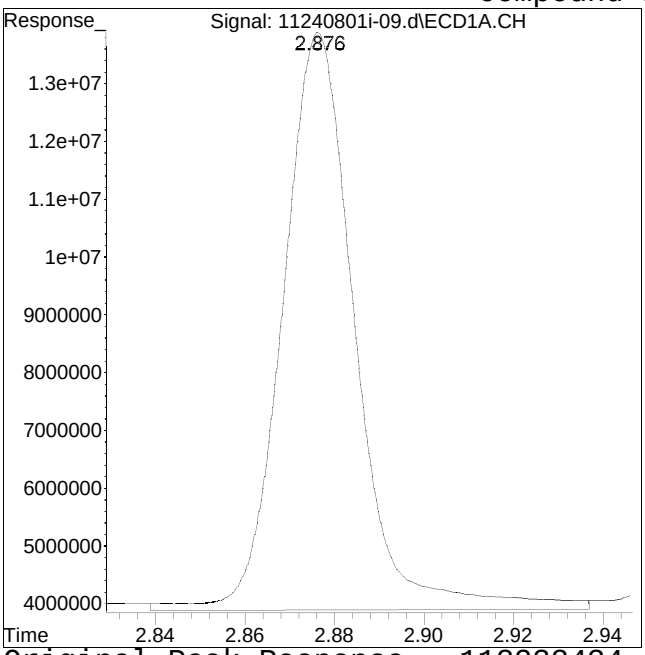
Manual Peak Response = 538261325 M4

M4 = Poor automated baseline construction.

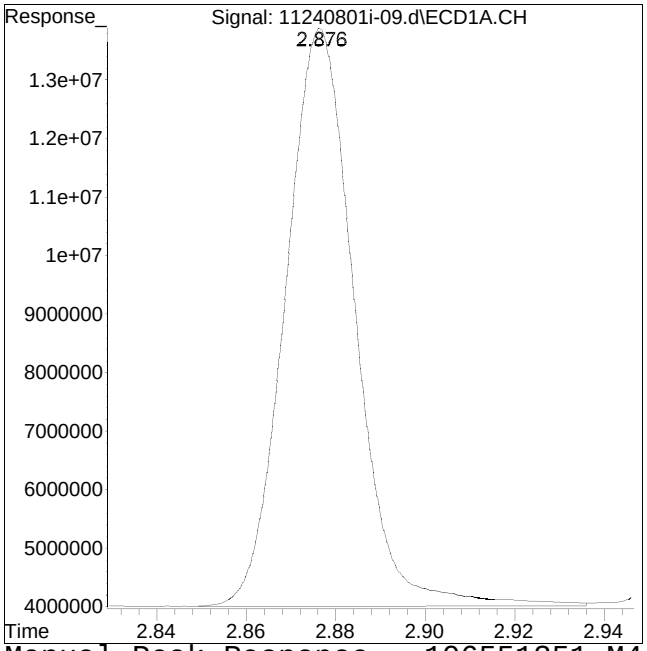
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #10: Alachlor



Original Peak Response = 113232434

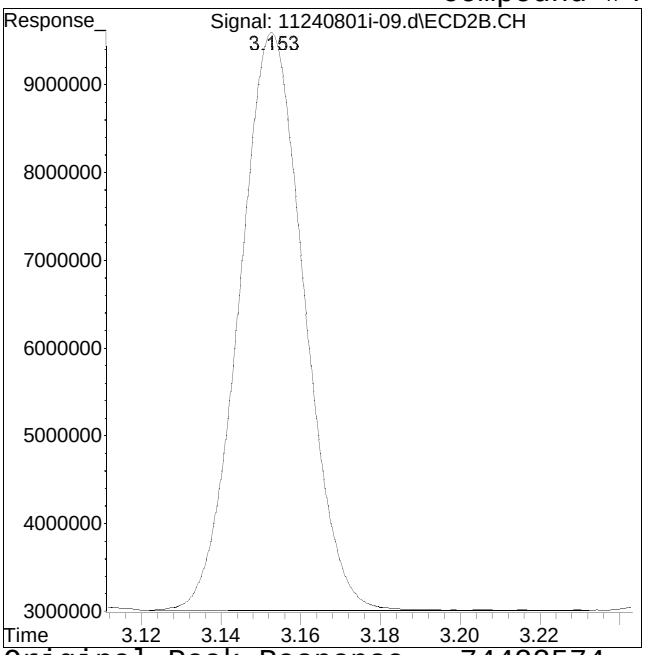


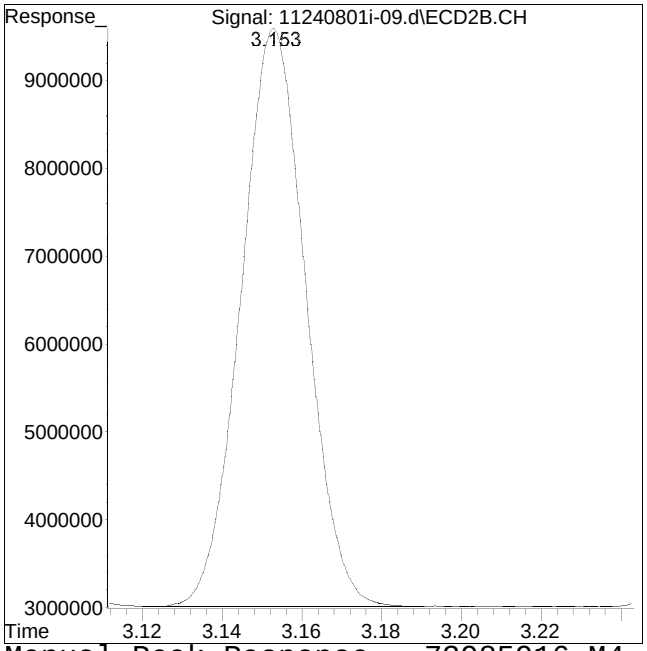
Manual Peak Response = 106551351 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #48: Alachlor #2



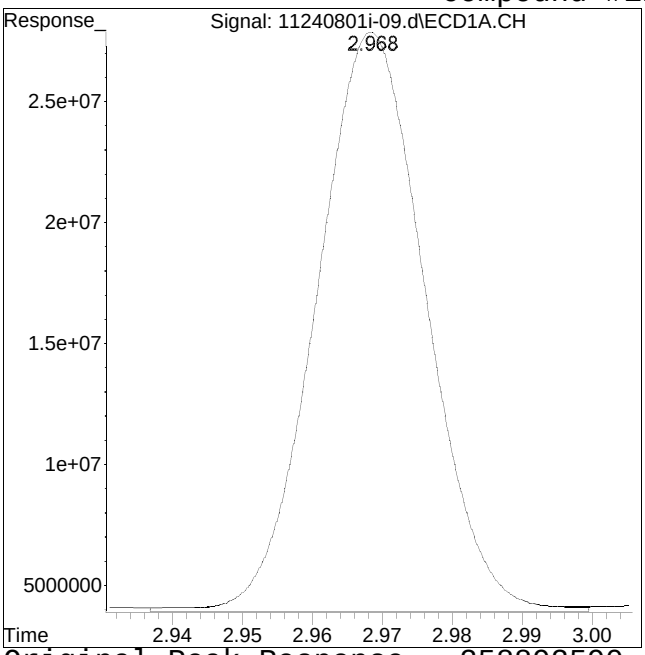


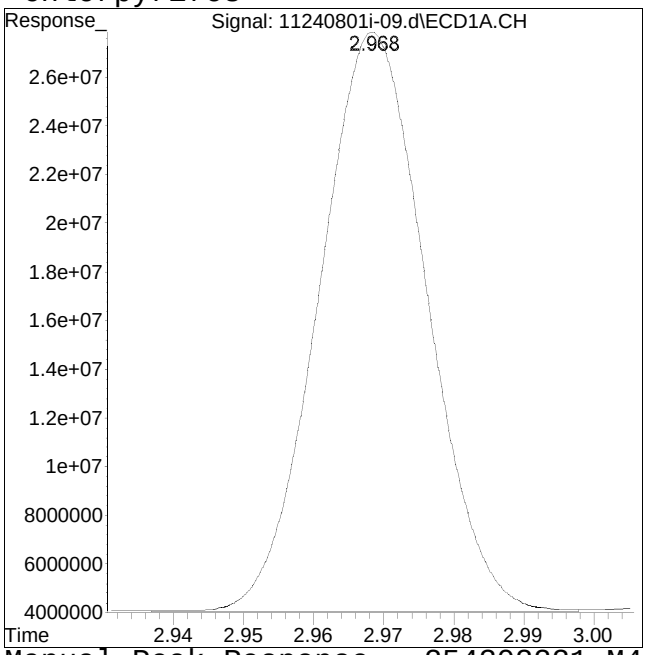
Original Peak Response = 74422574 Manual Peak Response = 73985916 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #11: Chlorpyrifos



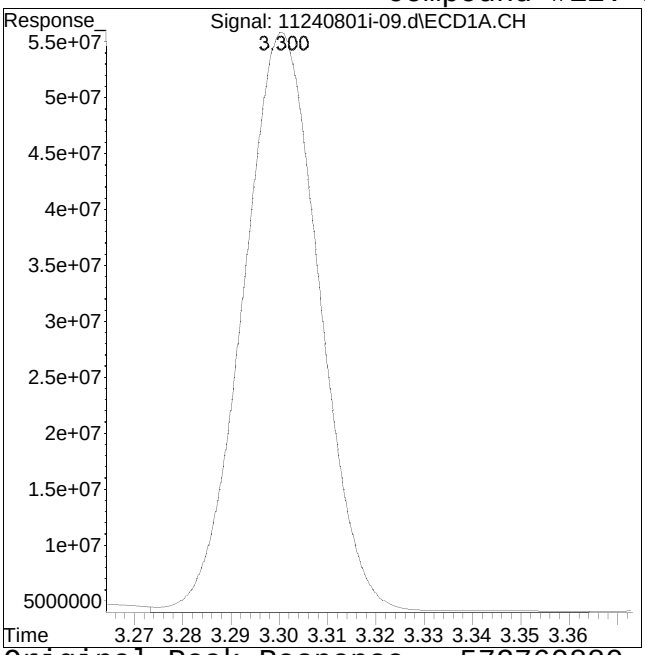


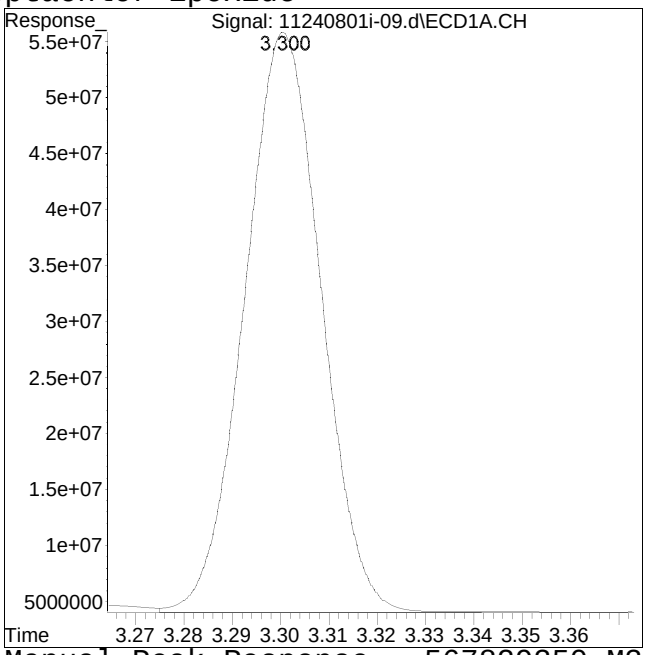
Original Peak Response = 258892590 Manual Peak Response = 254302221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #12: Heptachlor Epoxide



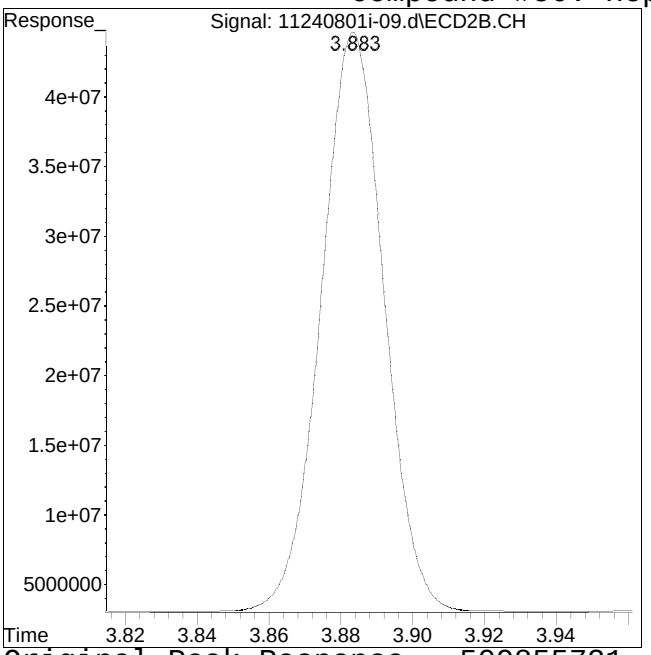


Original Peak Response = 572760880 Manual Peak Response = 567829350 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

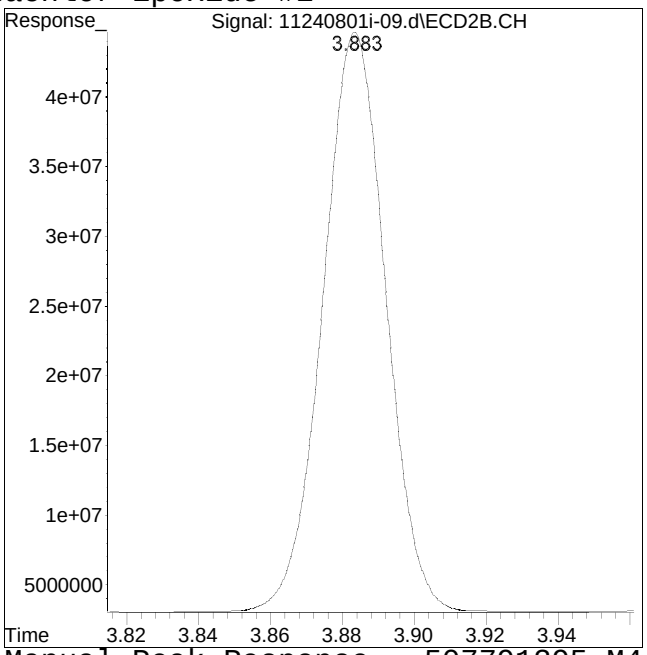
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 509855721



Manual Peak Response = 507791395 M4

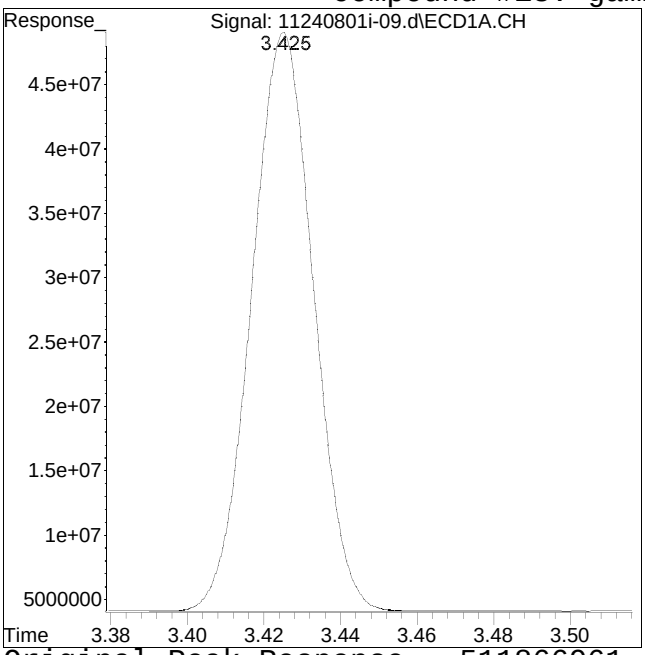
M4 = Poor automated baseline construction.

Manual Integration Report

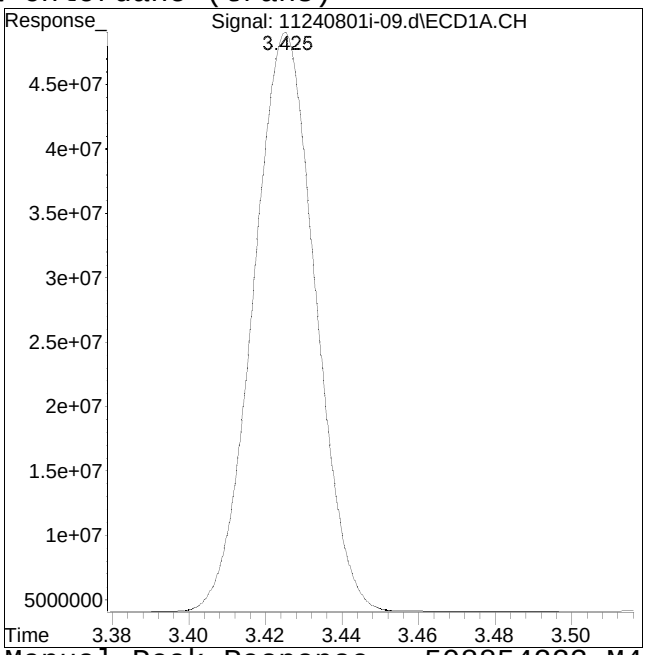
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 511866961



Manual Peak Response = 508854223 M4

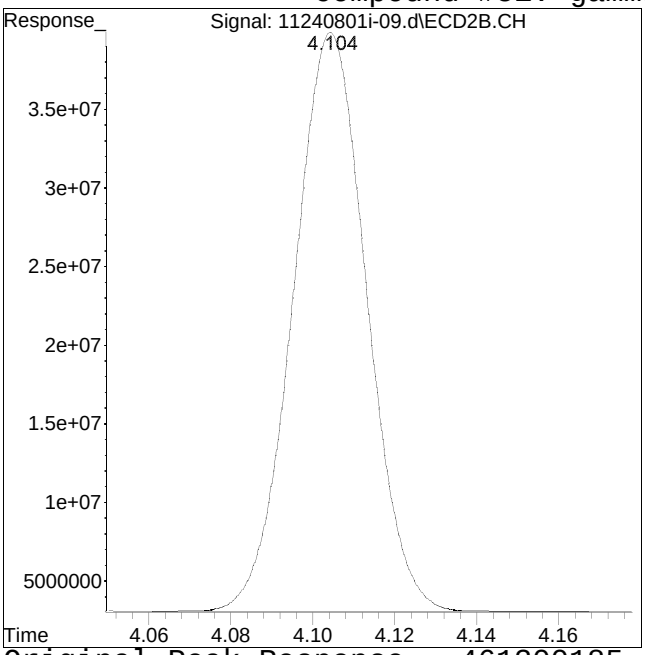
M4 = Poor automated baseline construction.

Manual Integration Report

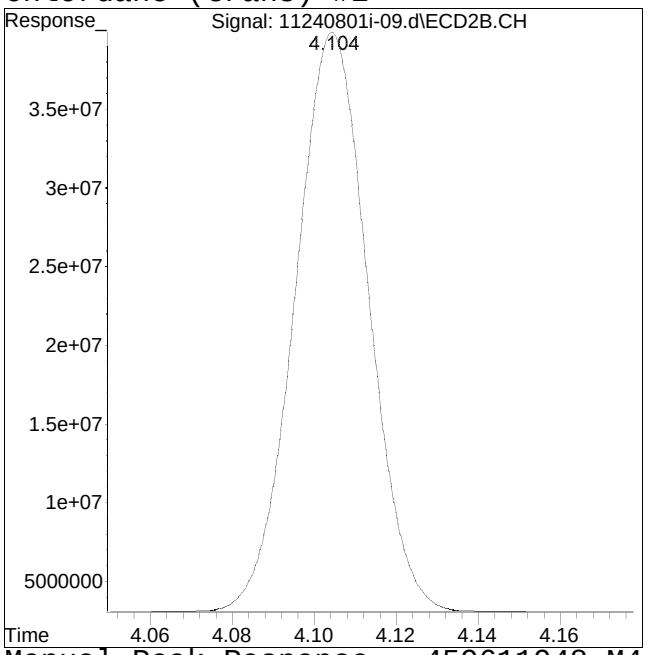
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 461300185



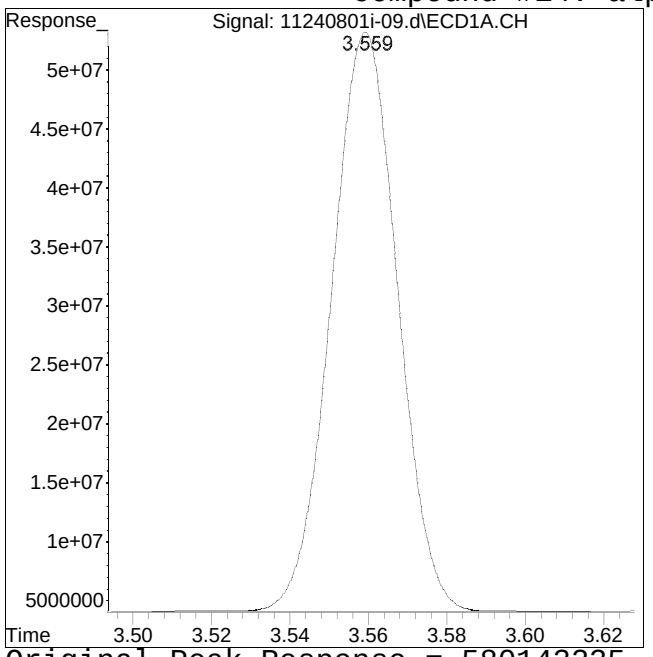
Manual Peak Response = 459611948 M4

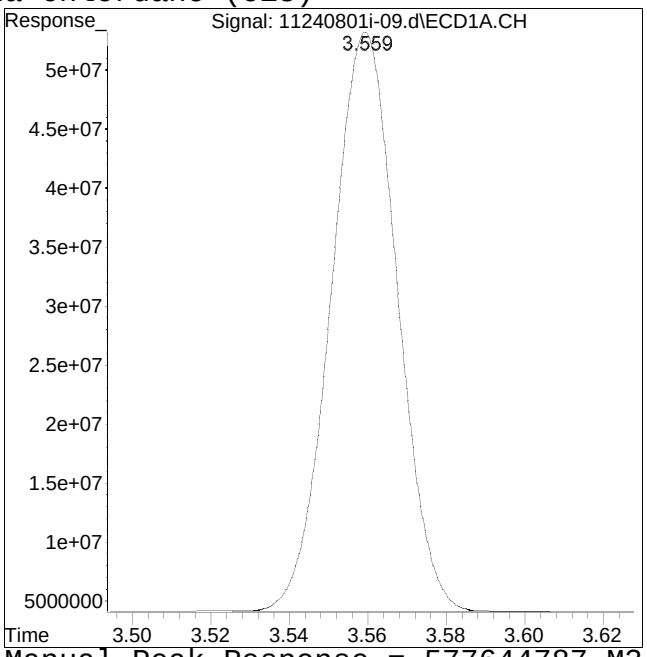
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #14: alpha-Chlordane (cis)



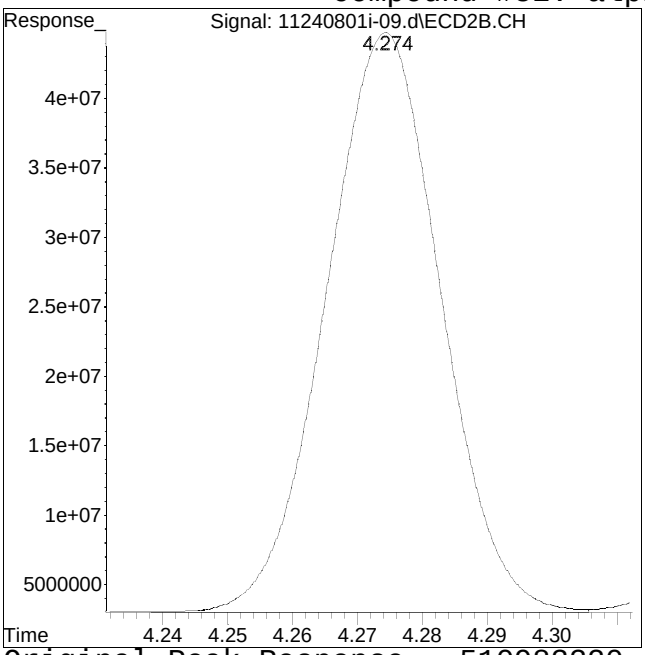


Original Peak Response = 580143235 Manual Peak Response = 577644787 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

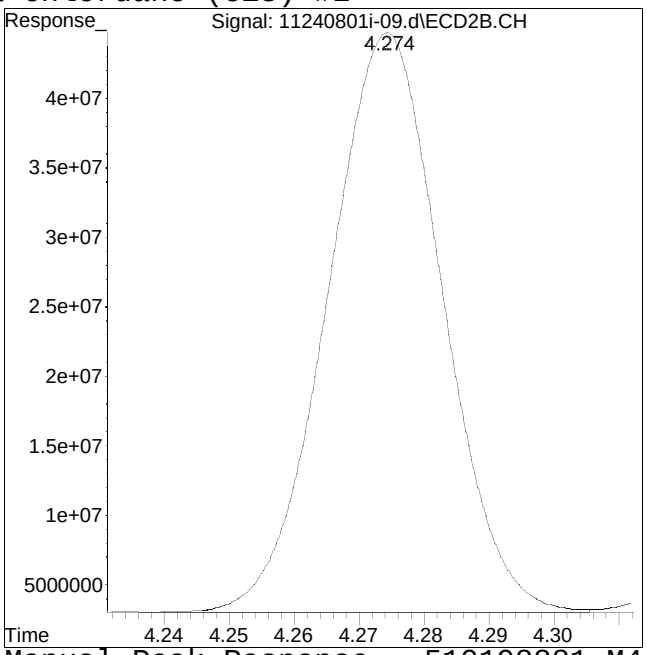
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 510983320



Manual Peak Response = 510198881 M4

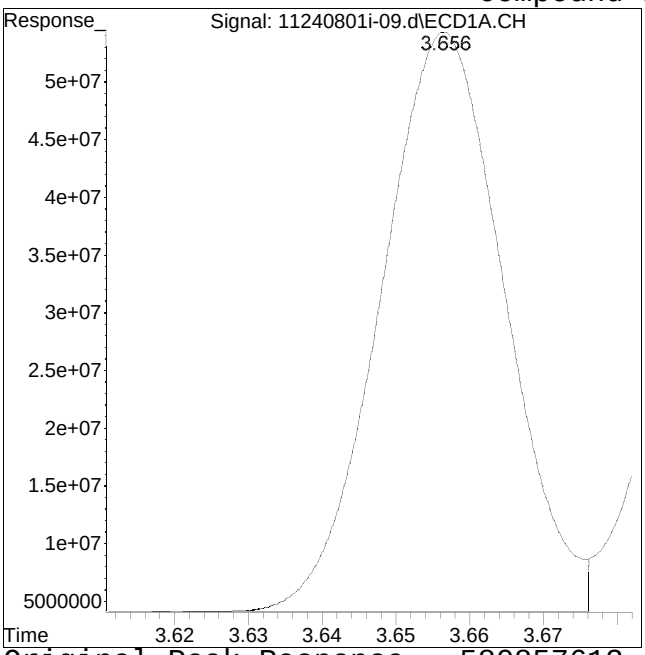
M4 = Poor automated baseline construction.

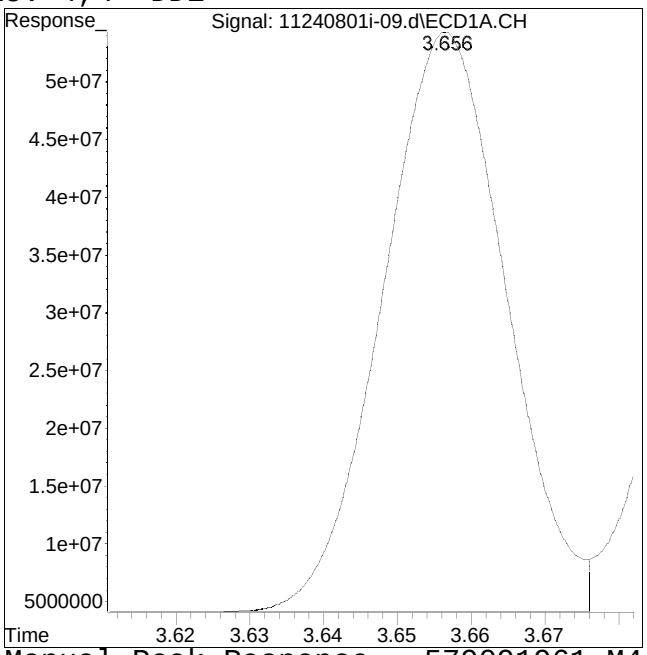
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #15: 4,4'-DDE



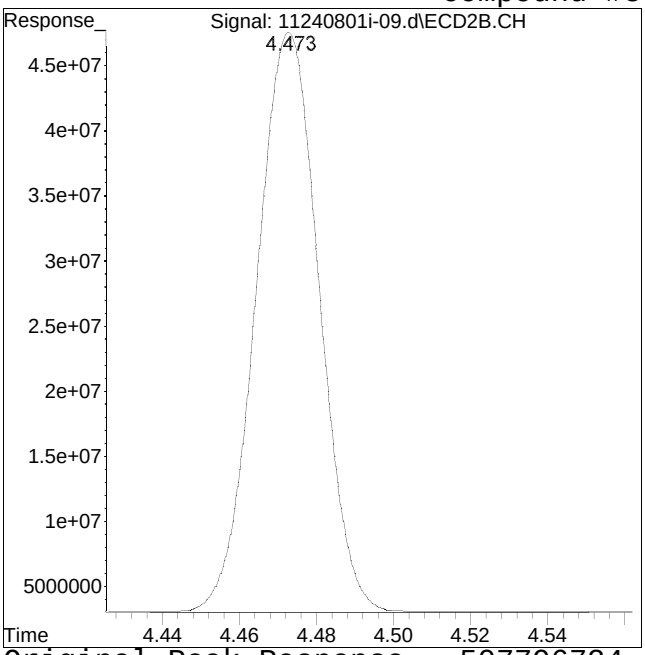


Original Peak Response = 580857613 Manual Peak Response = 579091961 M4
M4 = Poor automated baseline construction.

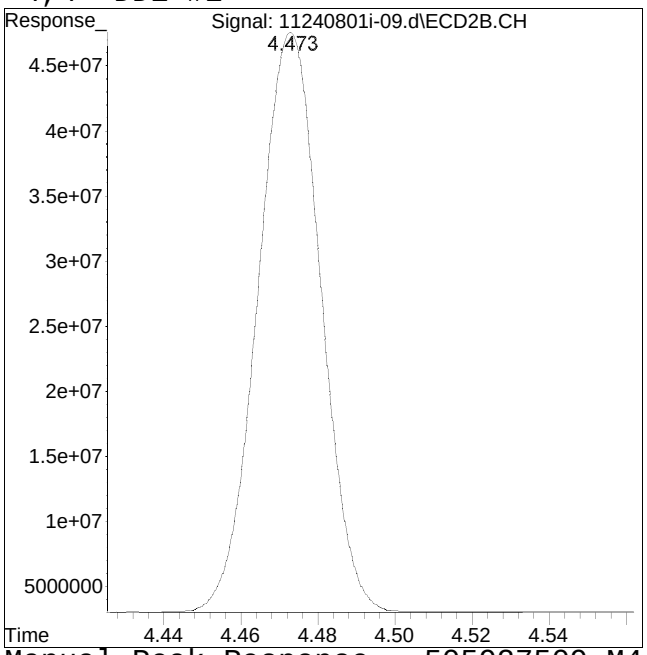
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 507796724



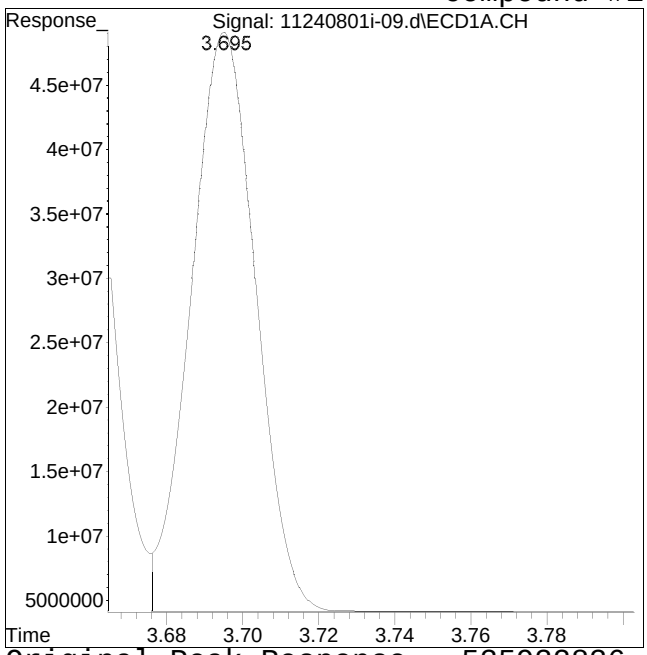
Manual Peak Response = 505927509 M4

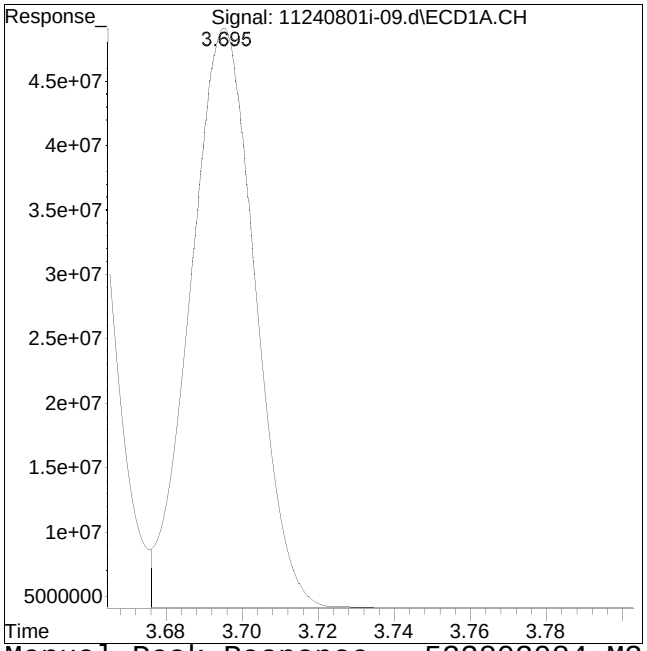
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #16: Endosulfan I



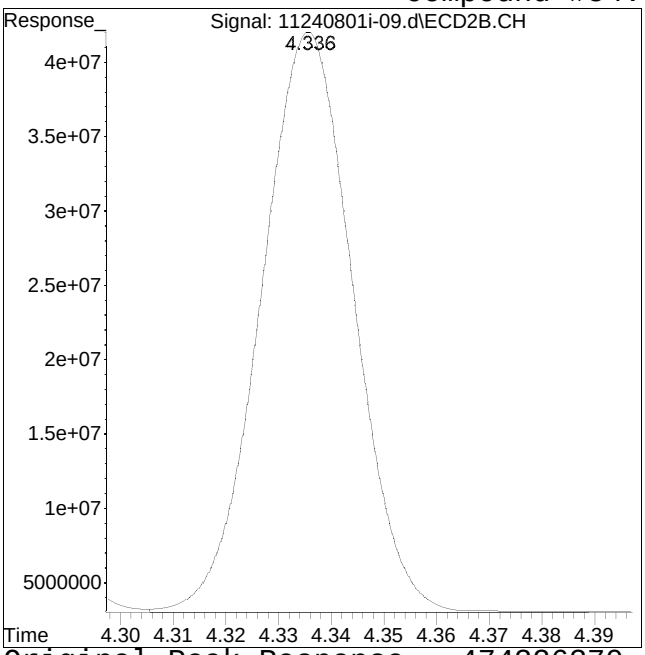


Original Peak Response = 535932836 Manual Peak Response = 533803084 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

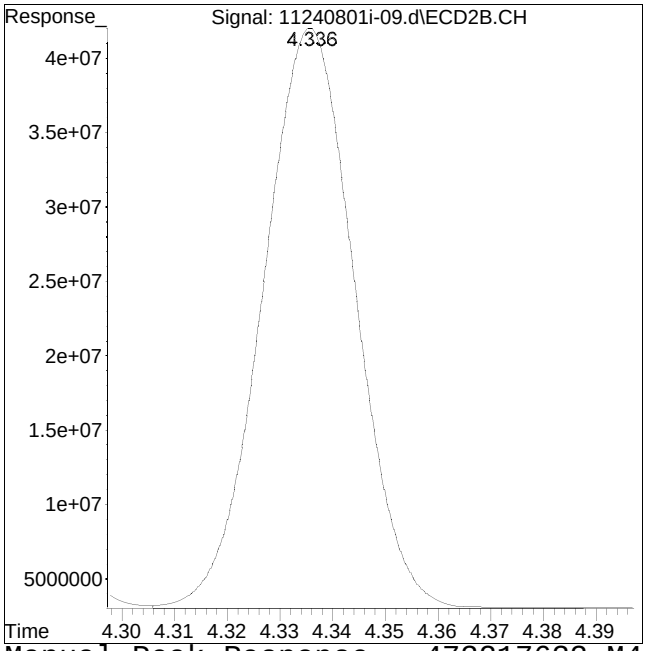
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #54: Endosulfan I #2



Original Peak Response = 474326370



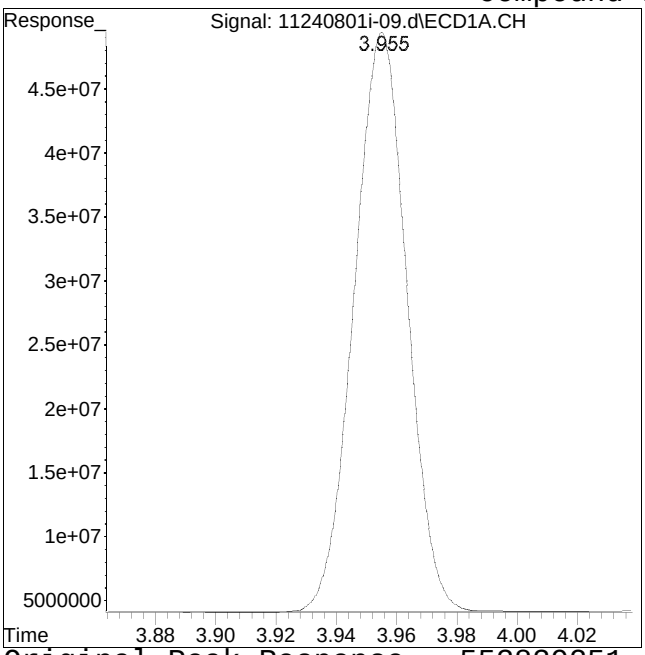
Manual Peak Response = 473217633 M4

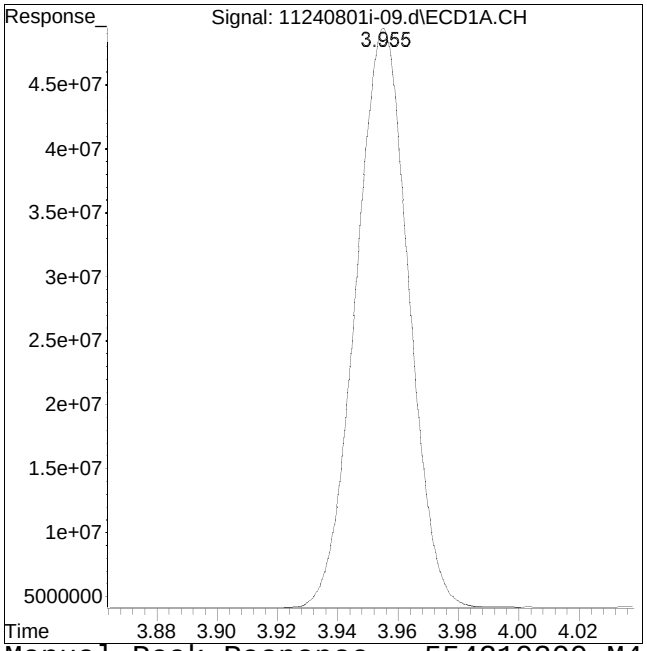
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #17: Dieldrin



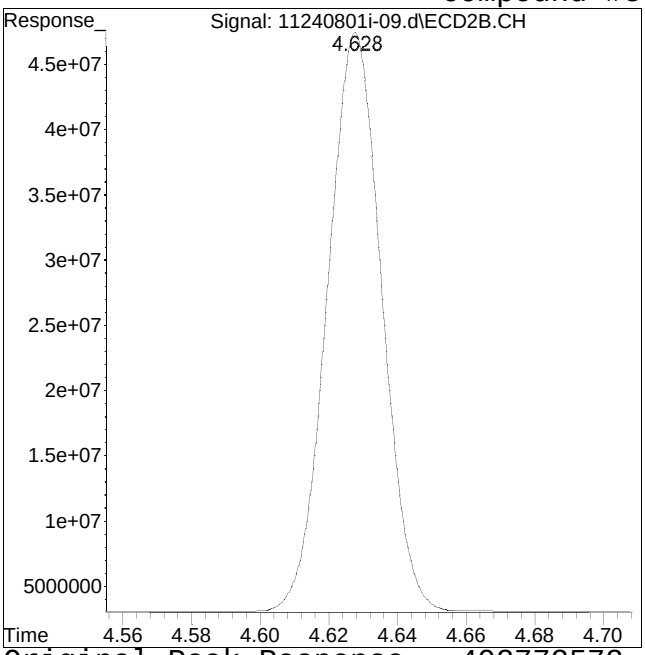


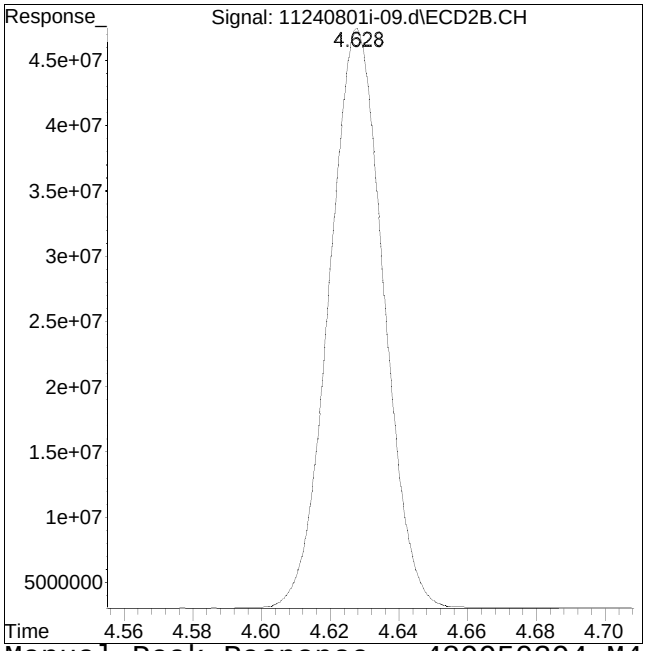
Original Peak Response = 553839251 Manual Peak Response = 554210200 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #55: Dieldrin #2



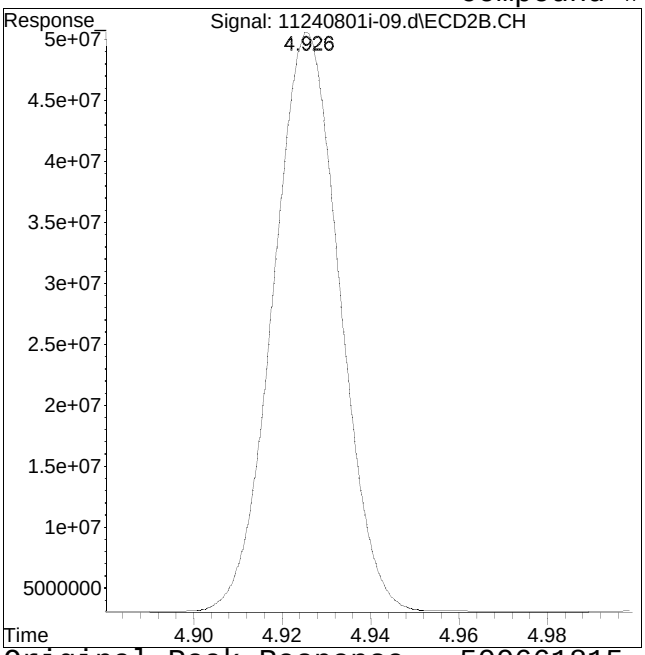


Original Peak Response = 492772572 Manual Peak Response = 489950394 M4
M4 = Poor automated baseline construction.

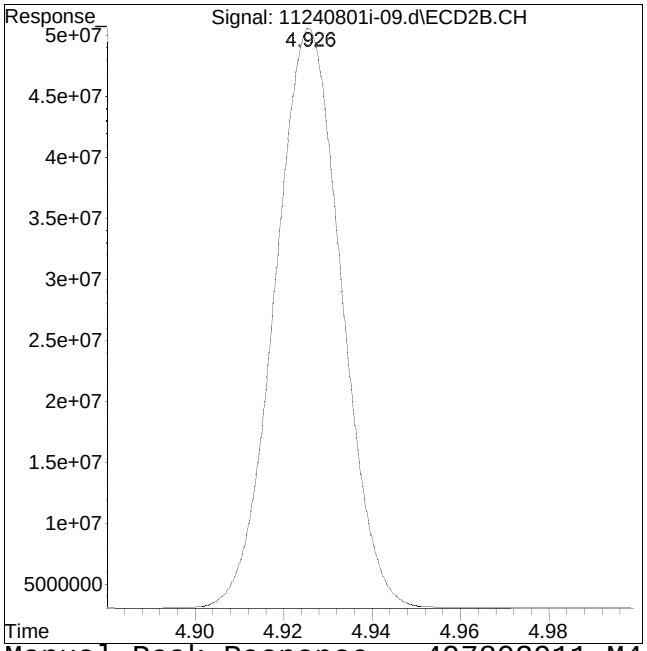
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #56: Endrin #2



Original Peak Response = 500661815



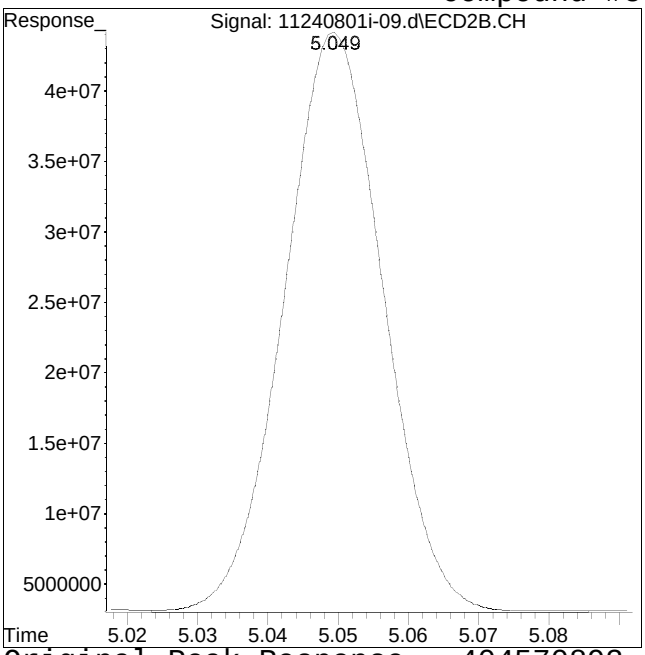
Manual Peak Response = 497803911 M4

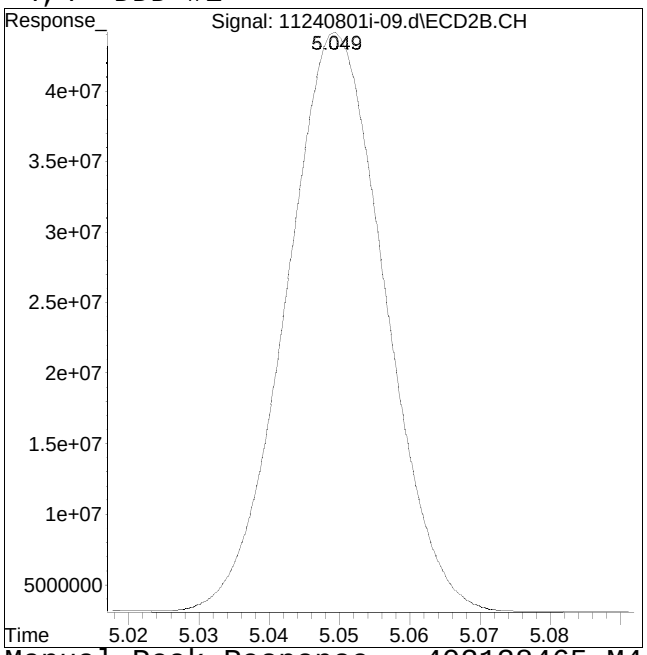
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #57: 4,4'-DDD #2



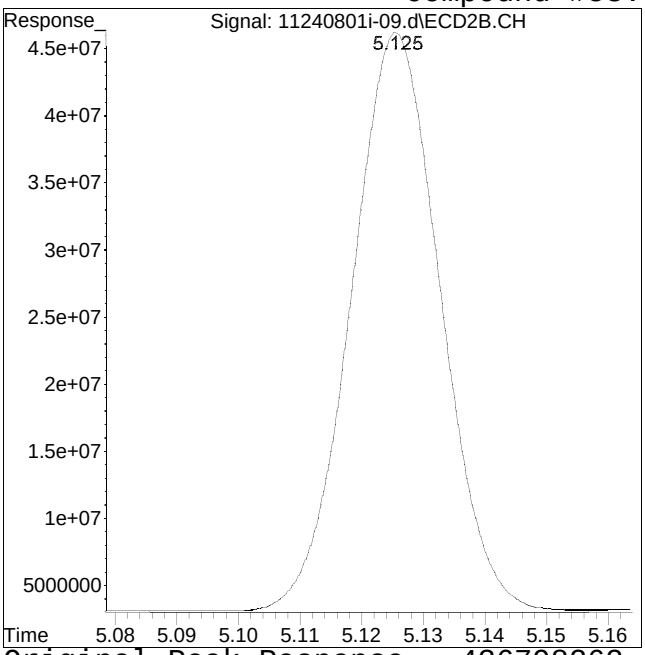


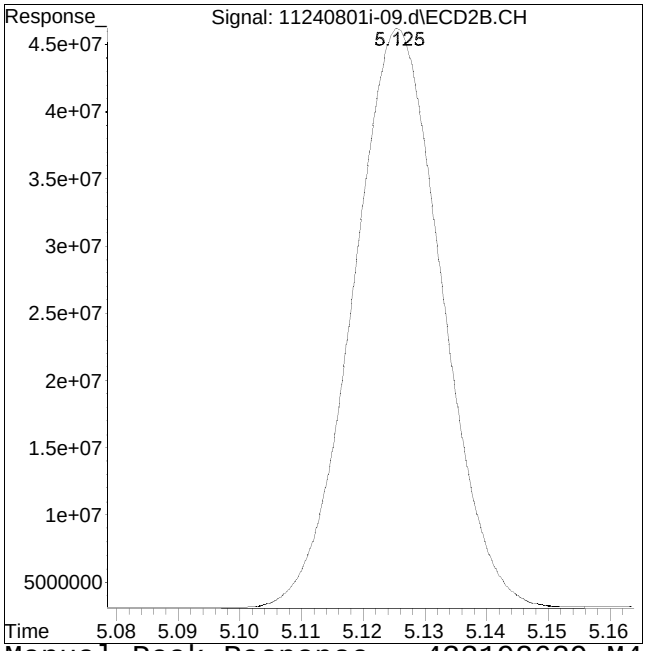
Original Peak Response = 404570893 Manual Peak Response = 402138465 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #58: Endosulfan II #2



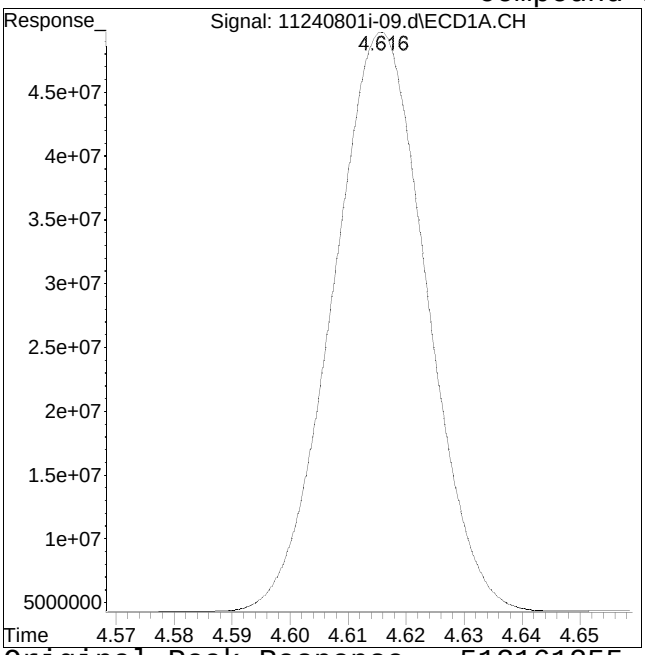


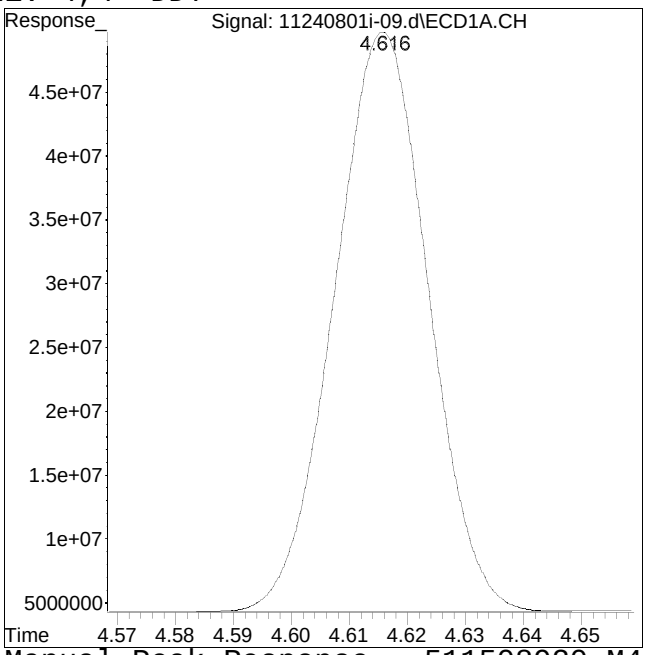
Original Peak Response = 436798262 Manual Peak Response = 433192639 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #21: 4,4'-DDT



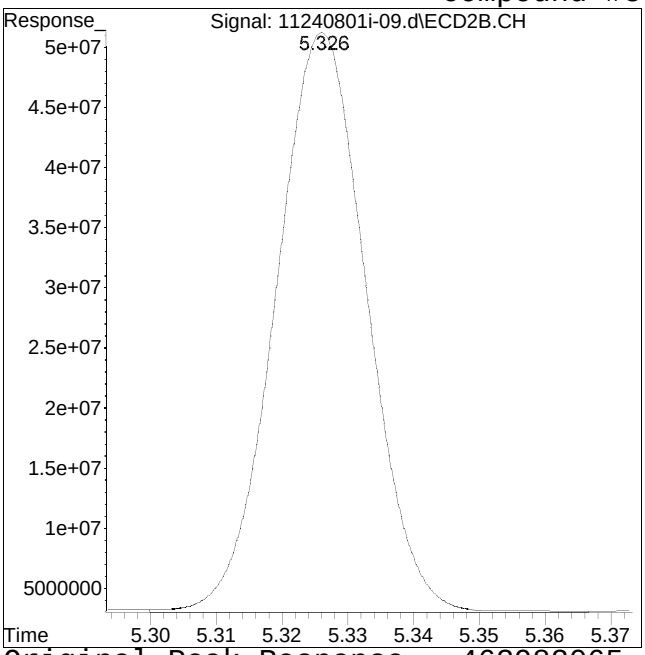


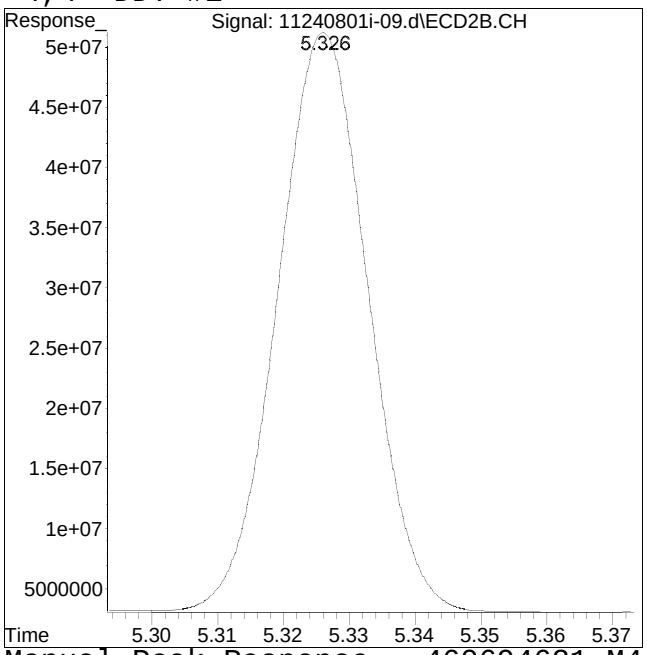
Original Peak Response = 512161255 Manual Peak Response = 511508920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #59: 4,4'-DDT #2



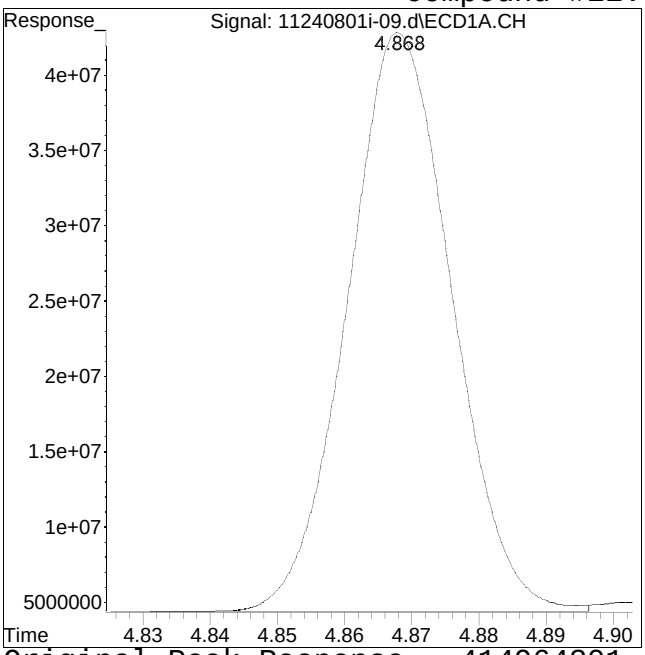


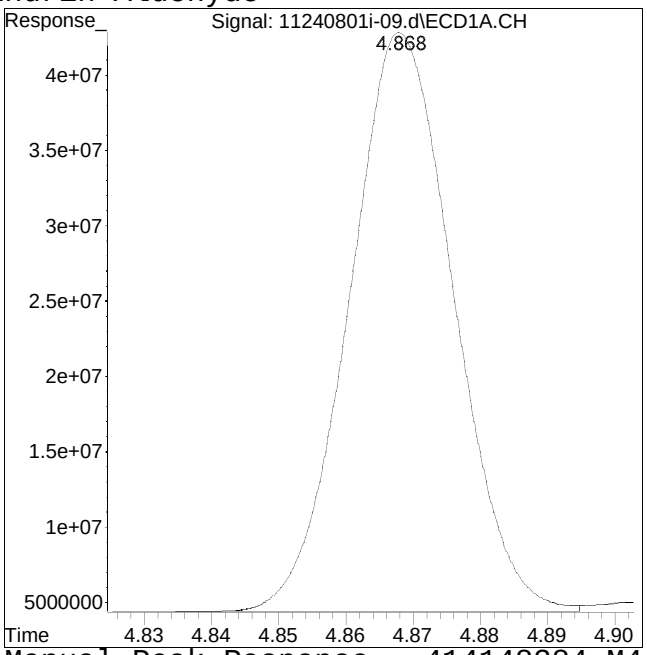
Original Peak Response = 463982065 Manual Peak Response = 460694621 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #22: Endrin Aldehyde



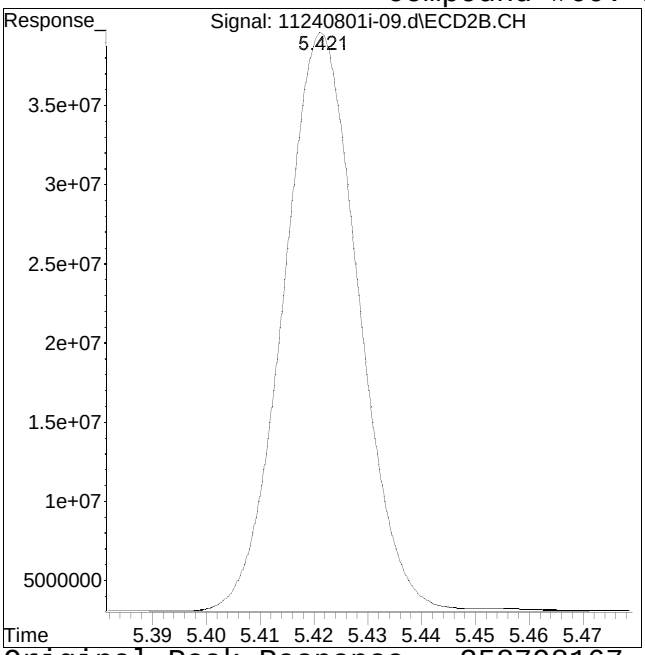


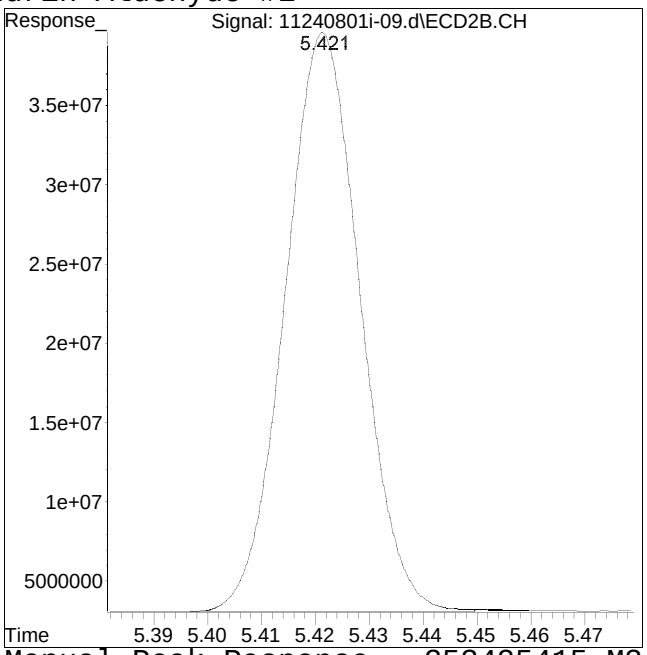
Original Peak Response = 414964301 Manual Peak Response = 414148384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #60: Endrin Aldehyde #2





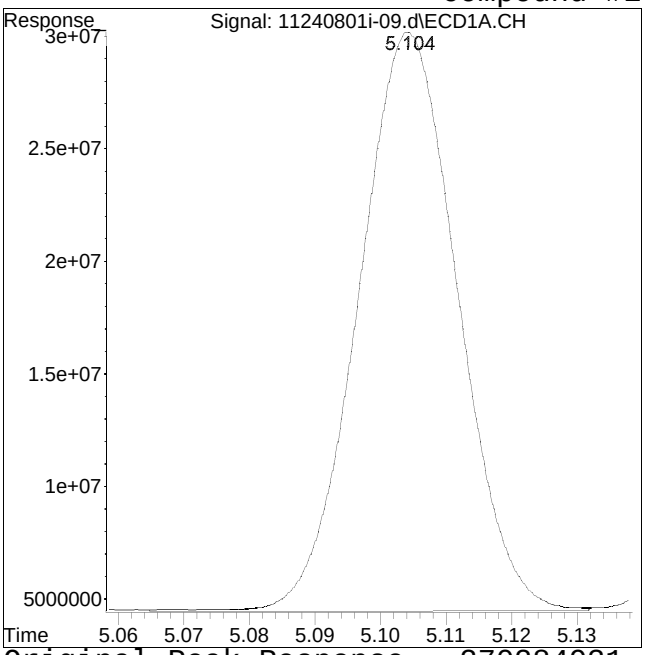
Original Peak Response = 358798167 Manual Peak Response = 353425415 M3

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

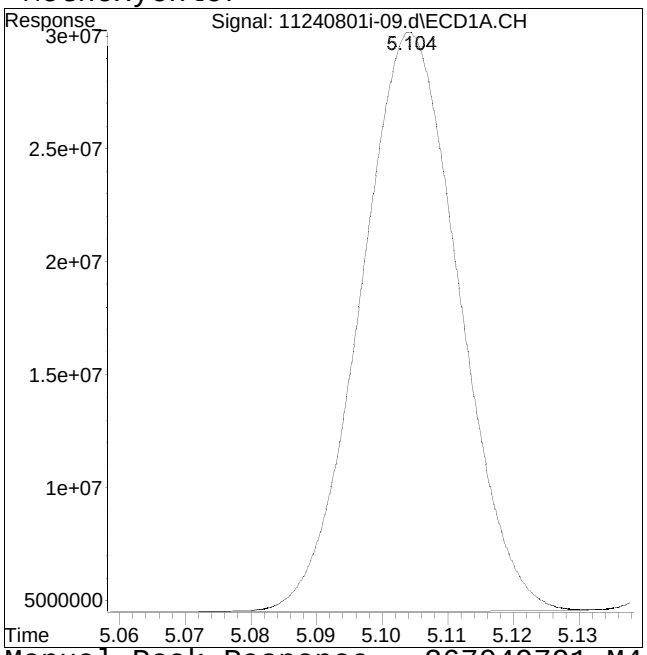
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #23: Methoxychlor



Original Peak Response = 270284931



Manual Peak Response = 267049791 M4

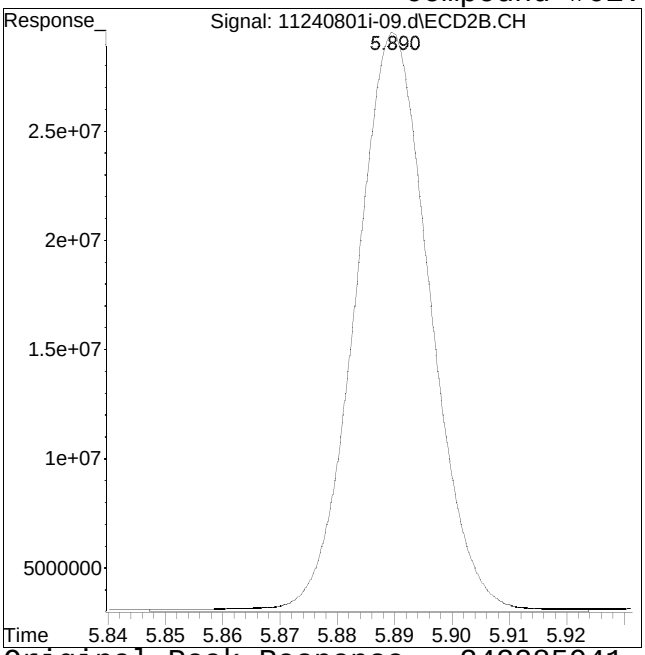
M4 = Poor automated baseline construction.

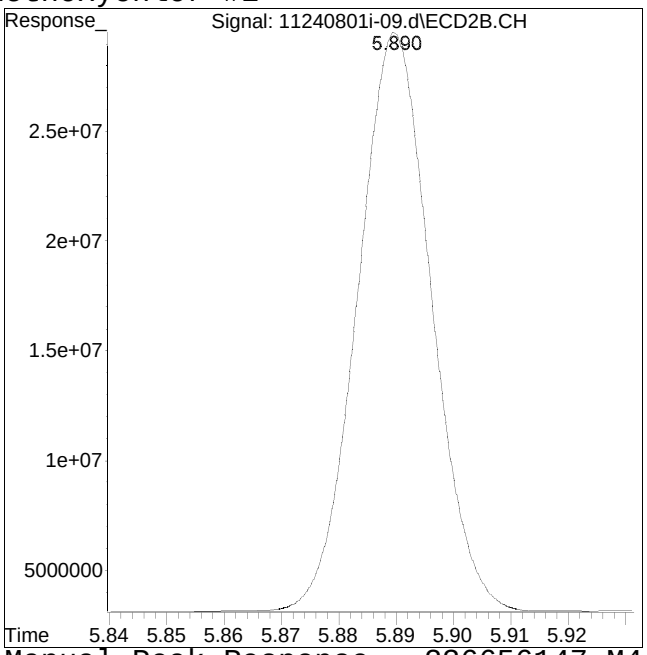
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #61: Methoxychlor #2



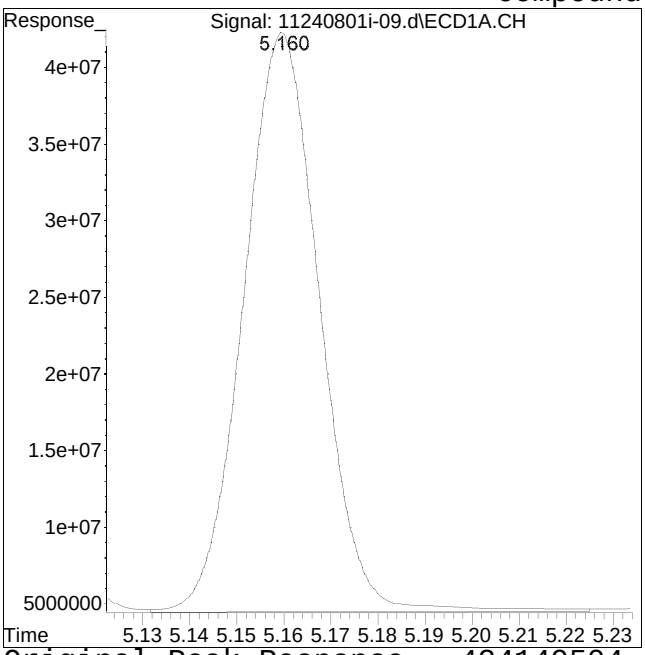


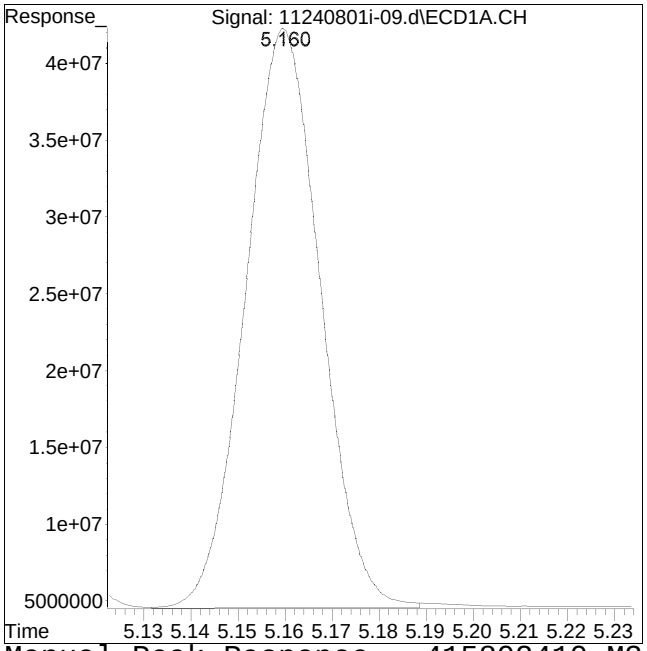
Original Peak Response = 242285941 Manual Peak Response = 236656147 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #24: Mirex





Original Peak Response = 424149504 Manual Peak Response = 415802410 M3

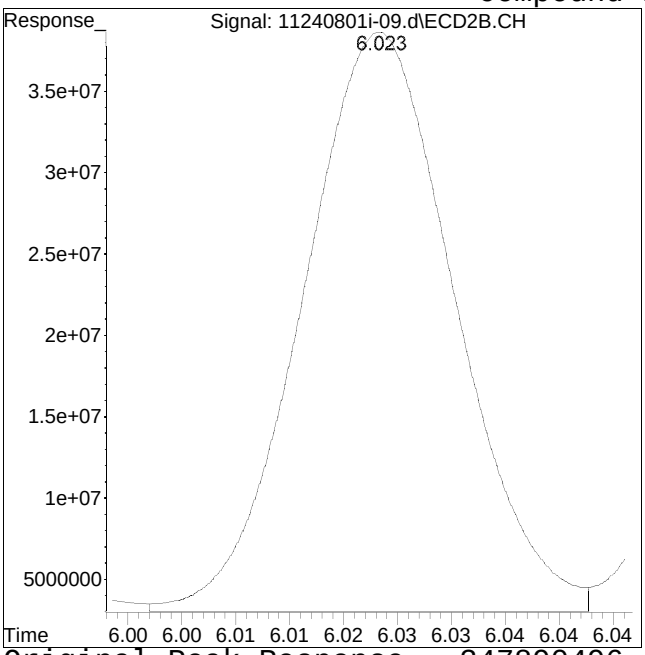
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

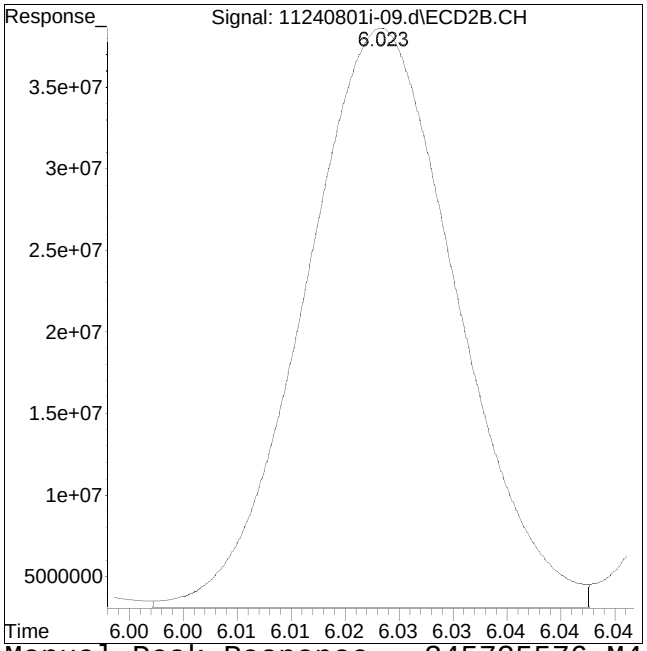
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #62: Mirex #2



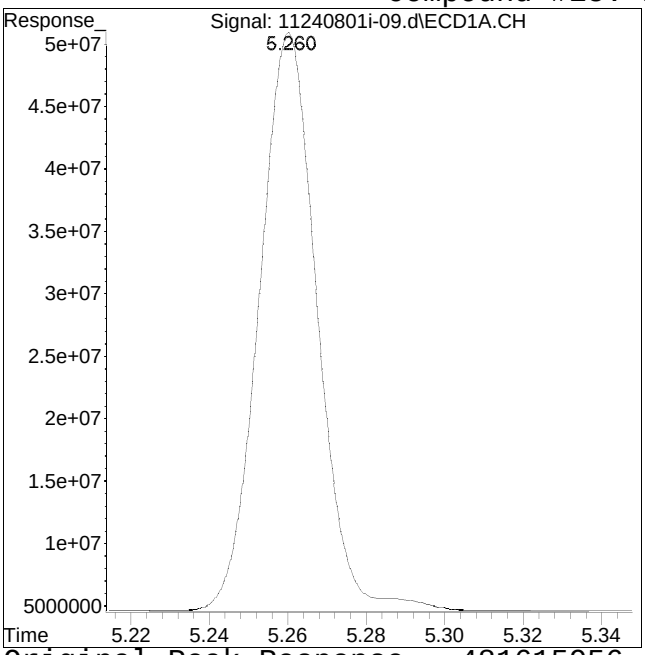


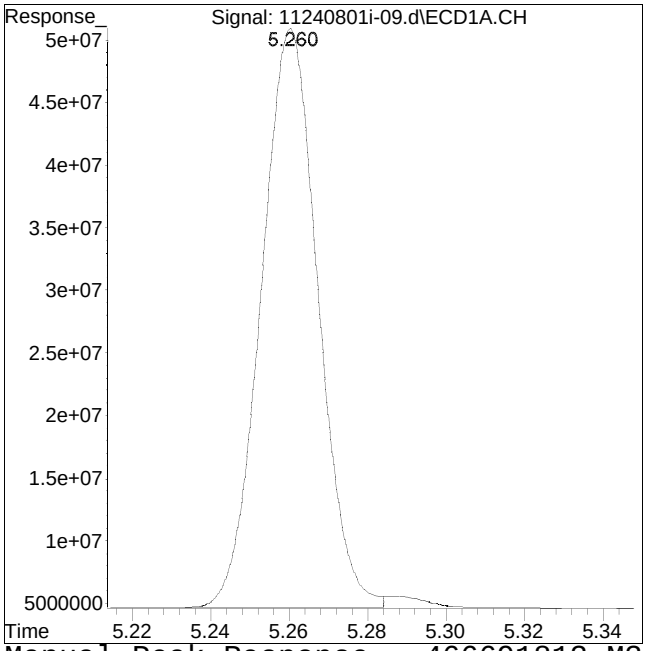
Original Peak Response = 347890496 Manual Peak Response = 345735576 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #25: Endosulfan Sulfate



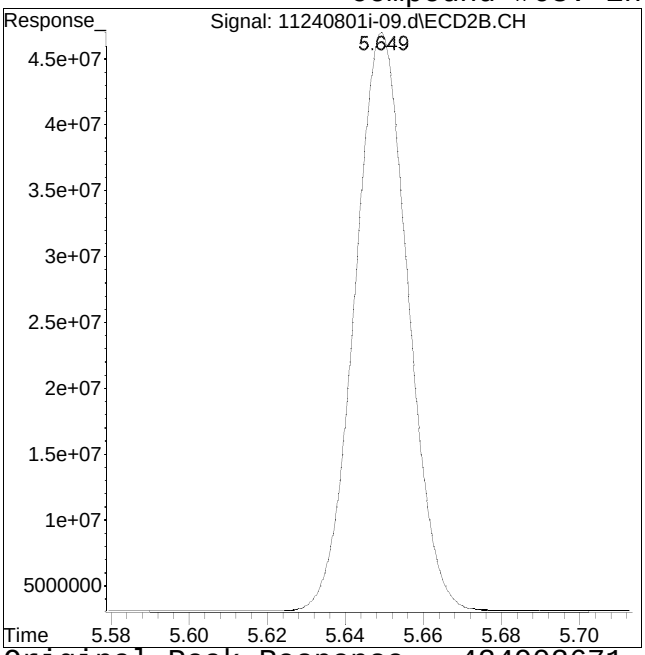


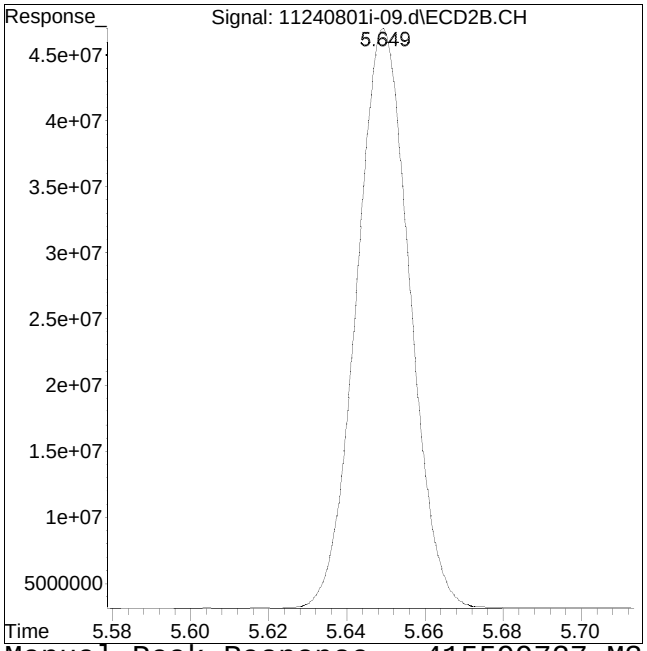
Original Peak Response = 481615956 Manual Peak Response = 466691813 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #63: Endosulfan Sulfate #2





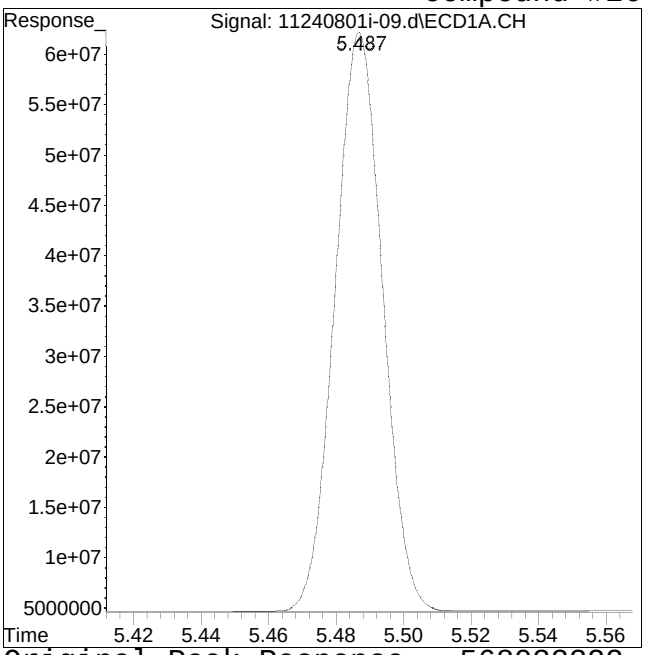
Original Peak Response = 424902671 Manual Peak Response = 415599727 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

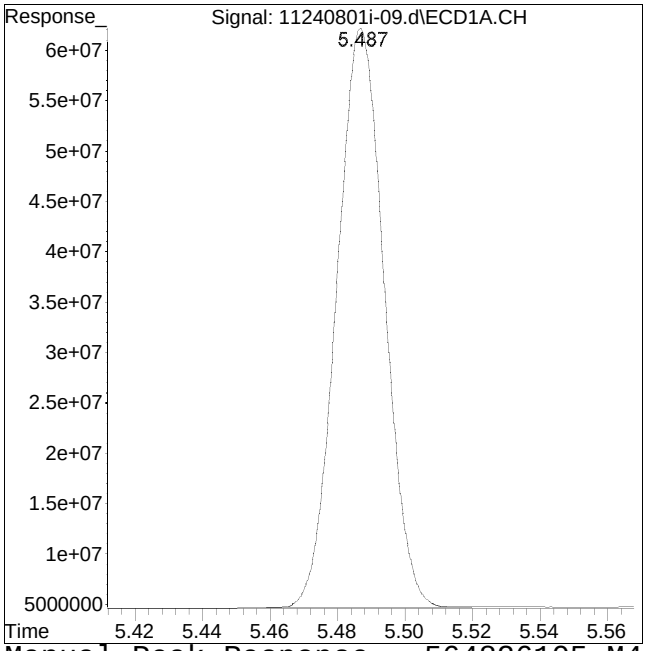
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #26: Endrin Ketone



Original Peak Response = 568032322



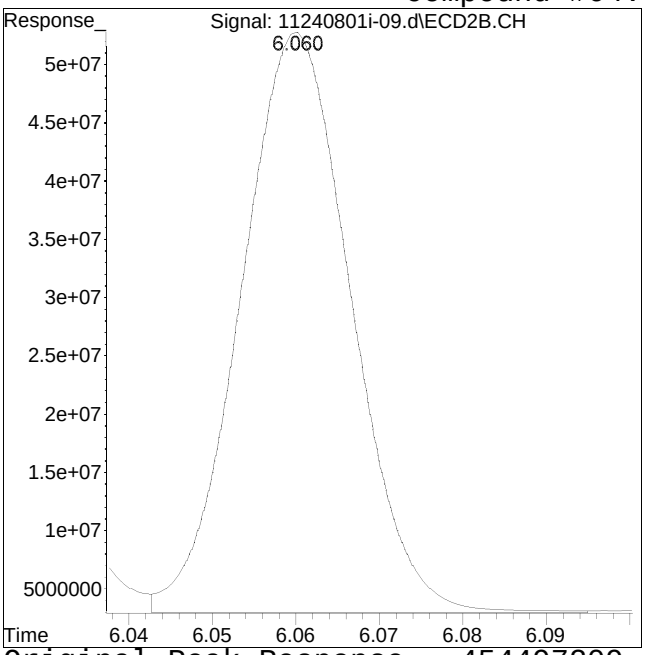
Manual Peak Response = 564826105 M4

M4 = Poor automated baseline construction.

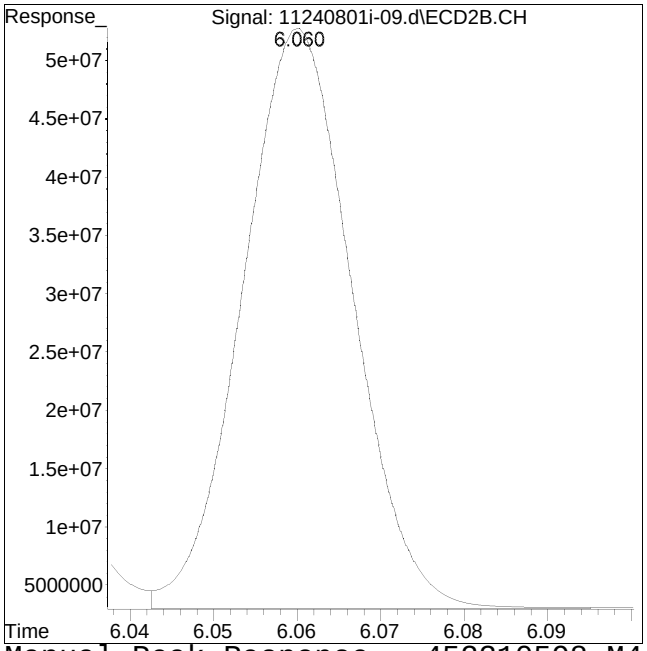
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #64: Endrin Ketone #2



Original Peak Response = 454497209



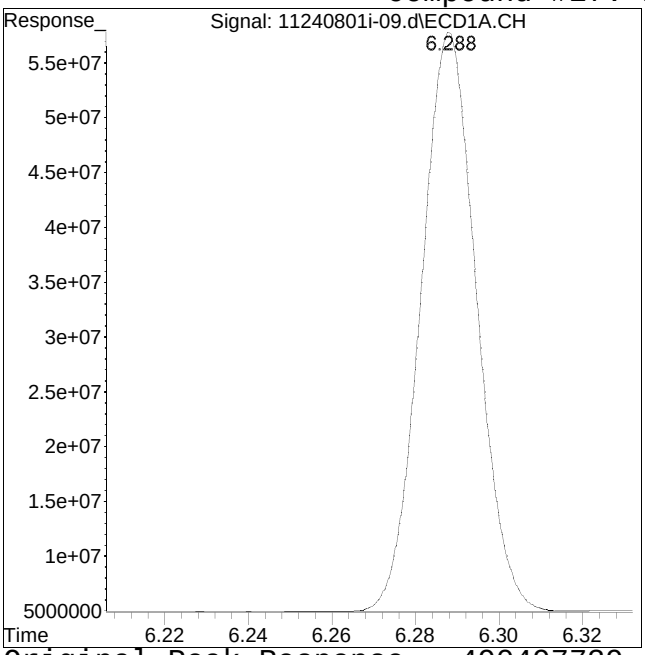
Manual Peak Response = 452310598 M4

M4 = Poor automated baseline construction.

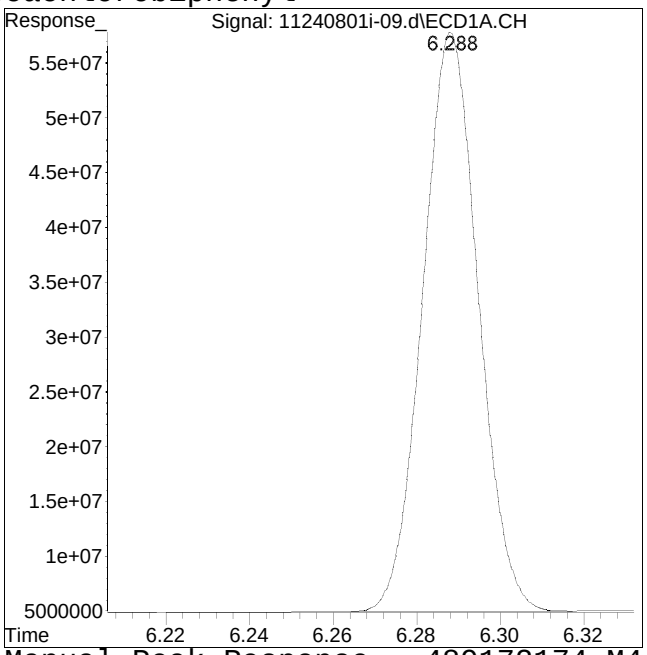
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 490497739



Manual Peak Response = 489172174 M4

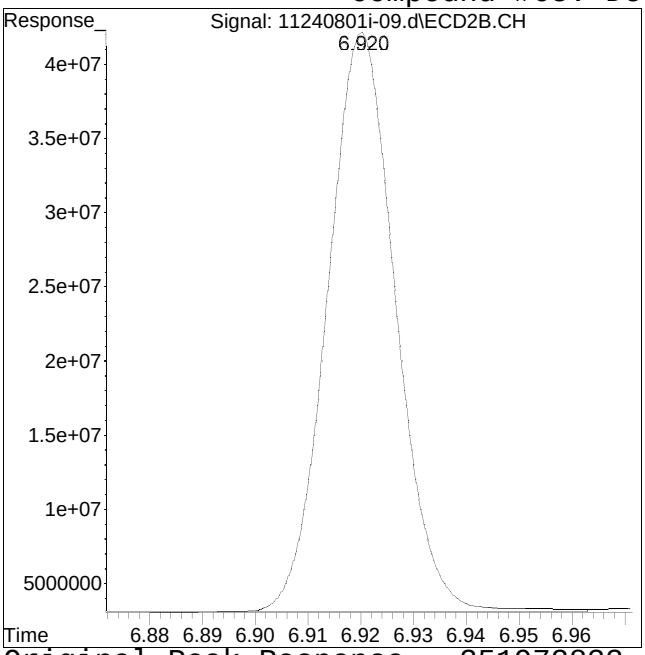
M4 = Poor automated baseline construction.

Manual Integration Report

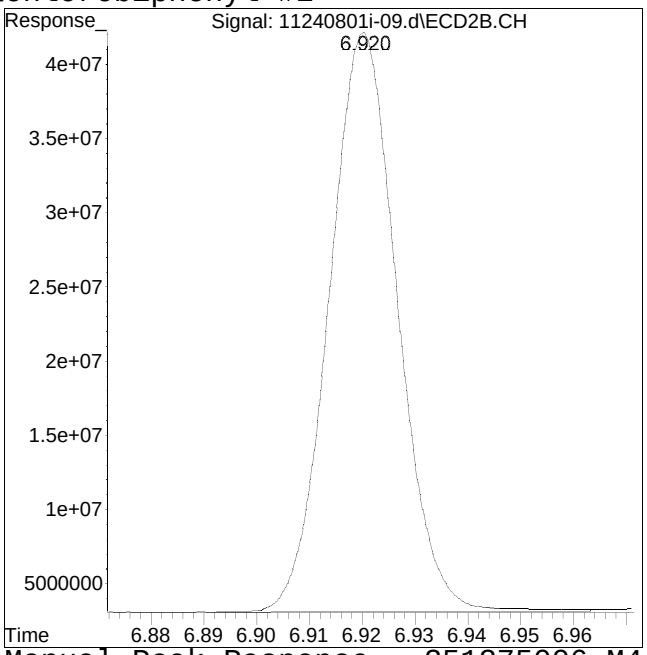
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 351972833



Manual Peak Response = 351375006 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.309	1.385	228.9E6	186.0E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.652	1.858	978.0E6	793.9E6	102.526M3	98.316M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		205.05%#	196.63%#
27)	s	Decachlorobi	6.287	6.920	966.4E6	693.4E6	101.892M4	99.592M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		203.78%#	199.18%#
		Target Compounds						
3)	t	Hexachlorobe	1.865	2.178	1254.4E6	852.0E6	101.913M3	99.956M4
4)	t	alpha-BHC	1.963	2.271	1517.1E6	1291.2E6	104.962M3	102.929M3
5)	t	gamma-BHC (l	2.165	2.556	1395.5E6	1162.9E6	104.626M4	102.486M4
6)	t	beta-BHC	2.221	2.622	569.7E6	475.2E6	102.483M3	99.416M4
7)	t	delta-BHC	2.349	2.889	1415.2E6	1188.9E6	105.152M4	103.238M4
8)	t	Heptachlor	2.513	2.952	1281.7E6	1164.2E6	103.113M4	100.742
9)	t	Aldrin	2.756	3.271	1234.2E6	1093.2E6	104.739M4	102.495
10)	t	Alachlor	2.876	3.153	202.3E6	136.5E6	97.935M4	93.096M4
11)	t	Chlorpyrifos	2.968	3.506	476.2E6	520.8E6	96.581M4	95.072

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.301	3.884	1132.0E6	1013.1E6	102.826M4	100.688M4
13)	t	gamma-Chlord	3.425	4.104	1037.3E6	931.1E6	105.142M4	102.239M4
14)	t	alpha-Chlord	3.559	4.274	1167.6E6	1027.5E6	104.255M3	101.638
15)	t	4,4'-DDE	3.657	4.473	1188.4E6	1034.3E6	105.852	103.171M4
16)	t	Endosulfan I	3.695	4.336	1073.0E6	944.4E6	103.673M3	100.715
17)	t	Dieldrin	3.955	4.627	1129.5E6	992.5E6	105.119M3	102.230M3
18)	t	Endrin	4.210	4.925	1134.9E6	1004.3E6	103.955M4	101.809M4
19)	t	4,4'-DDD	4.321	5.049	929.4E6	823.1E6	106.236M4	103.291M4
20)	t	Endosulfan I	4.451	5.125	1017.3E6	866.0E6	103.751	100.883M4
21)	t	4,4'-DDT	4.616	5.326	1043.2E6	939.1E6	105.189M4	102.870M4
22)	t	Endrin Aldeh	4.868	5.421	836.3E6	707.4E6	104.157M3	101.016M3
23)	t	Methoxychlor	5.104	5.890	519.3E6	461.0E6	100.292M4	98.297M4
24)	t	Mirex	5.160	6.023	822.7E6	677.1E6	102.053M4	98.827M4
25)	t	Endosulfan S	5.260	5.649	939.0E6	830.0E6	103.773M3	100.783M3
26)	t	Endrin Keton	5.487	6.060	1123.4E6	898.2E6	102.585M4	100.220M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

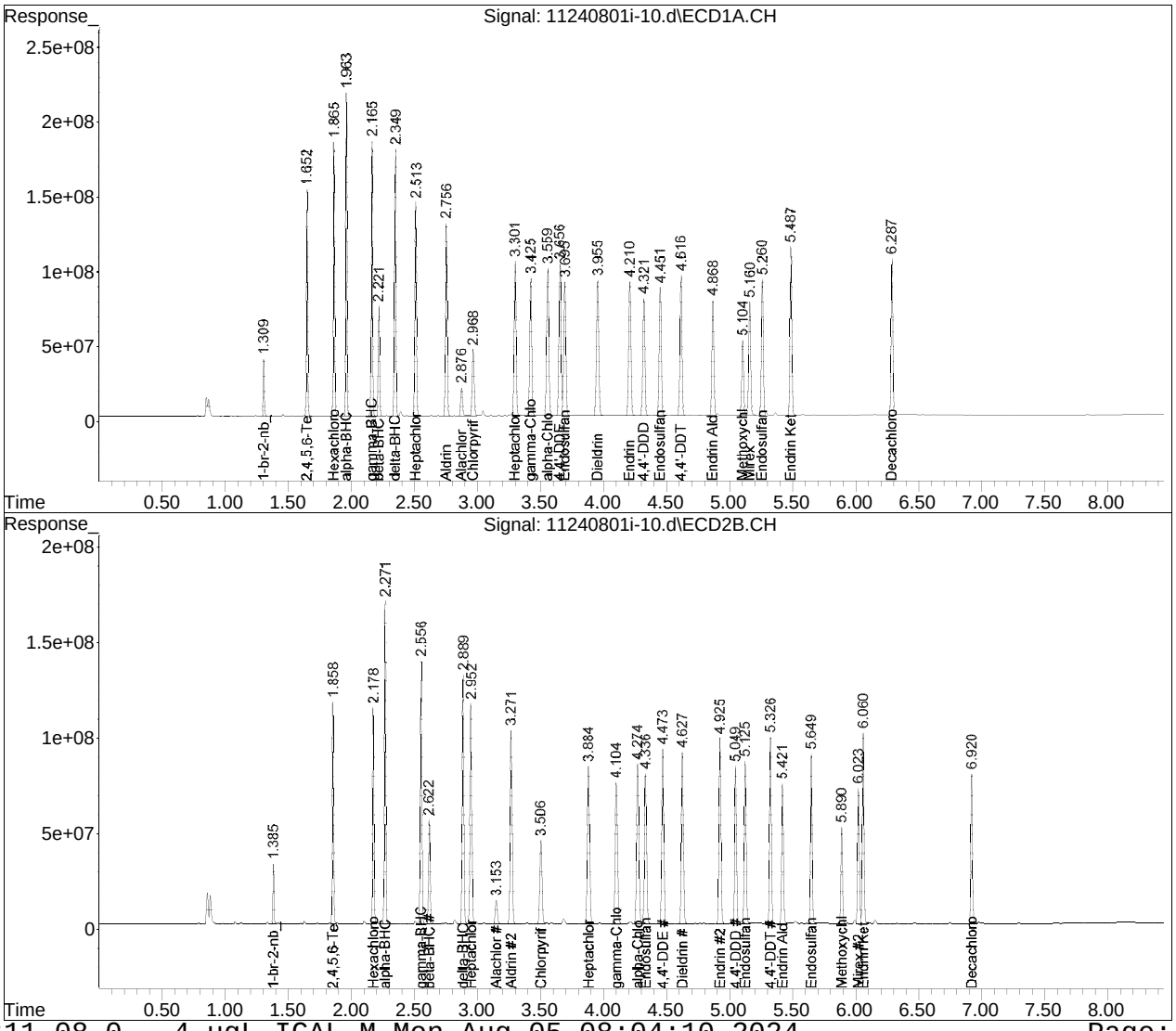
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

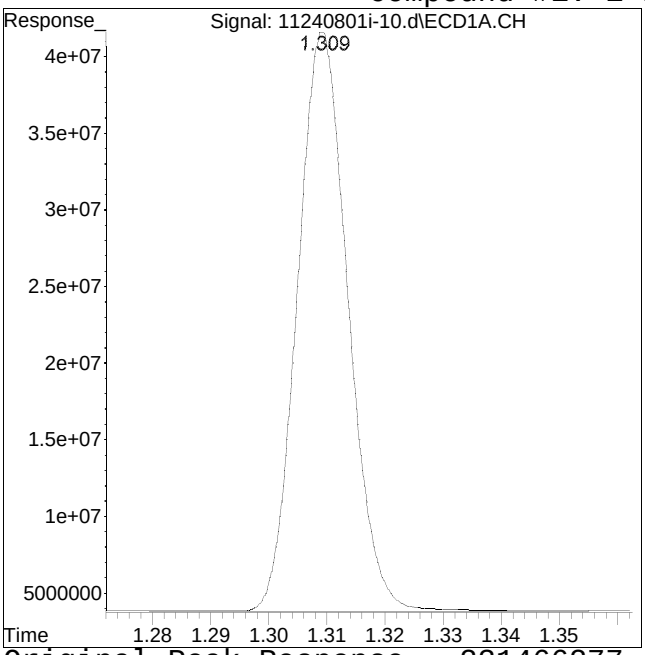


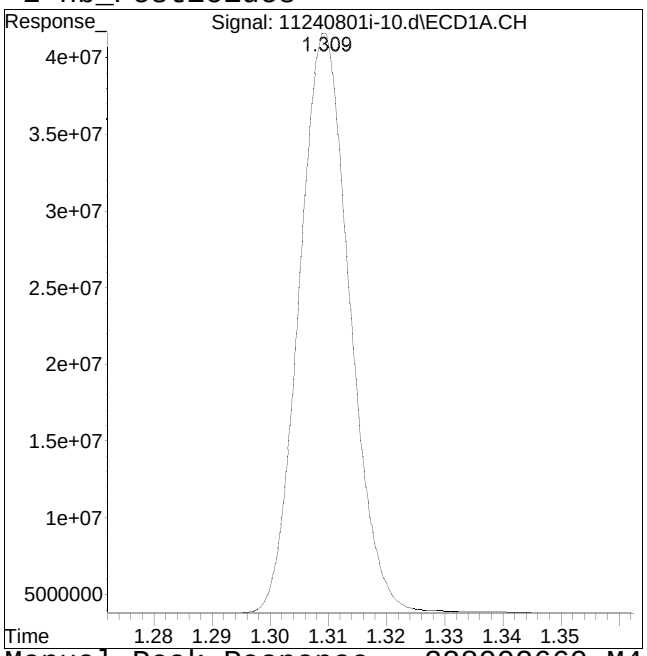
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #1: 1-br-2-nb_Pesticides





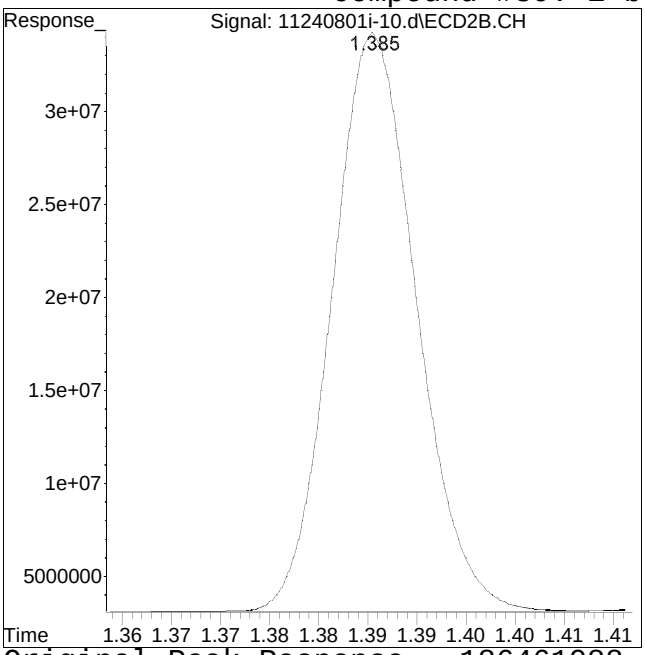
Original Peak Response = 231466277 Manual Peak Response = 228902660 M4
M4 = Poor automated baseline construction.

Manual Integration Report

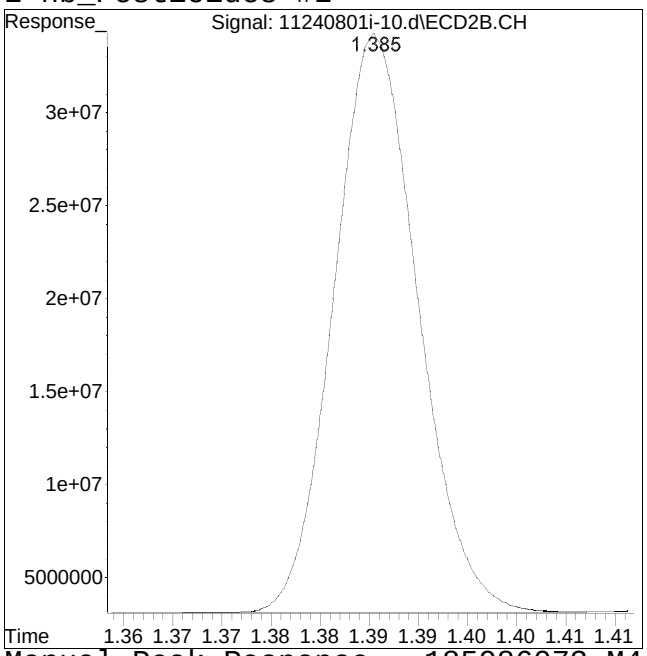
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 186461988



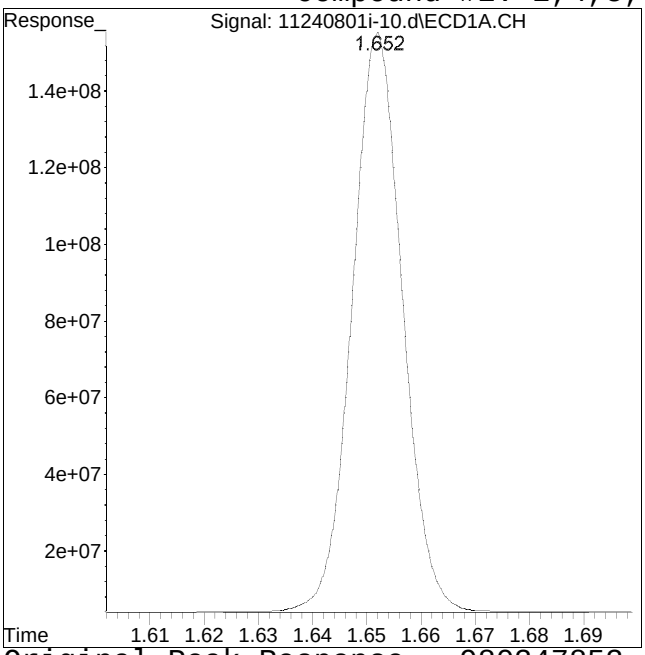
Manual Peak Response = 185986073 M4

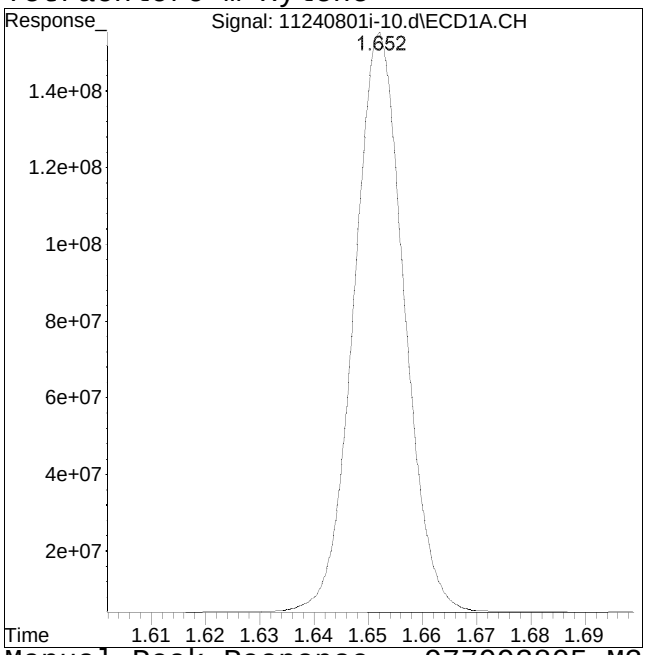
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



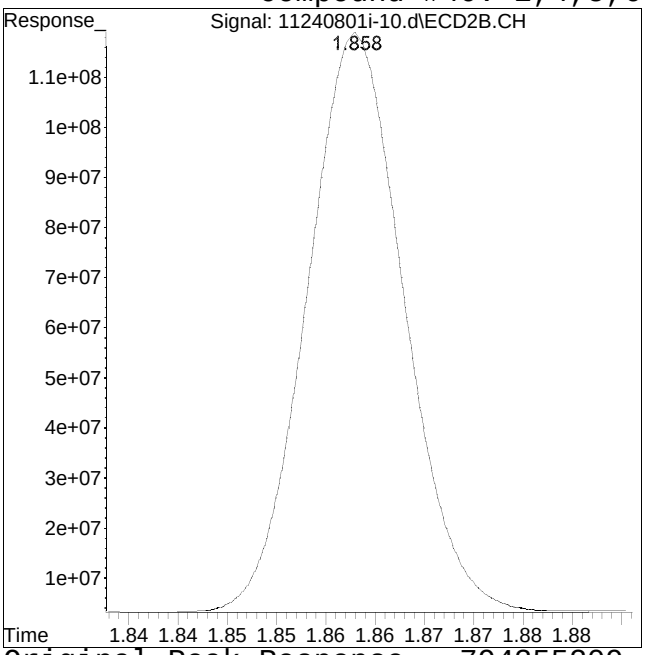


Original Peak Response = 980347853 Manual Peak Response = 977993805 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

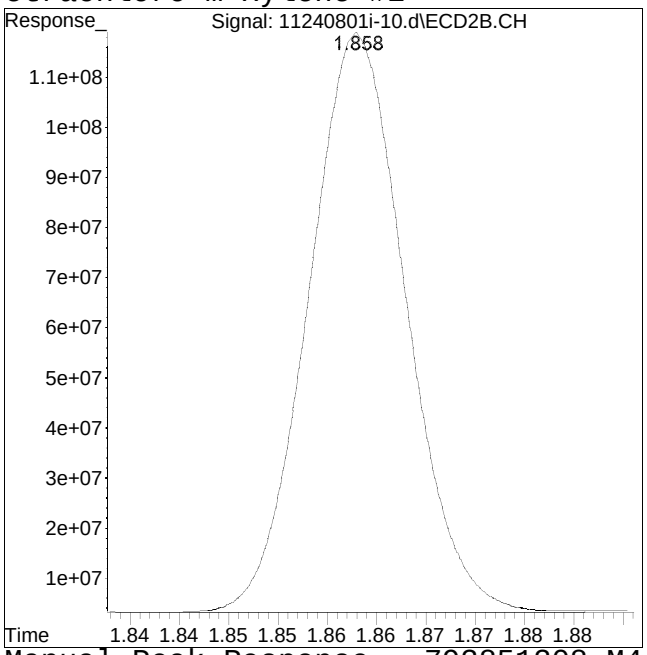
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 794355209



Manual Peak Response = 793851308 M4

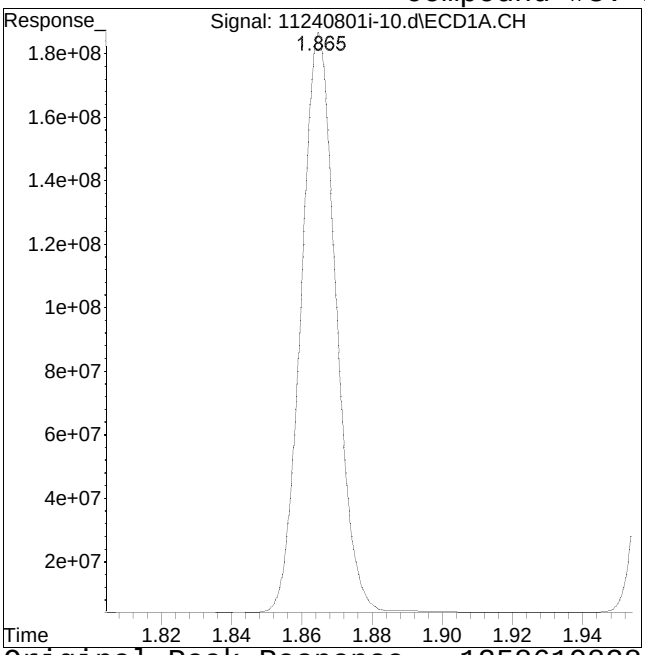
M4 = Poor automated baseline construction.

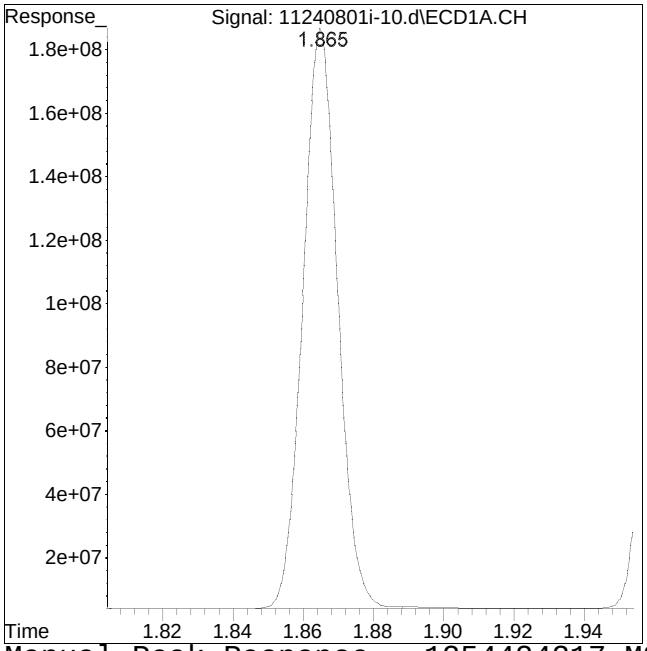
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #3: Hexachlorobenzene





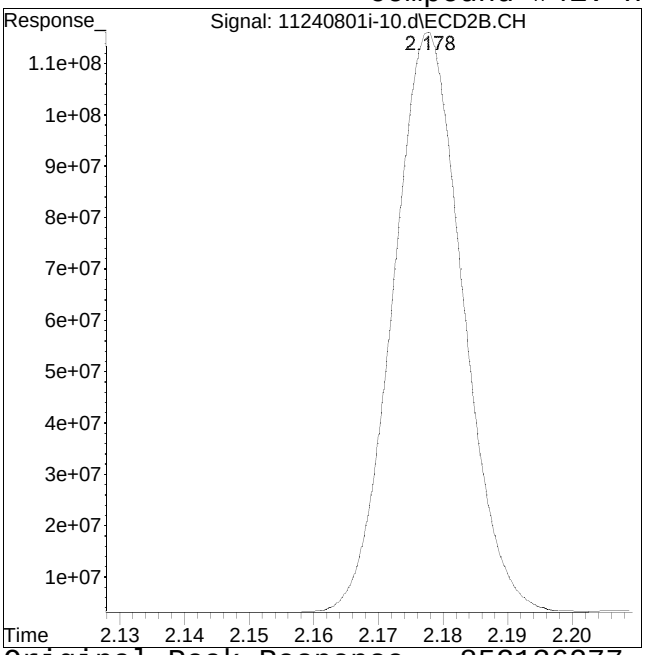
Original Peak Response = 1258619828 Manual Peak Response = 1254424217 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

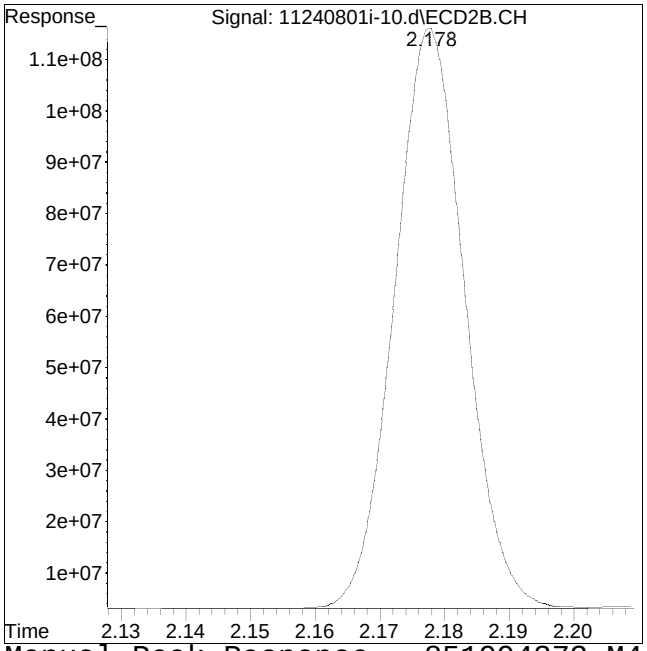
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #41: Hexachlorobenzene #2



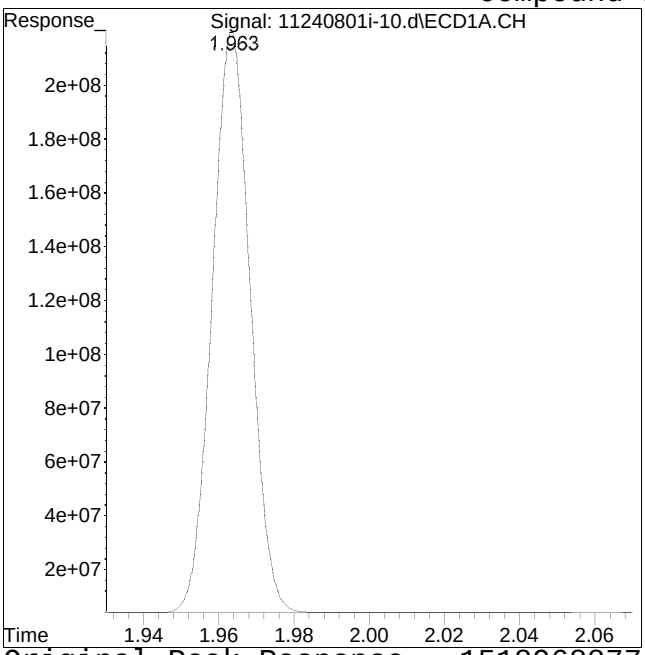


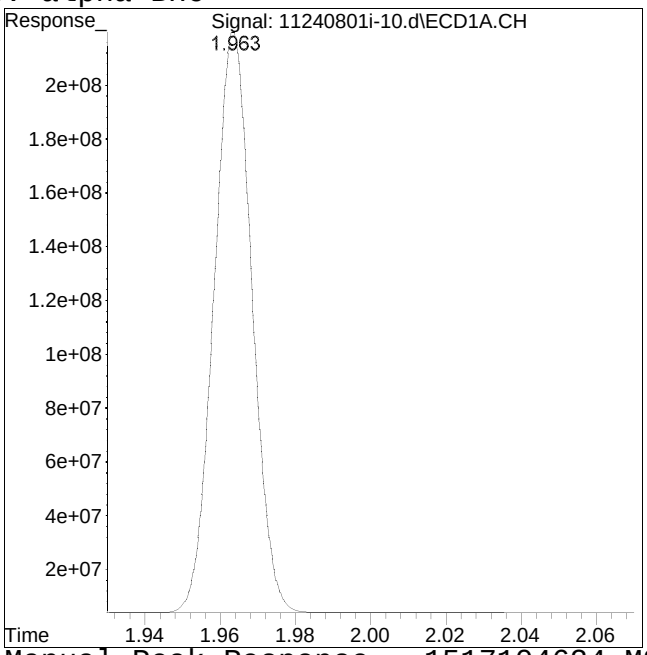
Original Peak Response = 852136277 Manual Peak Response = 851994373 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #4: alpha-BHC



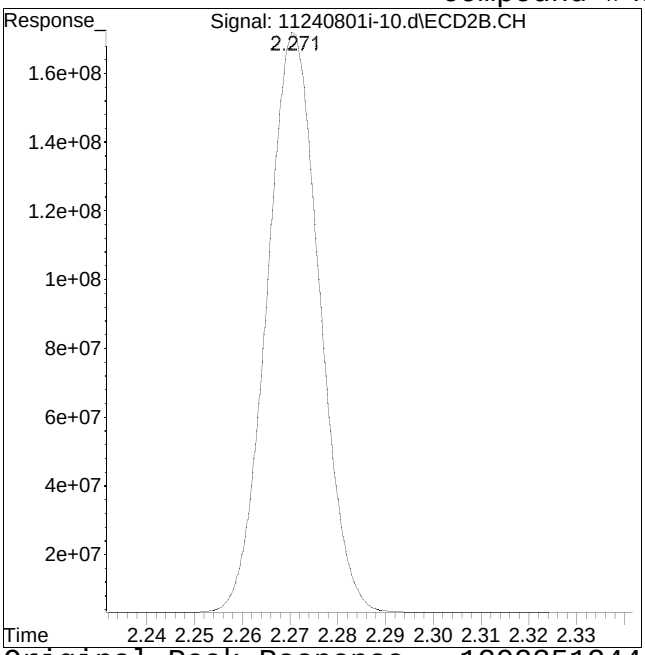


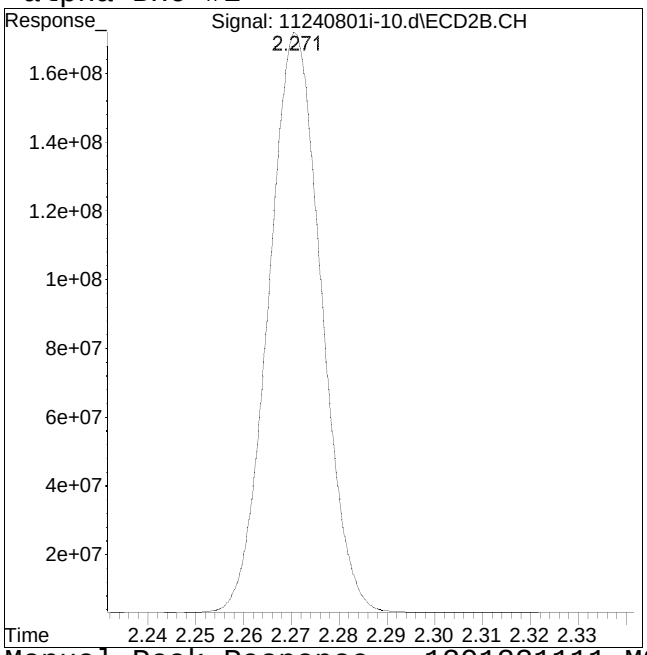
Original Peak Response = 1518968877 Manual Peak Response = 1517104624 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #42: alpha-BHC #2



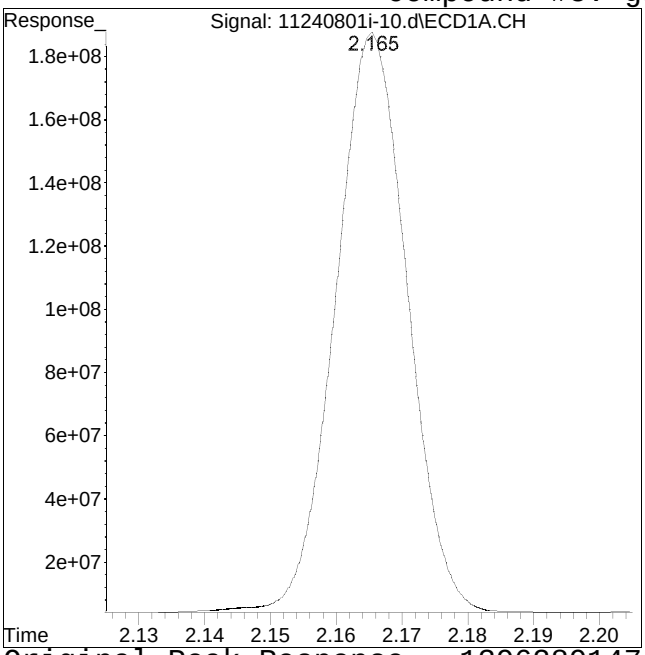


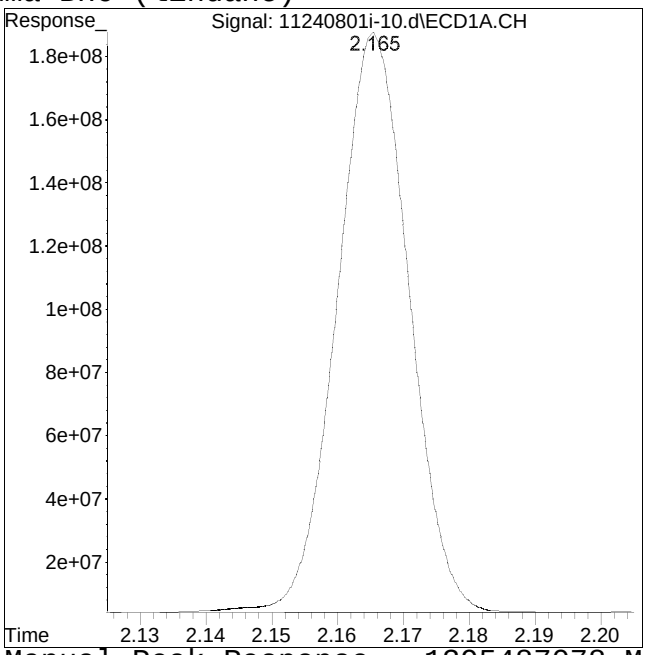
Original Peak Response = 1292351244 Manual Peak Response = 1291231111 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #5: gamma-BHC (lindane)



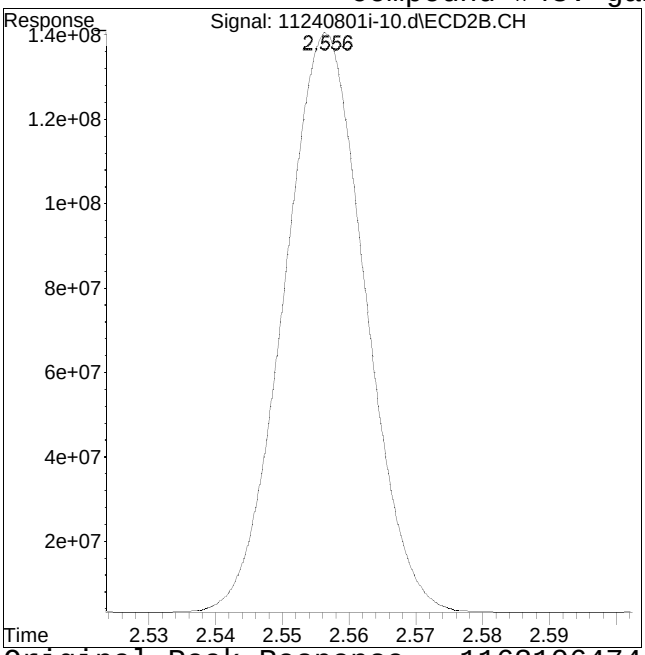


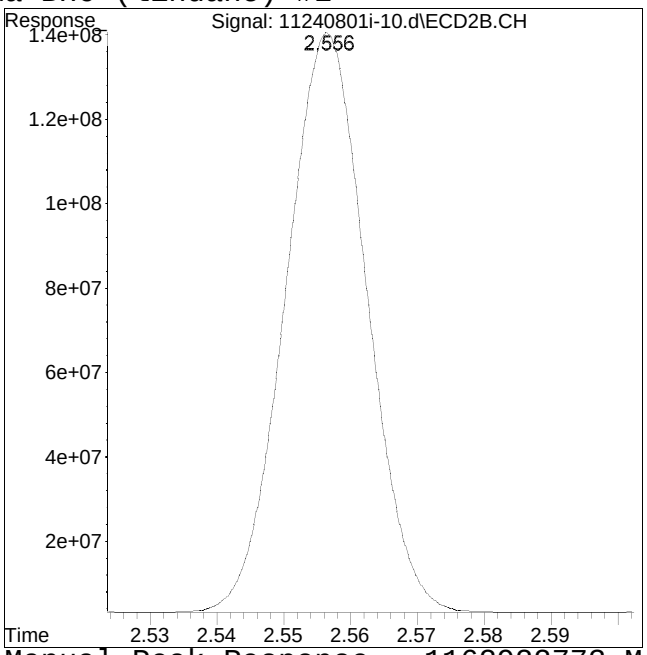
Original Peak Response = 1396289147 Manual Peak Response = 1395487078 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #43: gamma-BHC (lindane) #2



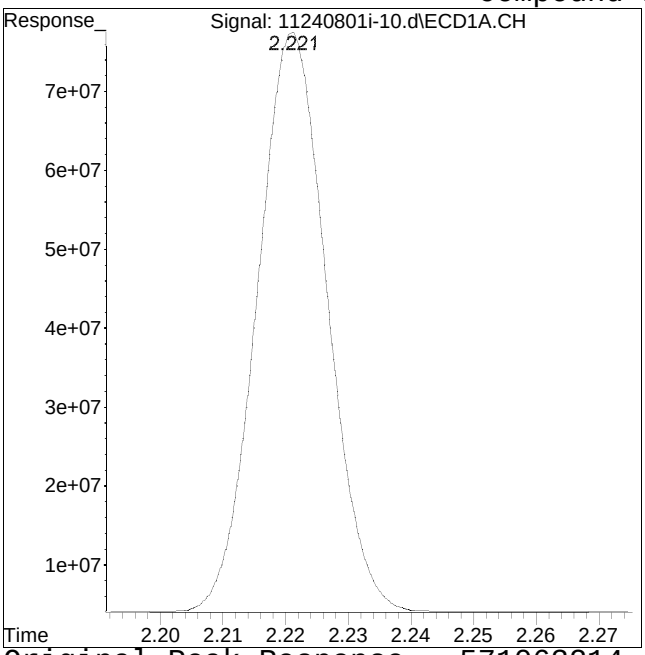


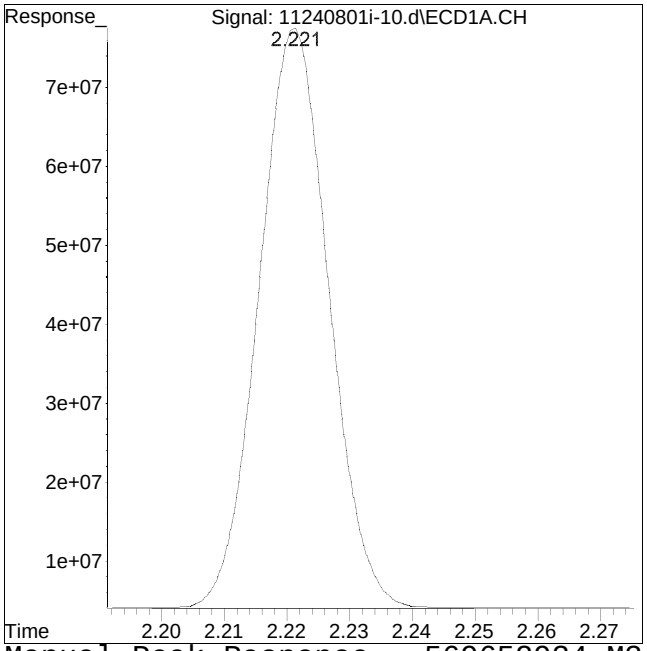
Original Peak Response = 1163106474 Manual Peak Response = 1162922773 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #6: beta-BHC



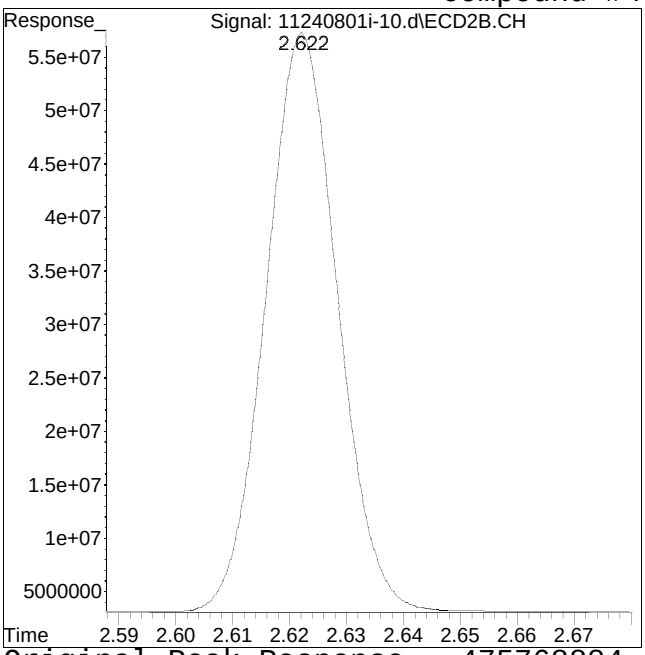


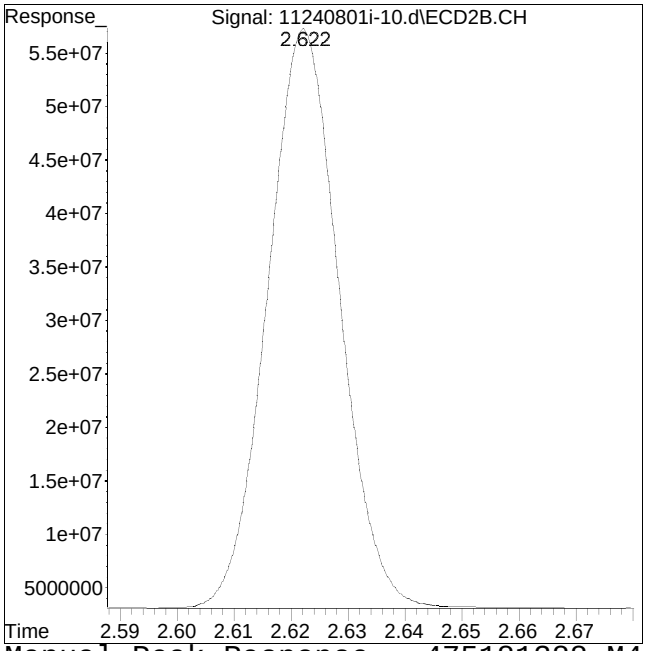
Original Peak Response = 571063214 Manual Peak Response = 569652934 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #44: beta-BHC #2



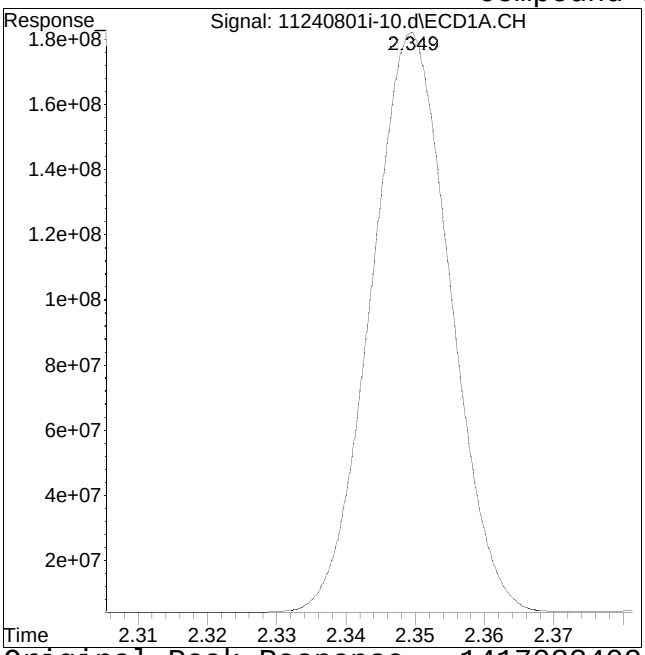


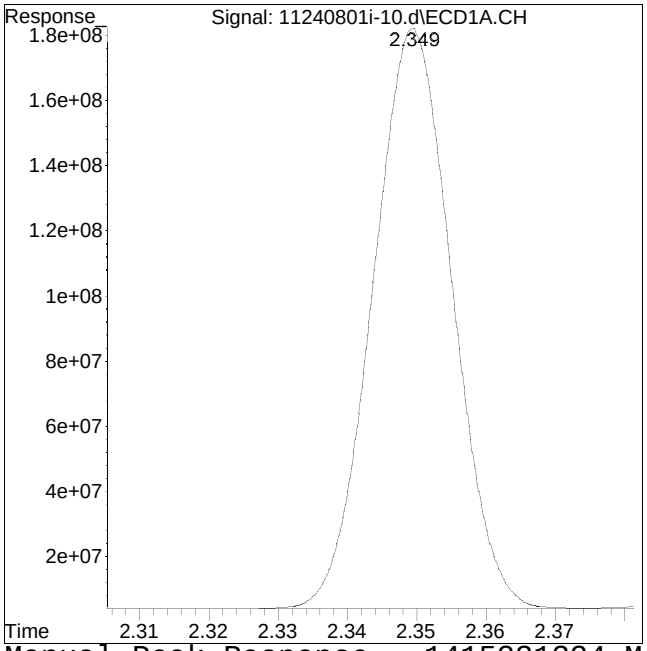
Original Peak Response = 475768884 Manual Peak Response = 475181388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #7: delta-BHC





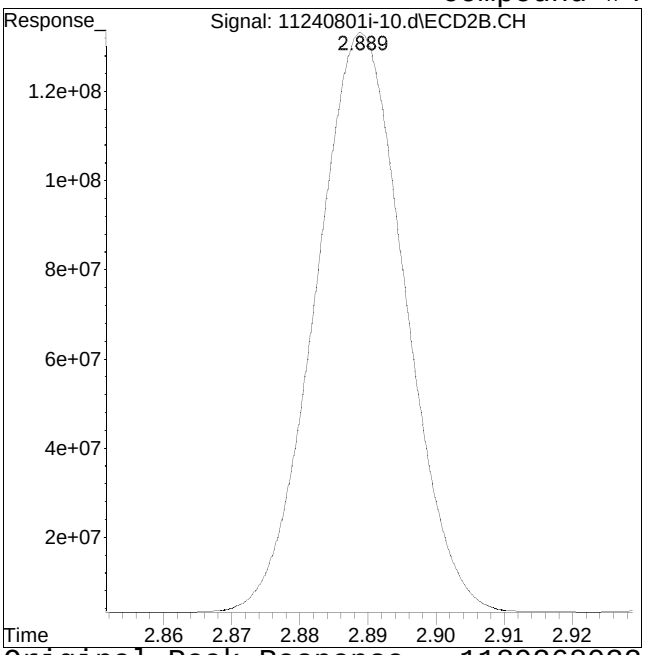
Original Peak Response = 1417033402 Manual Peak Response = 1415231324 M4
M4 = Poor automated baseline construction.

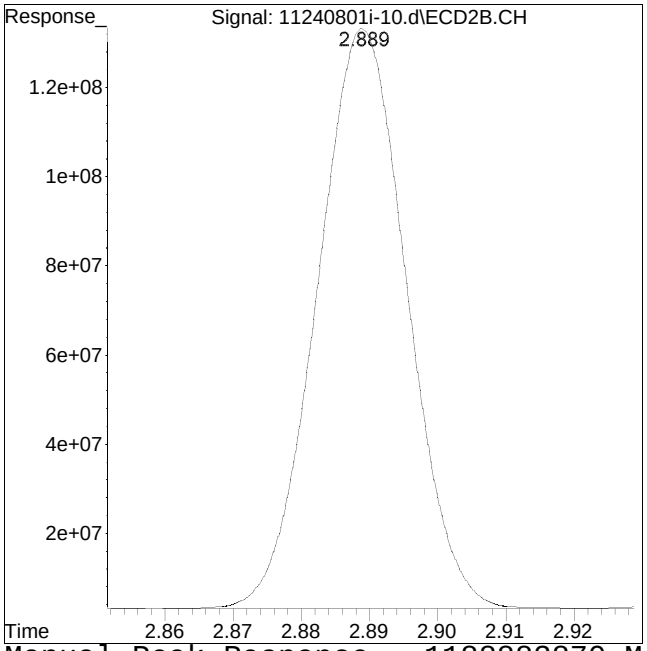
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #45: delta-BHC #2





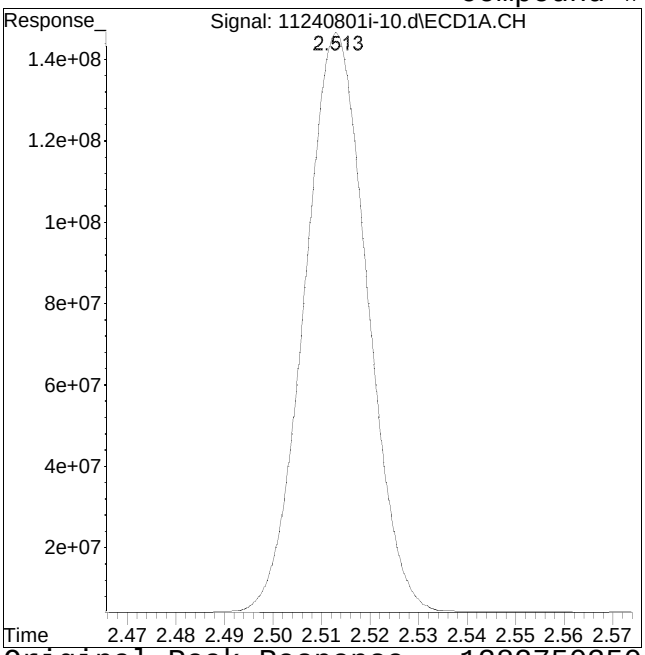
Original Peak Response = 1189268032 Manual Peak Response = 1188883870 M4
M4 = Poor automated baseline construction.

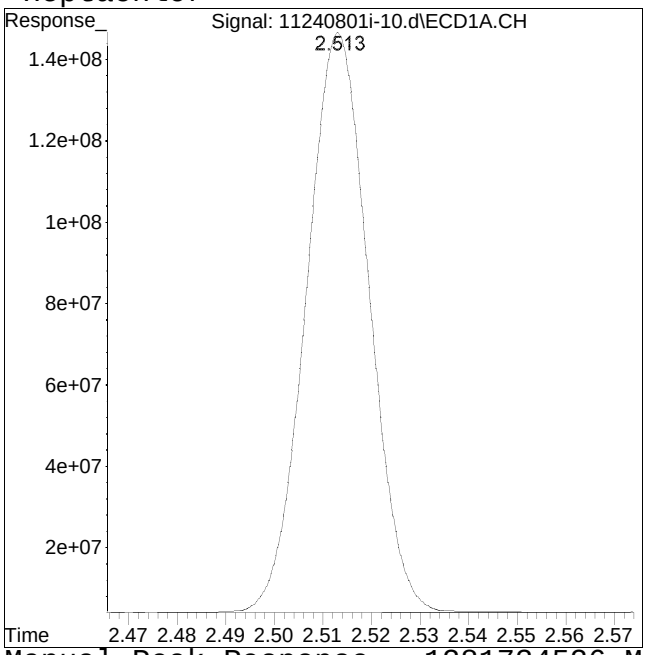
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #8: Heptachlor





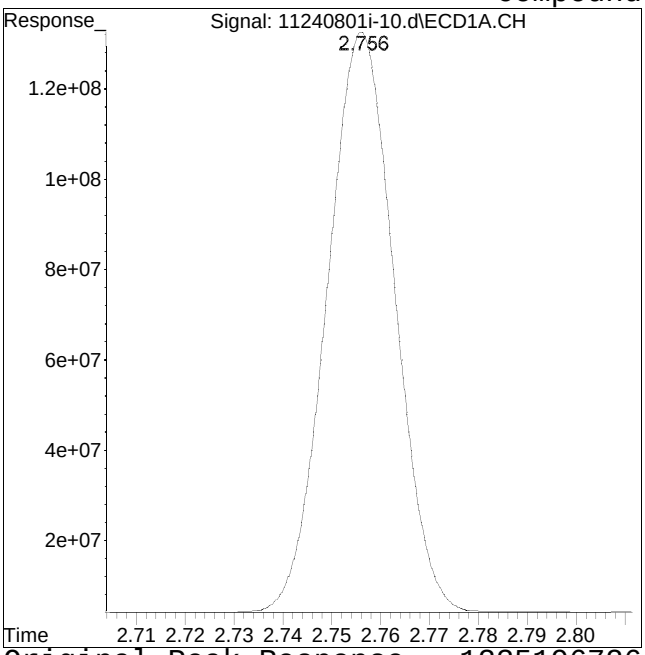
Original Peak Response = 1282750350 Manual Peak Response = 1281734526 M4
M4 = Poor automated baseline construction.

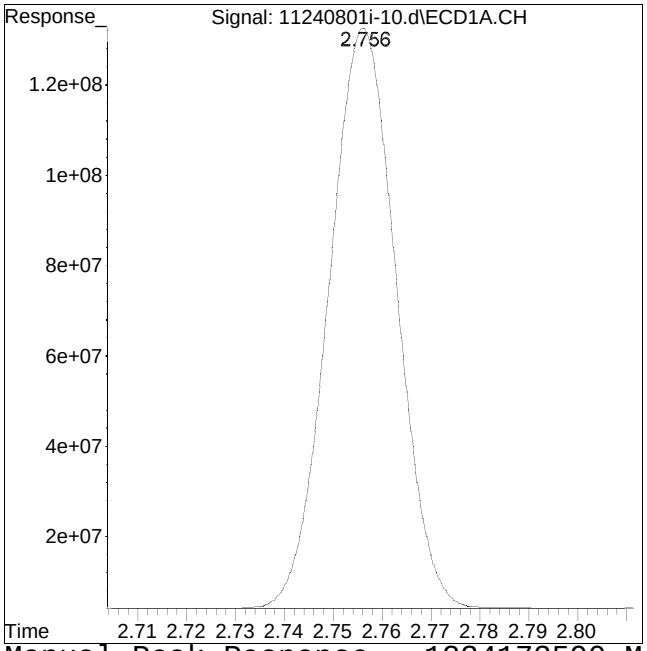
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #9: Aldrin



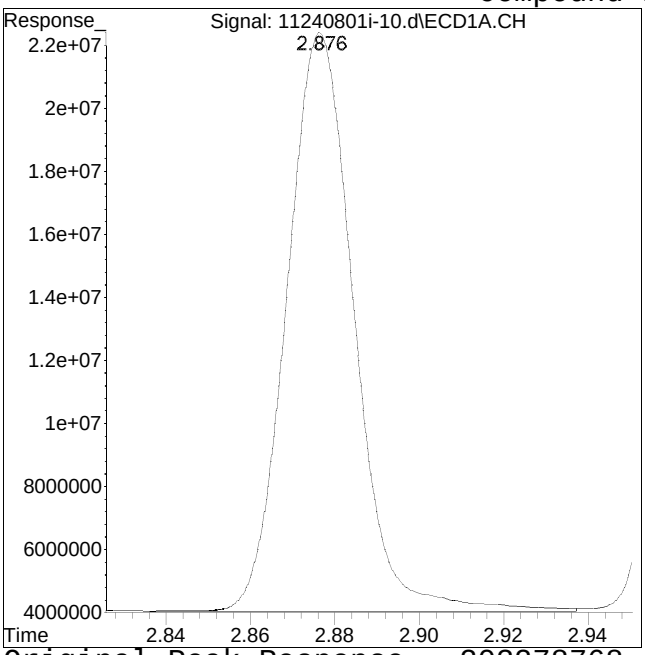


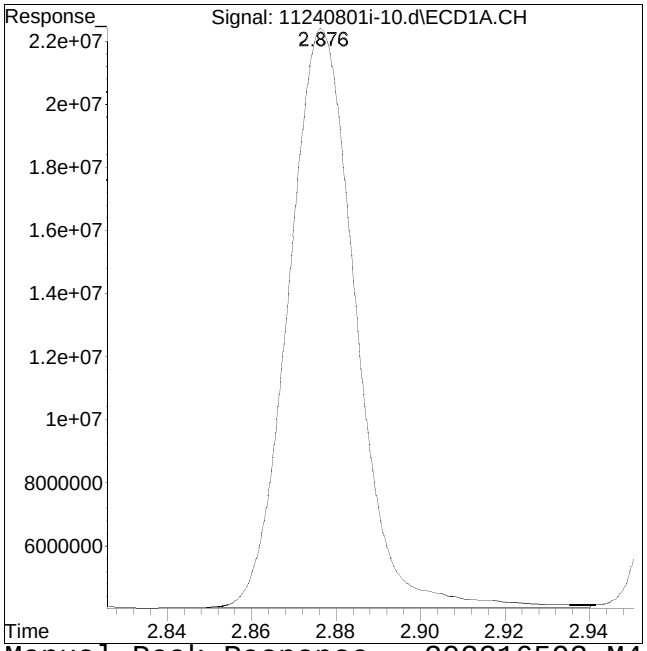
Original Peak Response = 1235196726 Manual Peak Response = 1234173590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #10: Alachlor





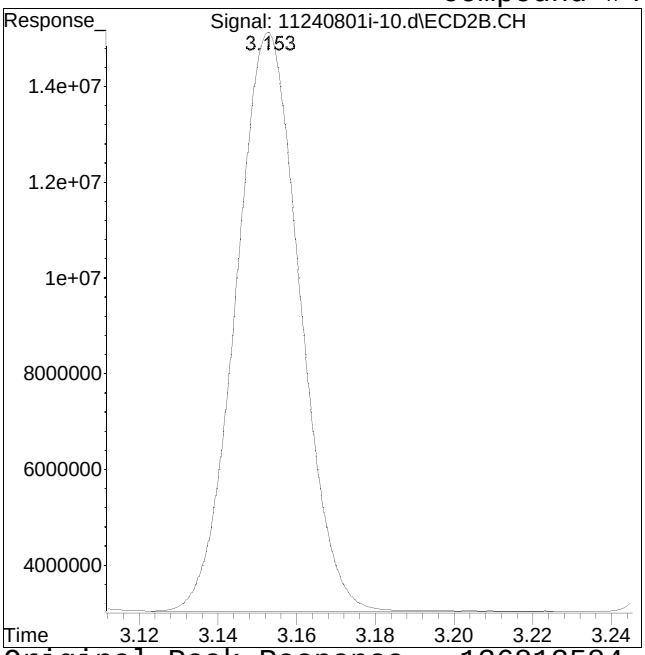
Original Peak Response = 203278768 Manual Peak Response = 202316593 M4
M4 = Poor automated baseline construction.

Manual Integration Report

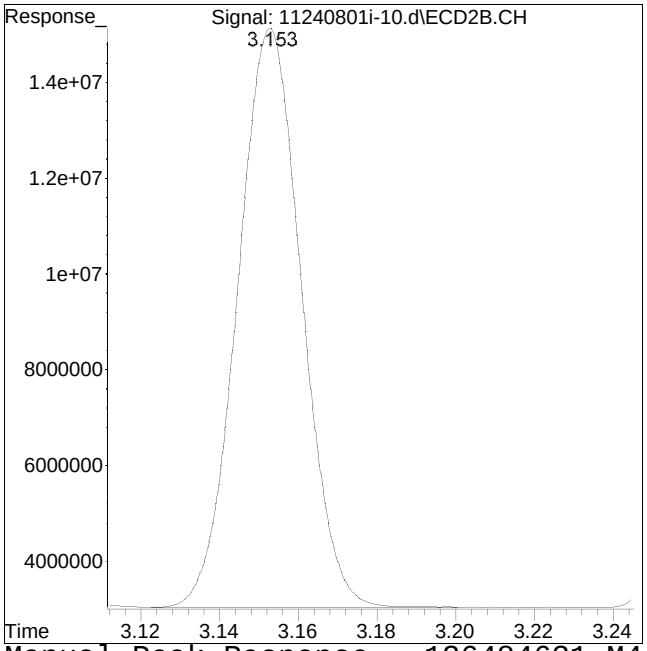
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #48: Alachlor #2



Original Peak Response = 136812584



Manual Peak Response = 136484631 M4

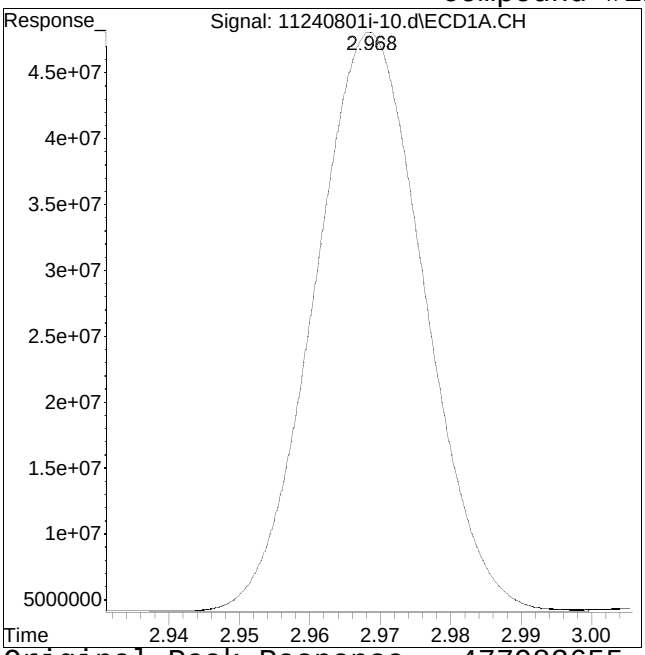
M4 = Poor automated baseline construction.

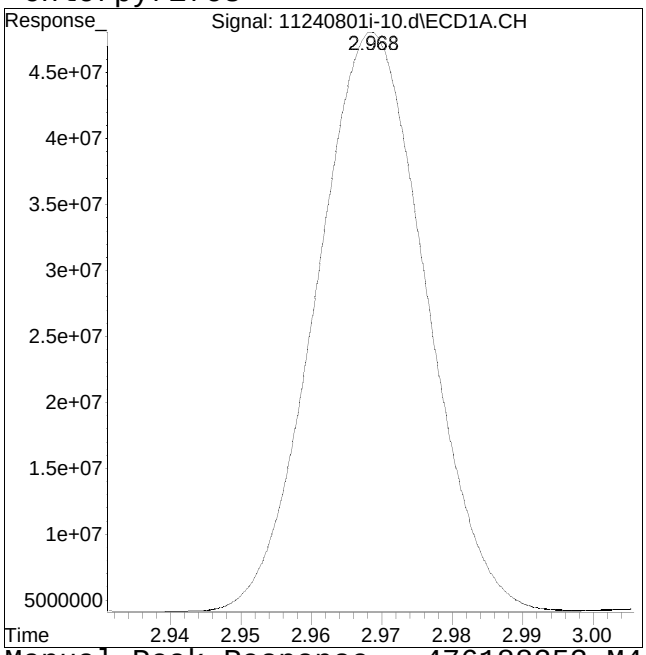
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #11: Chlorpyrifos



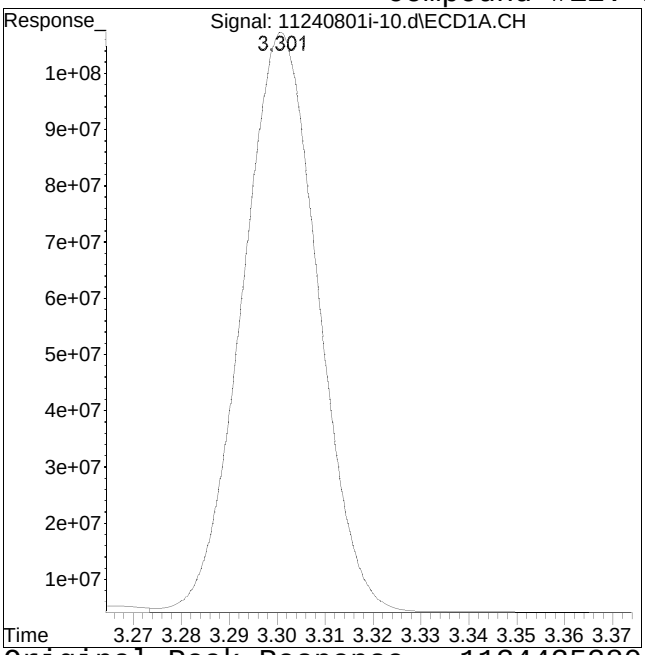


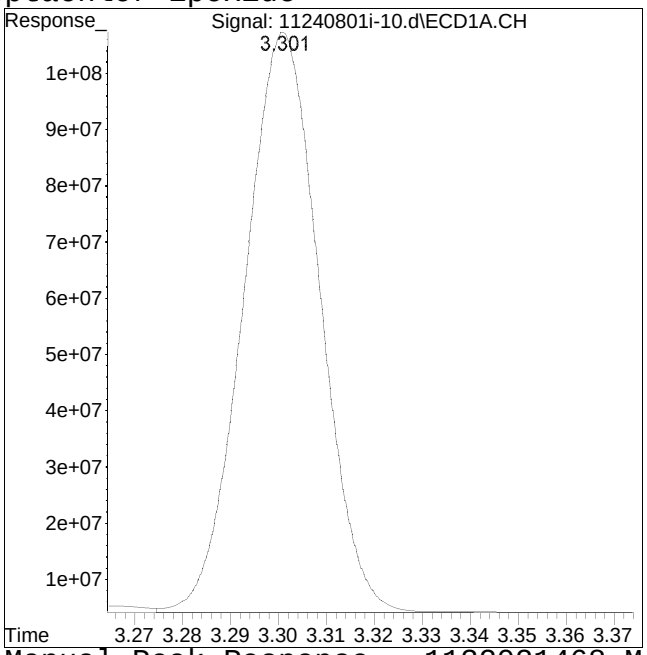
Original Peak Response = 477982655 Manual Peak Response = 476188253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #12: Heptachlor Epoxide





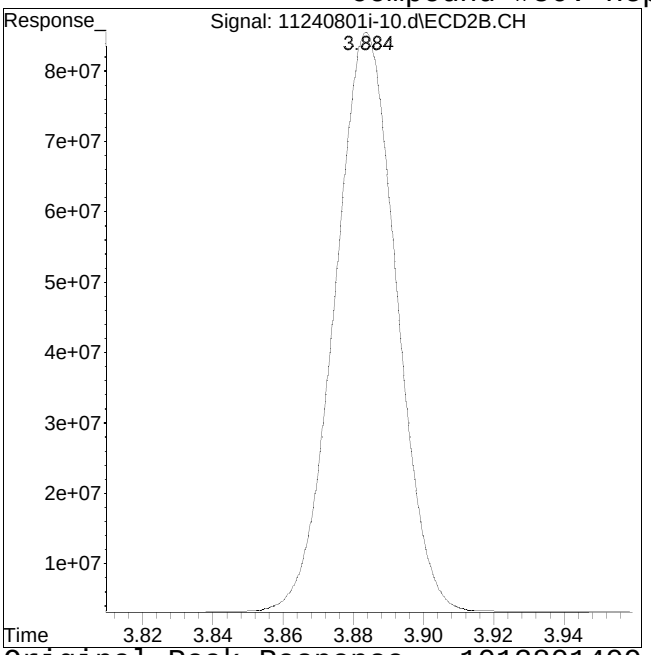
Original Peak Response = 1134435380 Manual Peak Response = 1132021468 M4
M4 = Poor automated baseline construction.

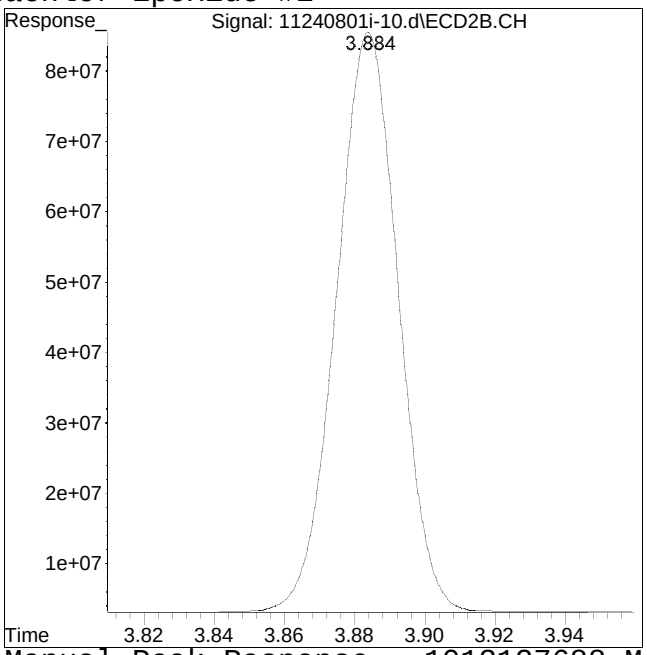
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #50: Heptachlor Epoxide #2



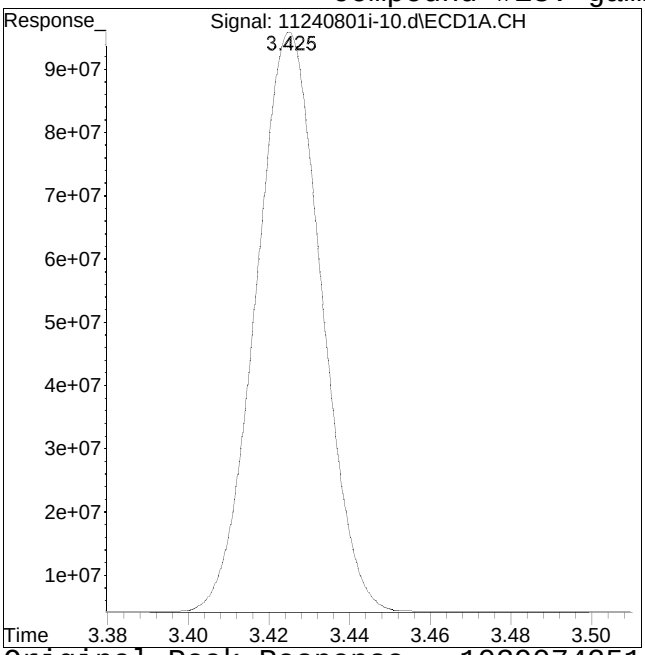


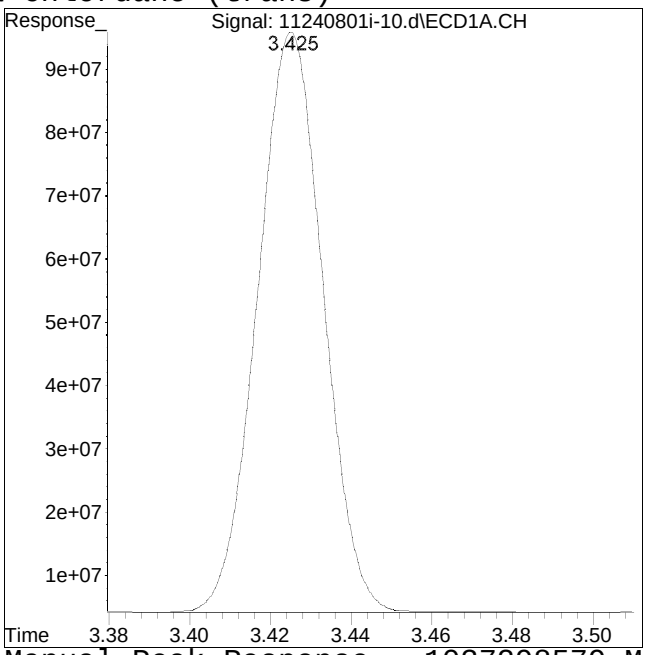
Original Peak Response = 1013801409 Manual Peak Response = 1013127688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #13: gamma-Chlordane (trans)



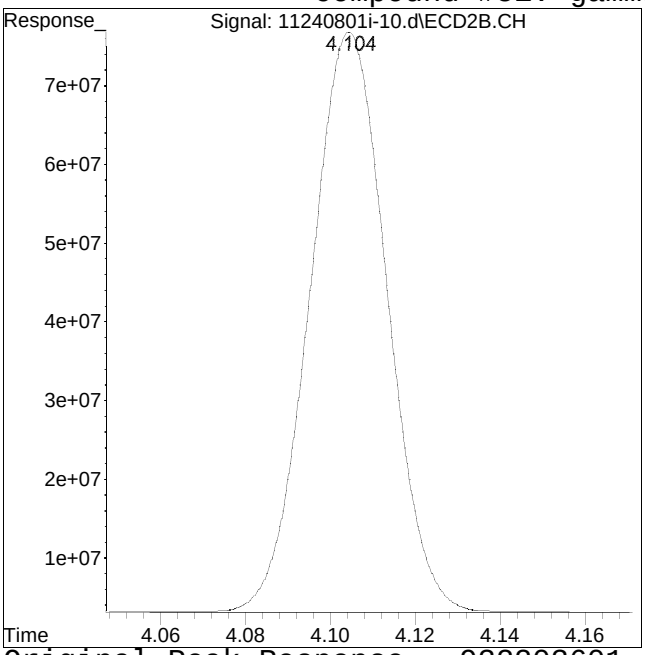


Original Peak Response = 1039074251 Manual Peak Response = 1037298579 M4
M4 = Poor automated baseline construction.

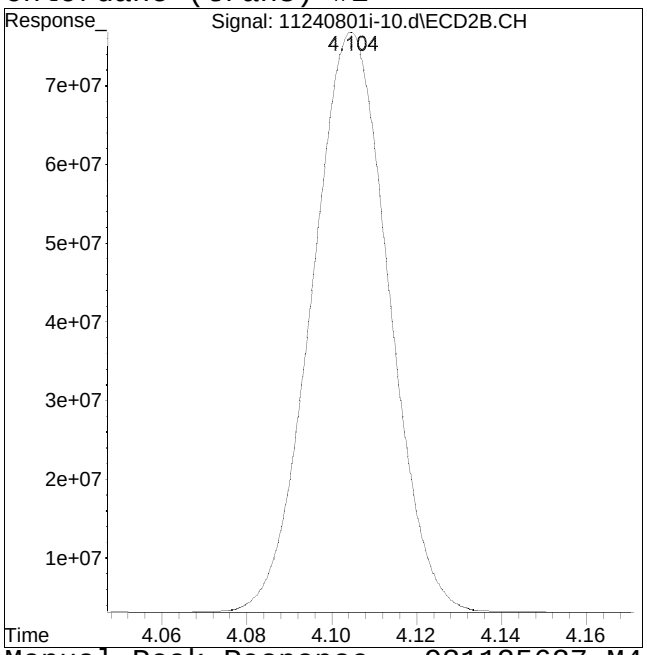
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 932203601



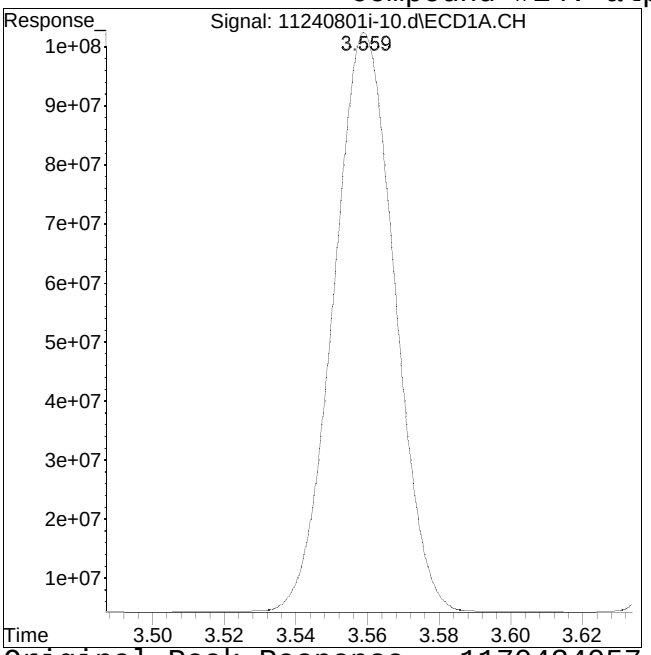
Manual Peak Response = 931125627 M4
M4 = Poor automated baseline construction.

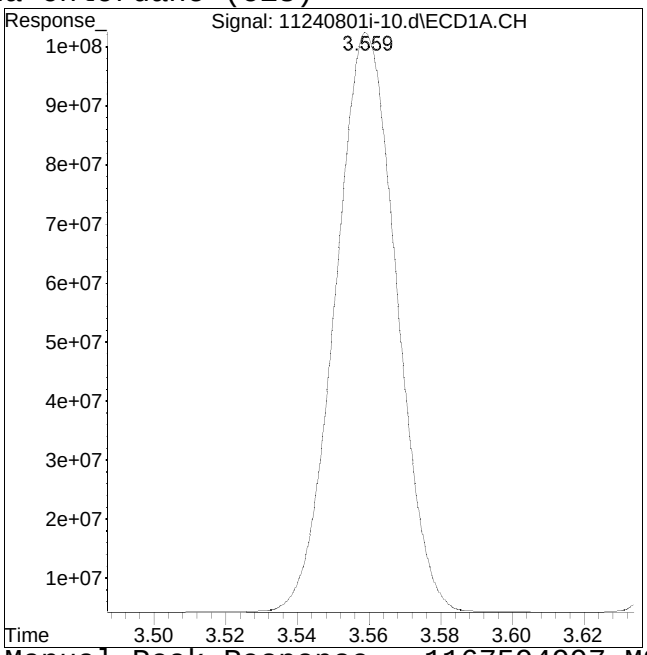
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #14: alpha-Chlordane (cis)





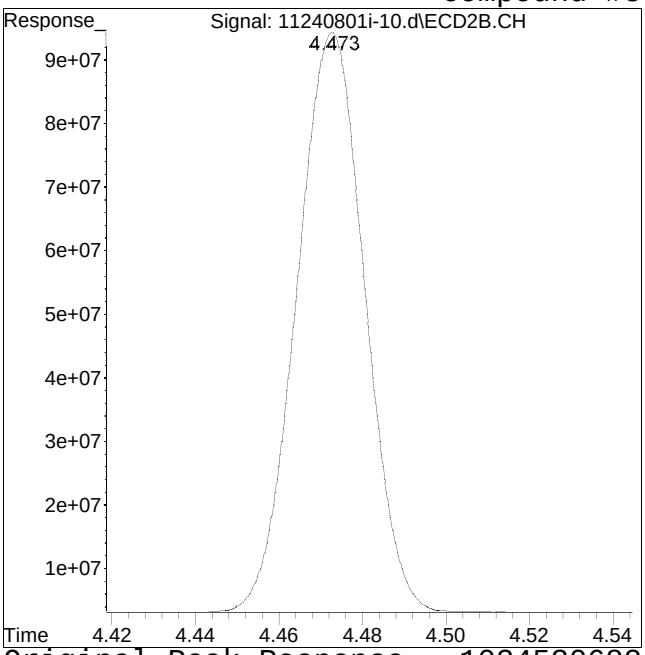
Original Peak Response = 1170434057 Manual Peak Response = 1167594997 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

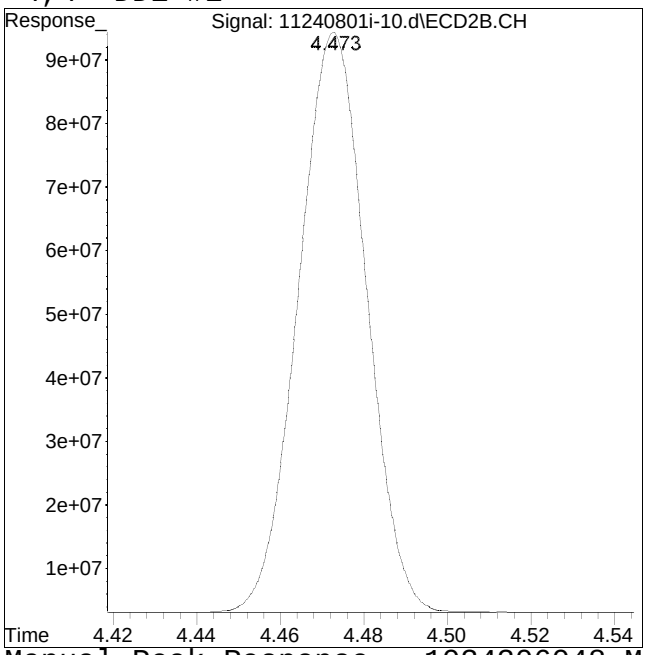
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #53: 4,4'-DDE #2





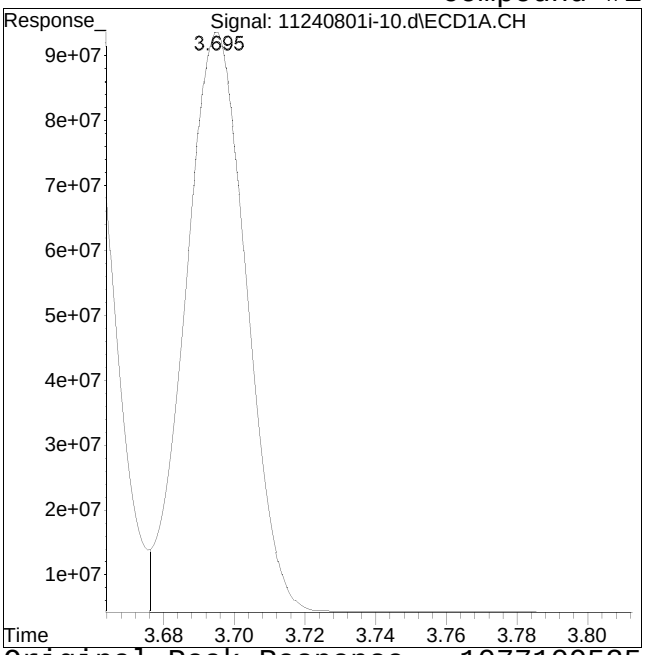
Original Peak Response = 1034530682 Manual Peak Response = 1034306048 M4
M4 = Poor automated baseline construction.

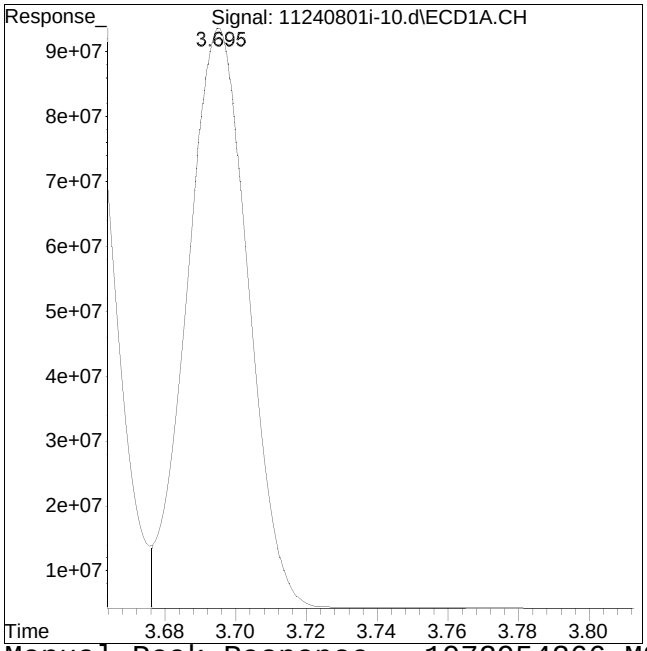
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #16: Endosulfan I



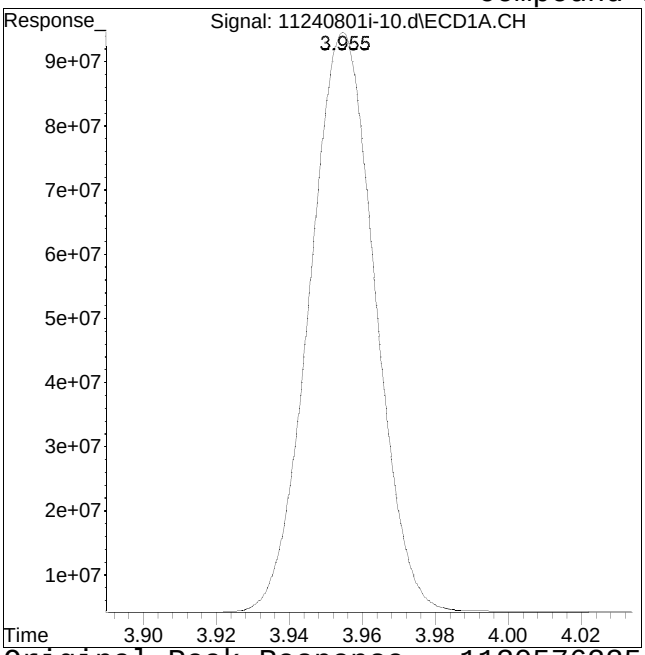


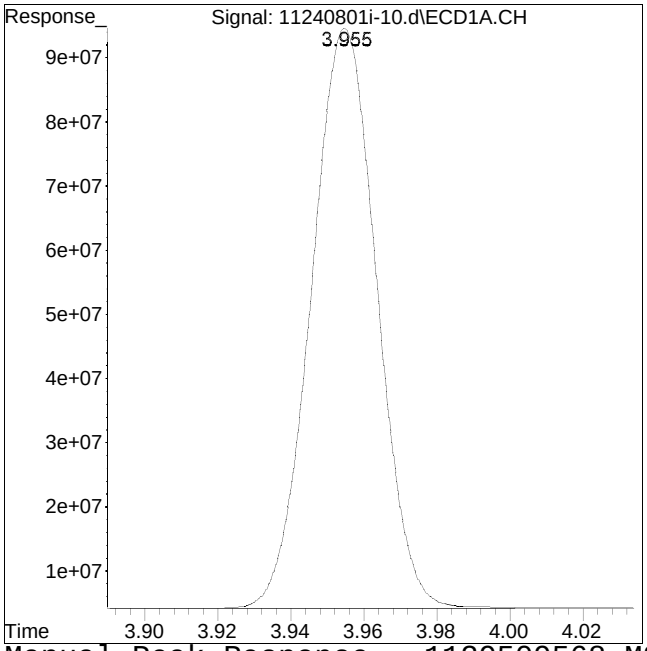
Original Peak Response = 1077109525 Manual Peak Response = 1072954266 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #17: Dieldrin



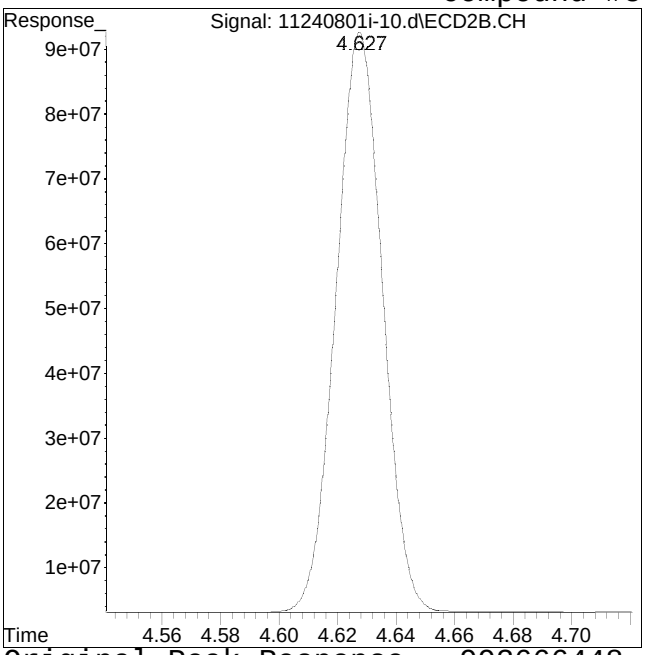


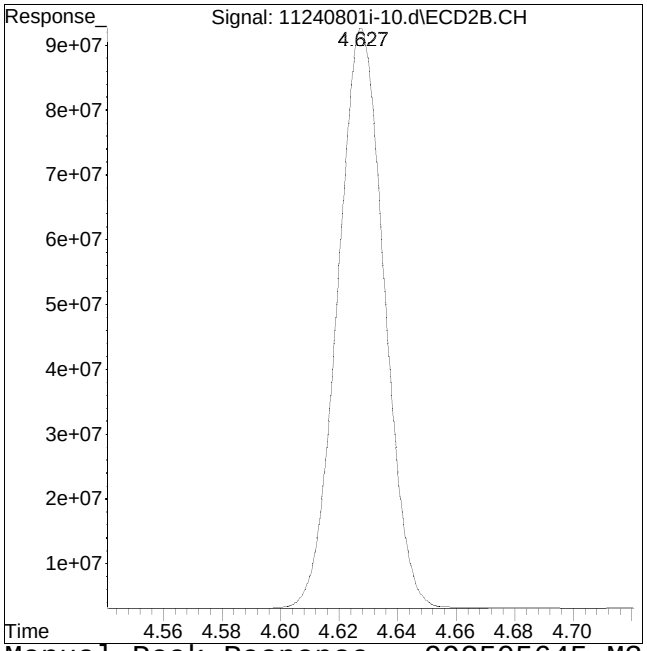
Original Peak Response = 1130576235 Manual Peak Response = 1129509568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #55: Dieldrin #2



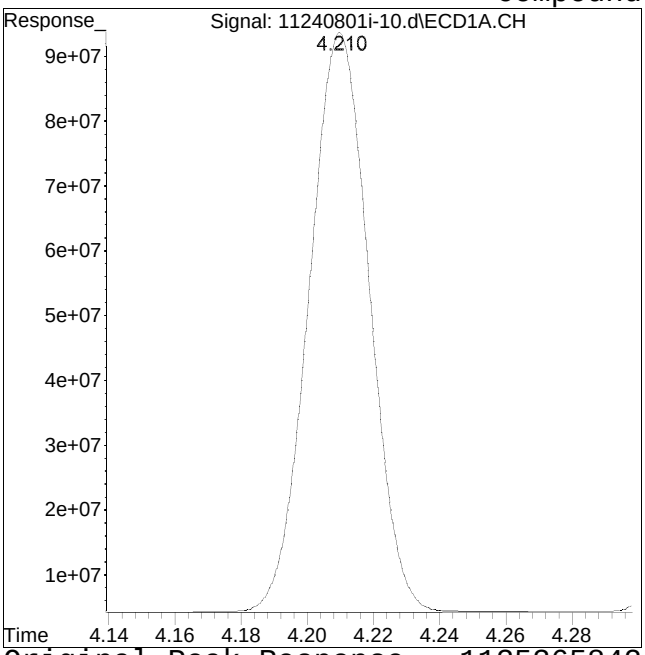


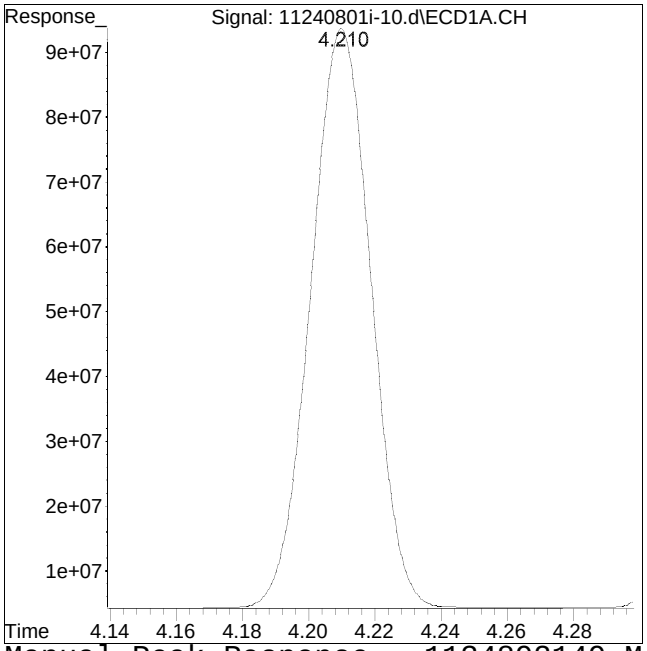
Original Peak Response = 993666448 Manual Peak Response = 992505645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #18: Endrin



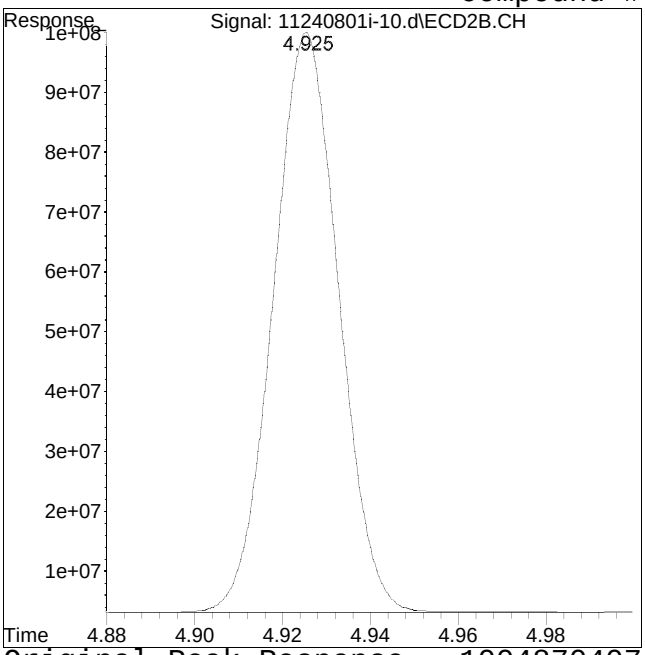


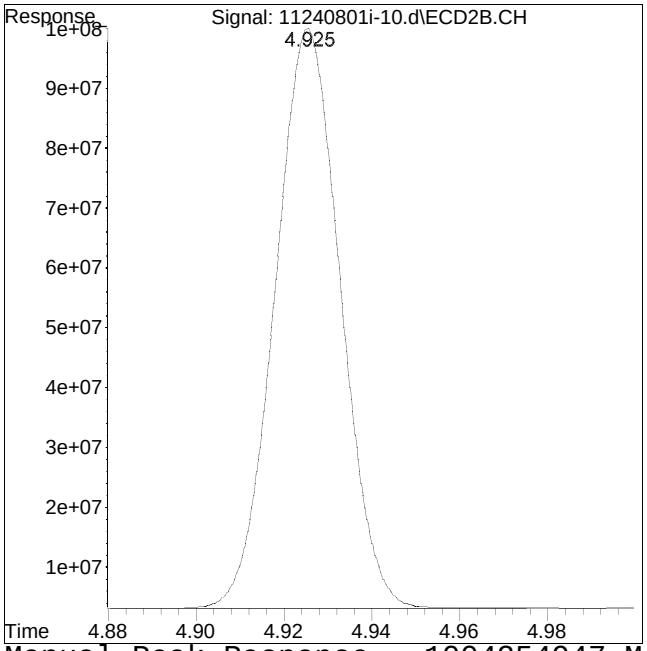
Original Peak Response = 1135365842 Manual Peak Response = 1134892149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #56: Endrin #2





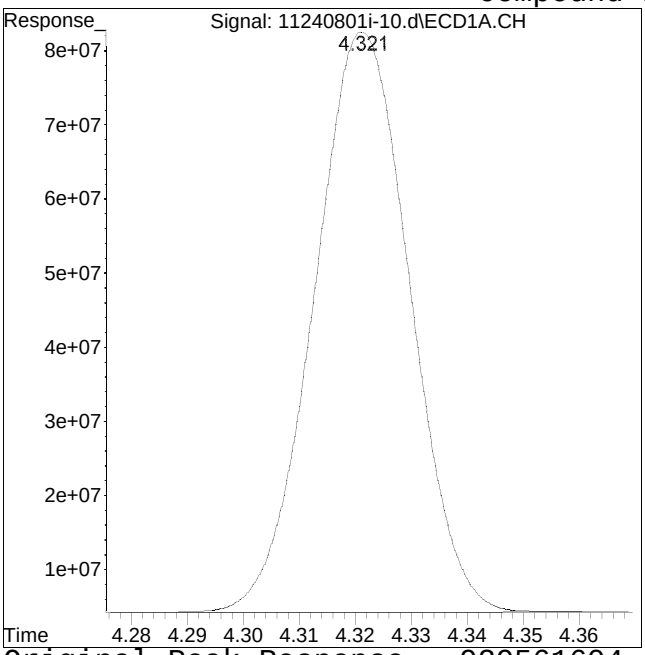
Original Peak Response = 1004870407 Manual Peak Response = 1004254947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

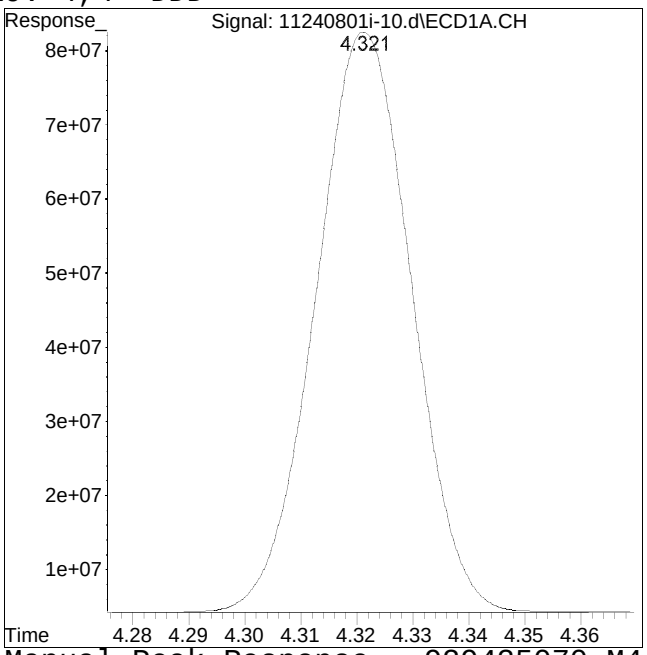
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #19: 4,4'-DDD



Original Peak Response = 929561604



Manual Peak Response = 929435070 M4

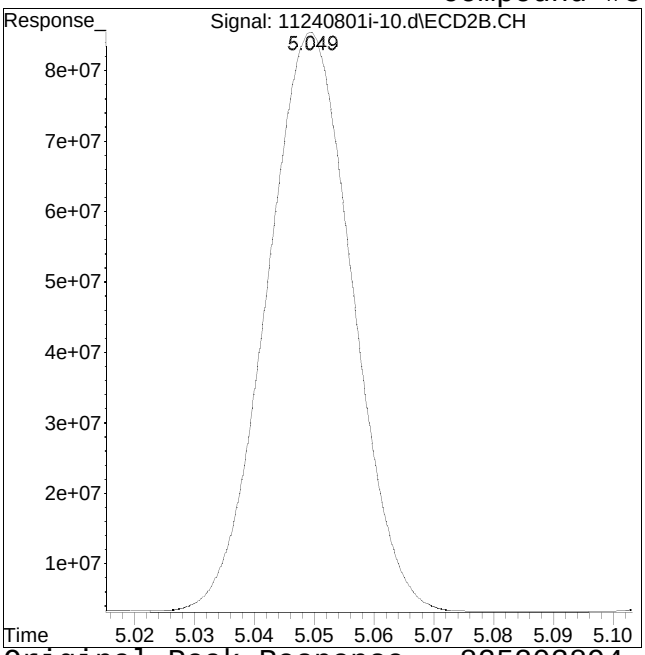
M4 = Poor automated baseline construction.

Manual Integration Report

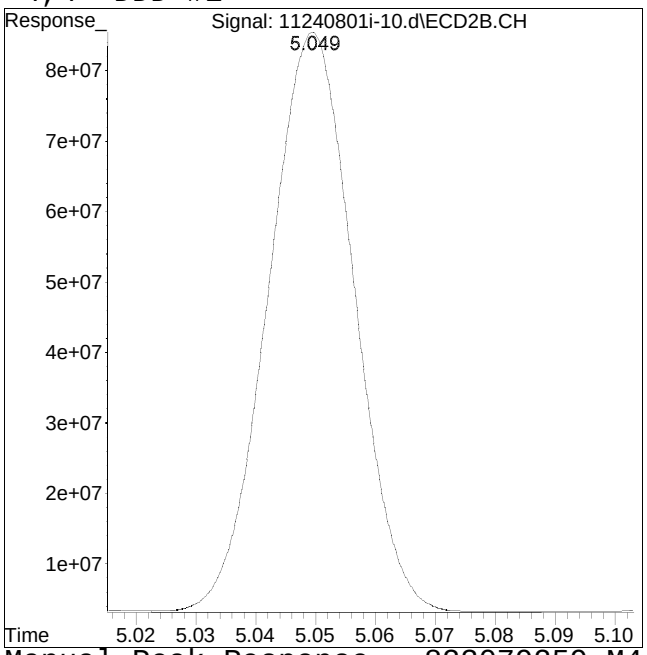
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 825203894



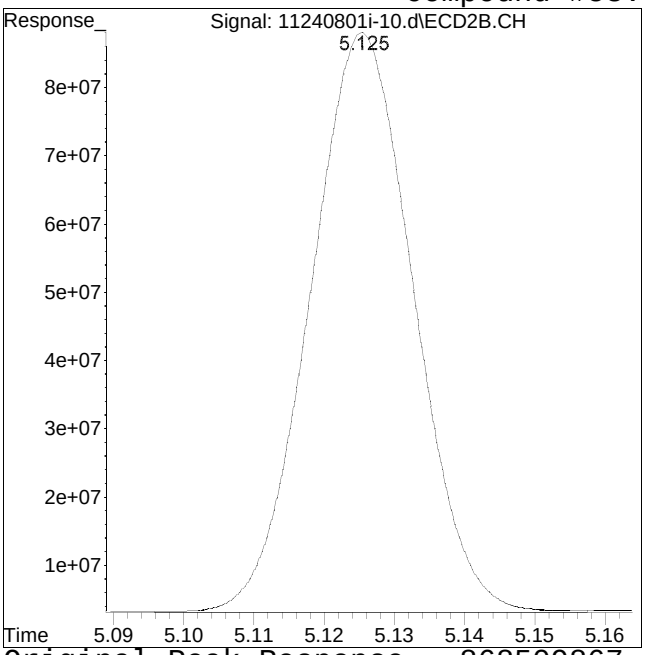
Manual Peak Response = 823079259 M4

M4 = Poor automated baseline construction.

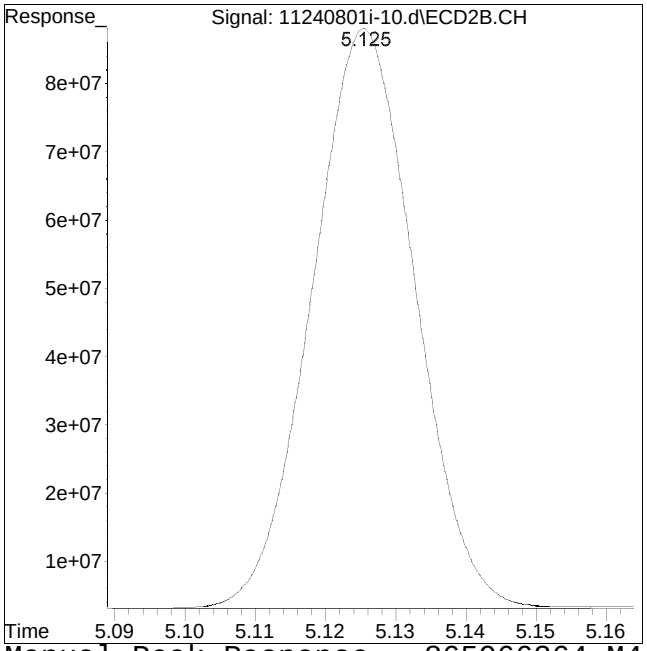
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #58: Endosulfan II #2



Original Peak Response = 868509867



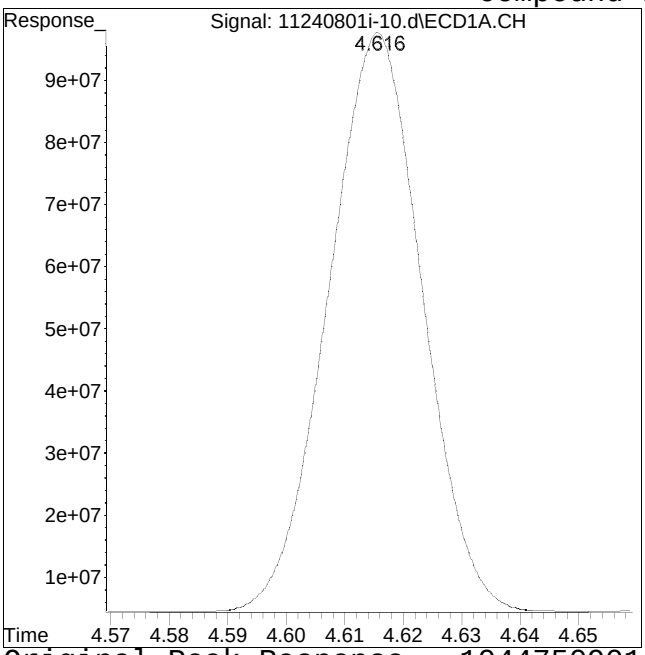
Manual Peak Response = 865966264 M4

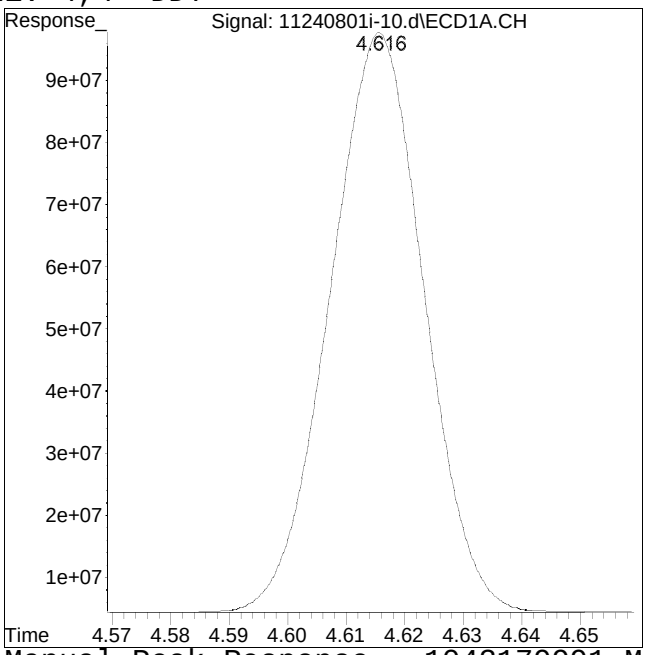
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #21: 4,4'-DDT





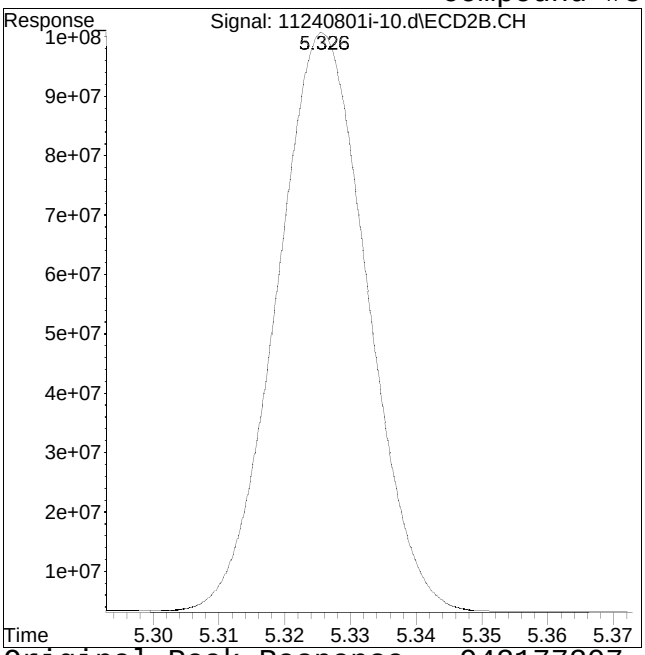
Original Peak Response = 1044750901 Manual Peak Response = 1043179991 M4
M4 = Poor automated baseline construction.

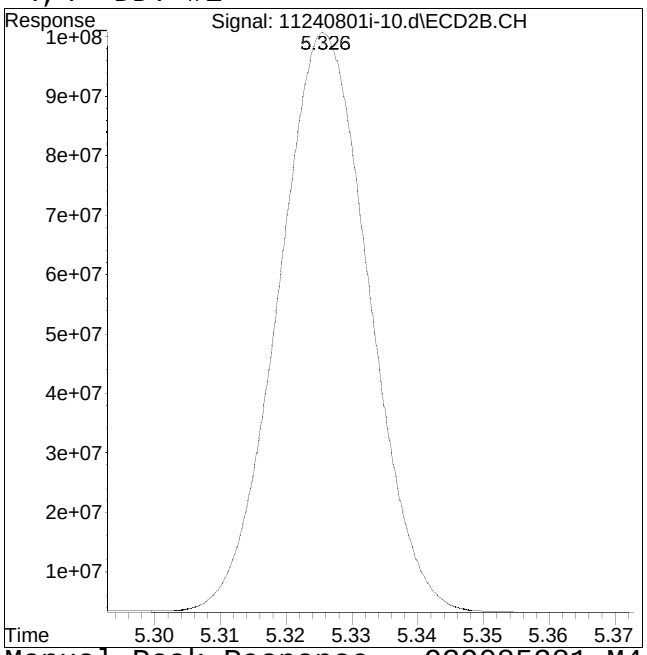
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #59: 4,4'-DDT #2





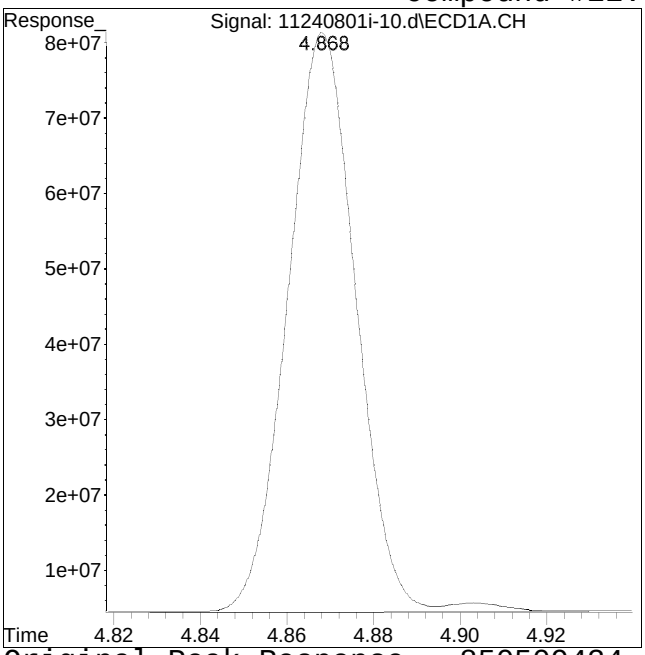
Original Peak Response = 942177307 Manual Peak Response = 939085381 M4
M4 = Poor automated baseline construction.

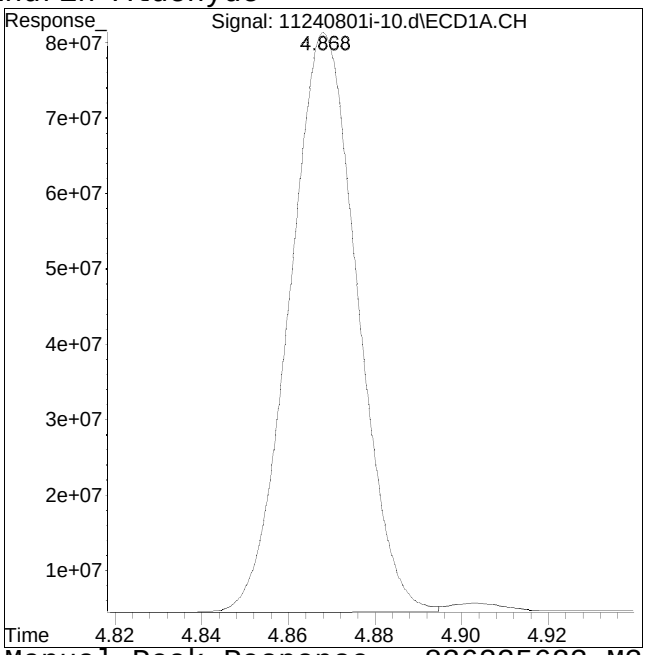
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #22: Endrin Aldehyde





Original Peak Response = 850509434 Manual Peak Response = 836335623 M3

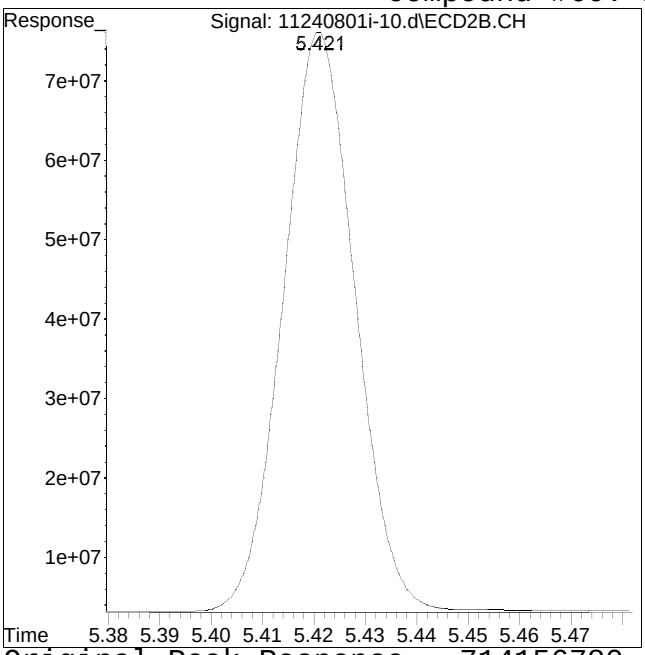
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

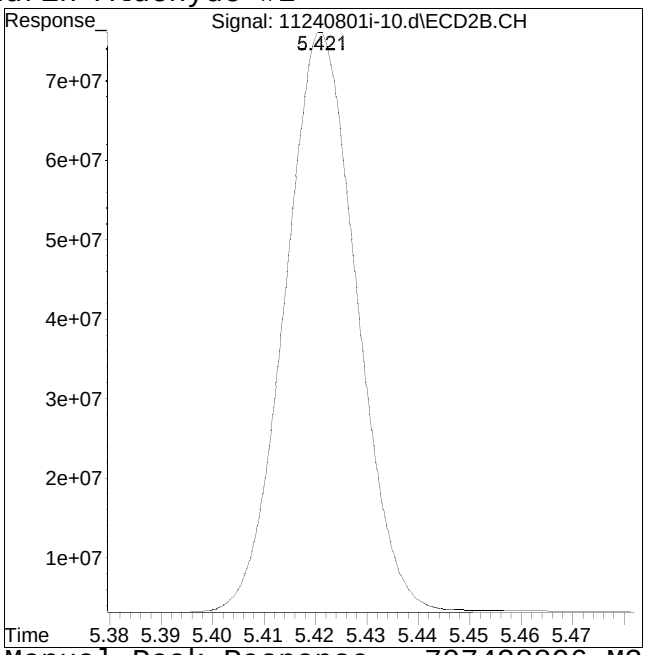
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 714156780 Manual Peak Response = 707438896 M3

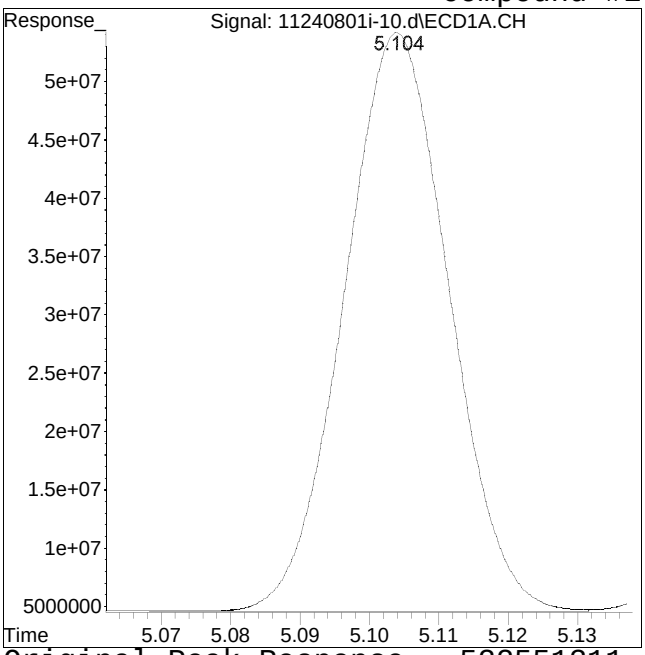
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

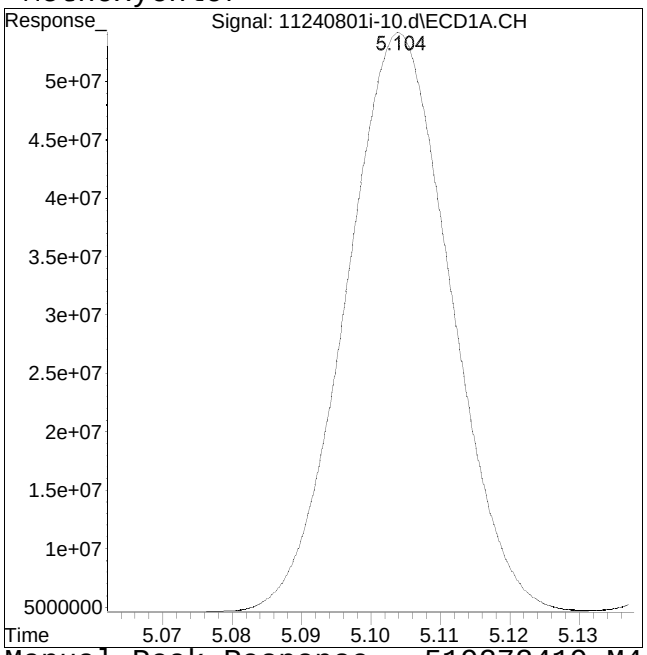
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #23: Methoxychlor





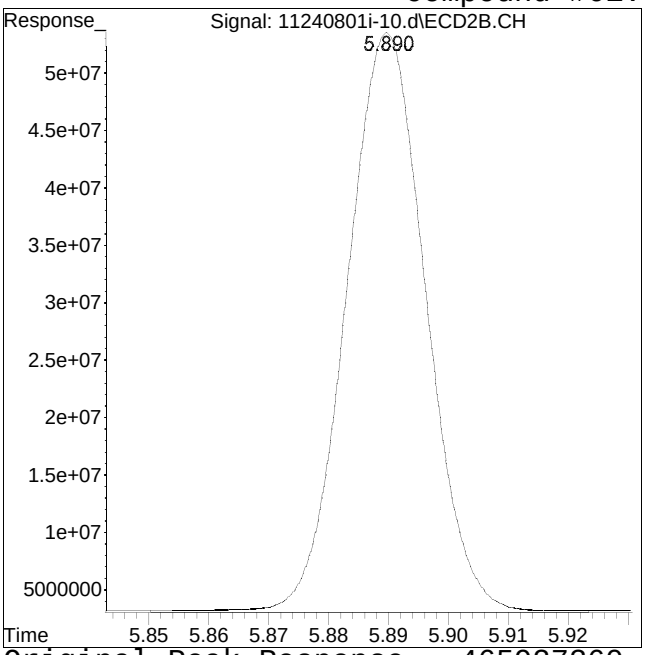
Original Peak Response = 522551311 Manual Peak Response = 519272419 M4
M4 = Poor automated baseline construction.

Manual Integration Report

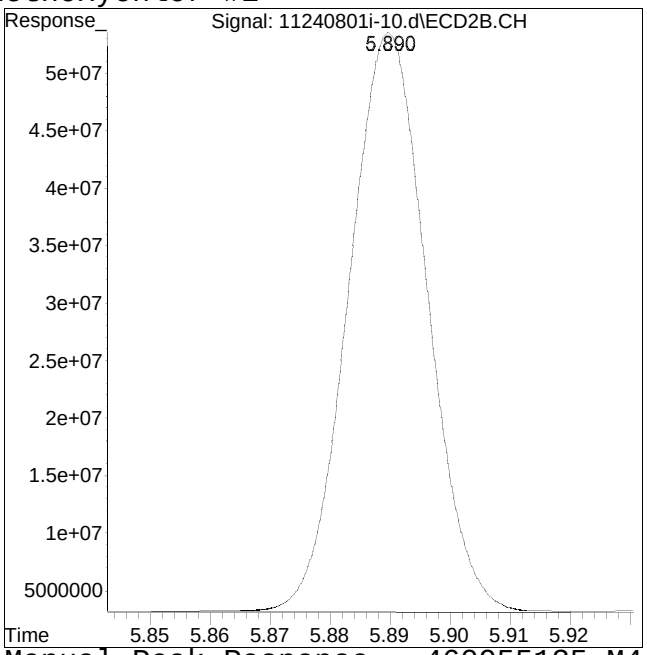
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #61: Methoxychlor #2



Original Peak Response = 465927360



Manual Peak Response = 460955135 M4

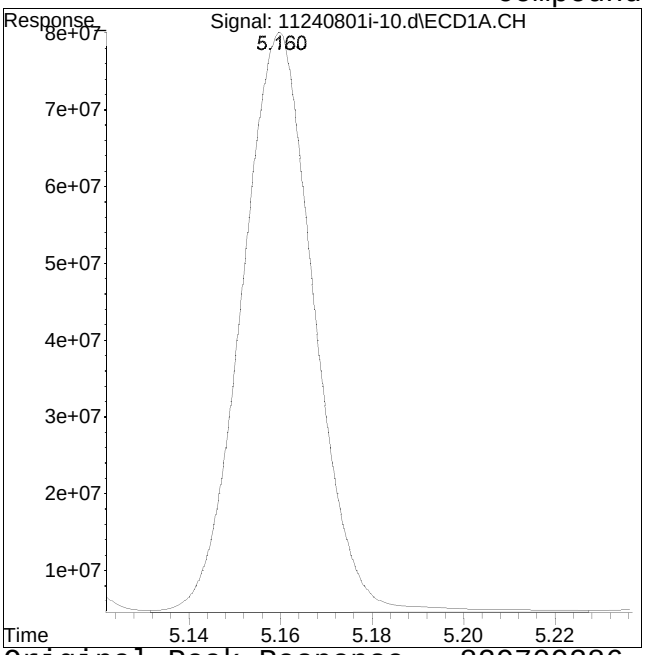
M4 = Poor automated baseline construction.

Manual Integration Report

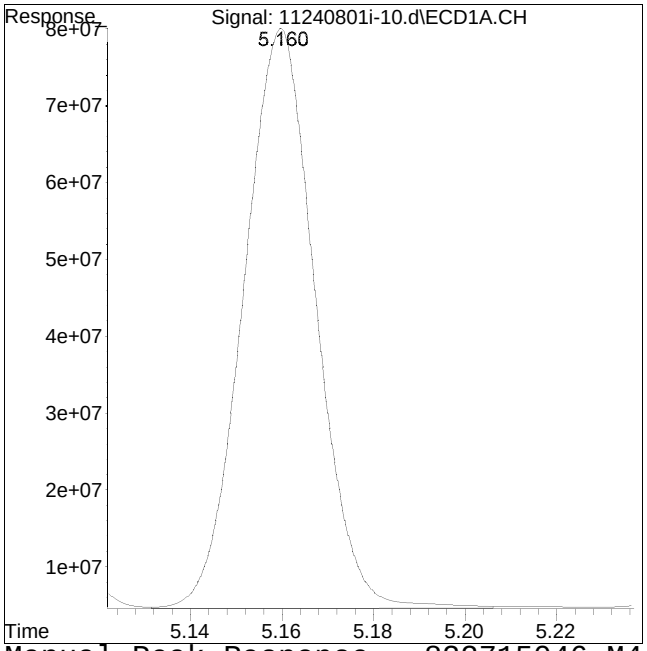
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #24: Mirex



Original Peak Response = 829709386



Manual Peak Response = 822715046 M4

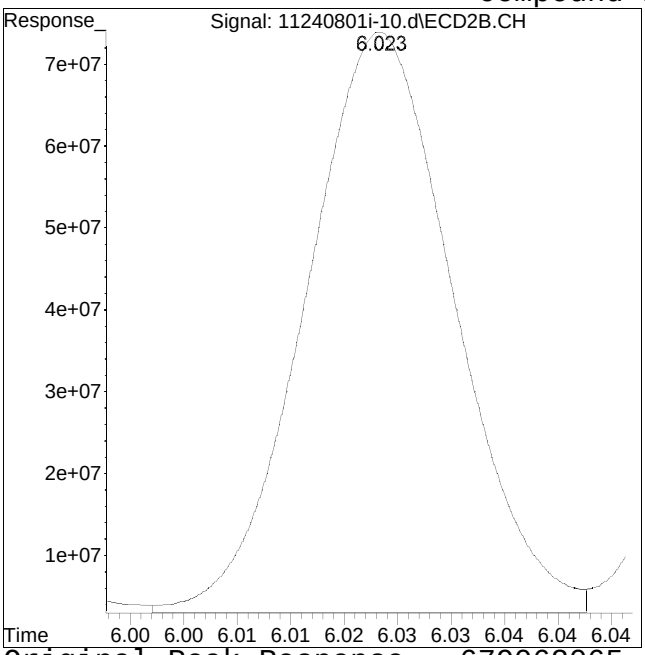
M4 = Poor automated baseline construction.

Manual Integration Report

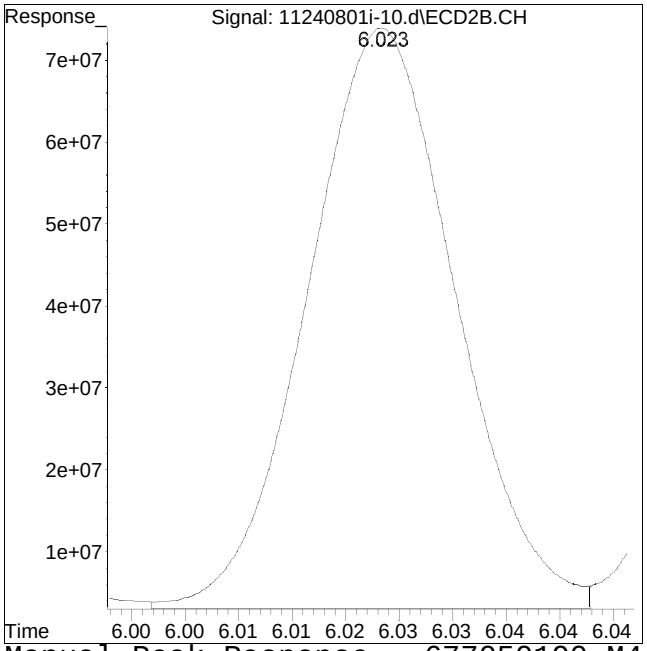
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #62: Mirex #2



Original Peak Response = 679062065



Manual Peak Response = 677050190 M4

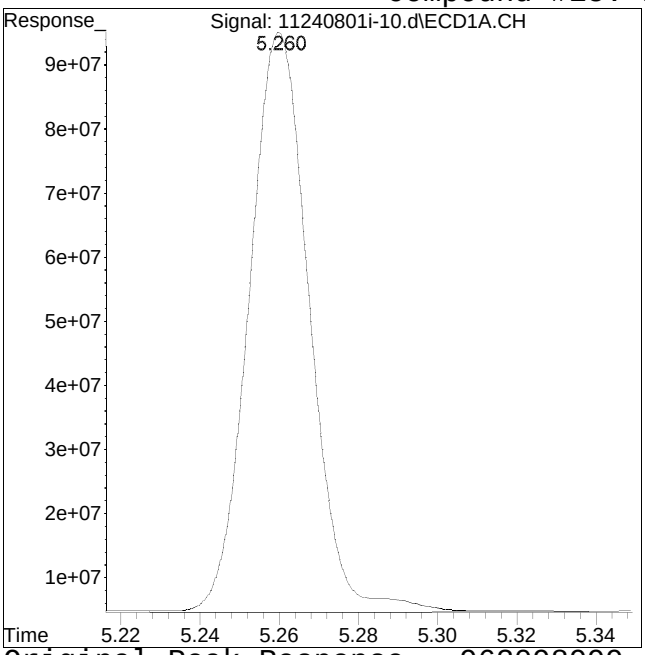
M4 = Poor automated baseline construction.

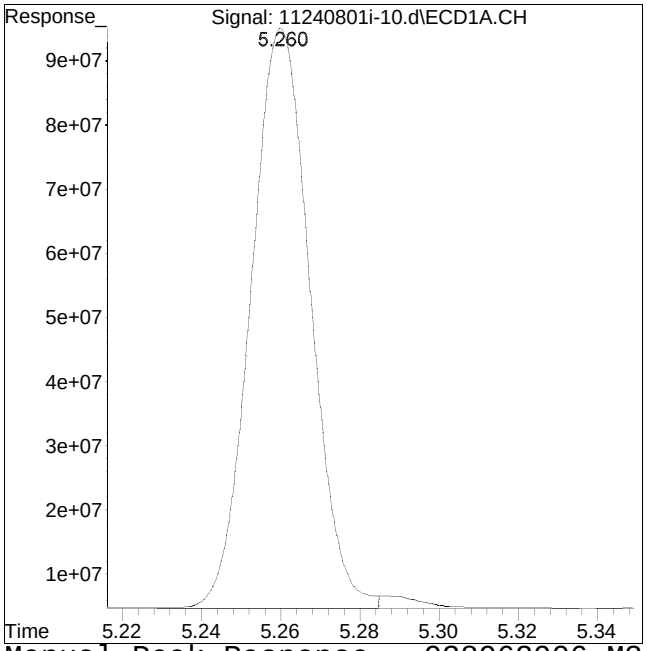
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 963098999 Manual Peak Response = 938962906 M3

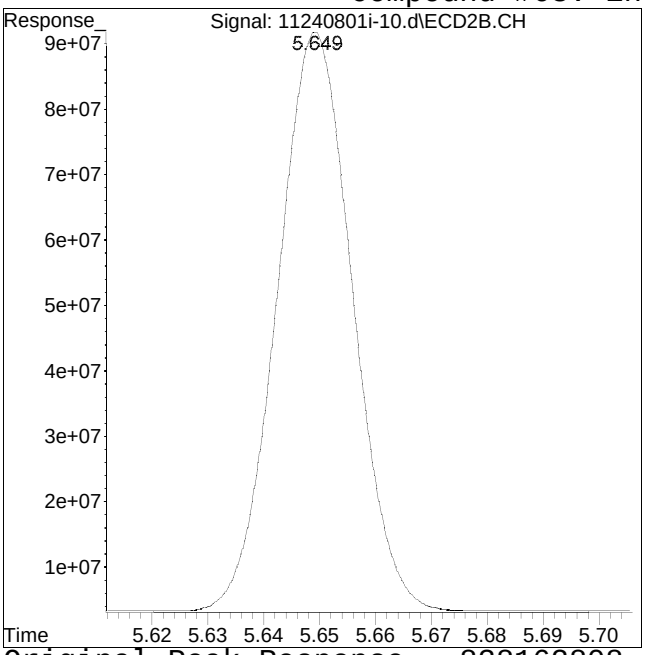
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

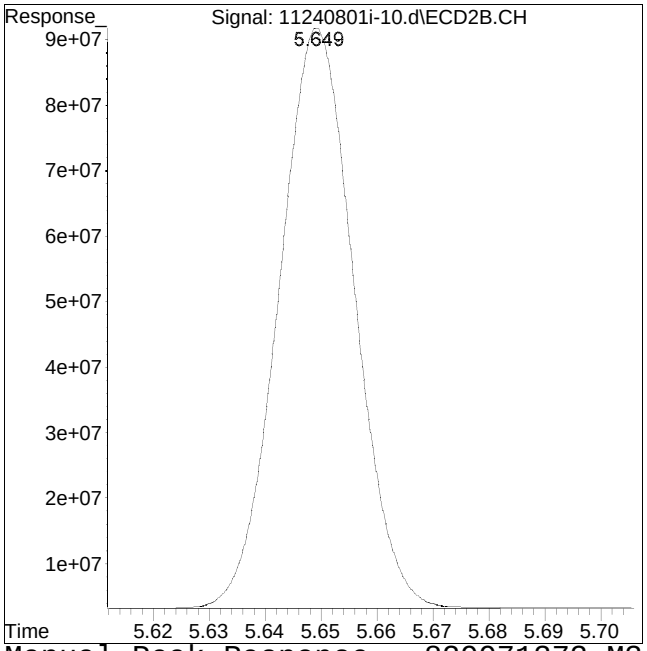
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #63: Endosulfan Sulfate #2





Original Peak Response = 838162808 Manual Peak Response = 829971373 M3

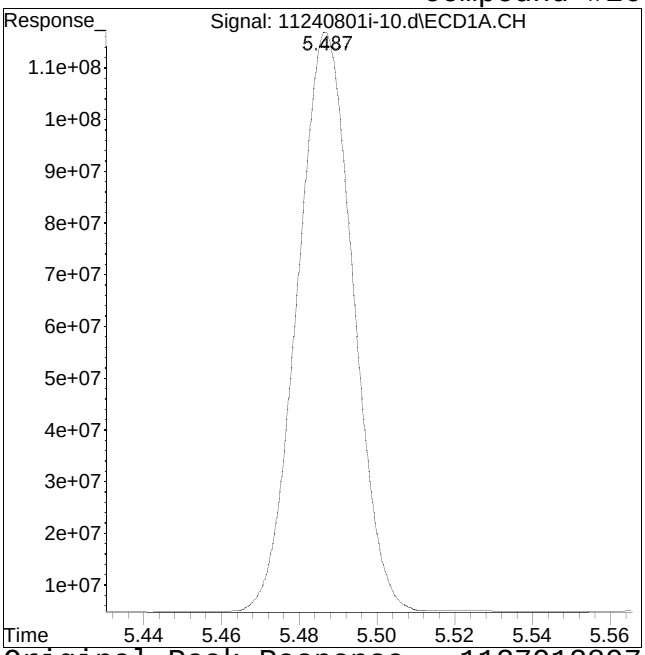
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

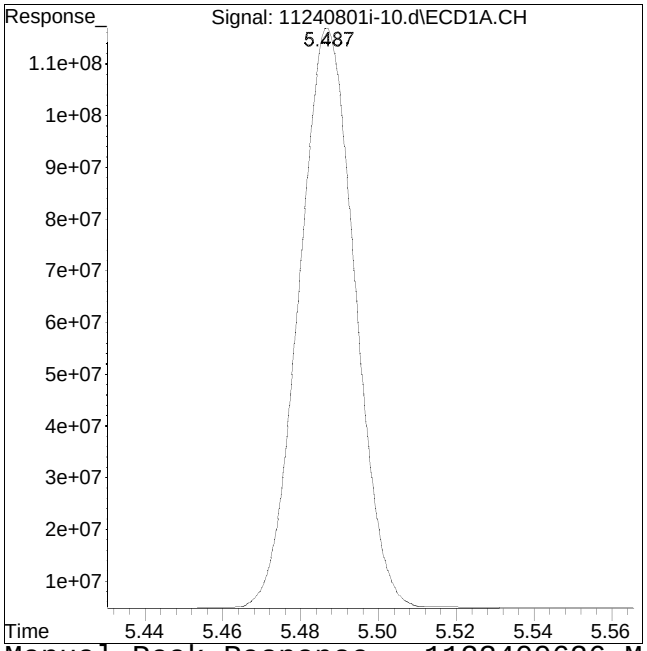
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #26: Endrin Ketone



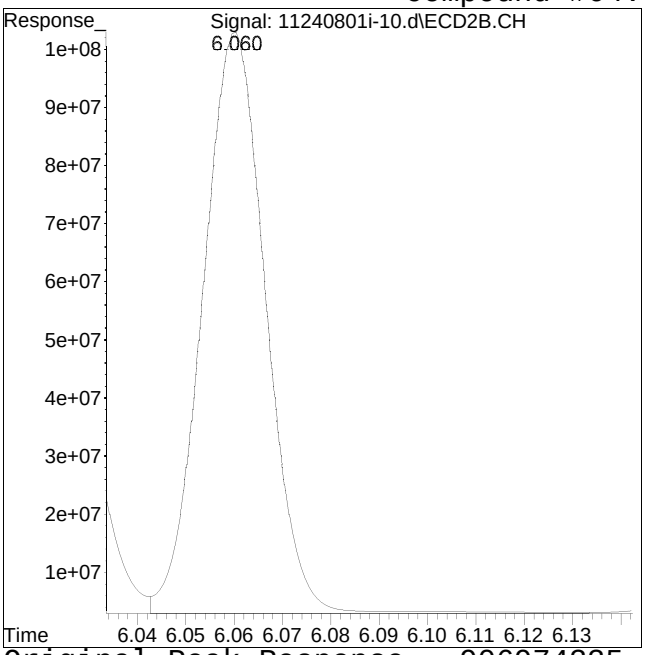


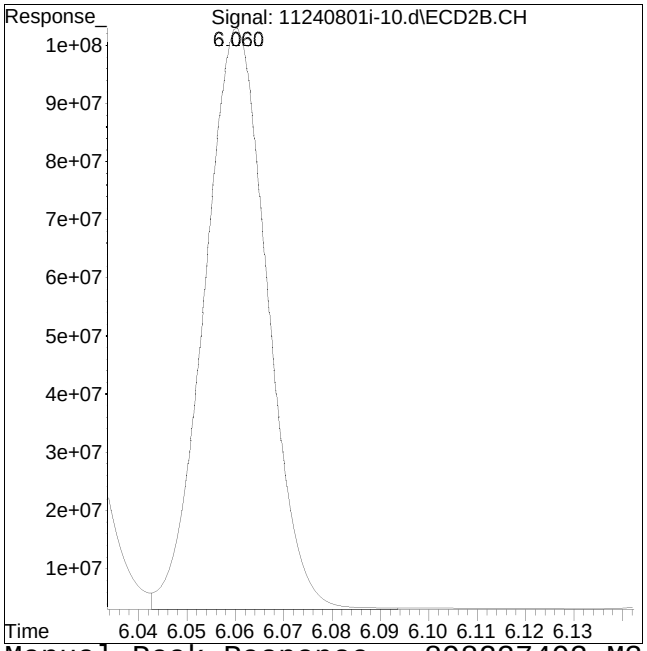
Original Peak Response = 1127912897 Manual Peak Response = 1123400626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #64: Endrin Ketone #2





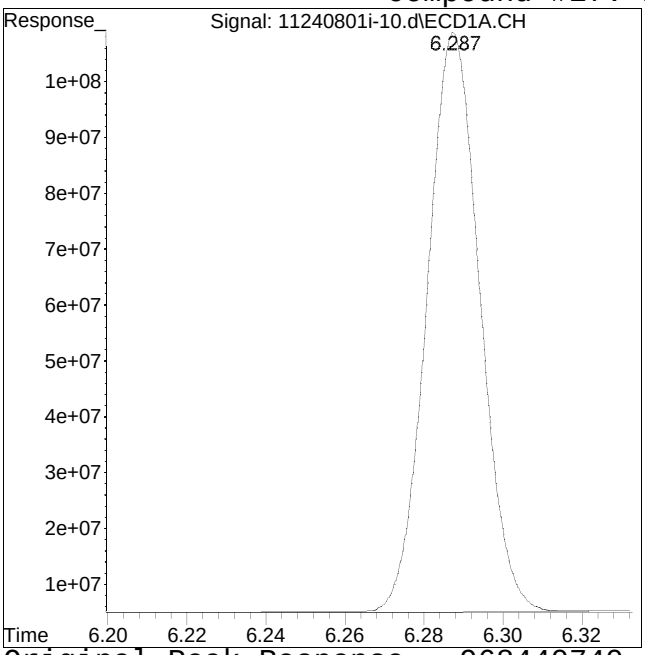
Original Peak Response = 906974335 Manual Peak Response = 898237493 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

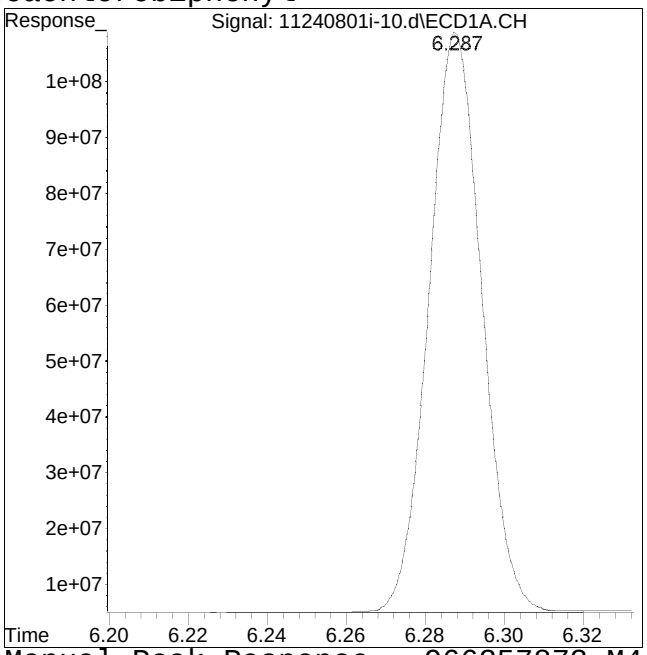
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 968440740



Manual Peak Response = 966357873 M4

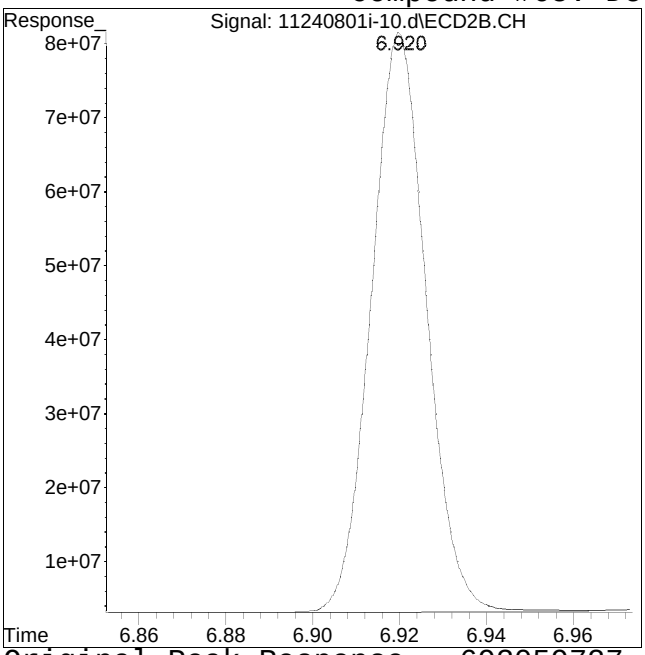
M4 = Poor automated baseline construction.

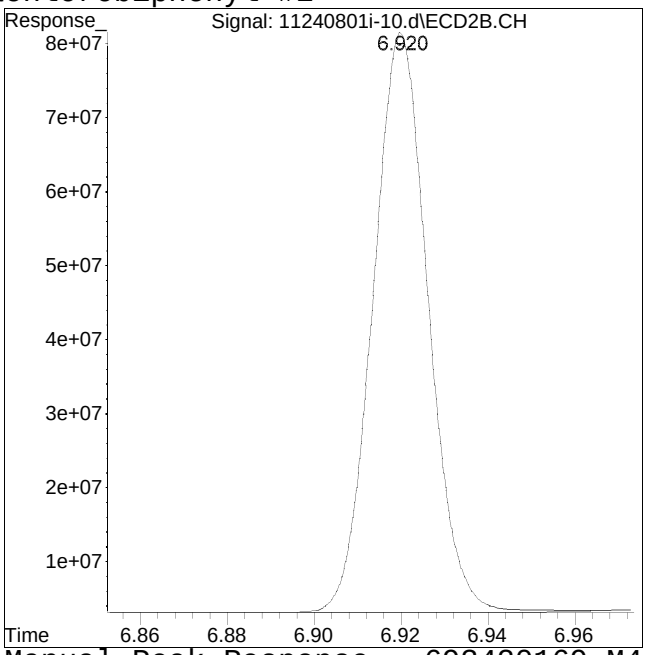
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 693059727 Manual Peak Response = 693420169 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	234.6E6	183.1E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	1913.3E6	1598.0E6	193.264M3	202.706M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		386.53%#	405.41%#
27) s	Decachlorobi	6.288	6.920	1913.5E6	1380.9E6	195.015M4	201.842M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		390.03%#	403.68%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	2442.7E6	1675.4E6	191.797M3	199.678
4) t	alpha-BHC	1.964	2.271	3010.2E6	2583.6E6	198.283M4	206.150M3
5) t	gamma-BHC (l	2.166	2.557	2765.0E6	2320.8E6	197.699M3	205.175M4
6) t	beta-BHC	2.221	2.622	1120.5E6	933.3E6	194.276M4	198.901M4
7) t	delta-BHC	2.350	2.889	2819.2E6	2384.1E6	199.250M4	206.915M4
8) t	Heptachlor	2.513	2.952	2482.5E6	2268.1E6	191.877M4	198.593M4
9) t	Aldrin	2.757	3.271	2440.7E6	2165.8E6	197.425M4	203.689
10) t	Alachlor	2.877	3.153	373.3E6	252.0E6	178.169M4	180.792M3
11) t	Chlorpyrifos	2.969	3.506	874.1E6	975.3E6	175.986M4	185.391M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.301	3.884	2205.7E6	1981.0E6	192.763M3	199.269M4
13)	t	gamma-Chlord	3.425	4.105	2083.4E6	1868.5E6	200.885M4	206.064M4
14)	t	alpha-Chlord	3.559	4.274	2331.6E6	2051.6E6	198.900M3	204.428M4
15)	t	4,4'-DDE	3.657	4.473	2393.8E6	2077.4E6	202.115M4	207.169M3
16)	t	Endosulfan I	3.696	4.336	2104.4E6	1850.2E6	194.817M4	199.685M4
17)	t	Dieldrin	3.955	4.628	2245.1E6	1969.5E6	198.785M4	203.766M4
18)	t	Endrin	4.210	4.926	2229.3E6	1985.9E6	195.383M3	202.639M4
19)	t	4,4'-DDD	4.322	5.050	1880.5E6	1661.0E6	203.384M4	208.277M4
20)	t	Endosulfan I	4.452	5.126	1974.6E6	1684.2E6	192.875M4	198.396M4
21)	t	4,4'-DDT	4.616	5.326	2109.7E6	1890.1E6	202.314M4	207.312M3
22)	t	Endrin Aldeh	4.869	5.421	1666.3E6	1402.7E6	198.364M4	202.391M3
23)	t	Methoxychlor	5.104	5.890	988.3E6	899.3E6	185.976M4	196.434M3
24)	t	Mirex	5.160	6.023	1621.2E6	1338.7E6	194.224M4	199.638M4
25)	t	Endosulfan S	5.260	5.649	1840.3E6	1637.4E6	194.770M3	201.144M4
26)	t	Endrin Keton	5.487	6.060	2176.6E6	1757.5E6	191.458M4	198.938M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

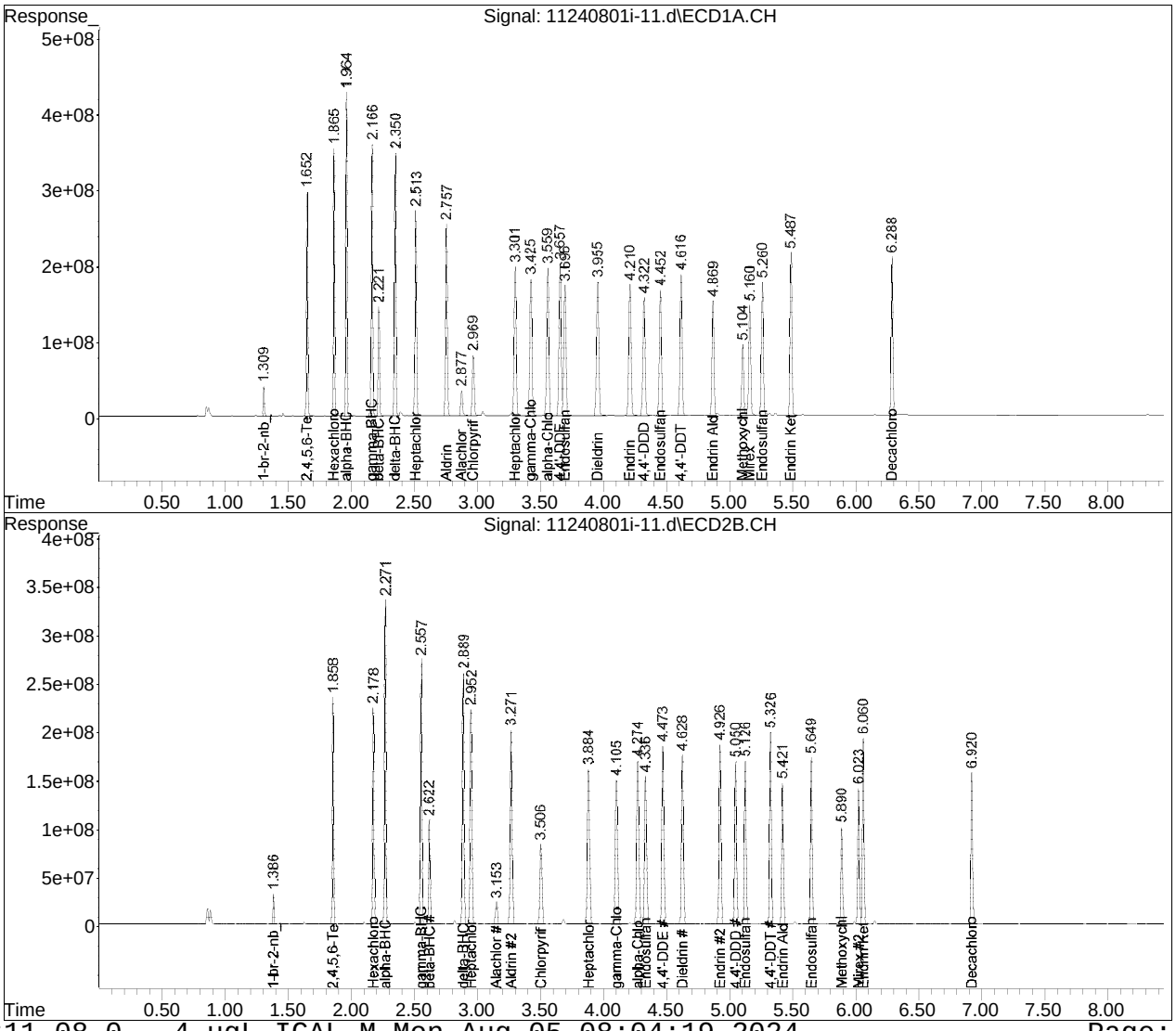
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

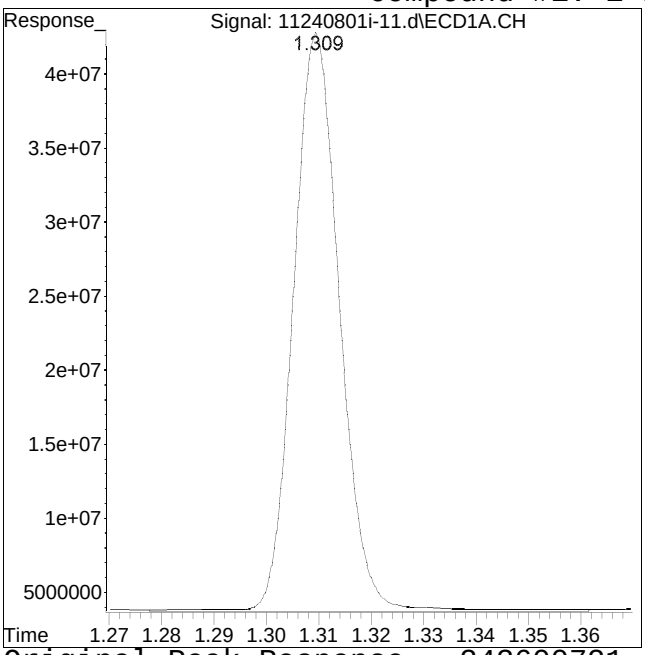


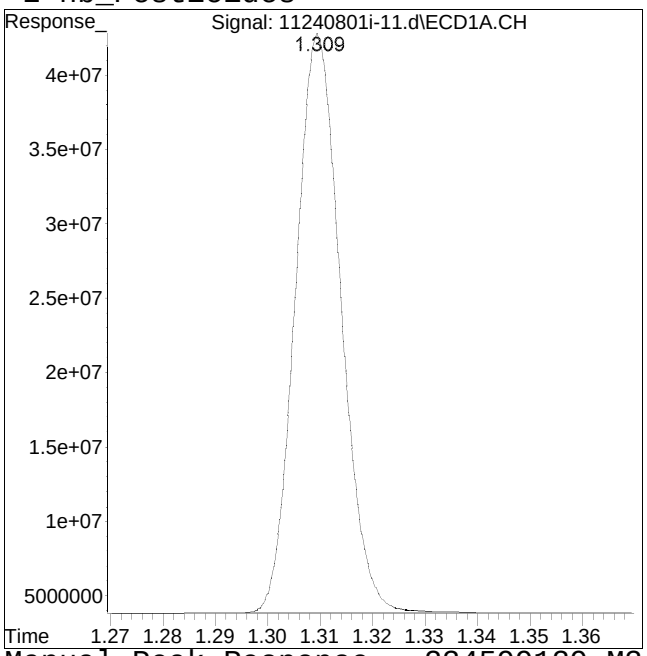
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #1: 1-br-2-nb_Pesticides





Original Peak Response = 243600721 Manual Peak Response = 234599129 M3

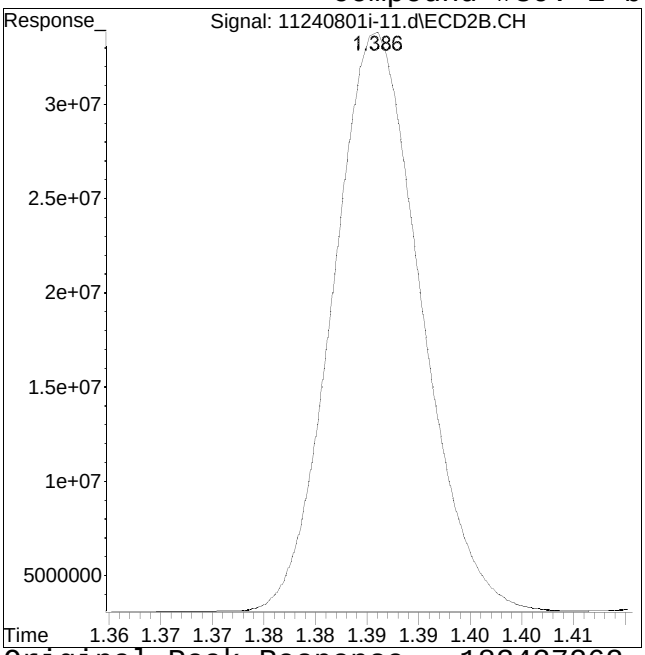
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

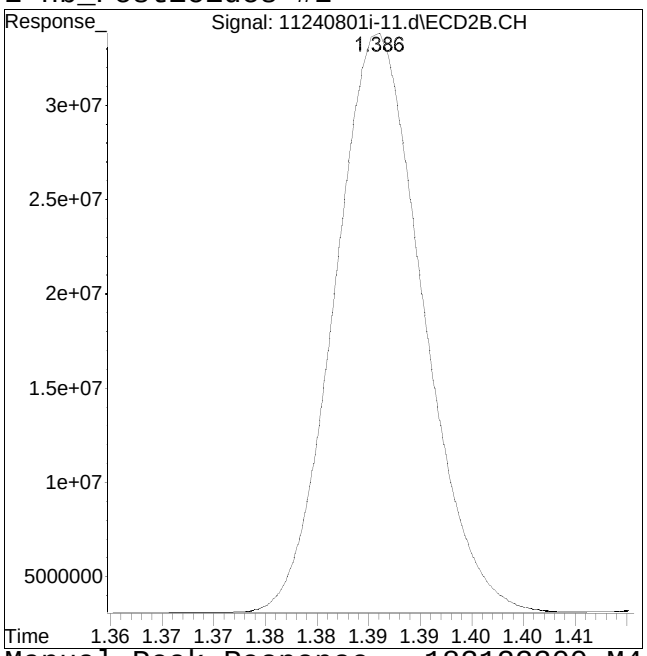
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #39: 1-br-2-nb_Pesticides #2





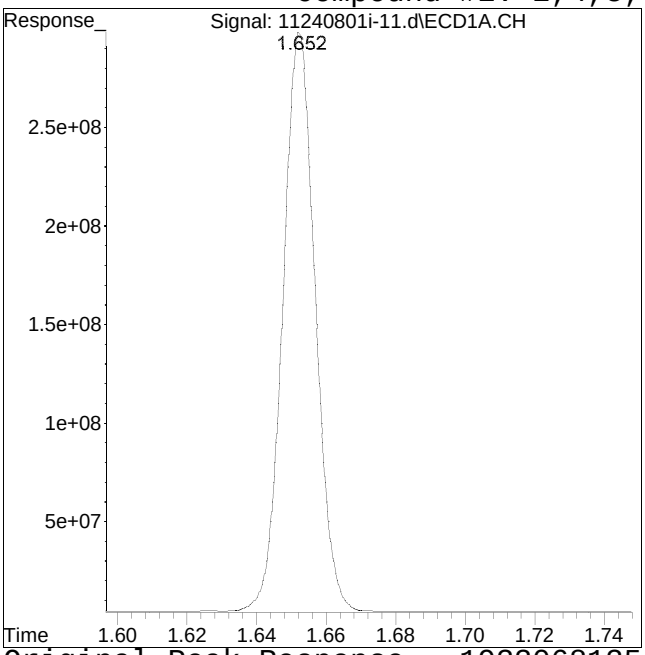
Original Peak Response = 183427262 Manual Peak Response = 183123300 M4
M4 = Poor automated baseline construction.

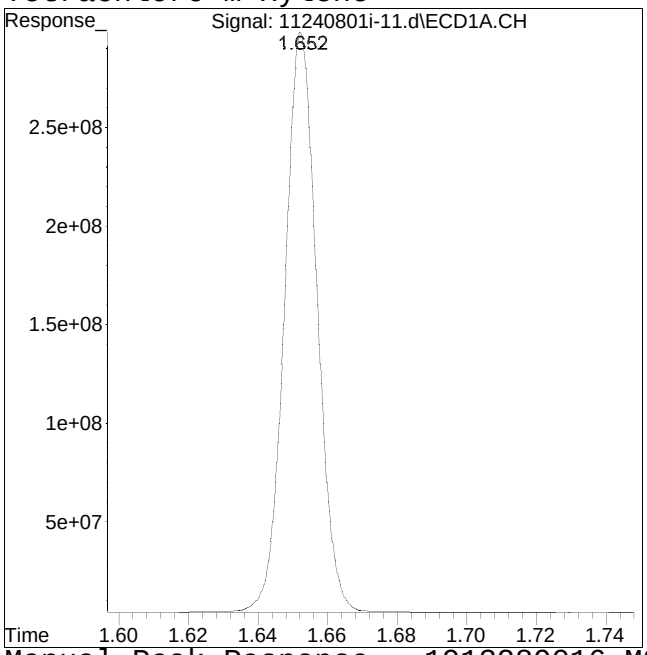
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





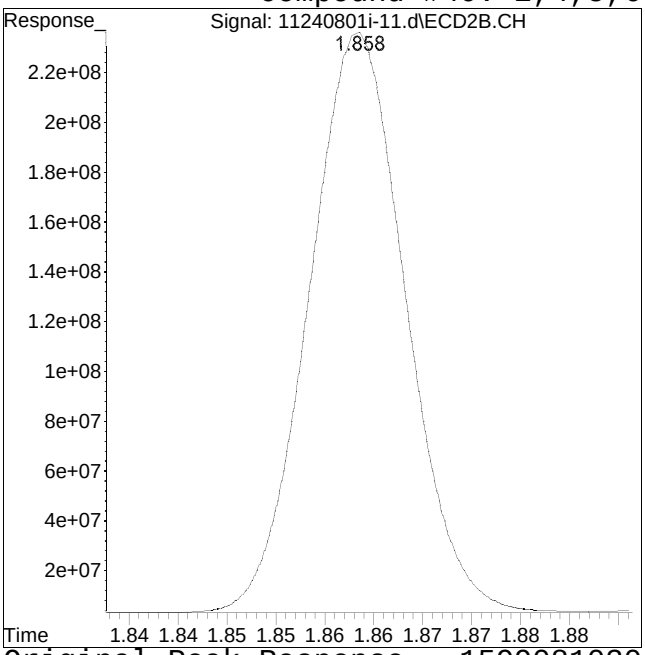
Original Peak Response = 1933068135 Manual Peak Response = 1913289016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

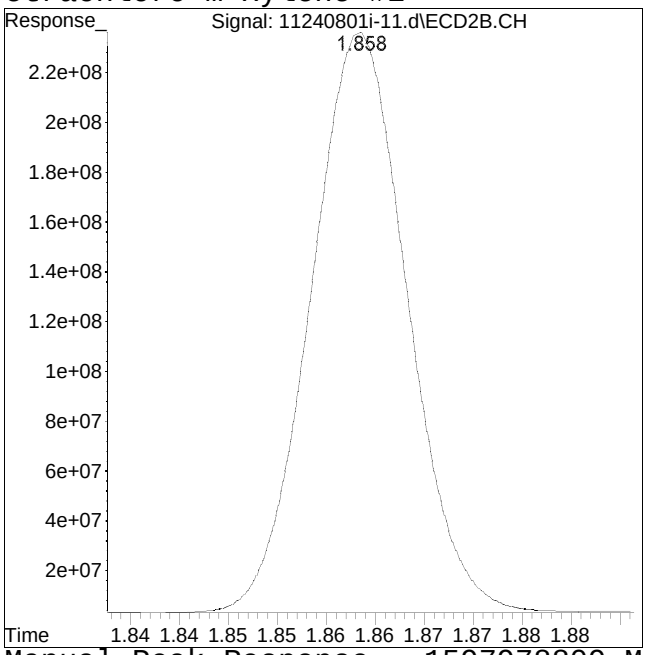
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



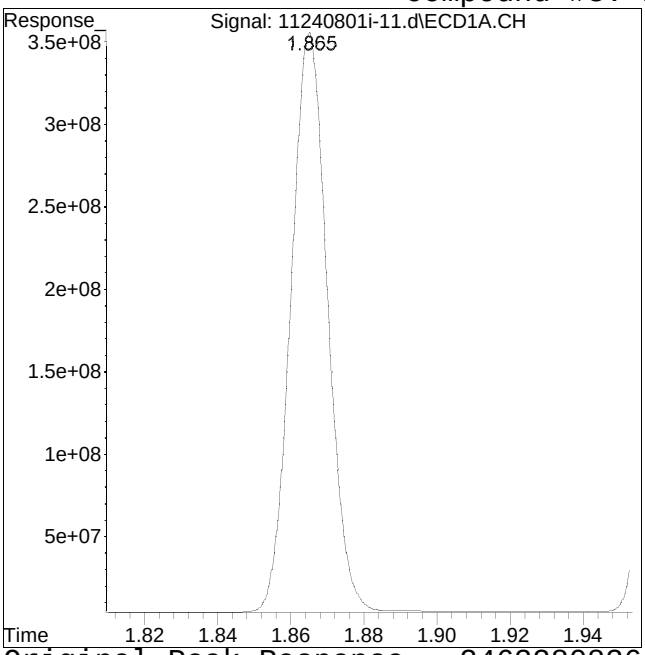


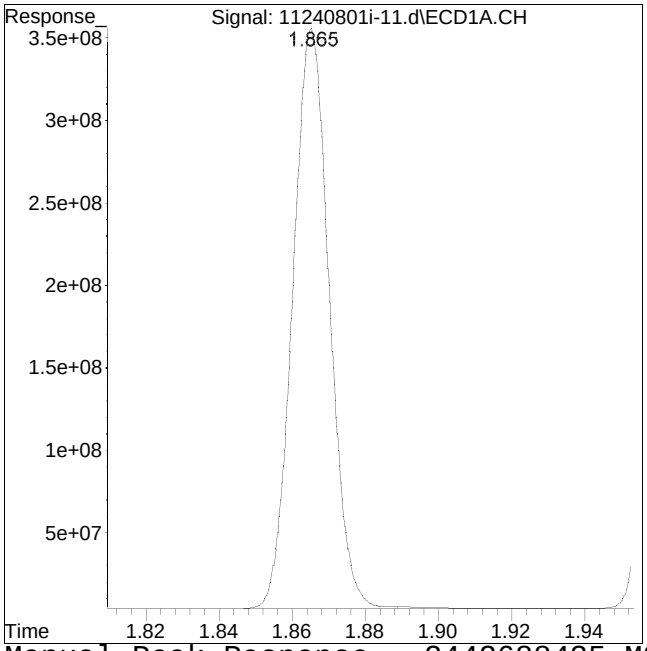
Original Peak Response = 1599081030 Manual Peak Response = 1597978809 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #3: Hexachlorobenzene



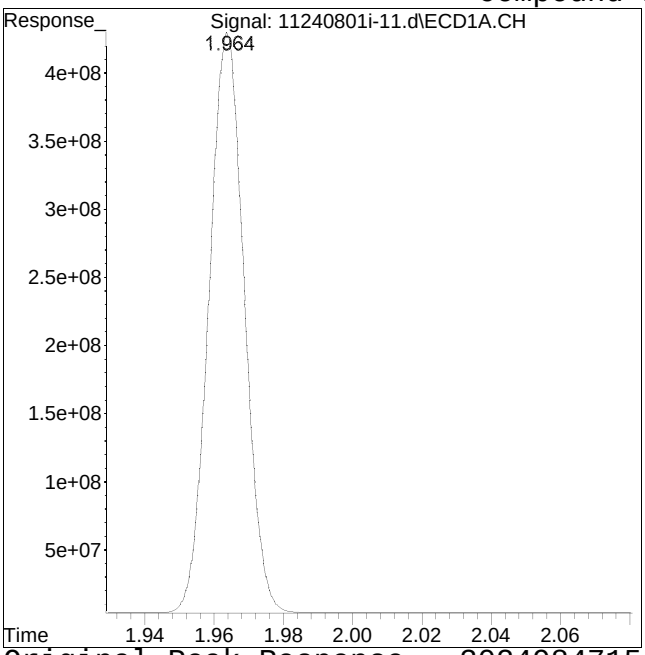


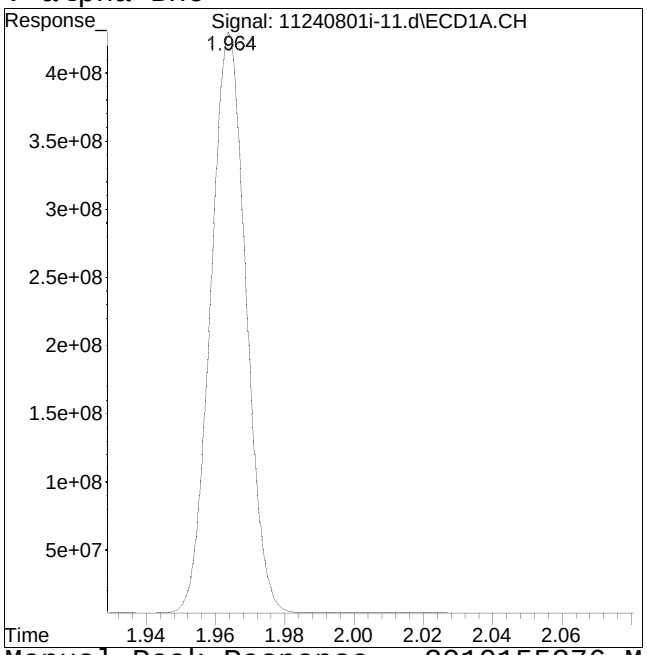
Original Peak Response = 2463280836 Manual Peak Response = 2442688435 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #4: alpha-BHC





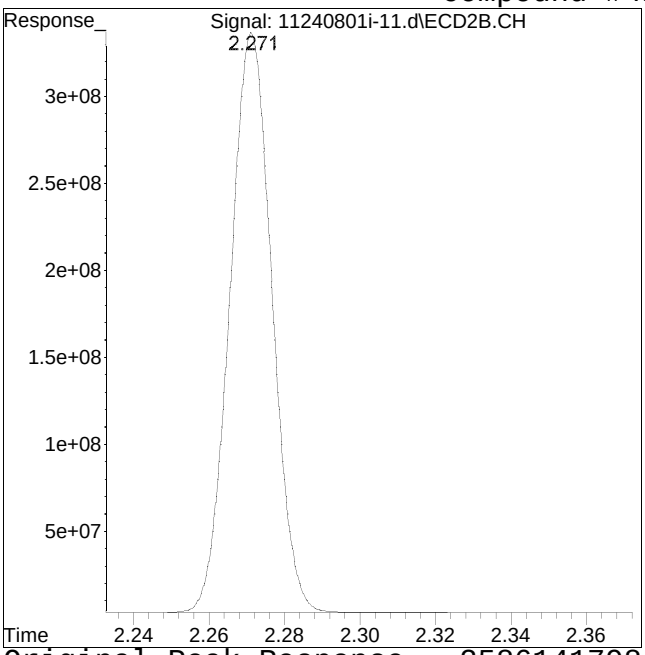
Original Peak Response = 3024984715 Manual Peak Response = 3010155376 M4
M4 = Poor automated baseline construction.

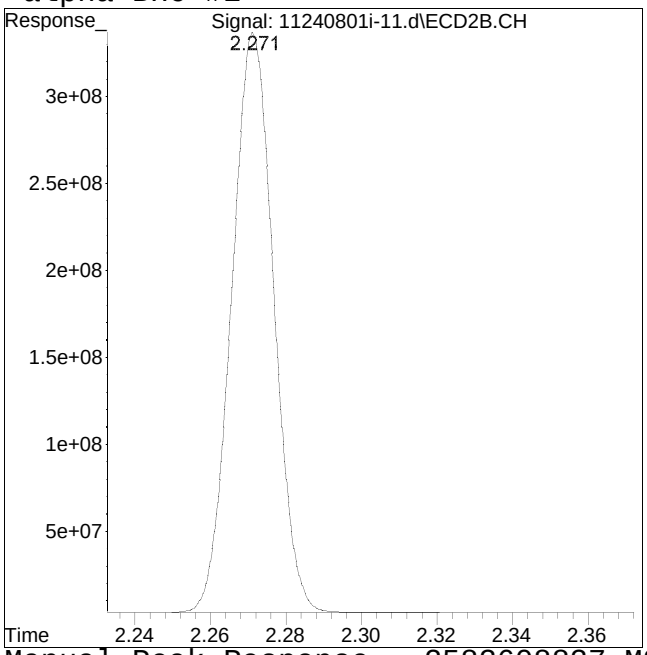
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #42: alpha-BHC #2





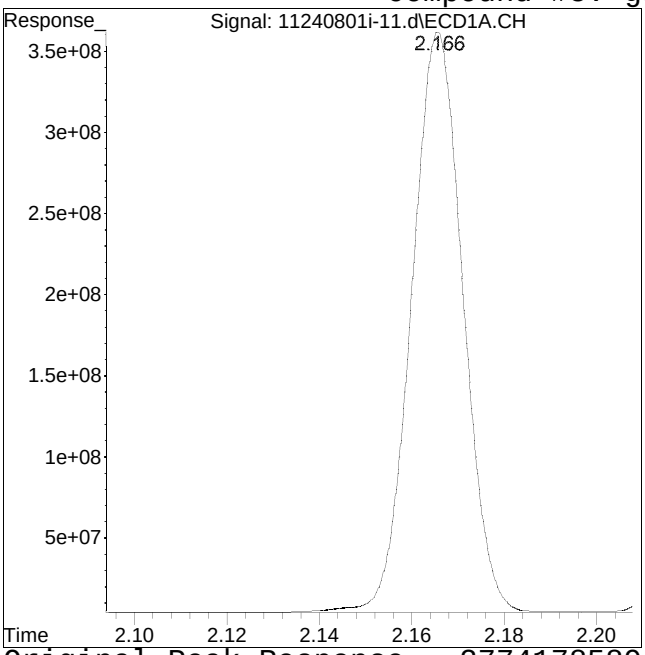
Original Peak Response = 2586141798 Manual Peak Response = 2583608837 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

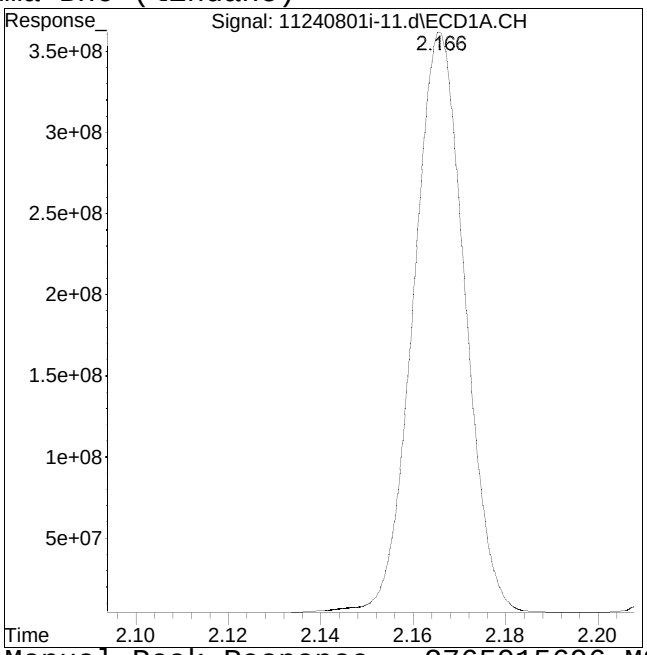
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #5: gamma-BHC (lindane)





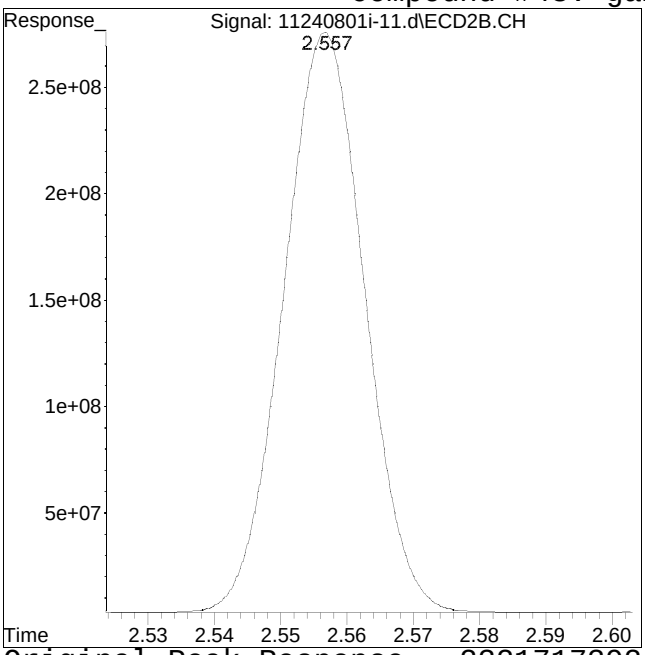
Original Peak Response = 2774178589 Manual Peak Response = 2765015696 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

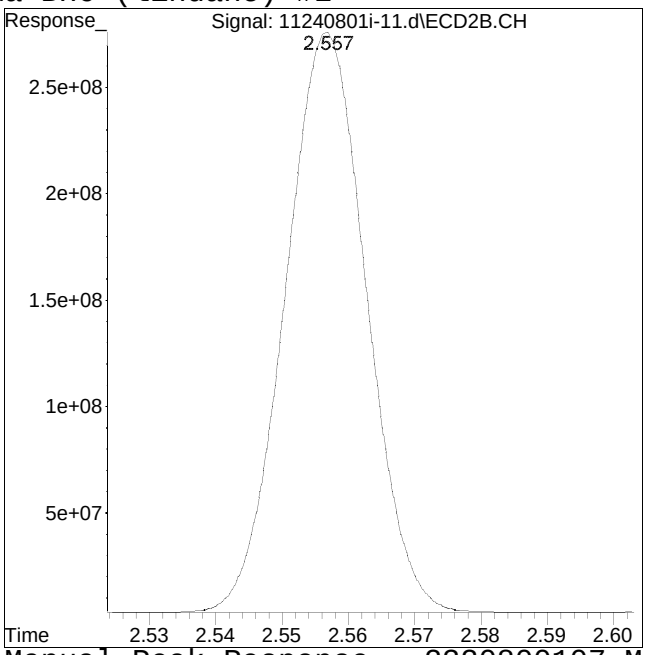
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #43: gamma-BHC (lindane) #2



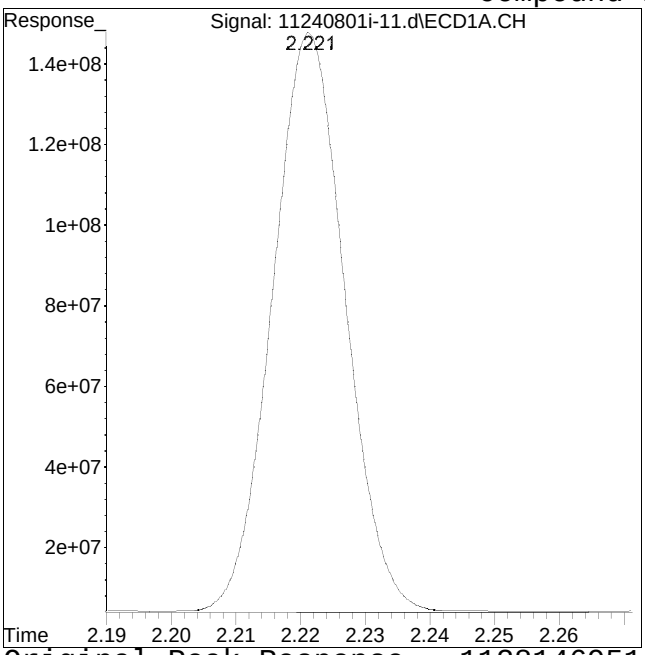


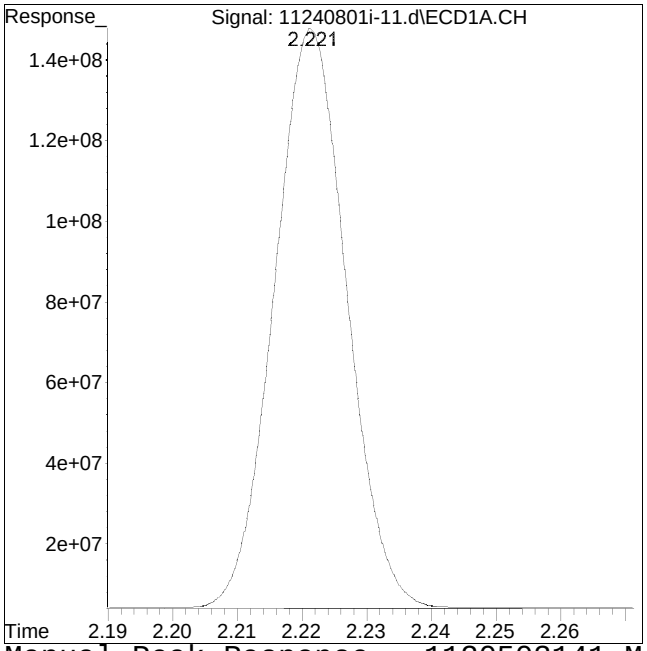
Original Peak Response = 2321717392 Manual Peak Response = 2320800107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #6: beta-BHC



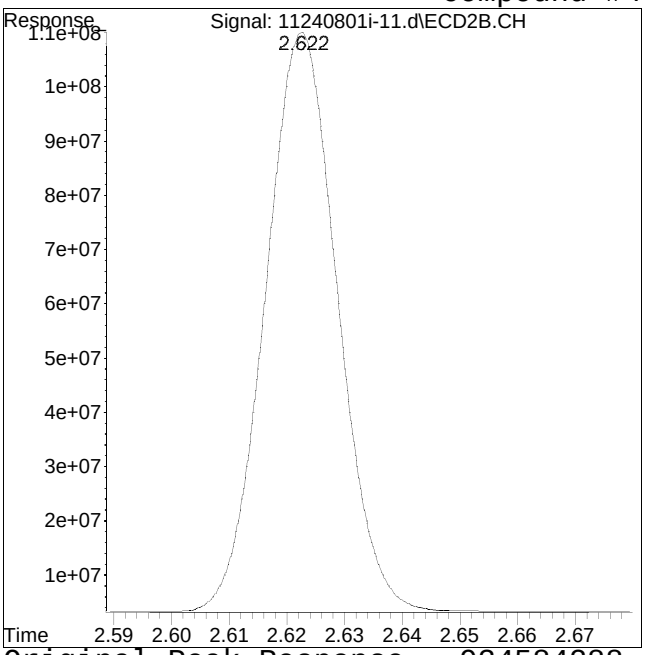


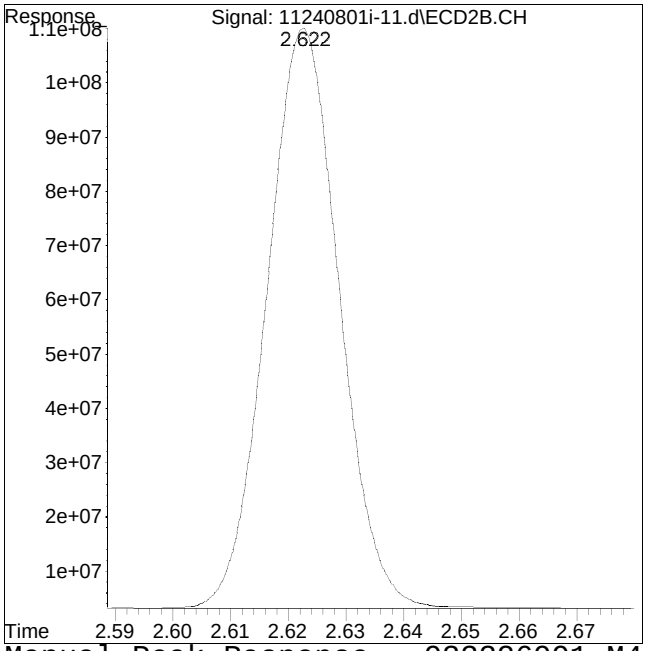
Original Peak Response = 1128146951 Manual Peak Response = 1120503141 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #44: beta-BHC #2





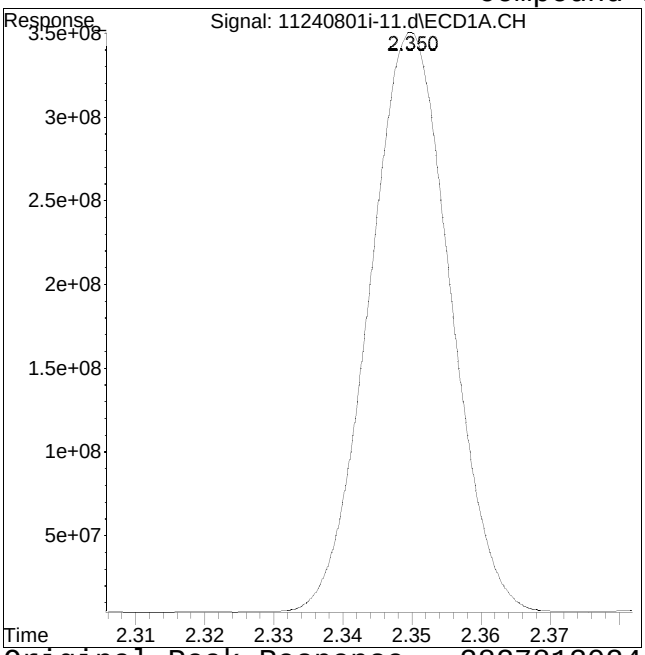
Original Peak Response = 934584288 Manual Peak Response = 933326991 M4
M4 = Poor automated baseline construction.

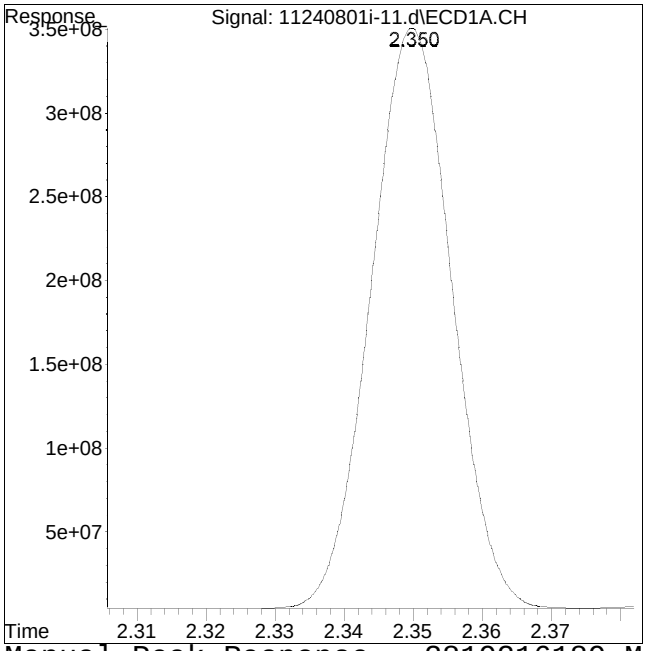
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #7: delta-BHC





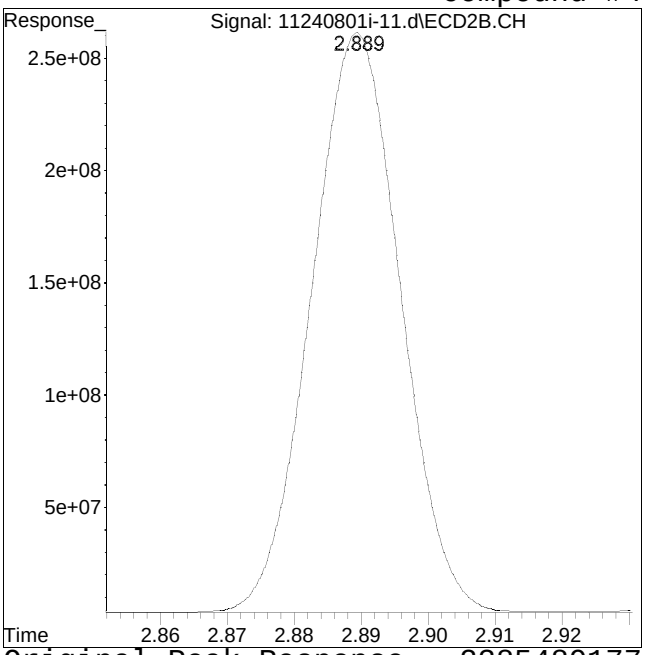
Original Peak Response = 2827813024 Manual Peak Response = 2819216189 M4
M4 = Poor automated baseline construction.

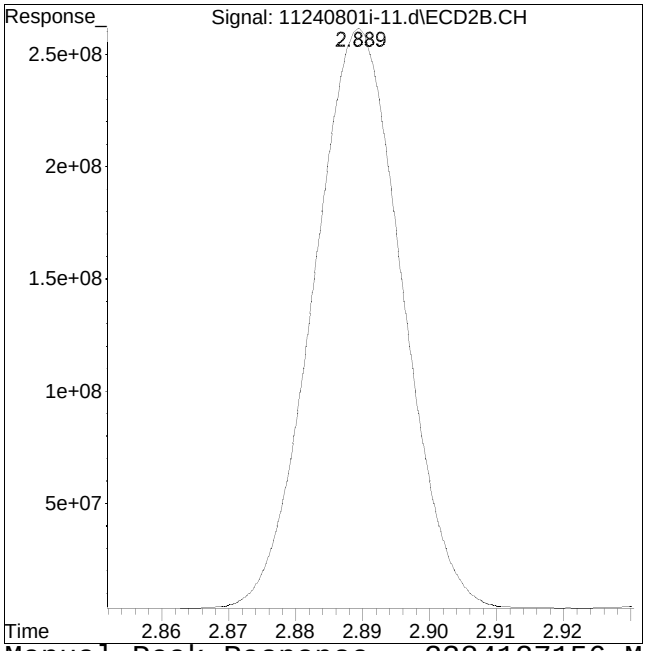
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #45: delta-BHC #2





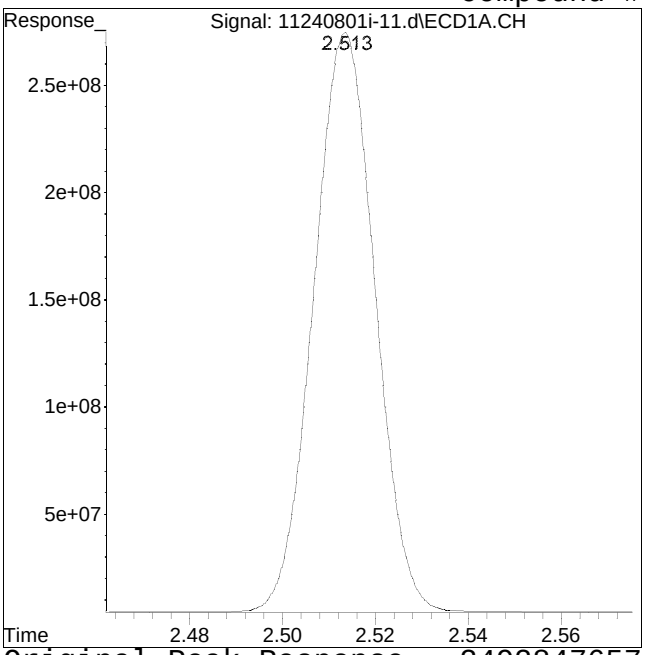
Original Peak Response = 2385489177 Manual Peak Response = 2384127156 M4
M4 = Poor automated baseline construction.

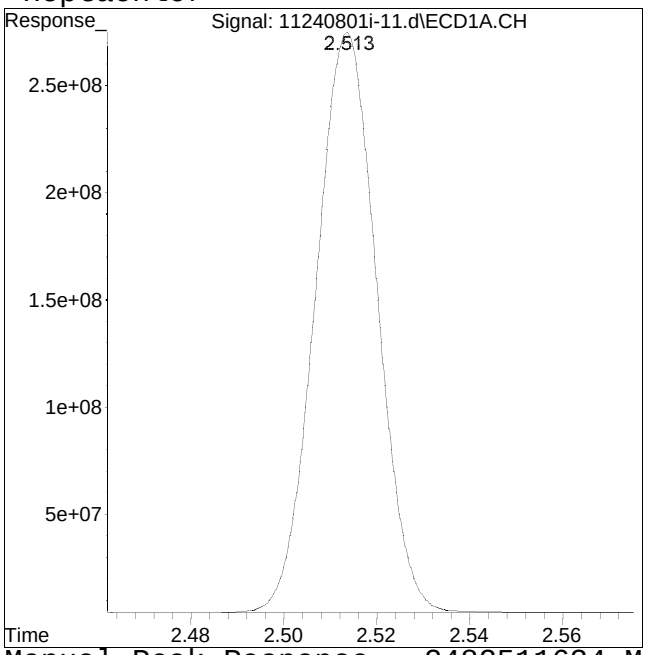
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #8: Heptachlor



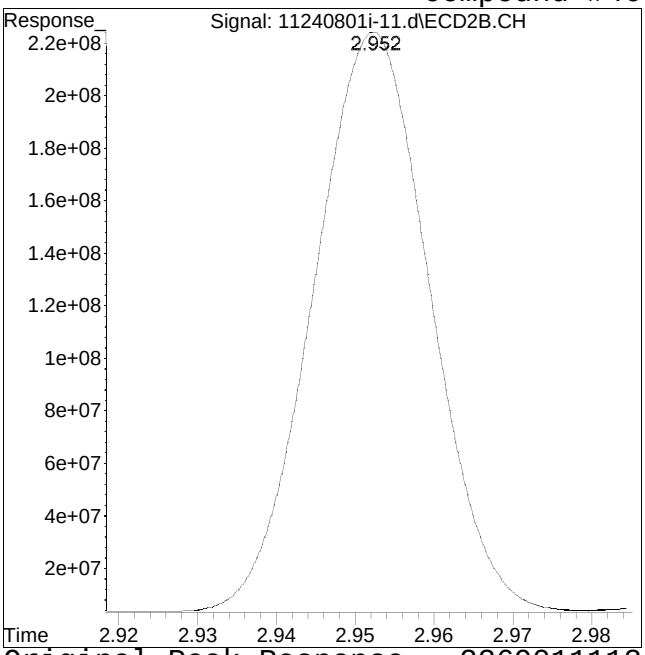


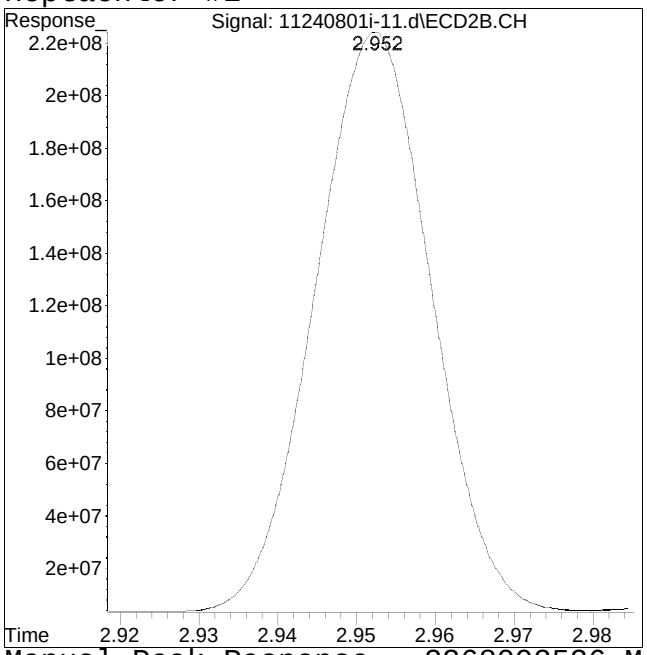
Original Peak Response = 2492847657 Manual Peak Response = 2482511634 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #46: Heptachlor #2





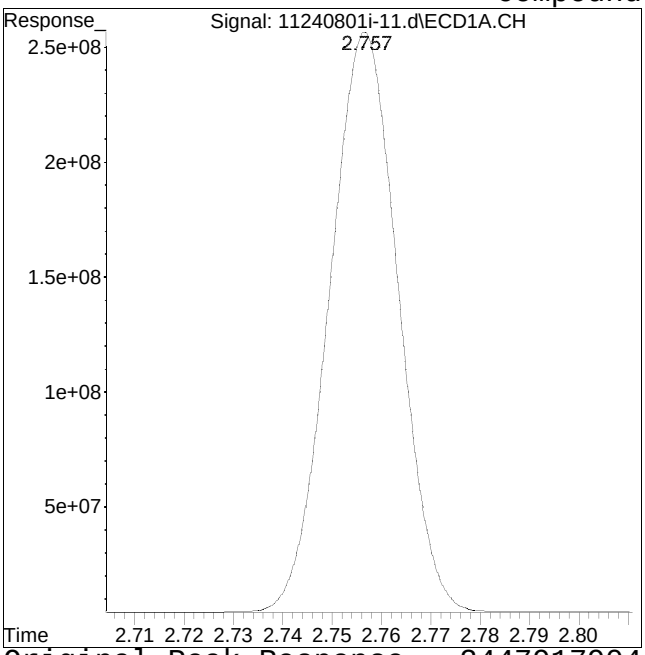
Original Peak Response = 2269011113 Manual Peak Response = 2268092526 M4
M4 = Poor automated baseline construction.

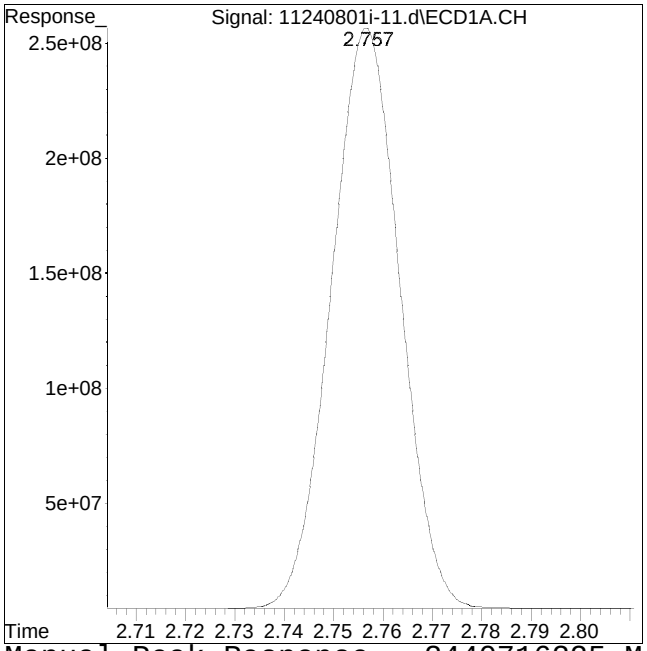
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #9: Aldrin





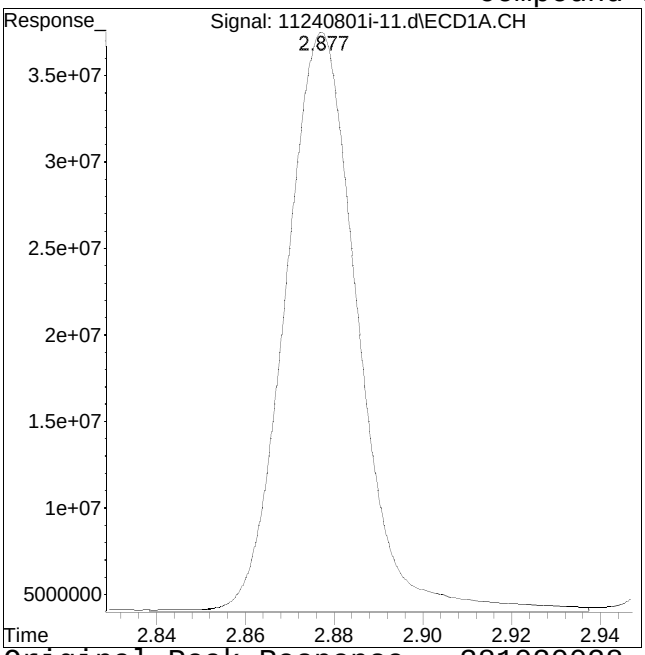
Original Peak Response = 2447917904 Manual Peak Response = 2440716225 M4
M4 = Poor automated baseline construction.

Manual Integration Report

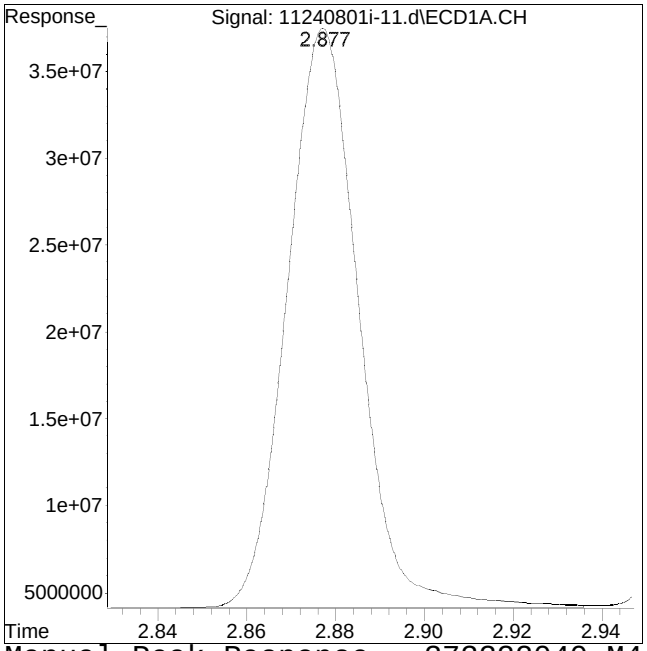
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #10: Alachlor



Original Peak Response = 381020028



Manual Peak Response = 373332040 M4

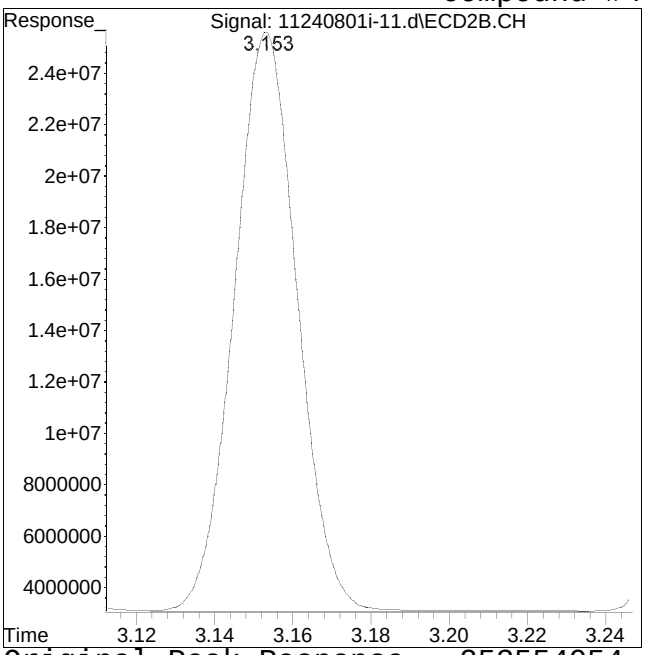
M4 = Poor automated baseline construction.

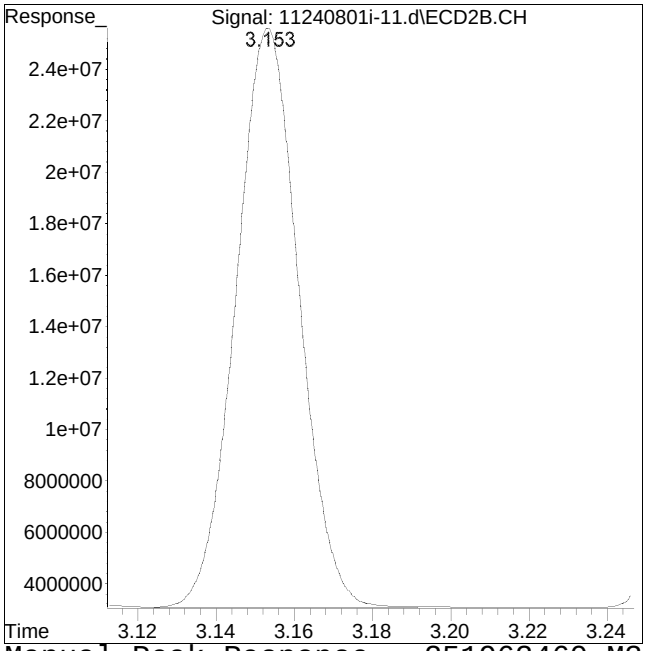
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #48: Alachlor #2





Original Peak Response = 253554954 Manual Peak Response = 251963460 M3

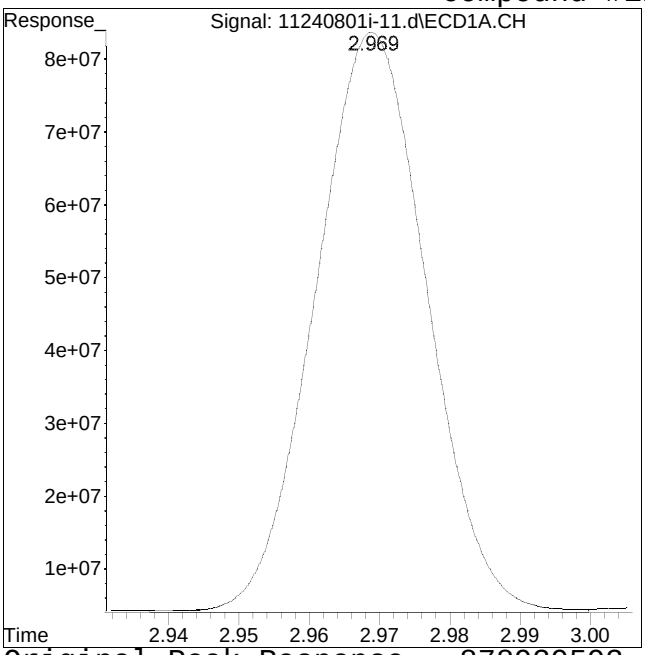
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

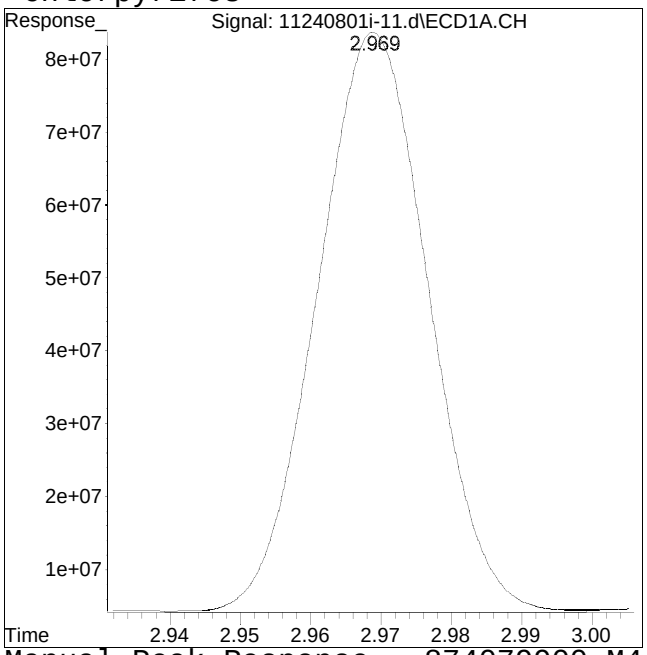
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #11: Chlorpyrifos



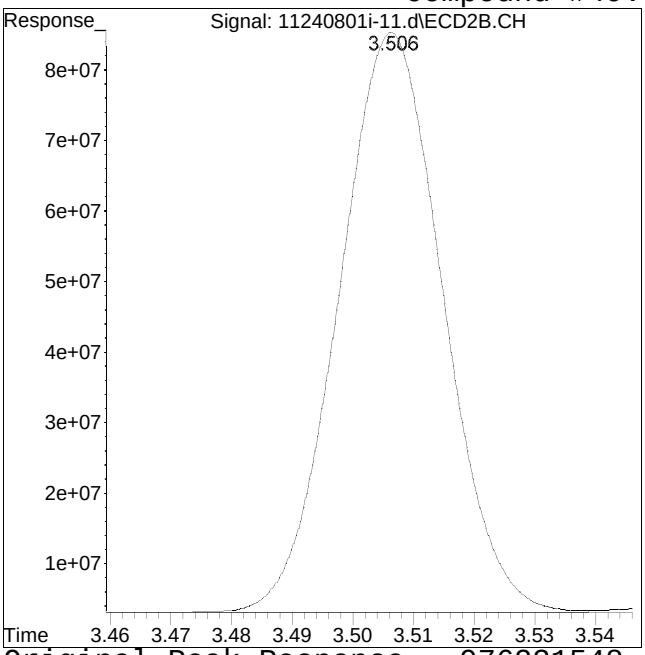


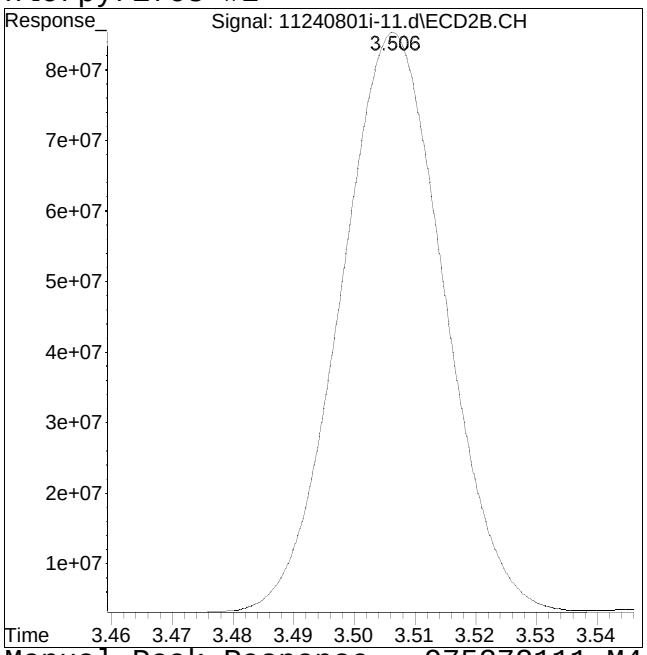
Original Peak Response = 878939593 Manual Peak Response = 874079900 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #49: Chlorpyrifos #2





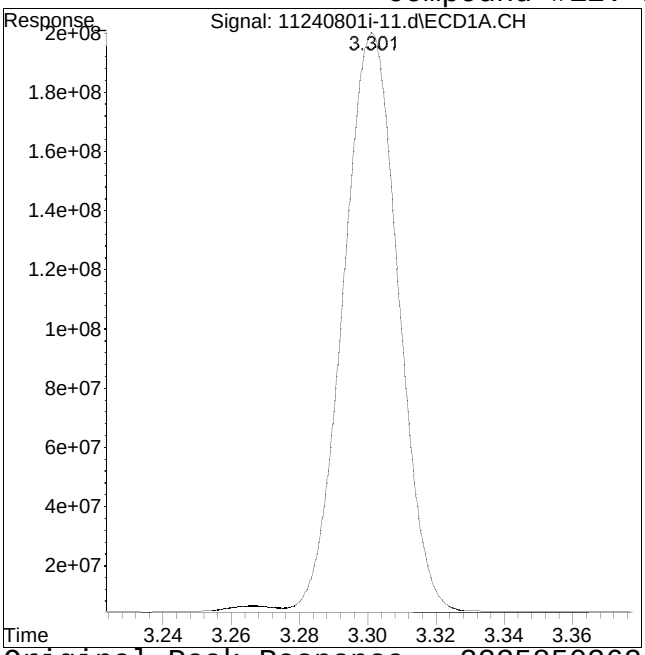
Original Peak Response = 976231548 Manual Peak Response = 975272111 M4
M4 = Poor automated baseline construction.

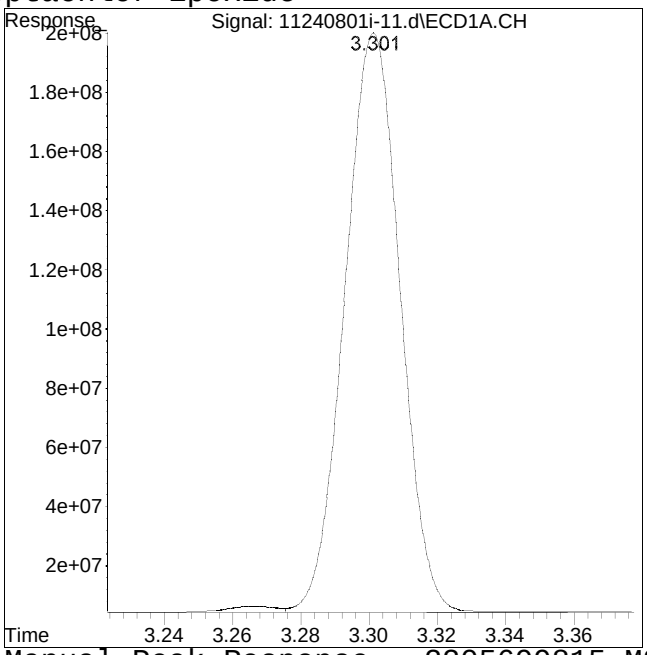
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 2235850362 Manual Peak Response = 2205699815 M3

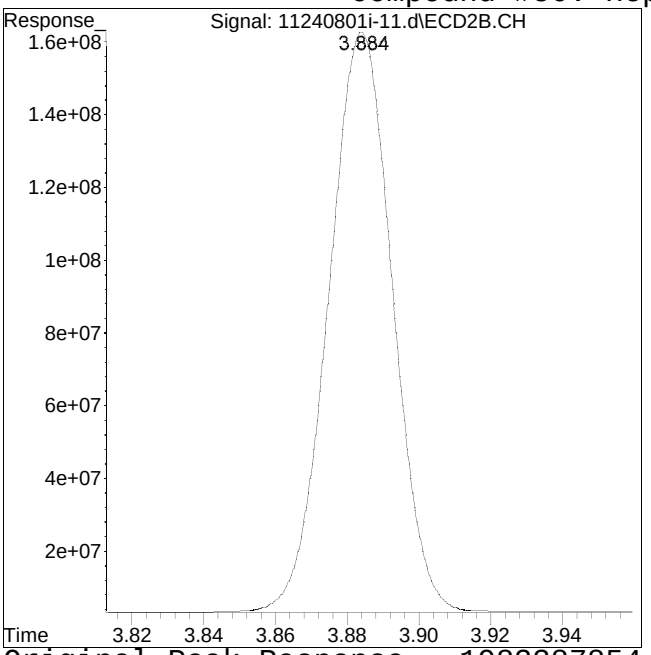
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

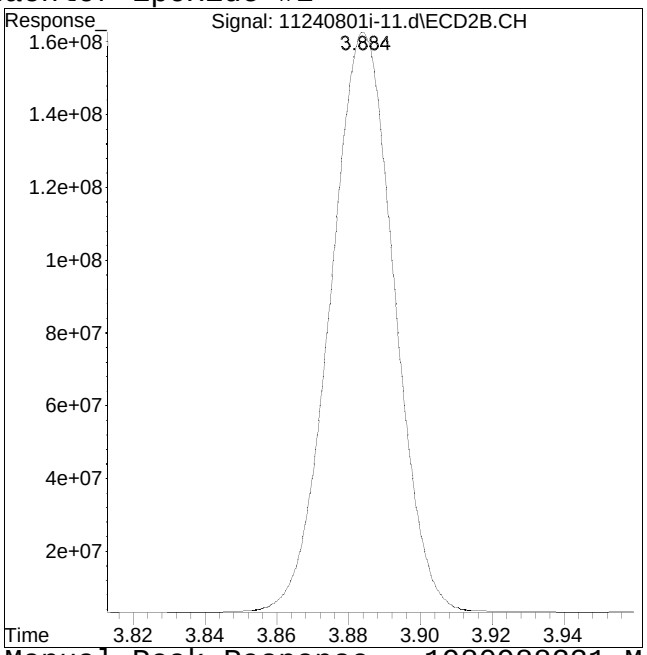
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #50: Heptachlor Epoxide #2





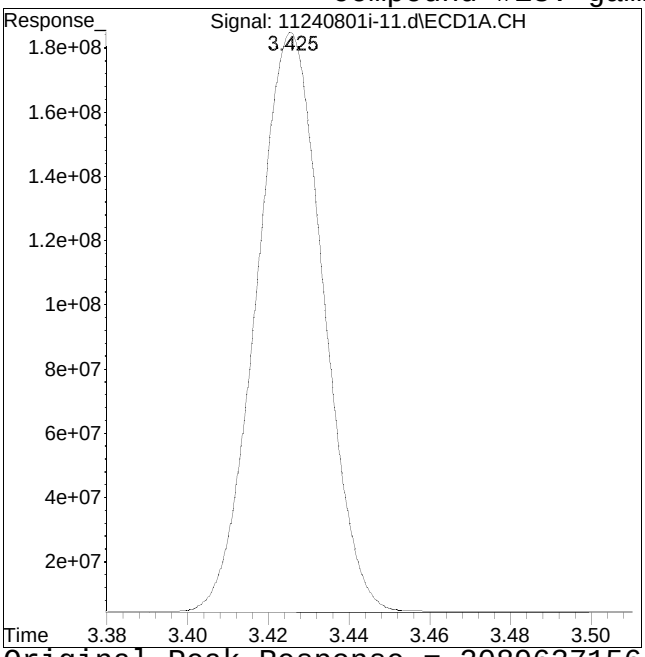
Original Peak Response = 1983387854 Manual Peak Response = 1980988231 M4
M4 = Poor automated baseline construction.

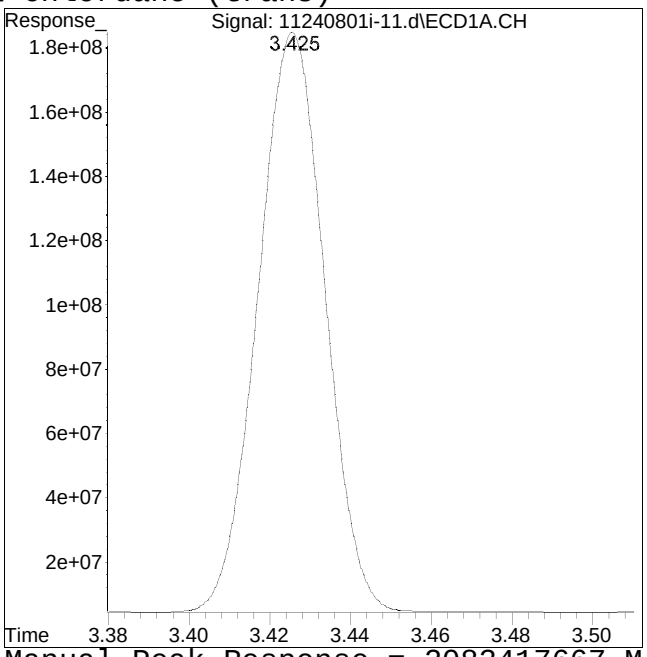
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #13: gamma-Chlordane (trans)



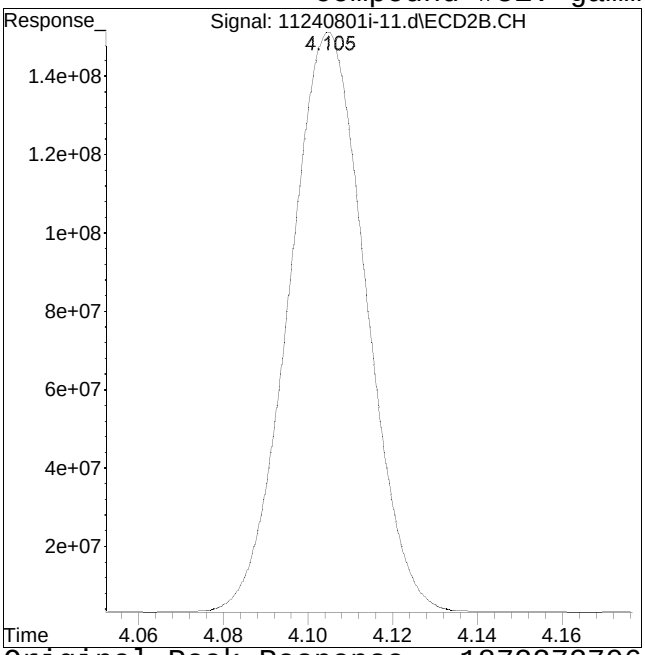


Original Peak Response = 2089637156 Manual Peak Response = 2083417667 M4
M4 = Poor automated baseline construction.

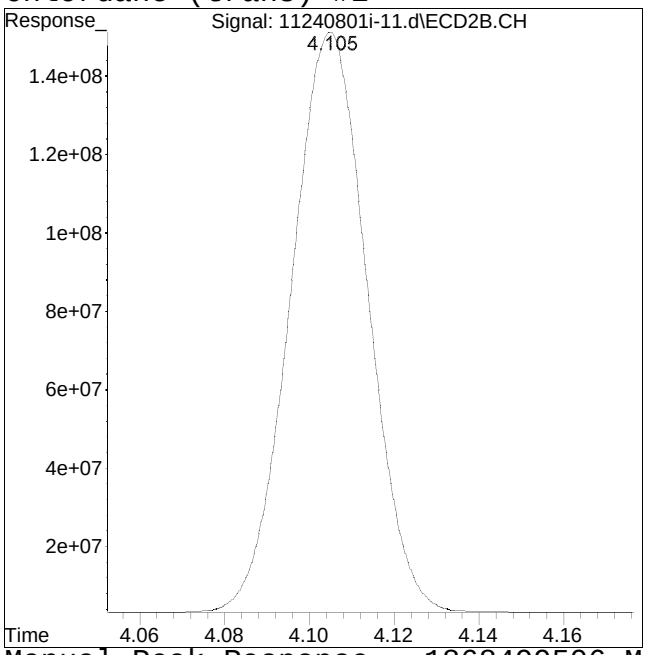
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 1872273706



Manual Peak Response = 1868499506 M4

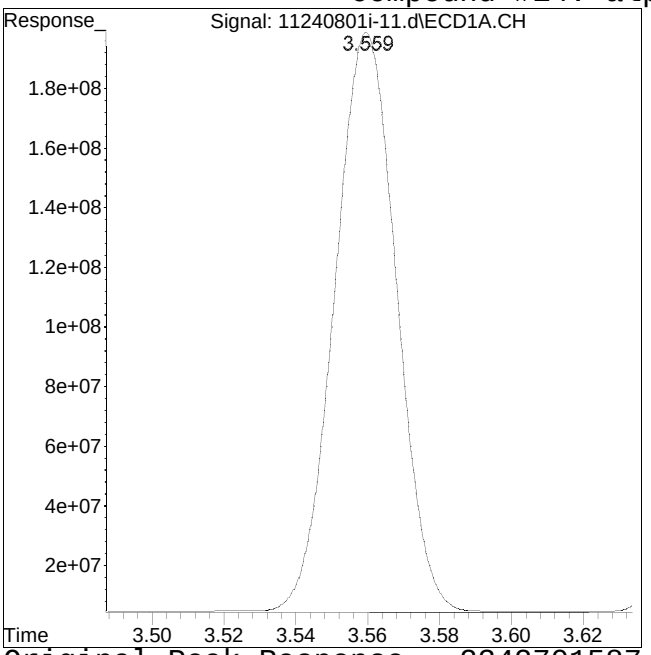
M4 = Poor automated baseline construction.

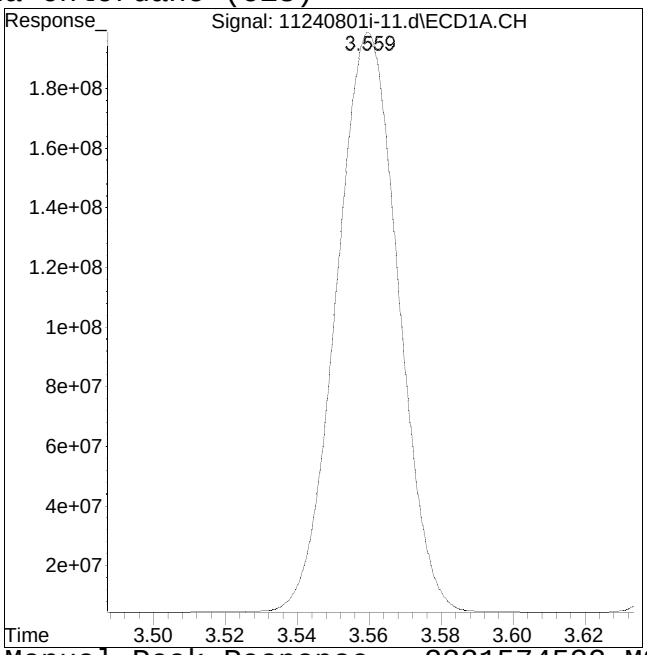
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #14: alpha-Chlordane (cis)





Original Peak Response = 2342701587 Manual Peak Response = 2331574532 M3

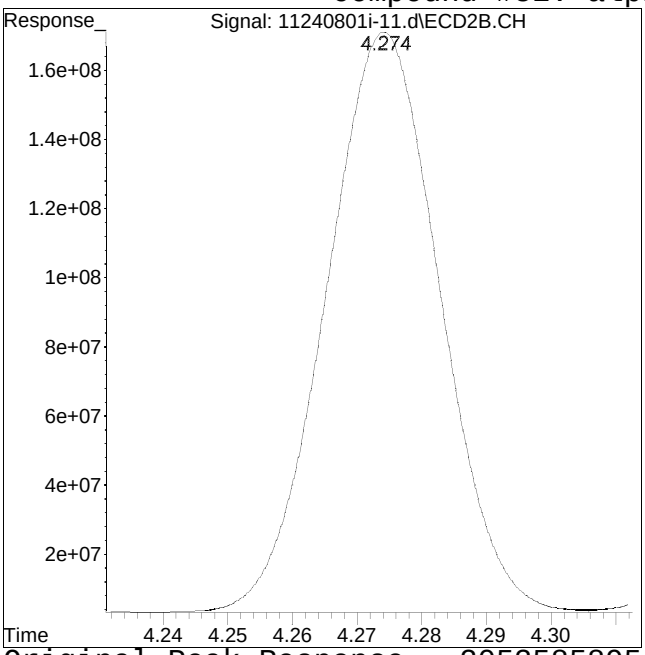
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

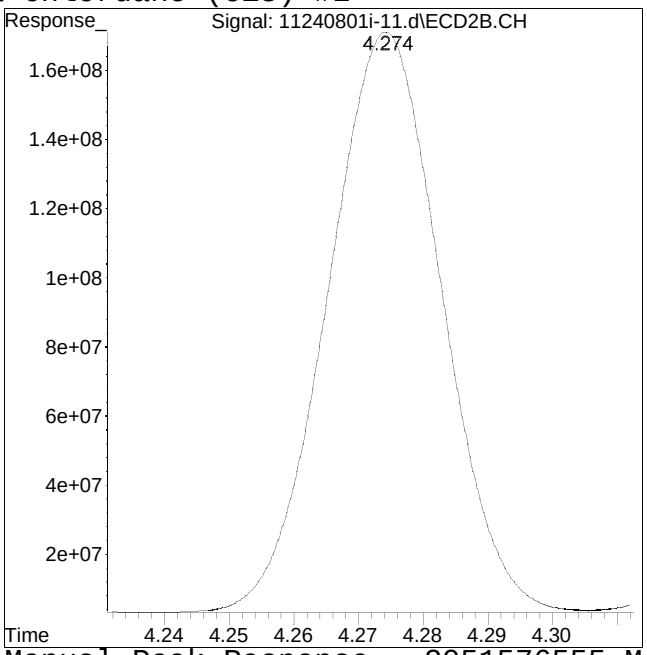
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 2053585895



Manual Peak Response = 2051576555 M4

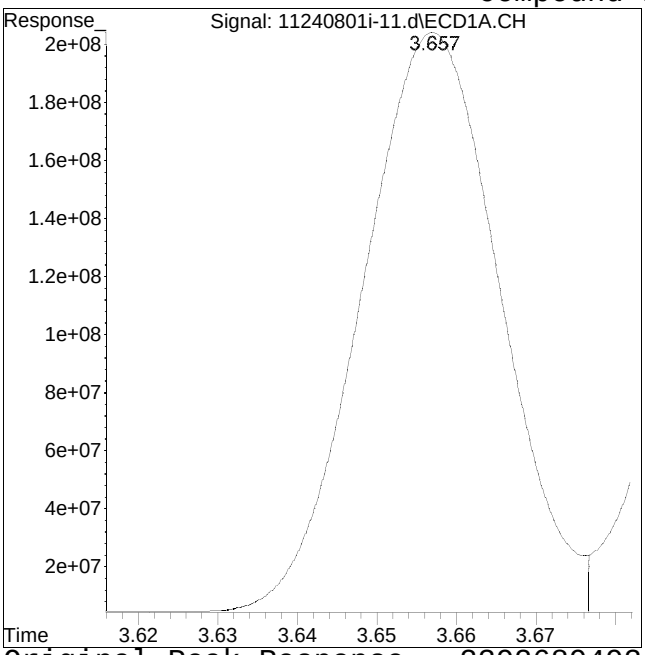
M4 = Poor automated baseline construction.

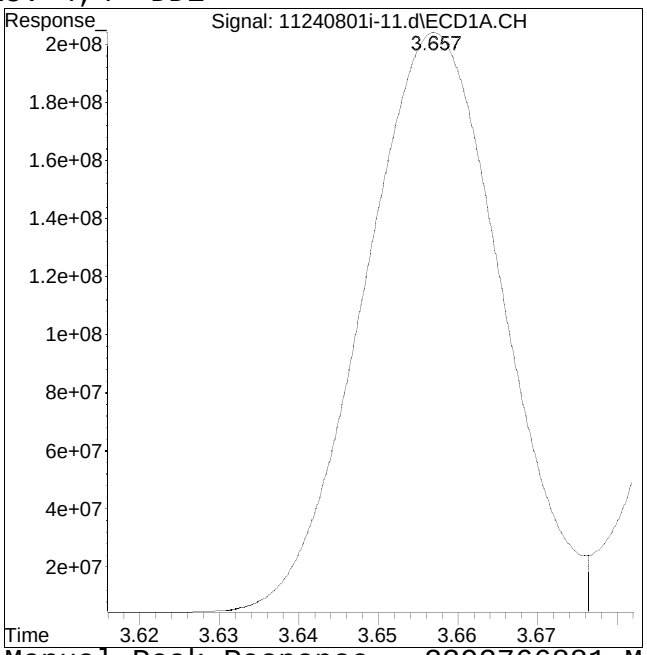
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #15: 4,4'-DDE





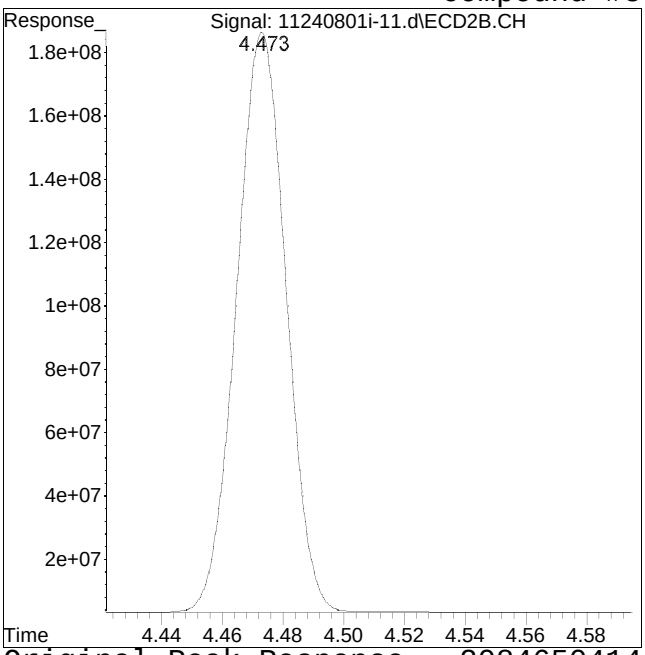
Original Peak Response = 2392689493 Manual Peak Response = 2393766881 M4
M4 = Poor automated baseline construction.

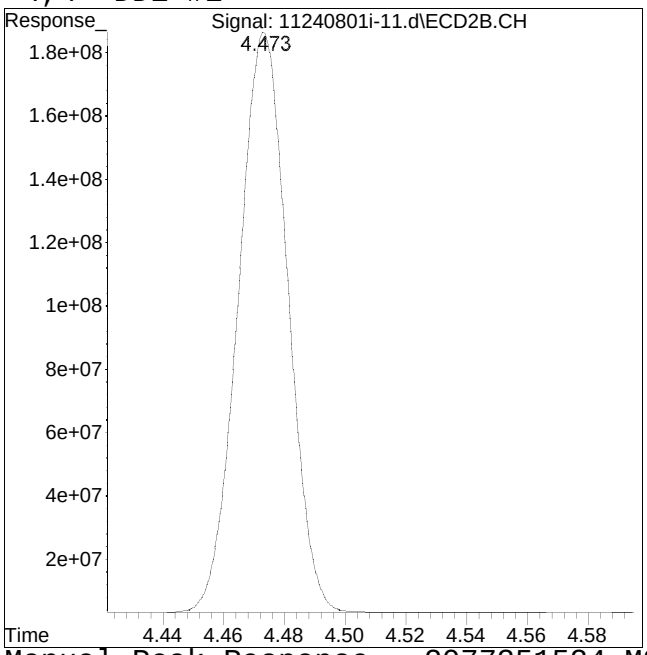
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #53: 4,4'-DDE #2





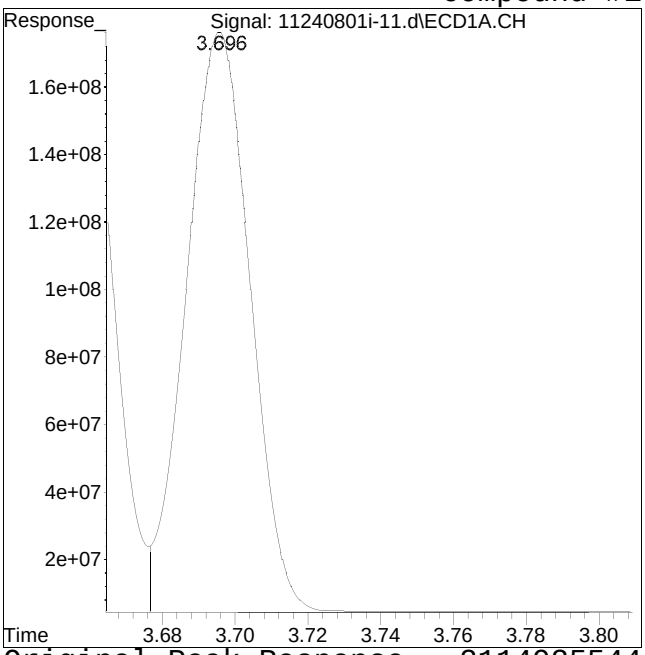
Original Peak Response = 2084650414 Manual Peak Response = 2077351524 M3

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

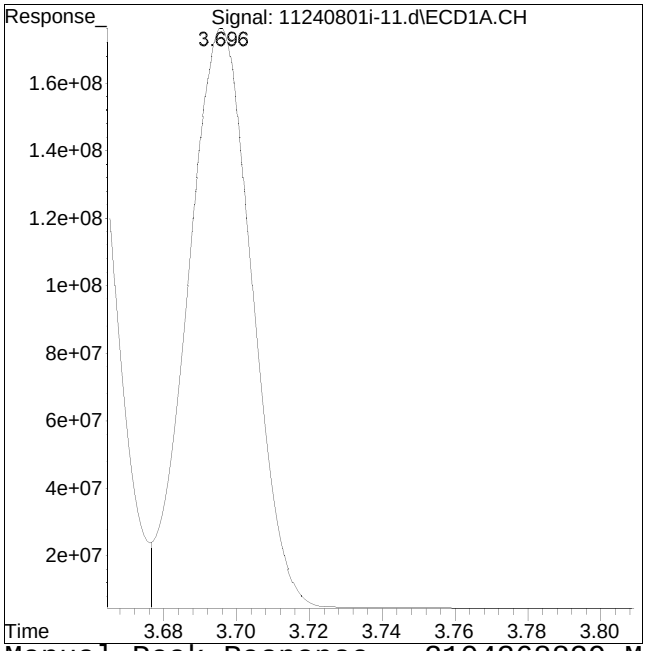
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #16: Endosulfan I



Original Peak Response = 2114925544

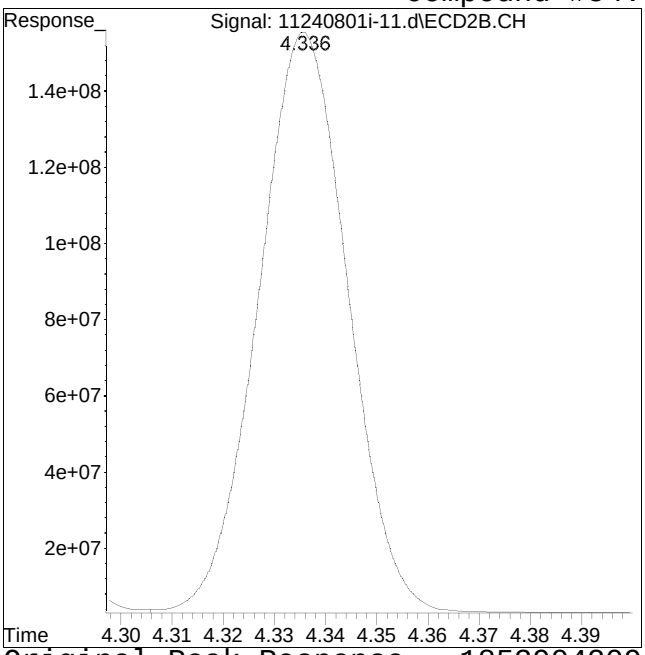


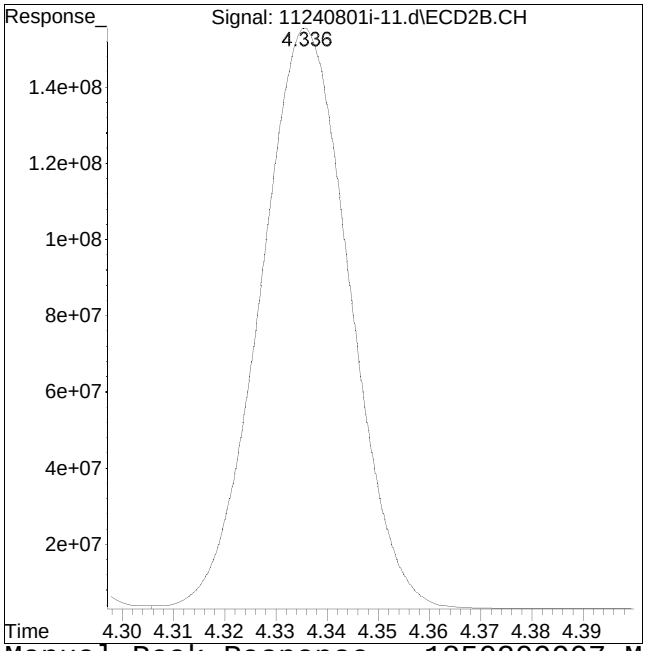
Manual Peak Response = 2104368839 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #54: Endosulfan I #2





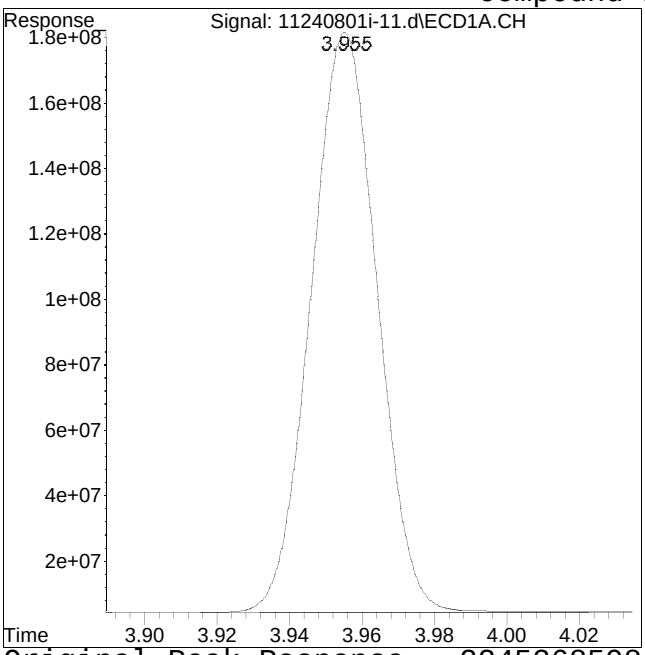
Original Peak Response = 1853904209 Manual Peak Response = 1850209907 M4
M4 = Poor automated baseline construction.

Manual Integration Report

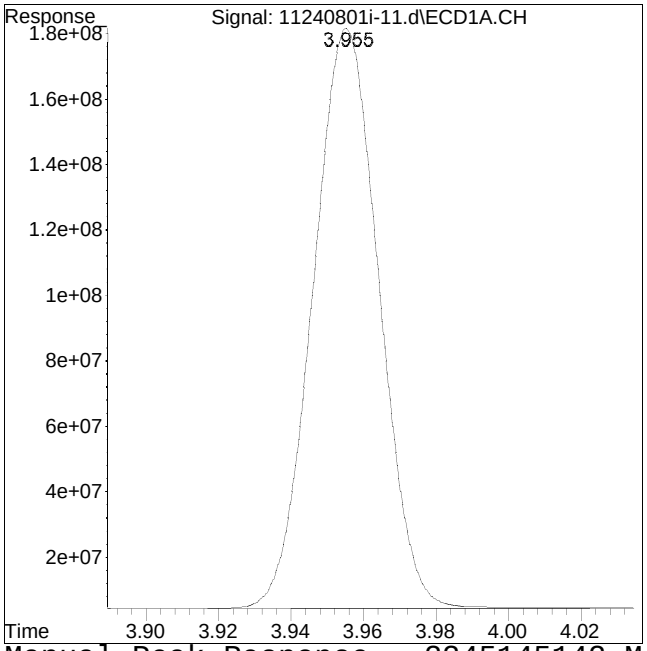
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #17: Dieldrin



Original Peak Response = 2245268598



Manual Peak Response = 2245145142 M4

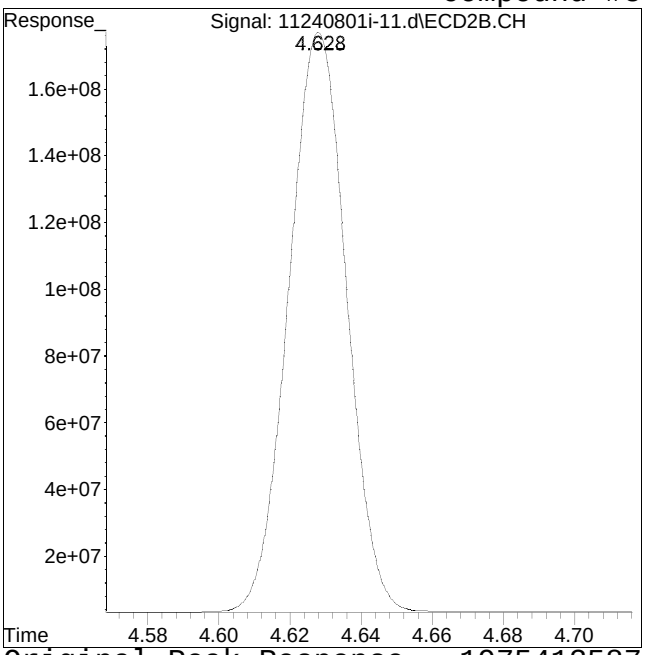
M4 = Poor automated baseline construction.

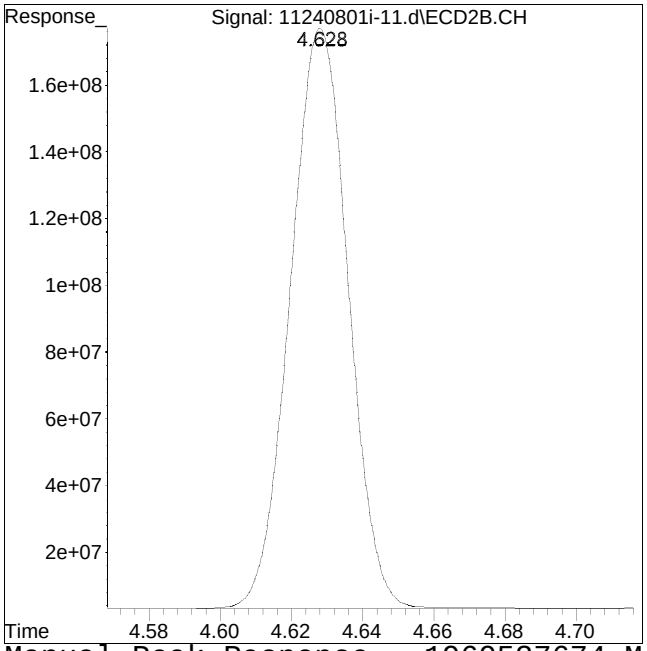
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #55: Dieldrin #2



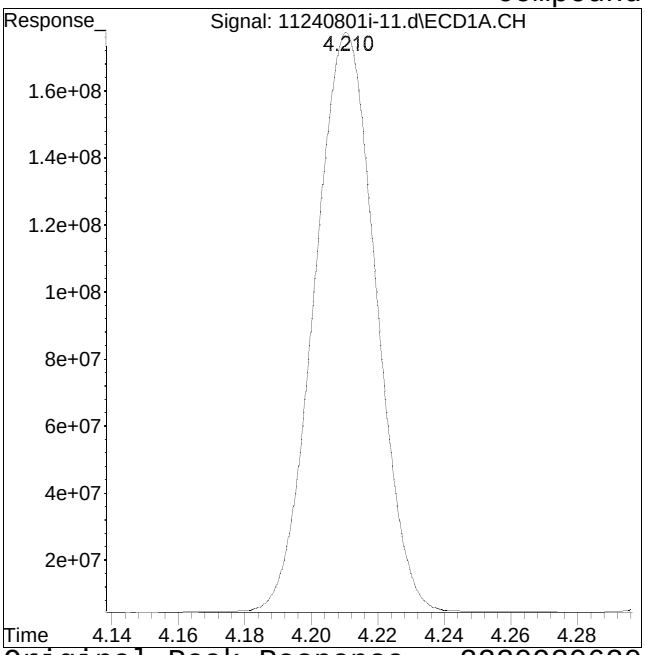


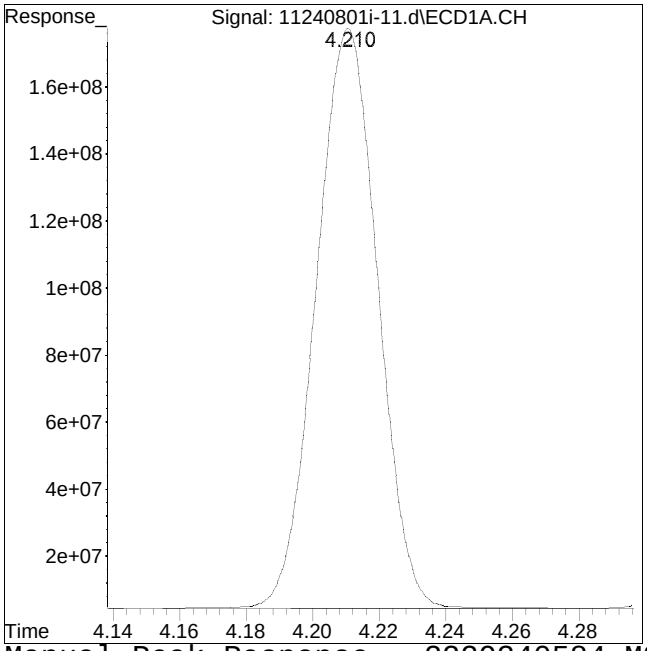
Original Peak Response = 1975413587 Manual Peak Response = 1969537674 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #18: Endrin



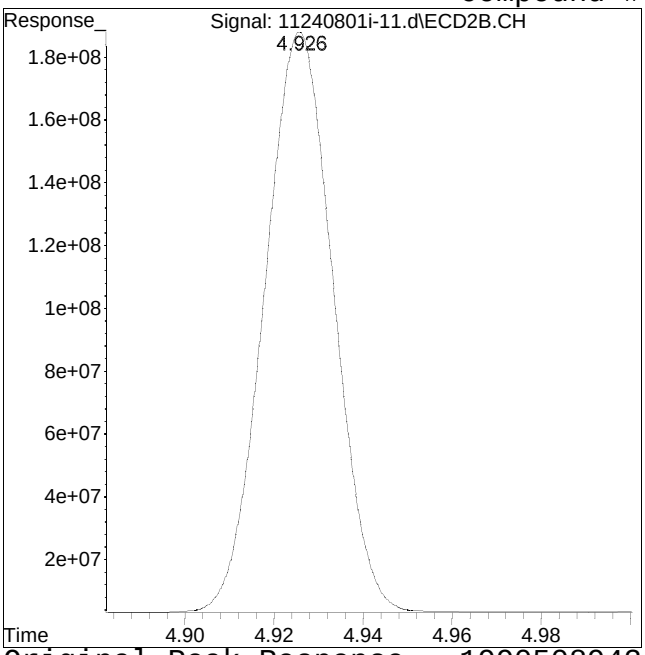


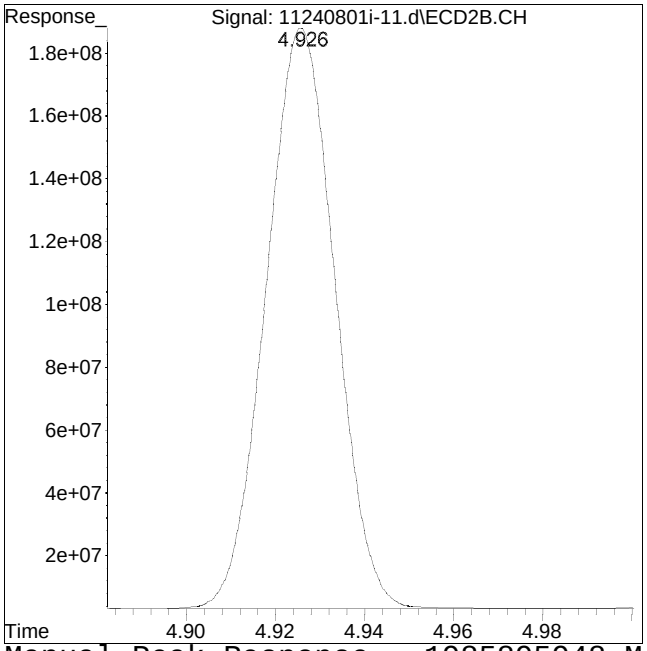
Original Peak Response = 2230939620 Manual Peak Response = 2229340584 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #56: Endrin #2





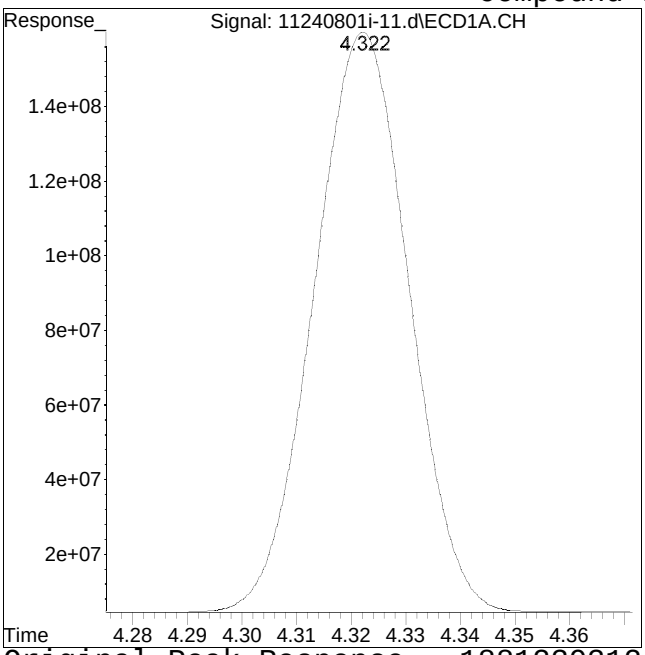
Original Peak Response = 1990508943 Manual Peak Response = 1985895948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

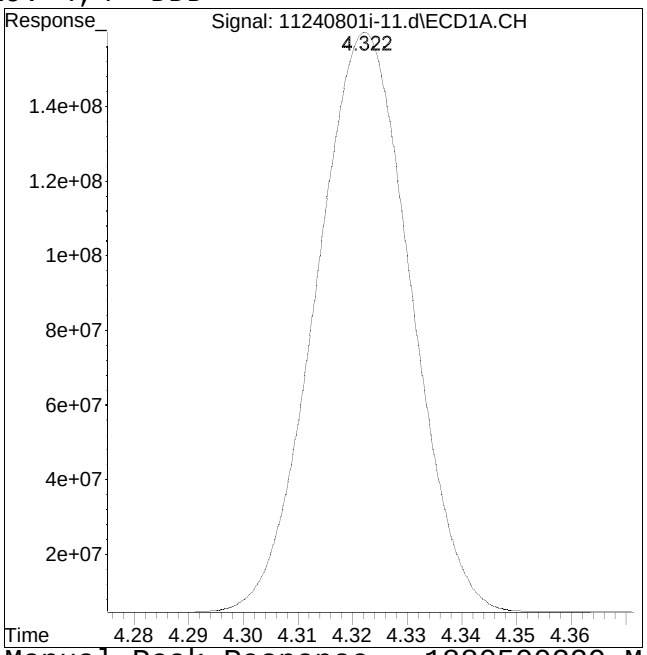
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #19: 4,4'-DDD



Original Peak Response = 1881239312



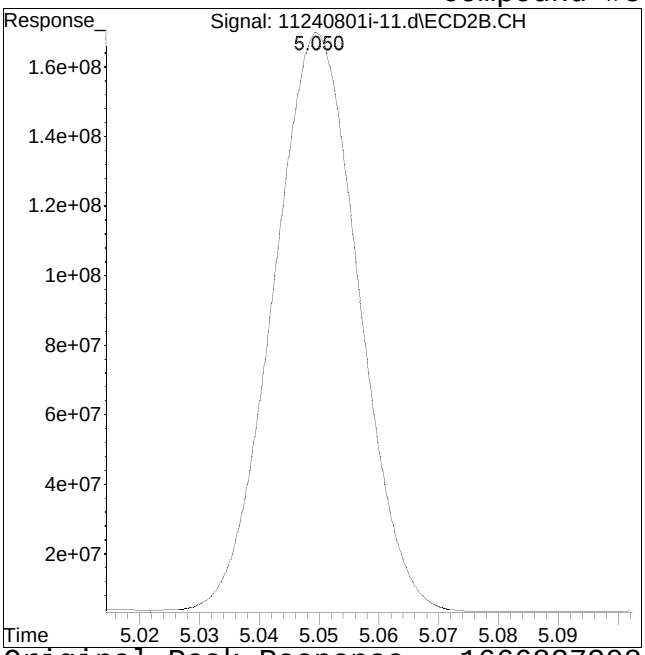
Manual Peak Response = 1880500229 M4

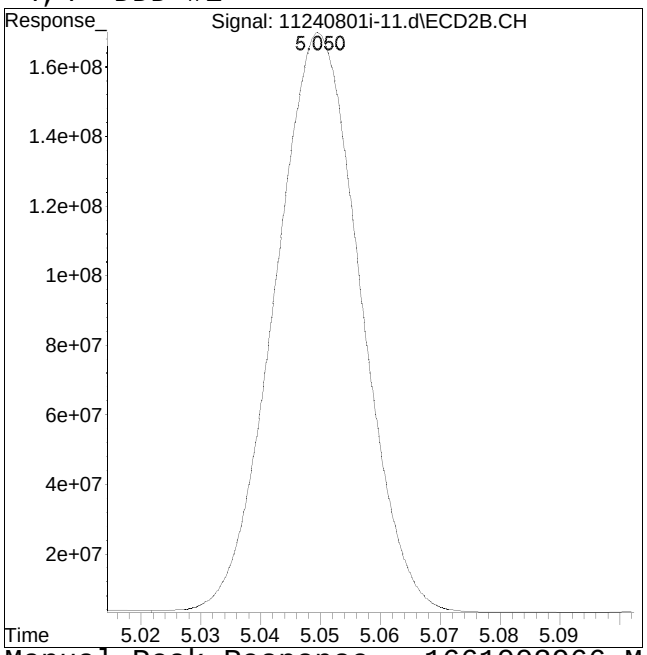
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #57: 4,4'-DDD #2





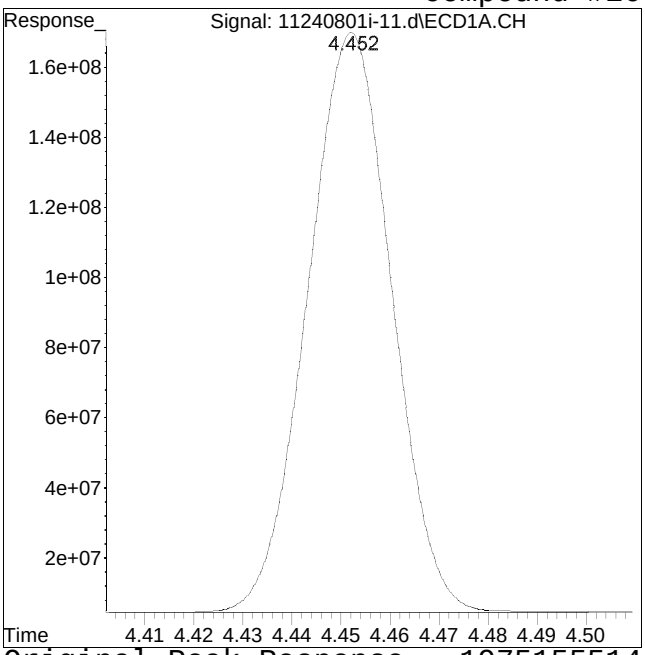
Original Peak Response = 1666827208 Manual Peak Response = 1661003966 M4
M4 = Poor automated baseline construction.

Manual Integration Report

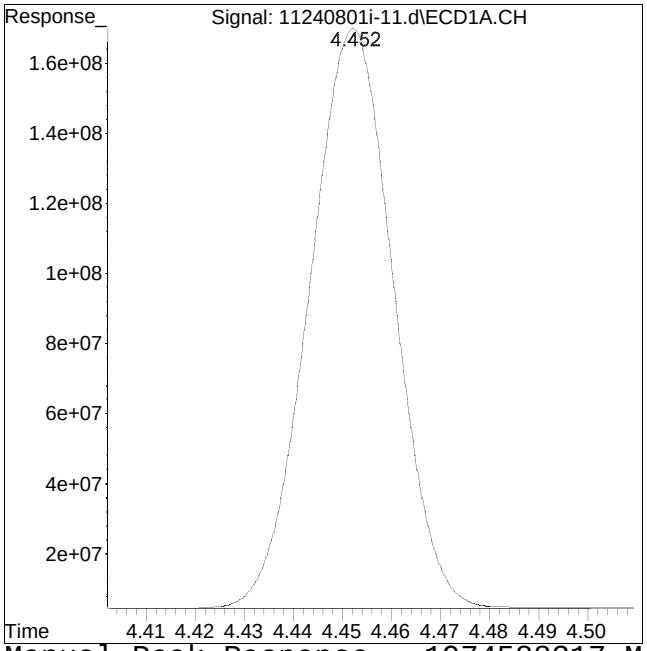
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #20: Endosulfan II



Original Peak Response = 1975155514



Manual Peak Response = 1974588317 M4

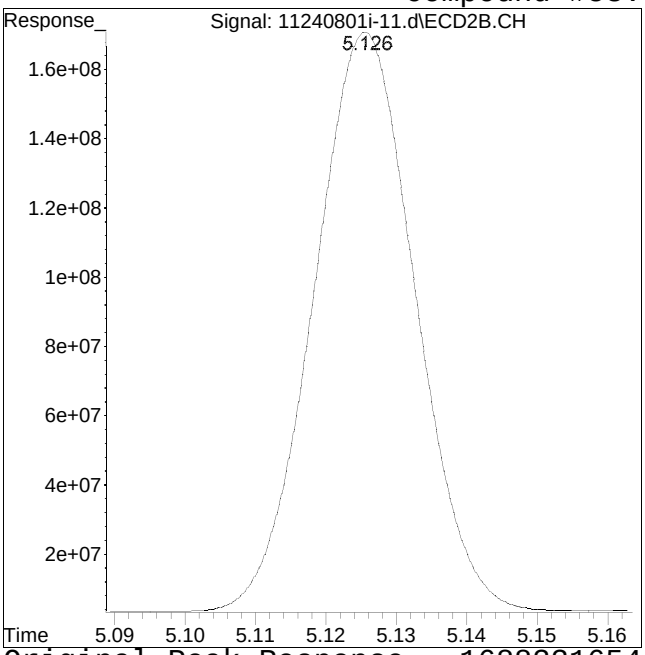
M4 = Poor automated baseline construction.

Manual Integration Report

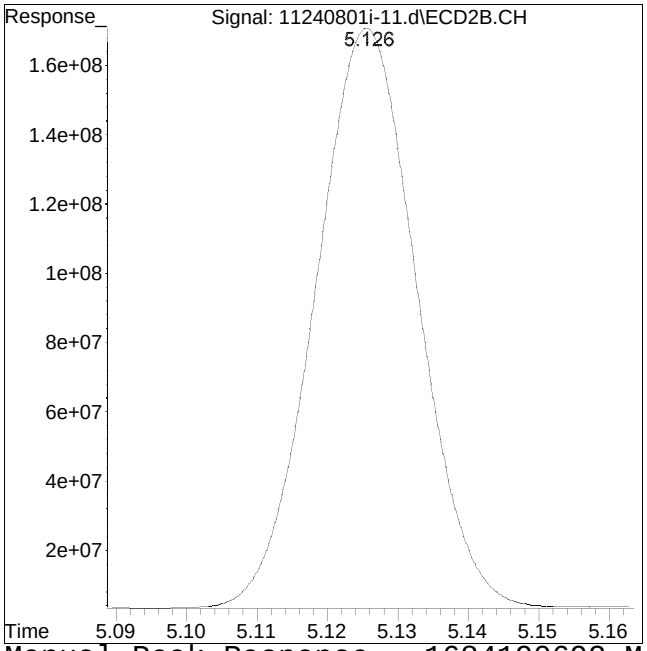
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #58: Endosulfan II #2



Original Peak Response = 1688331654



Manual Peak Response = 1684190692 M4

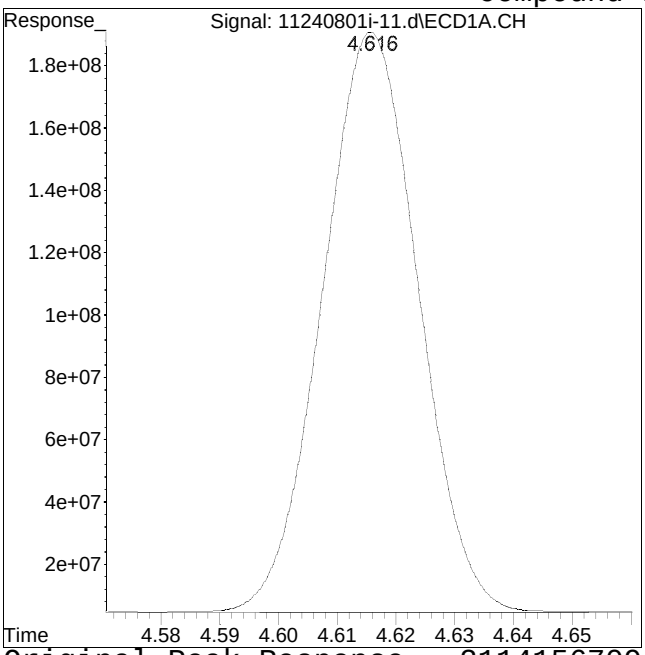
M4 = Poor automated baseline construction.

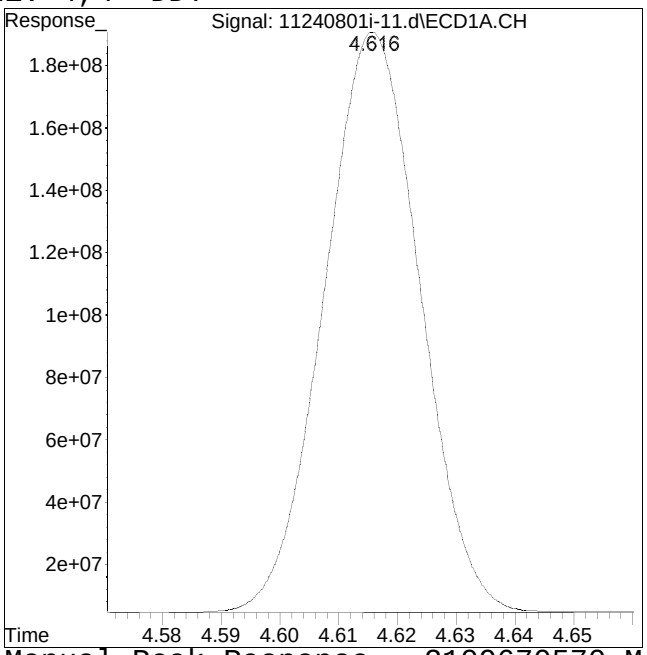
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #21: 4,4'-DDT



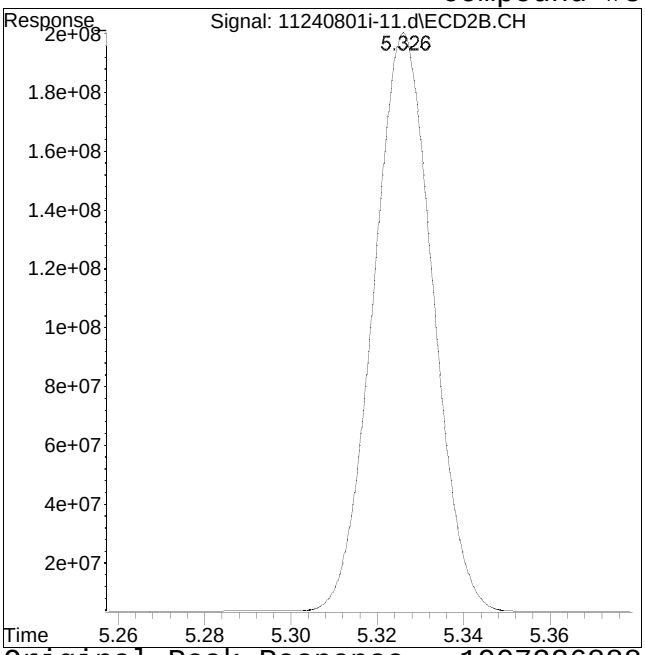


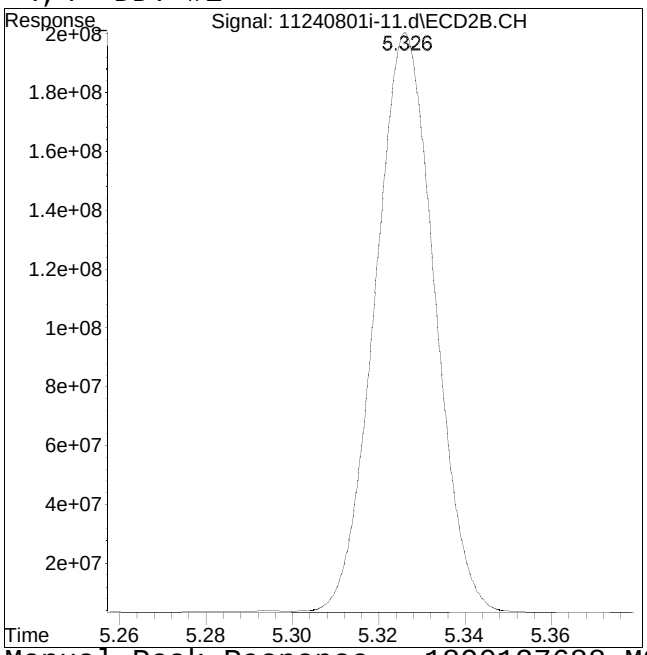
Original Peak Response = 2114156709 Manual Peak Response = 2109670570 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #59: 4,4'-DDT #2



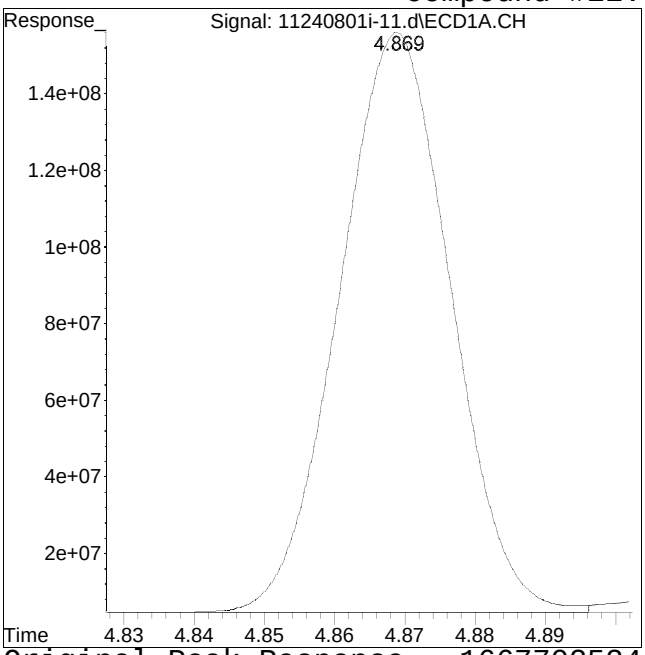


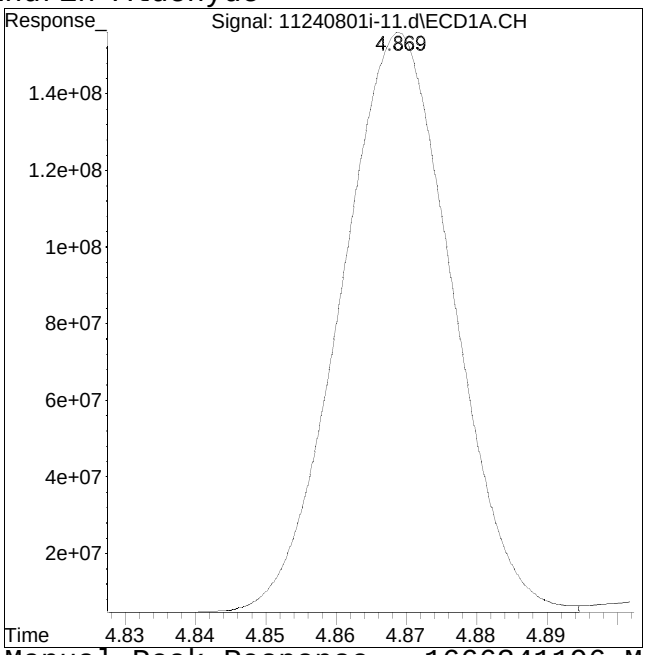
Original Peak Response = 1907326888 Manual Peak Response = 1890127688 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #22: Endrin Aldehyde



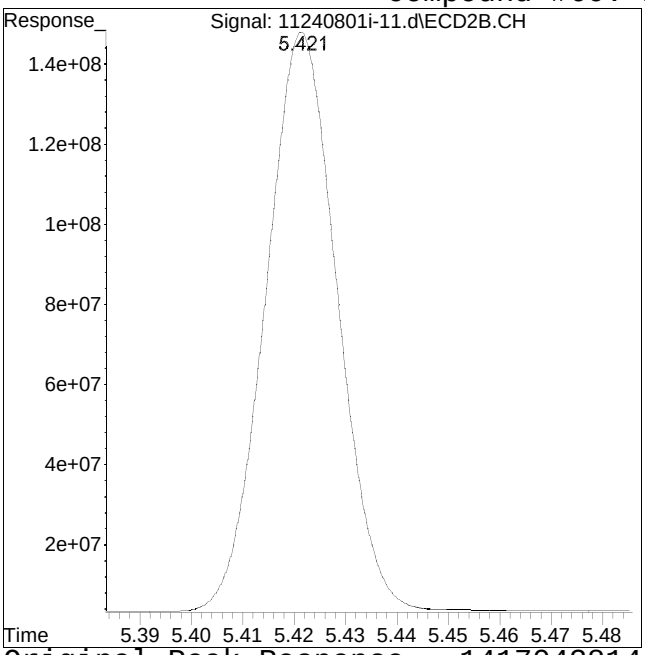


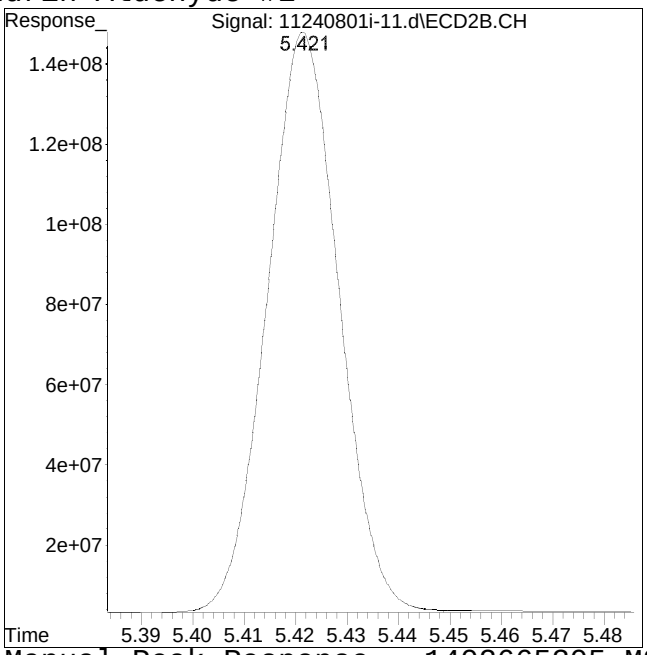
Original Peak Response = 1667702524 Manual Peak Response = 1666341196 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #60: Endrin Aldehyde #2





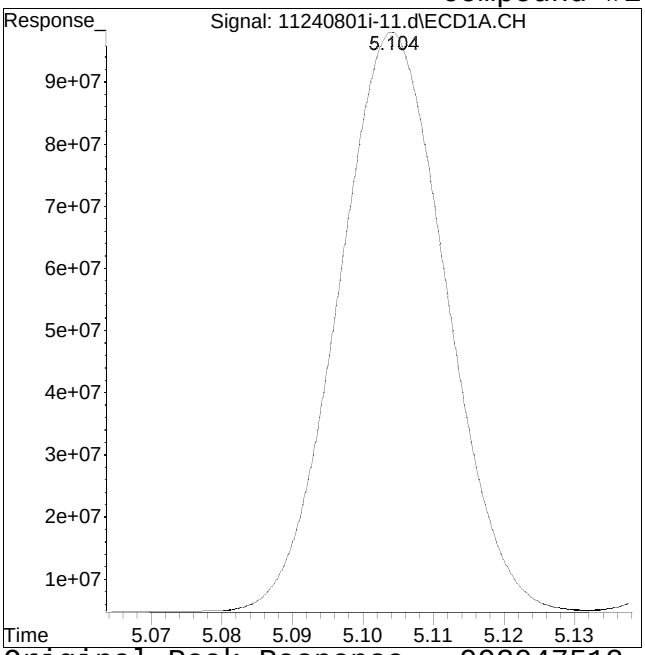
Original Peak Response = 1417043814 Manual Peak Response = 1402665305 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

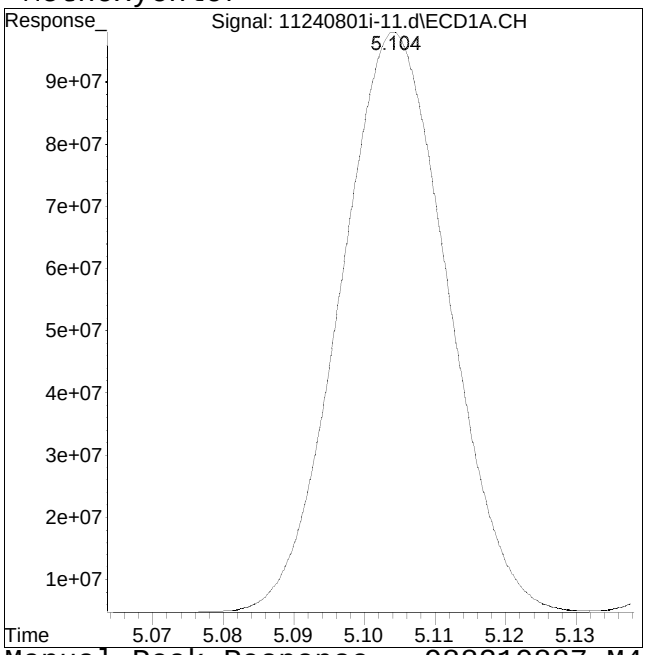
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #23: Methoxychlor



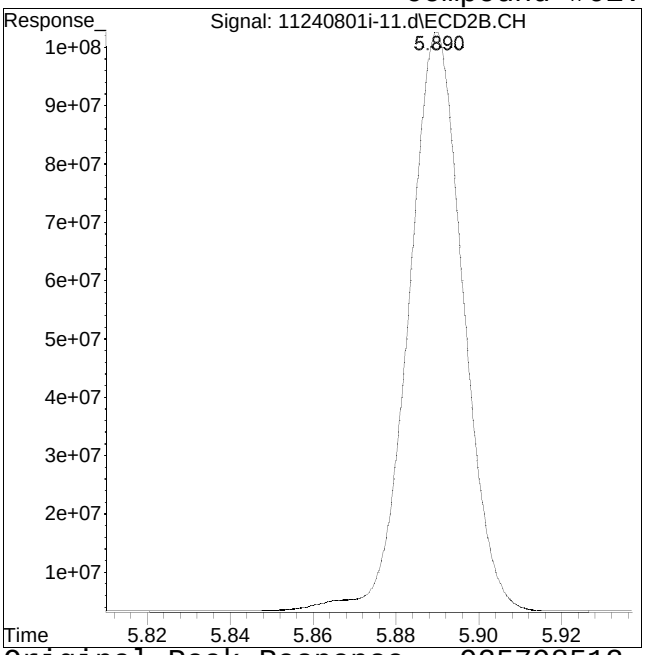


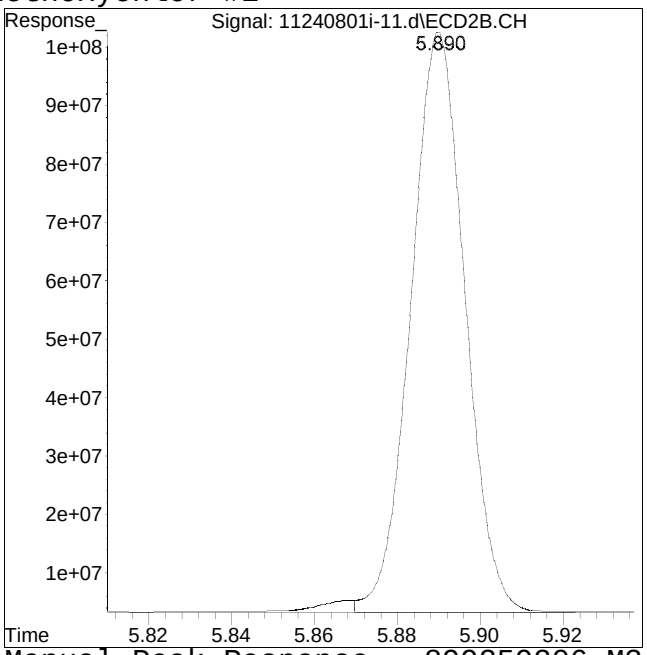
Original Peak Response = 993047512 Manual Peak Response = 988310887 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #61: Methoxychlor #2





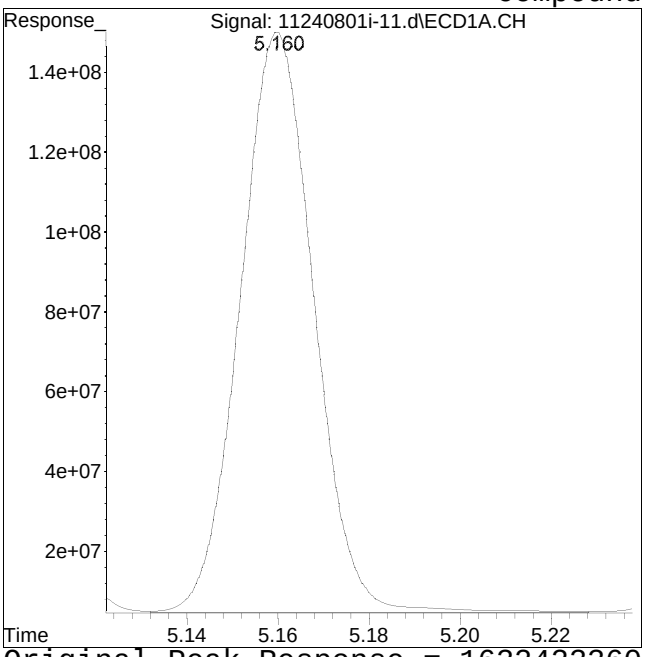
Original Peak Response = 925798512 Manual Peak Response = 899259206 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

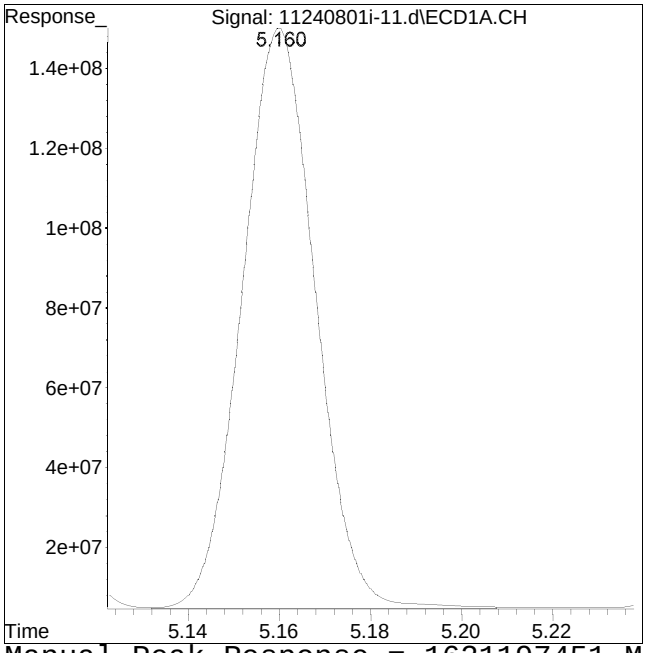
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #24: Mirex





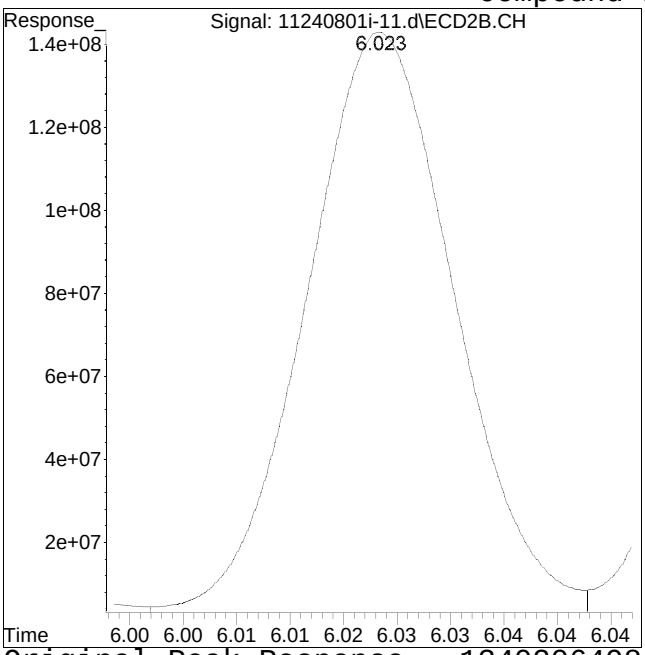
Original Peak Response = 1632423360 Manual Peak Response = 1621197451 M4
M4 = Poor automated baseline construction.

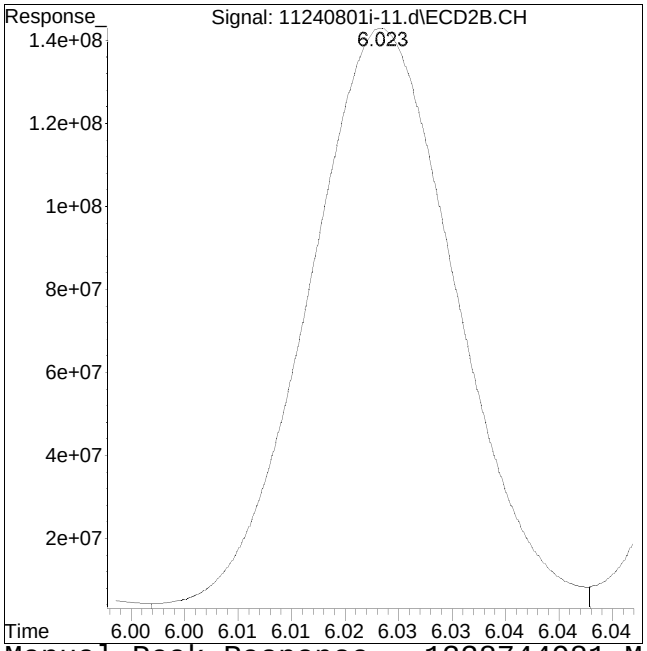
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #62: Mirex #2





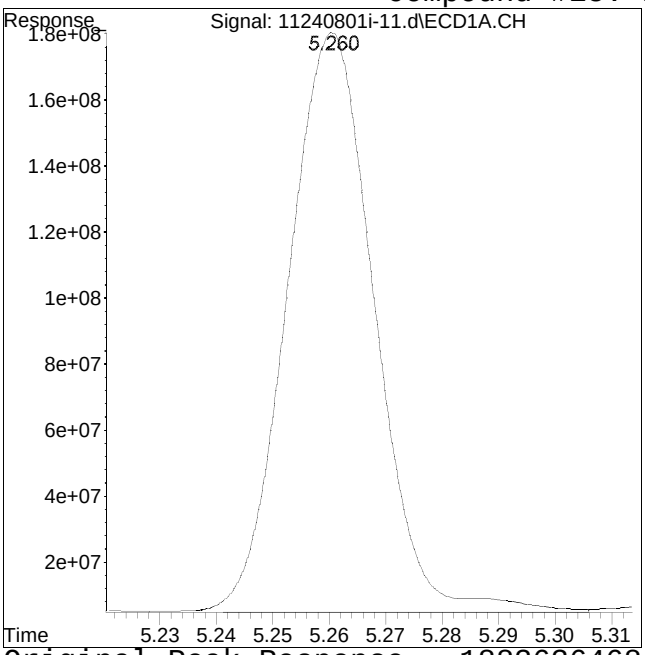
Original Peak Response = 1340206498 Manual Peak Response = 1338744981 M4
M4 = Poor automated baseline construction.

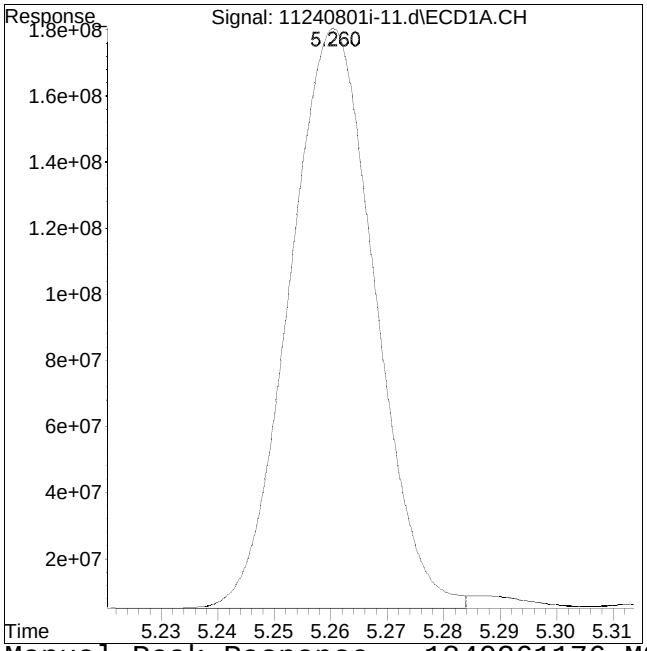
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 1883636468 Manual Peak Response = 1840261176 M3

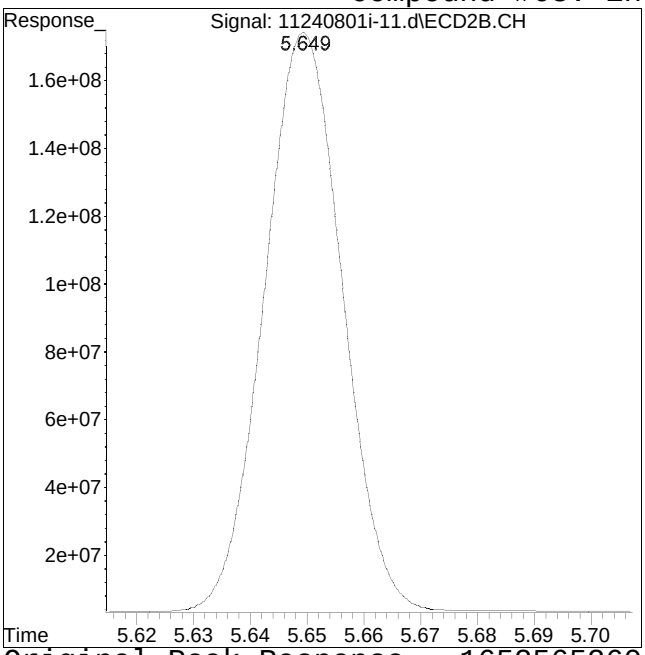
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

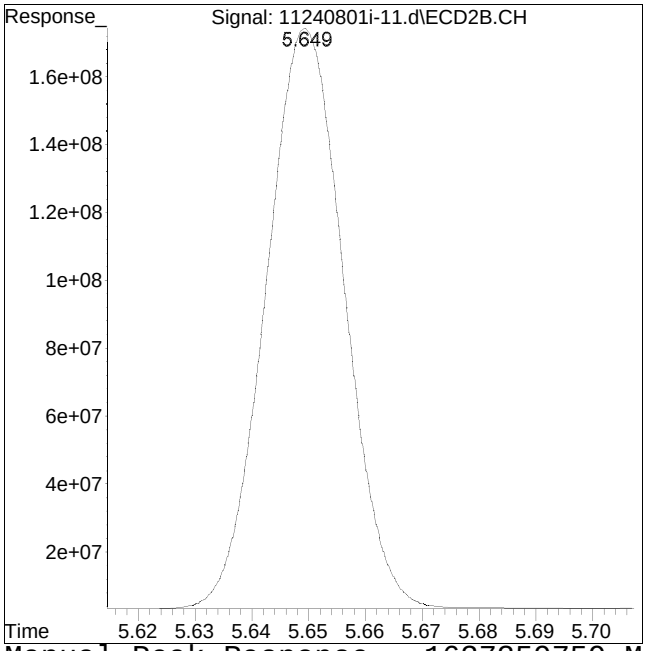
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 1652565260



Manual Peak Response = 1637359759 M4

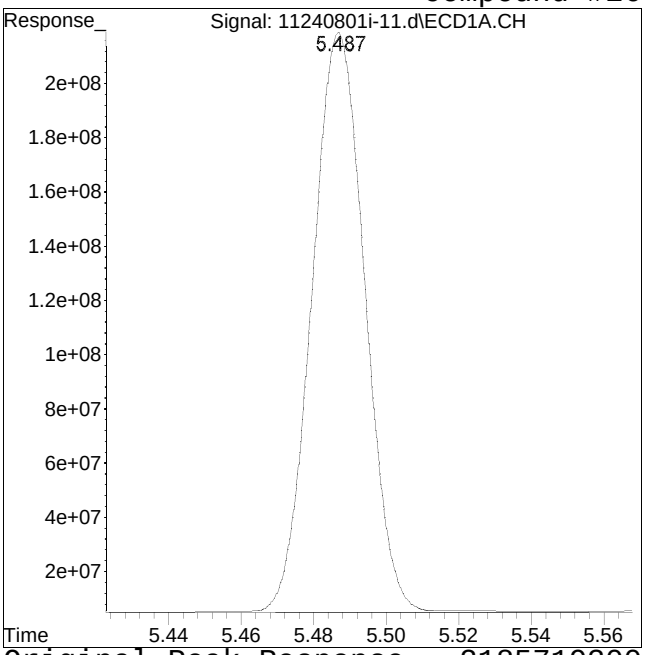
M4 = Poor automated baseline construction.

Manual Integration Report

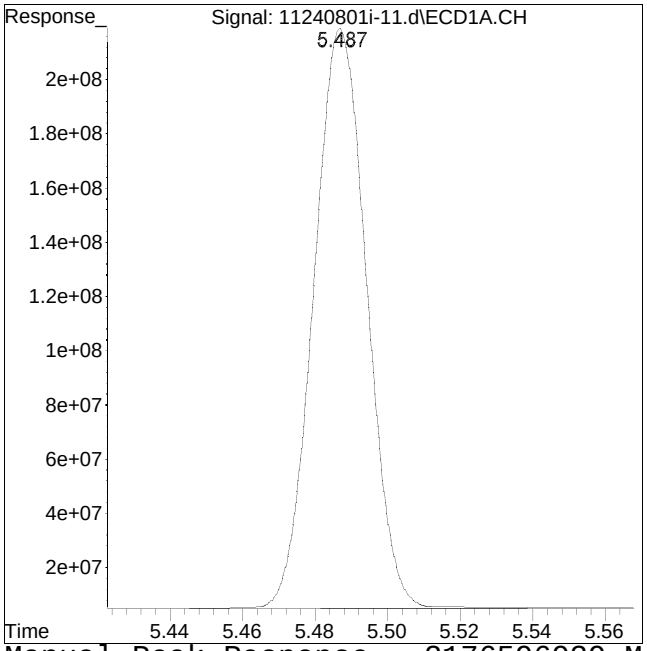
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #26: Endrin Ketone



Original Peak Response = 2185719300



Manual Peak Response = 2176596939 M4

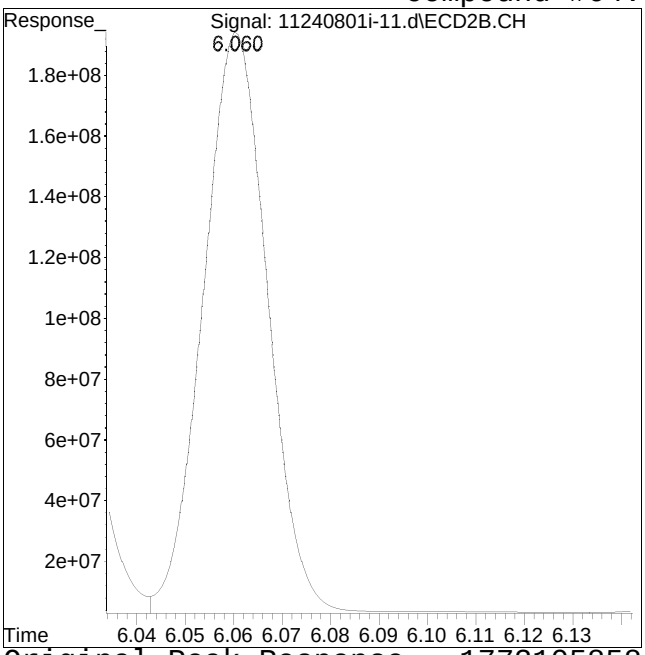
M4 = Poor automated baseline construction.

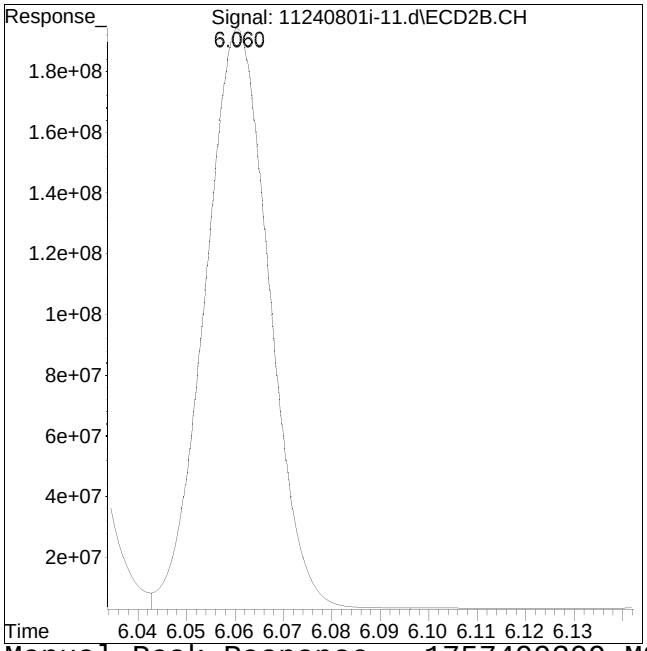
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #64: Endrin Ketone #2





Original Peak Response = 1773105858 Manual Peak Response = 1757499309 M3

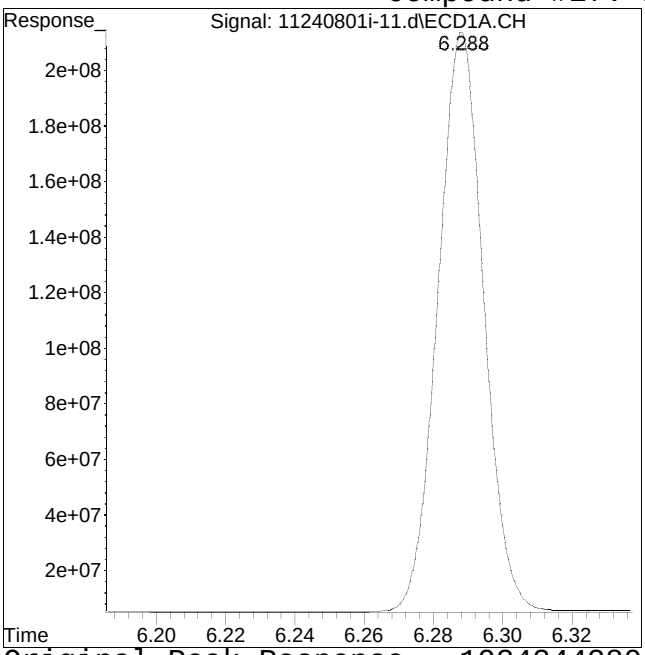
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

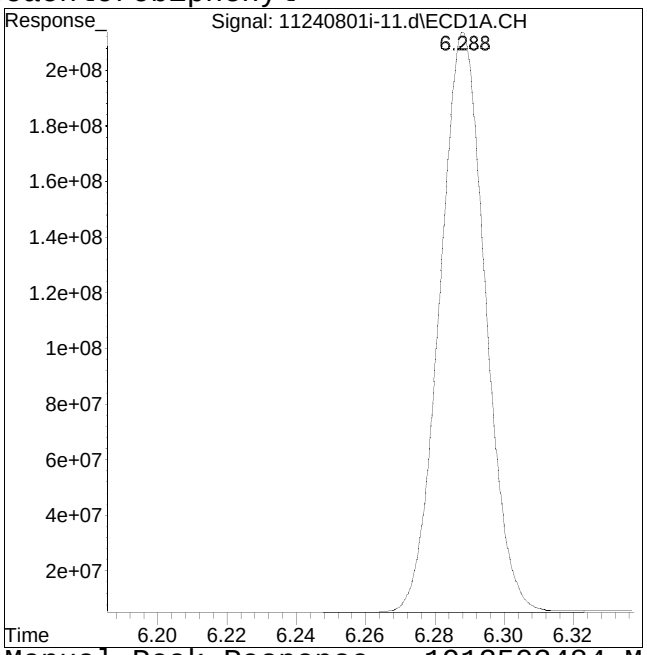
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 1934244280



Manual Peak Response = 1913503484 M4

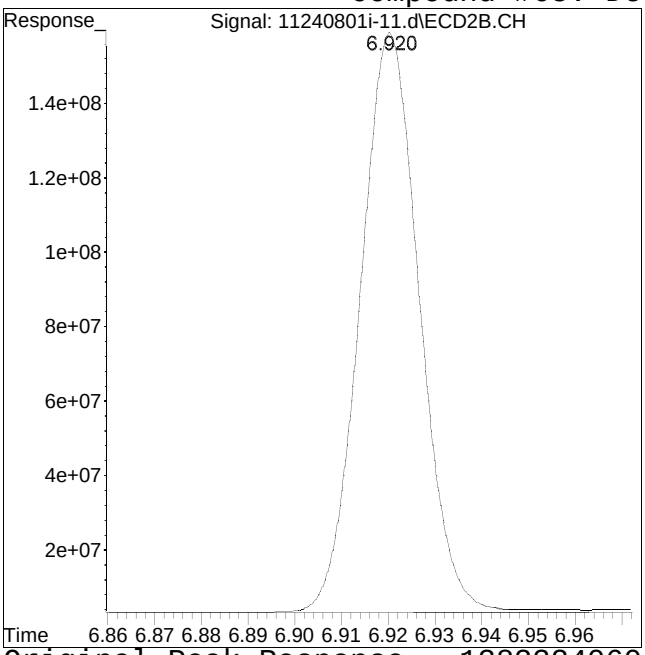
M4 = Poor automated baseline construction.

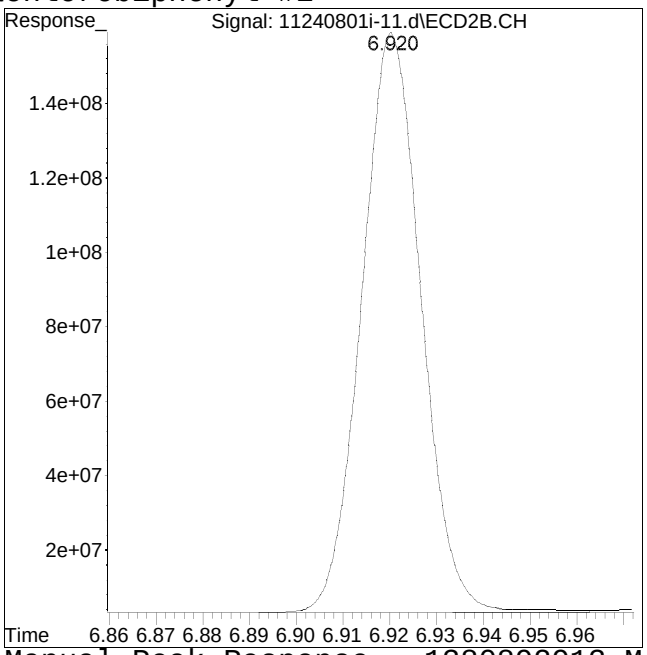
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1383324060 Manual Peak Response = 1380892913 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.310	1.386	219.1E6	172.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.653	1.859	3436.3E6	2866.4E6	375.795M3	383.994
	Spiked Amount 50.000	Range 30 - 150		Recovery =		751.59%#	767.99%#
27) s	Decachlorobi	6.288	6.919	3542.0E6	2565.1E6	389.672M4	396.514M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		779.34%#	793.03%#
	Target Compounds						
3) t	Hexachlorobe	1.866	2.179	4393.8E6	3054.6E6	374.440M3	386.397M4
4) t	alpha-BHC	1.965	2.272	5474.0E6	4748.1E6	387.113M3	397.820M3
5) t	gamma-BHC (l	2.167	2.558	5015.2E6	4254.3E6	385.346M4	395.569
6) t	beta-BHC	2.222	2.623	2035.1E6	1695.7E6	381.357M3	384.044
7) t	delta-BHC	2.351	2.890	5109.5E6	4368.4E6	387.060M4	397.603M4
8) t	Heptachlor	2.514	2.953	4267.4E6	3941.6E6	357.934M4	366.974M4
9) t	Aldrin	2.757	3.272	4276.8E6	3818.0E6	371.928M4	378.594
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	3.302	3.885	3795.3E6	3457.2E6	359.403M3	369.359M4

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.426	4.105	3704.6E6	3328.5E6	381.821M4	385.505M4
14)	t	alpha-Chlord	3.560	4.275	4129.5E6	3639.2E6	377.801M3	381.858M4
15)	t	4,4'-DDE	3.658	4.474	4233.9E6	3665.1E6	381.347M4	383.165M3
16)	t	Endosulfan I	3.696	4.336	3638.6E6	3224.0E6	363.740M3	369.311M4
17)	t	Dieldrin	3.956	4.628	3938.0E6	3471.7E6	374.014M4	378.648M4
18)	t	Endrin	4.211	4.926	3882.2E6	3492.7E6	367.059M3	376.416M4
19)	t	4,4'-DDD	4.323	5.050	3366.6E6	3005.8E6	387.600M4	394.381M4
20)	t	Endosulfan I	4.452	5.126	3381.2E6	2907.3E6	357.803M4	364.277M4
21)	t	4,4'-DDT	4.617	5.327	3755.2E6	3373.8E6	384.027M4	387.821M3
22)	t	Endrin Aldeh	4.869	5.422	2950.3E6	2501.6E6	376.997M4	381.397M3
23)	t	Methoxychlor	5.105	5.891	1699.3E6	1603.4E6	350.495M4	373.779M3
24)	t	Mirex	5.160	6.024	2881.7E6	2395.8E6	373.166M3	379.221M4
25)	t	Endosulfan S	5.261	5.650	3233.7E6	2911.3E6	369.599M3	378.677M3
26)	t	Endrin Keton	5.487	6.061	3805.9E6	3138.1E6	363.553M4	377.488M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

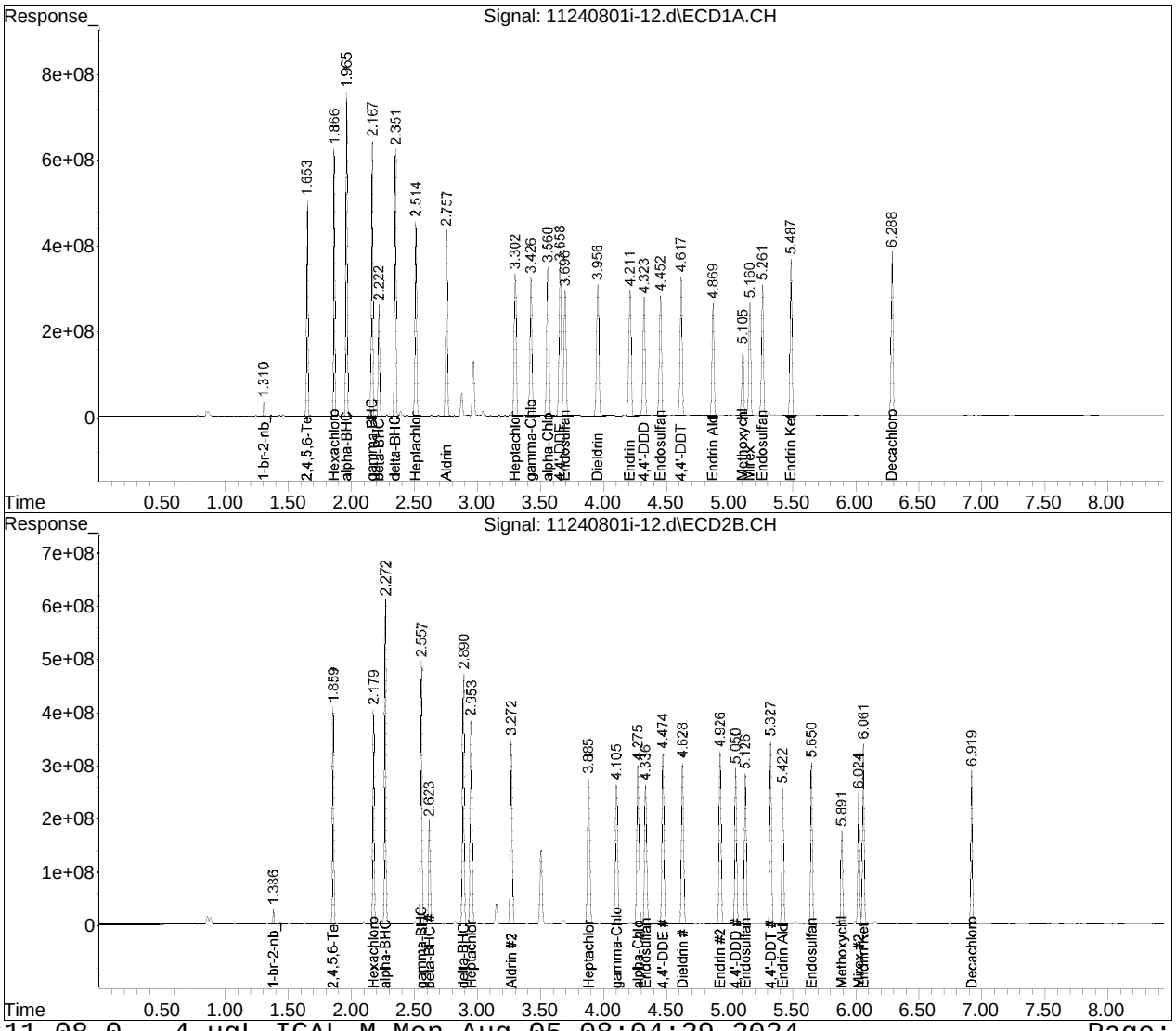
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

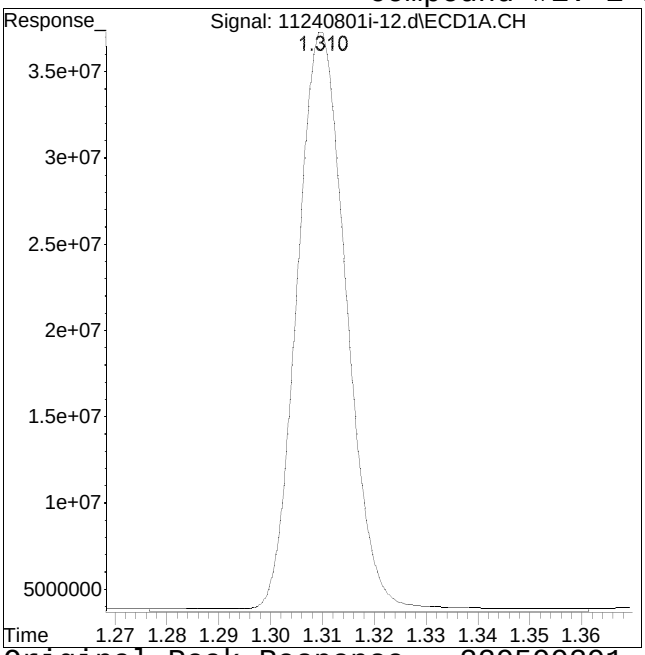
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



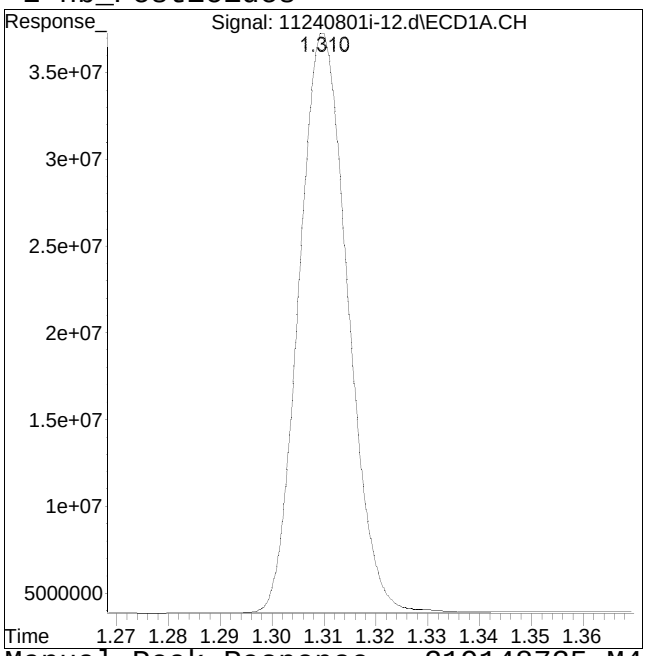
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 229599391



Manual Peak Response = 219148735 M4

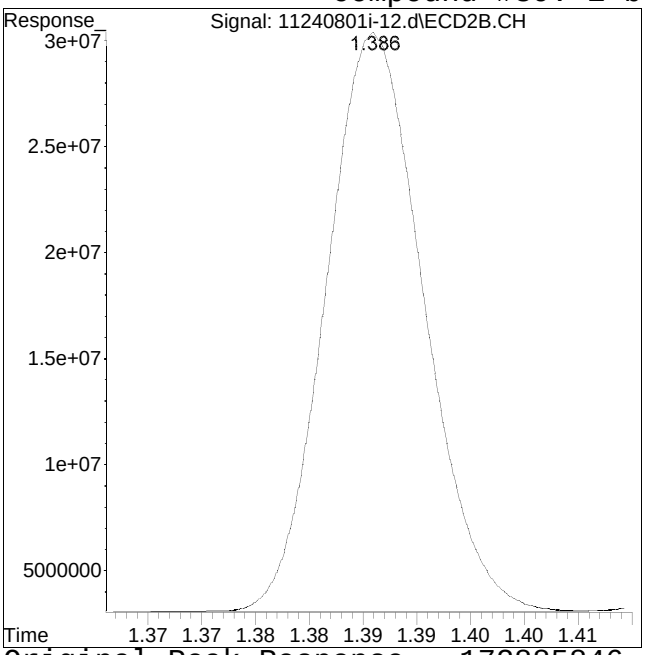
M4 = Poor automated baseline construction.

Manual Integration Report

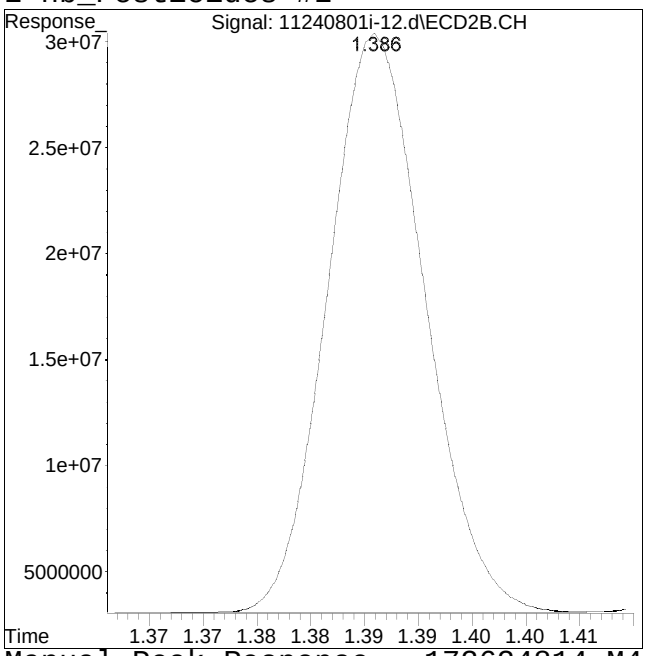
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 172885846



Manual Peak Response = 172624814 M4

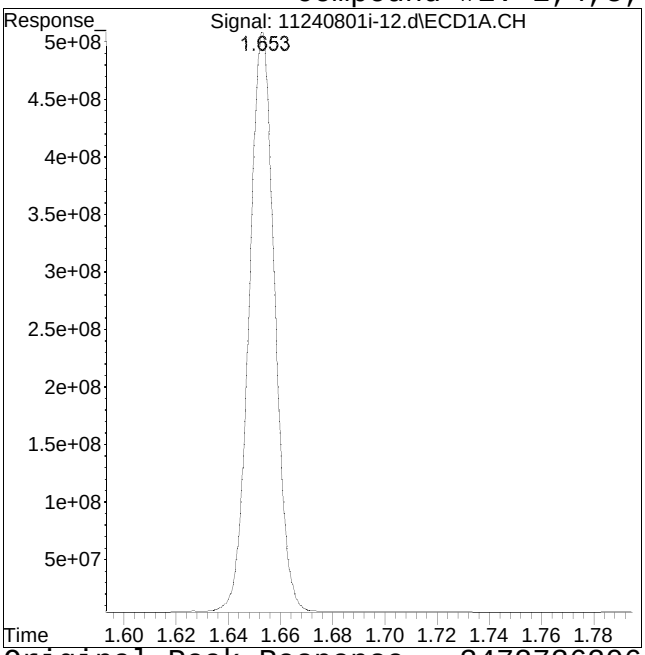
M4 = Poor automated baseline construction.

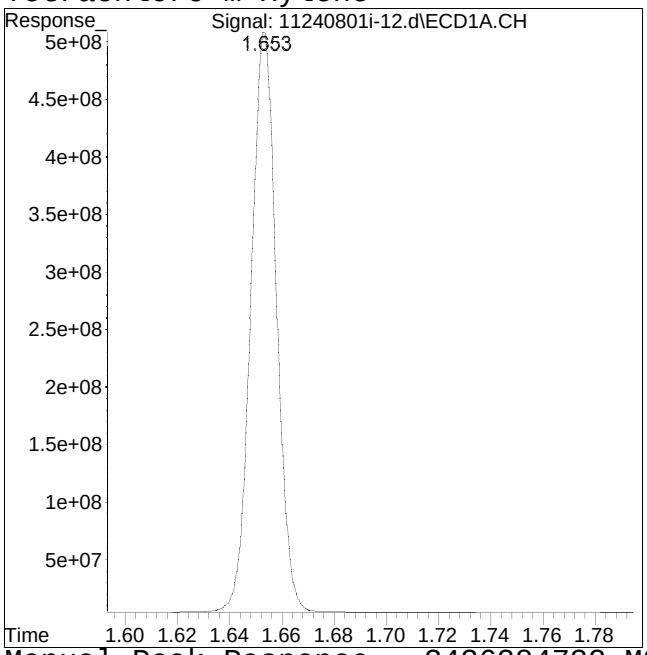
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



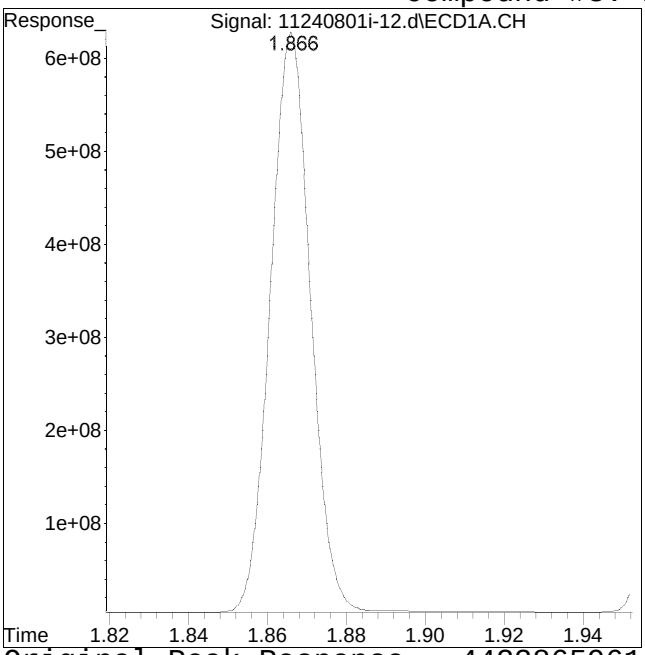


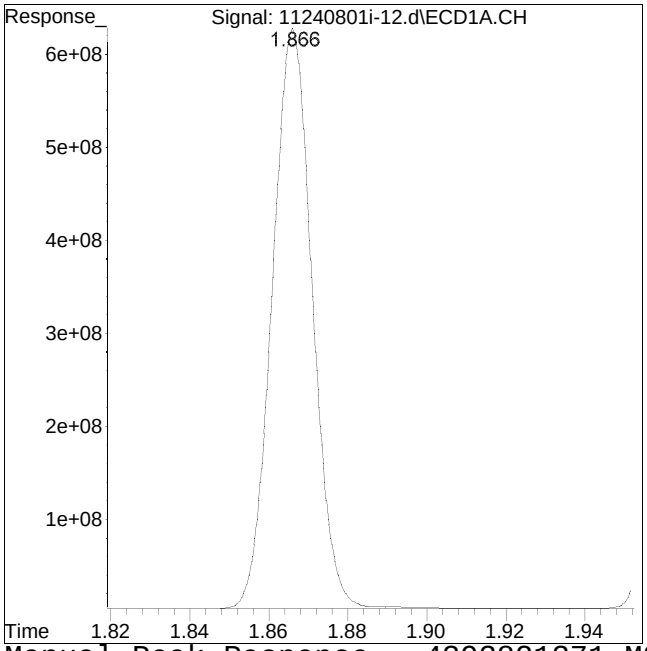
Original Peak Response = 3472736206 Manual Peak Response = 3436284732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #3: Hexachlorobenzene



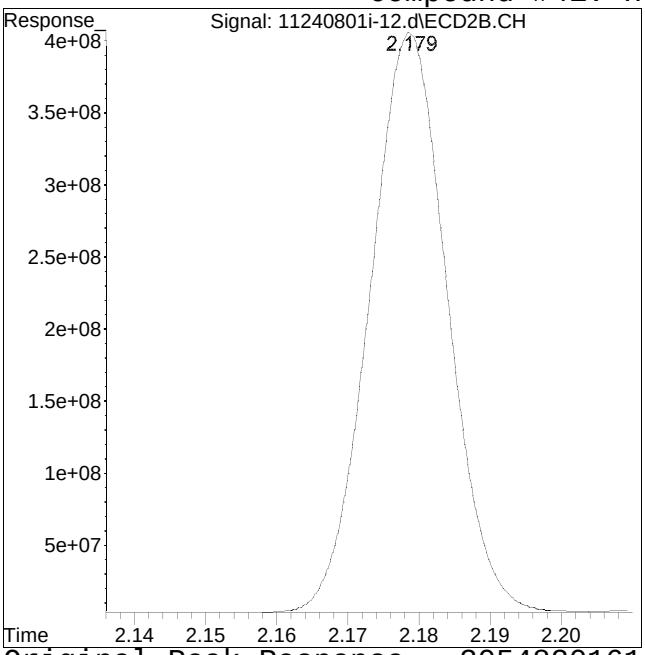


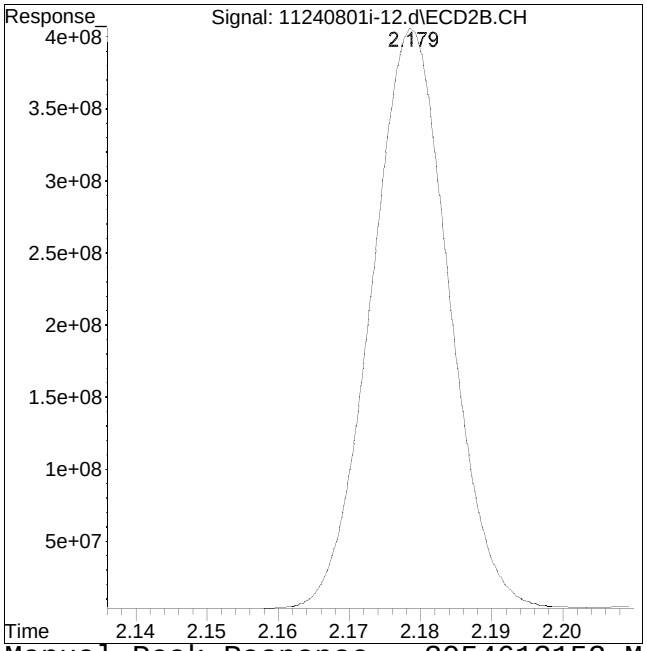
Original Peak Response = 4423865961 Manual Peak Response = 4393821371 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #41: Hexachlorobenzene #2





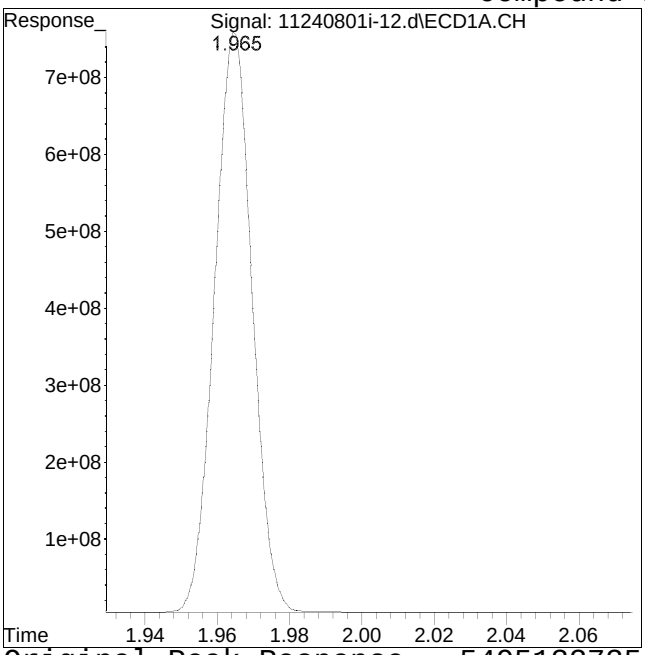
Original Peak Response = 3054820161 Manual Peak Response = 3054613153 M4
M4 = Poor automated baseline construction.

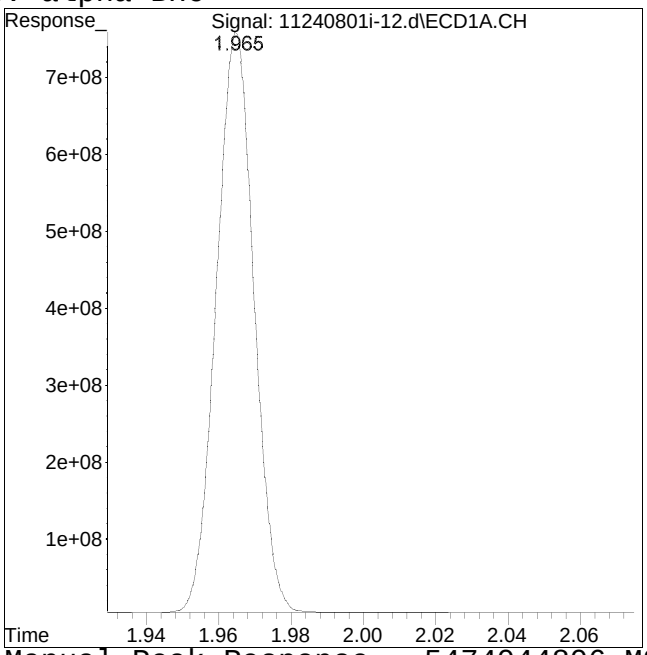
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #4: alpha-BHC



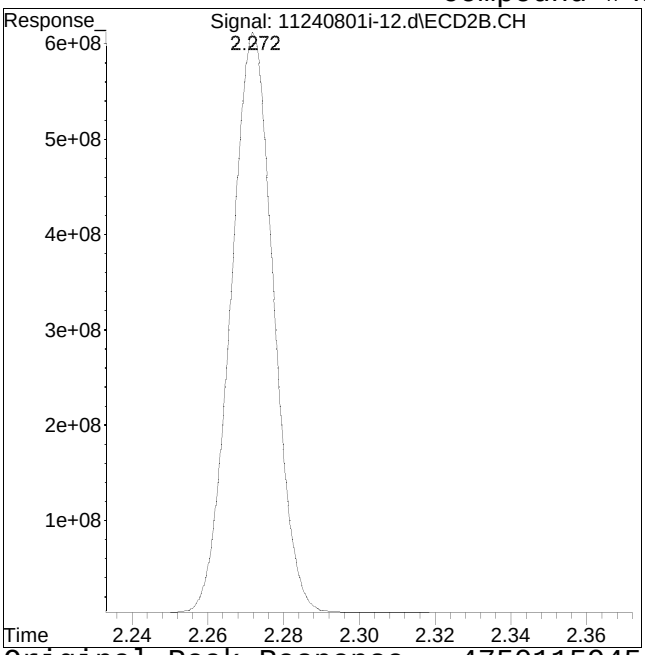


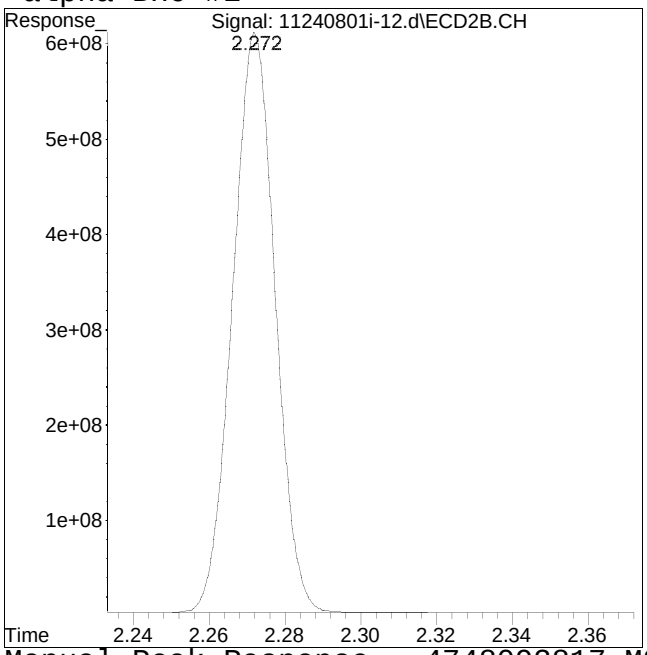
Original Peak Response = 5495133735 Manual Peak Response = 5474044806 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #42: alpha-BHC #2





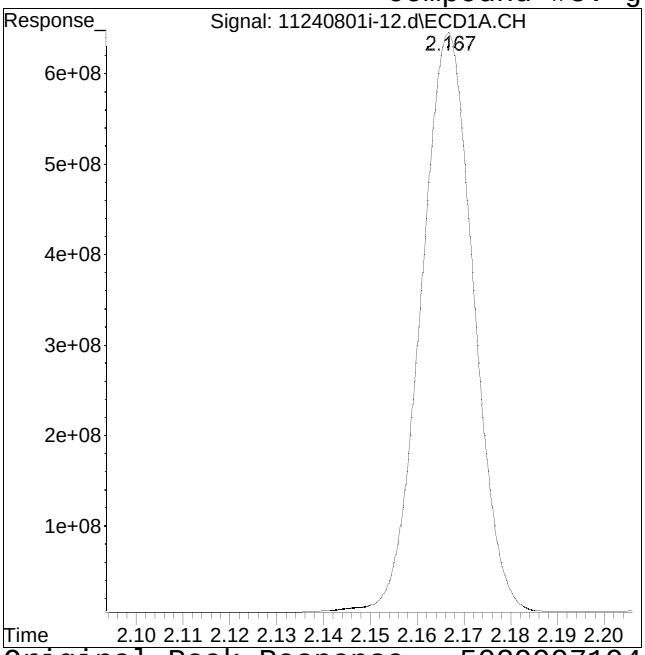
Original Peak Response = 4750115945 Manual Peak Response = 4748093817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

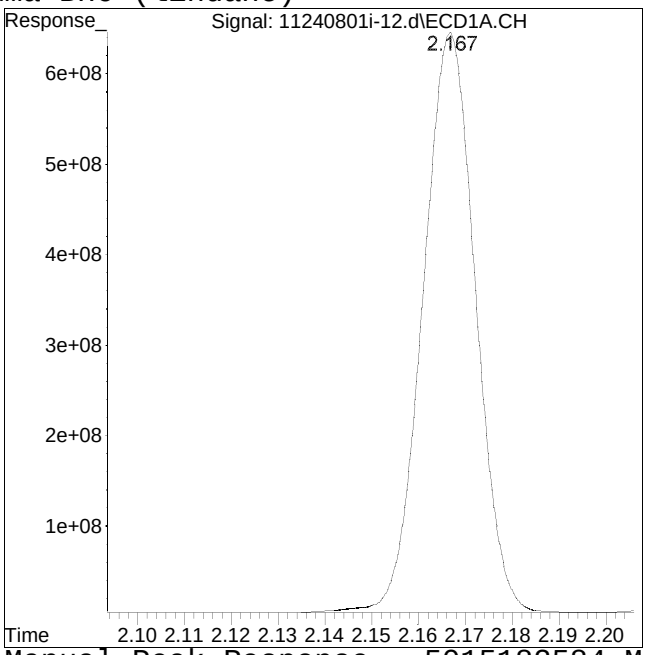
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #5: gamma-BHC (lindane)



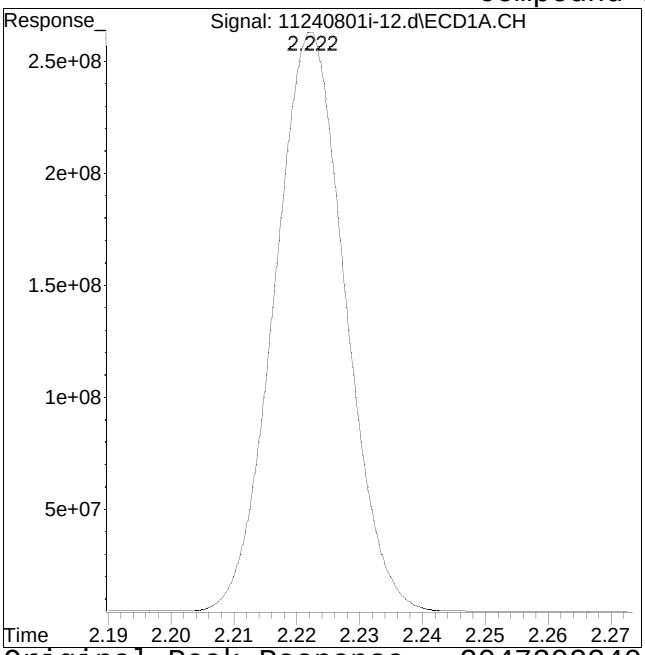


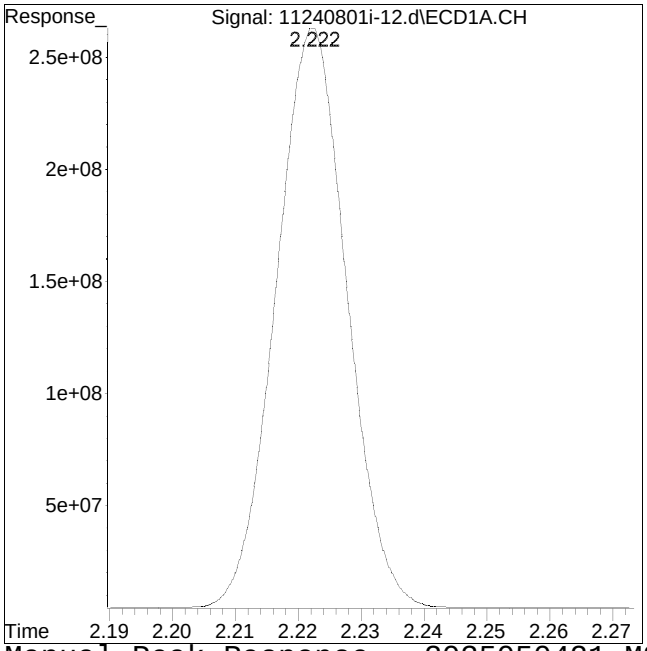
Original Peak Response = 5029997194 Manual Peak Response = 5015182584 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #6: beta-BHC



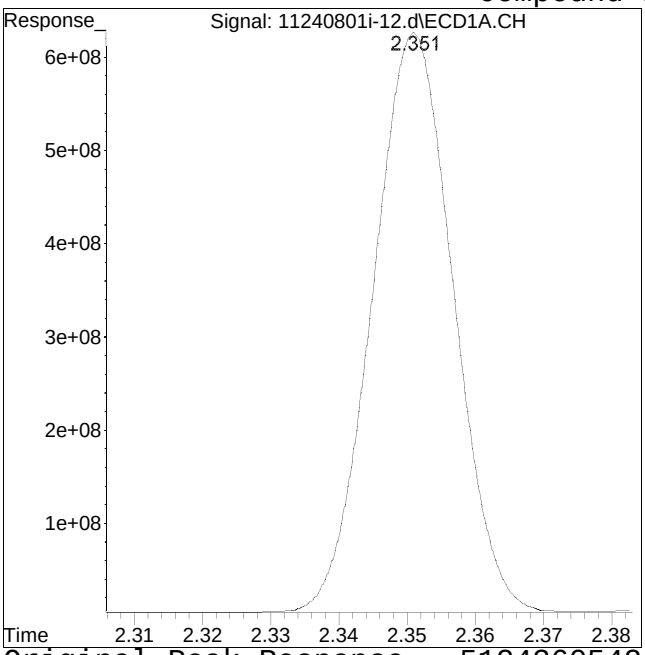


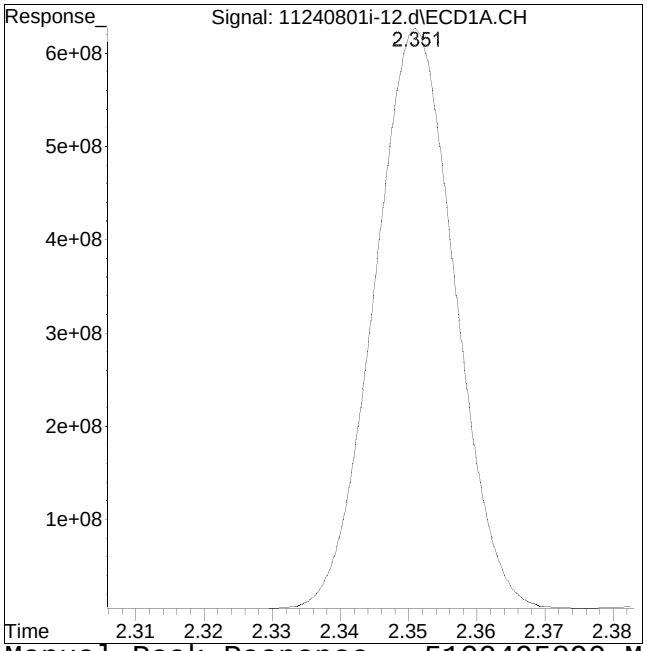
Original Peak Response = 2047292240 Manual Peak Response = 2035050421 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #7: delta-BHC



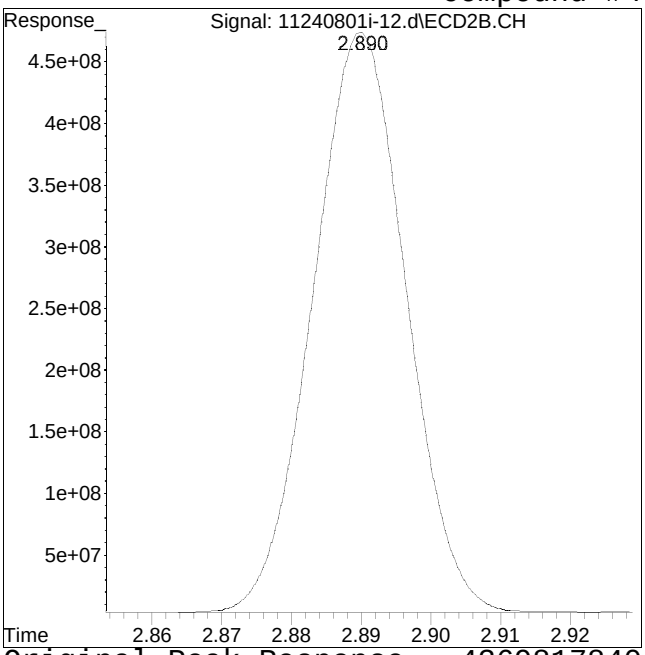


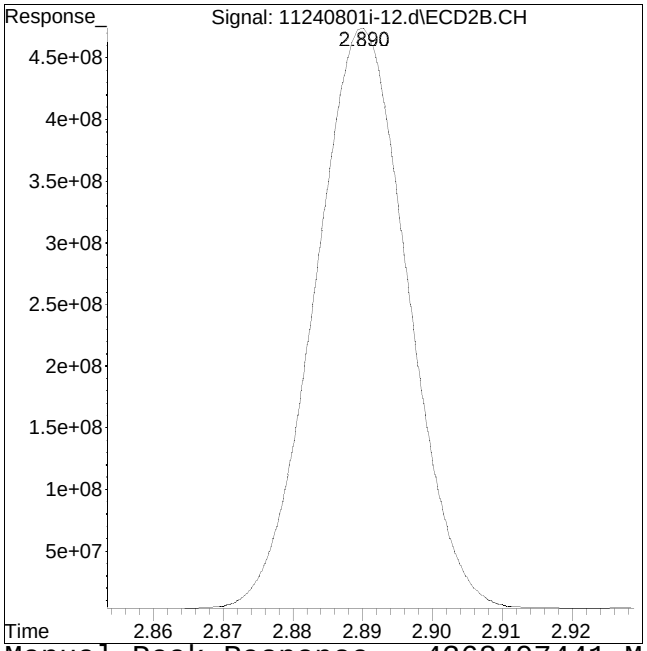
Original Peak Response = 5124360542 Manual Peak Response = 5109495890 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #45: delta-BHC #2





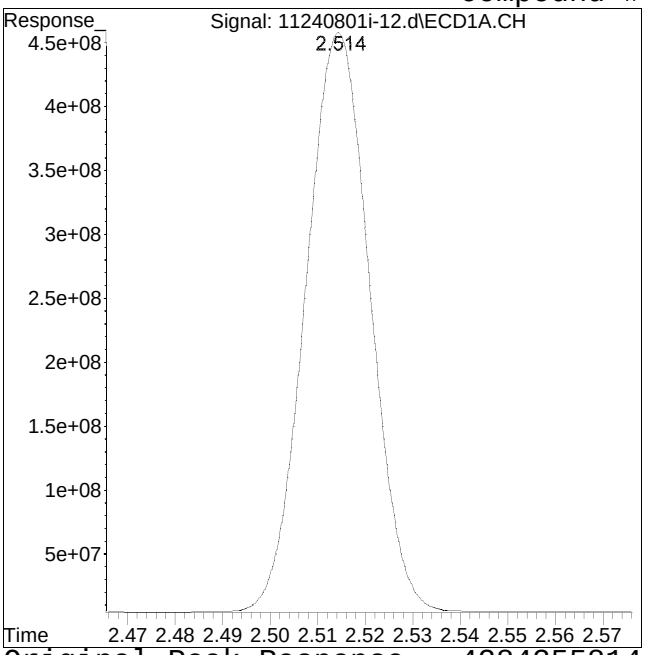
Original Peak Response = 4369817840 Manual Peak Response = 4368407441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

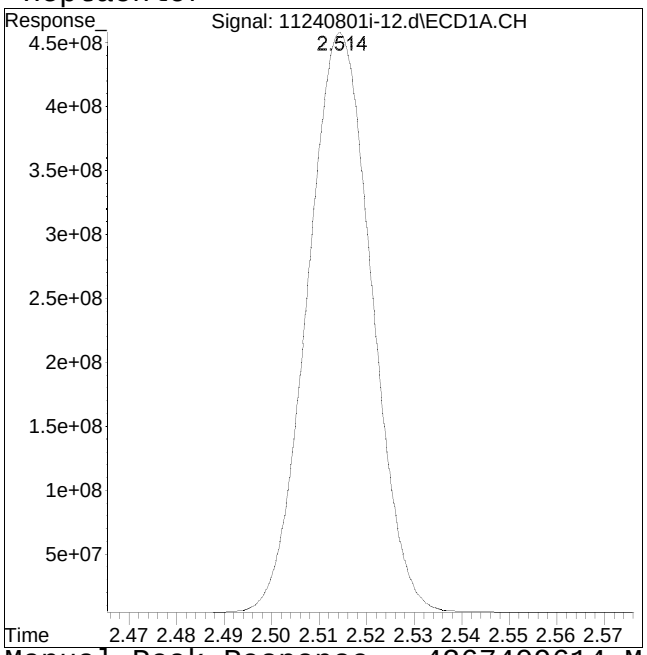
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #8: Heptachlor



Original Peak Response = 4284355814



Manual Peak Response = 4267409614 M4

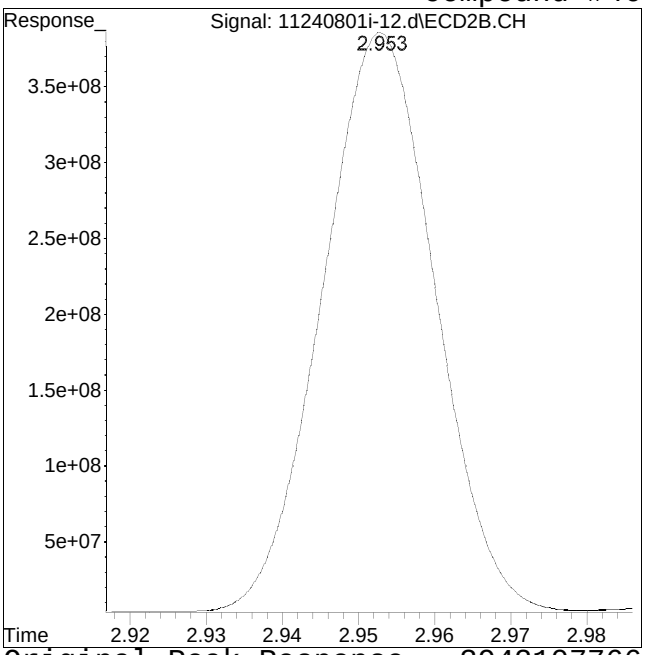
M4 = Poor automated baseline construction.

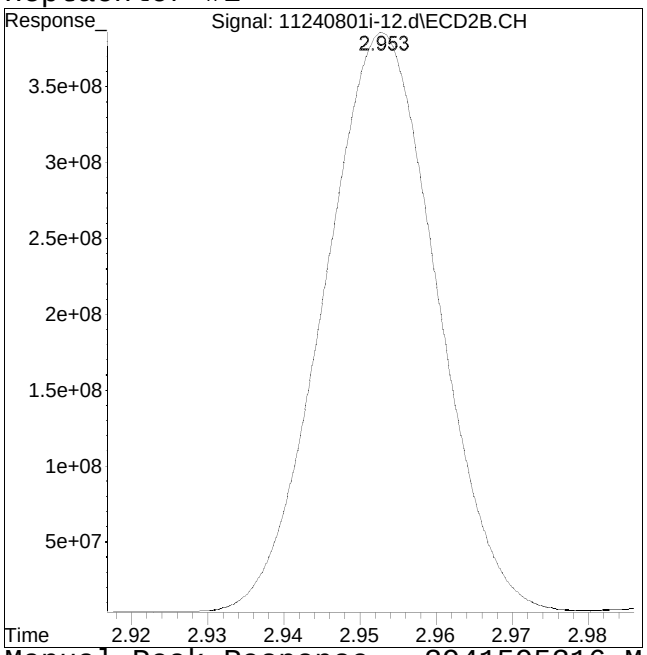
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #46: Heptachlor #2





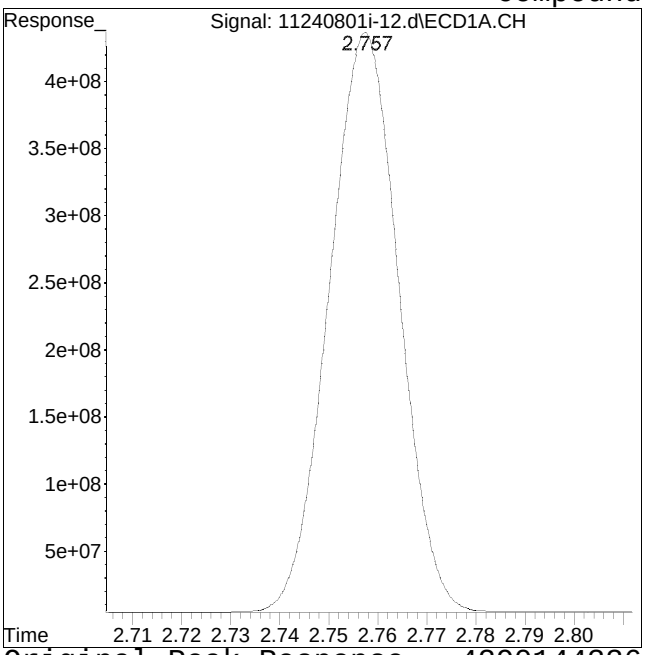
Original Peak Response = 3942107766 Manual Peak Response = 3941595316 M4
M4 = Poor automated baseline construction.

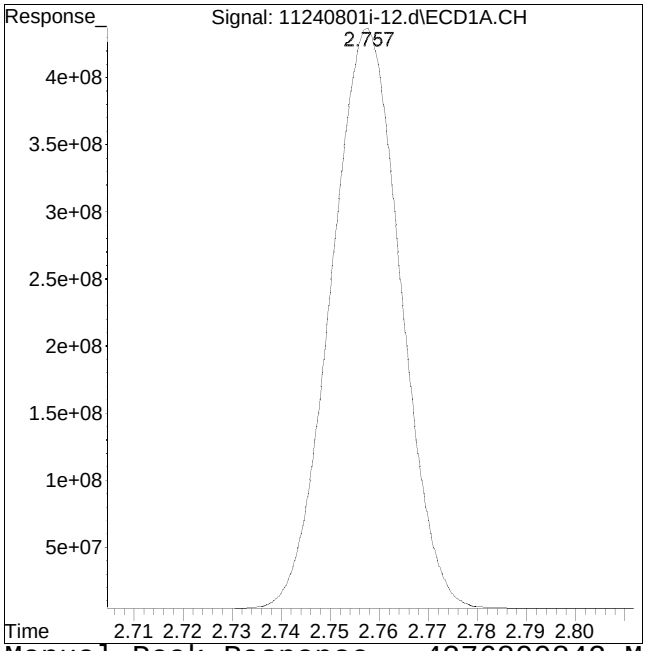
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #9: Aldrin



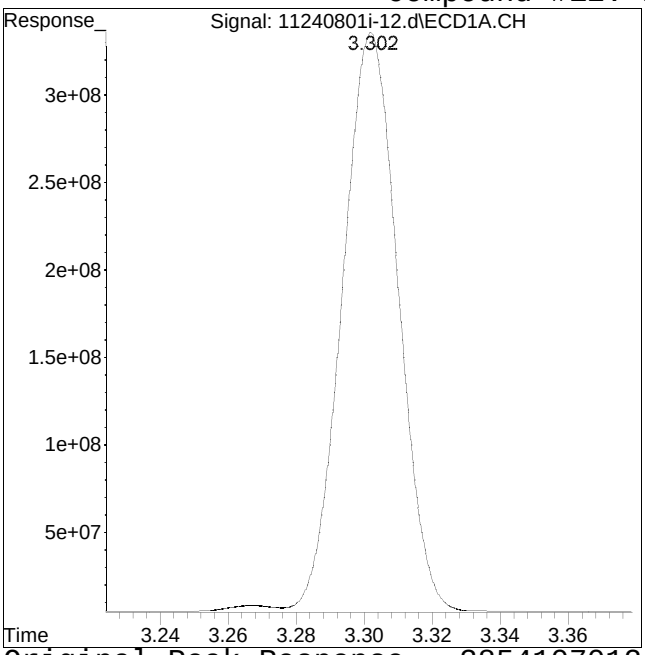


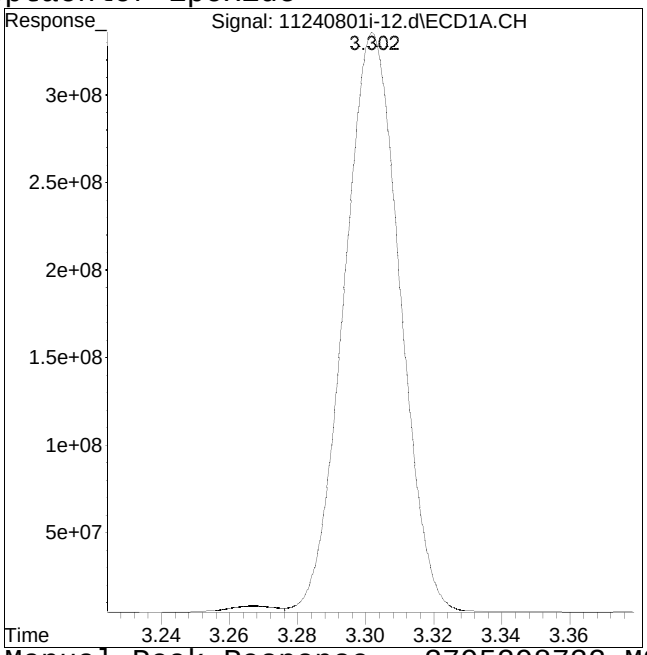
Original Peak Response = 4290144336 Manual Peak Response = 4276800842 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #12: Heptachlor Epoxide



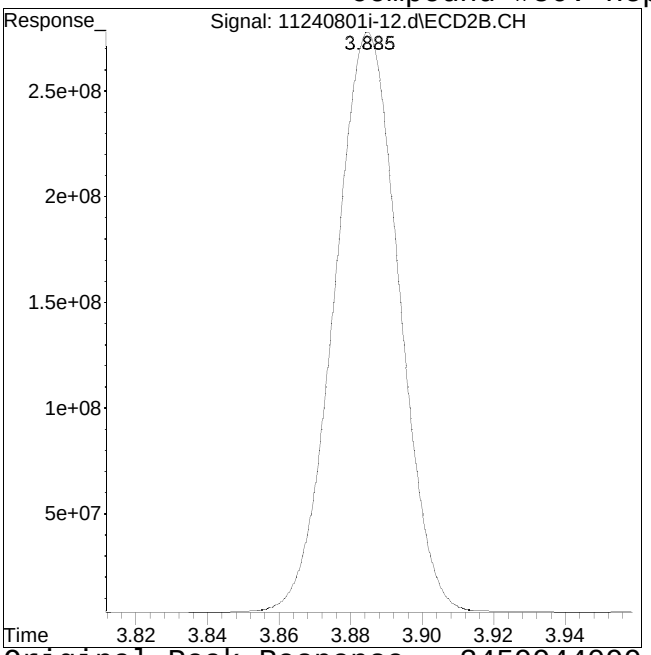


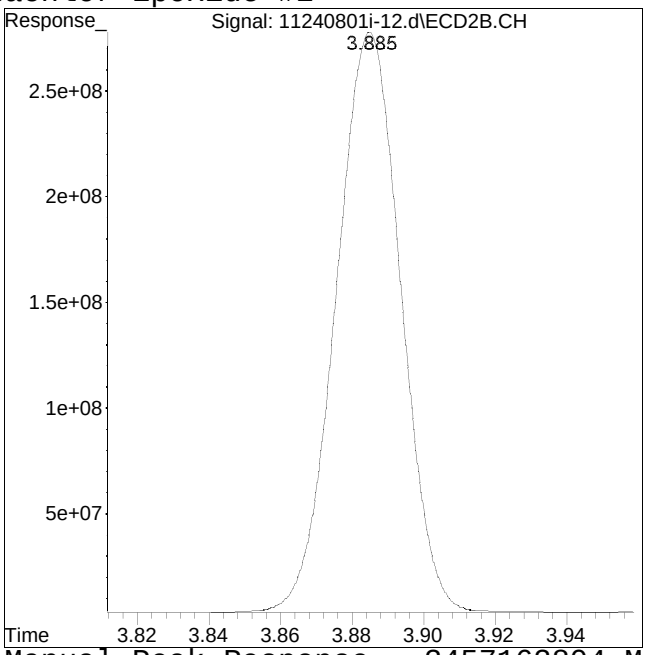
Original Peak Response = 3854107012 Manual Peak Response = 3795298732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #50: Heptachlor Epoxide #2





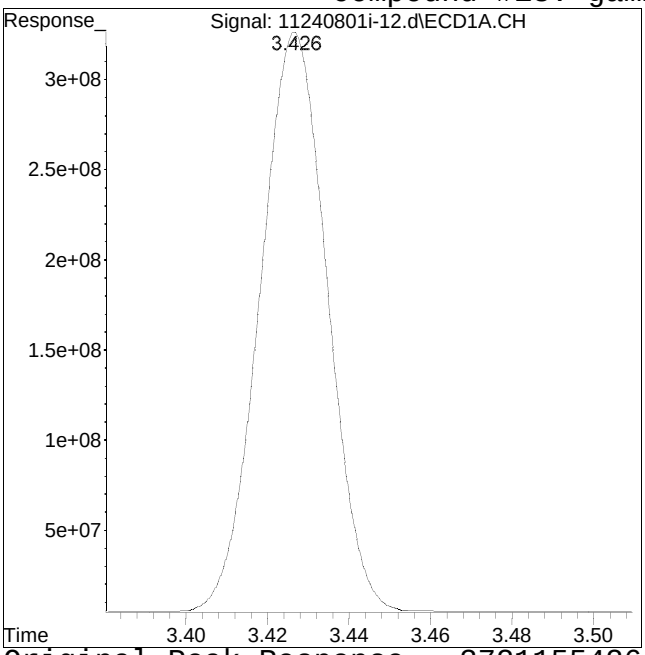
Original Peak Response = 3459944099 Manual Peak Response = 3457163804 M4
M4 = Poor automated baseline construction.

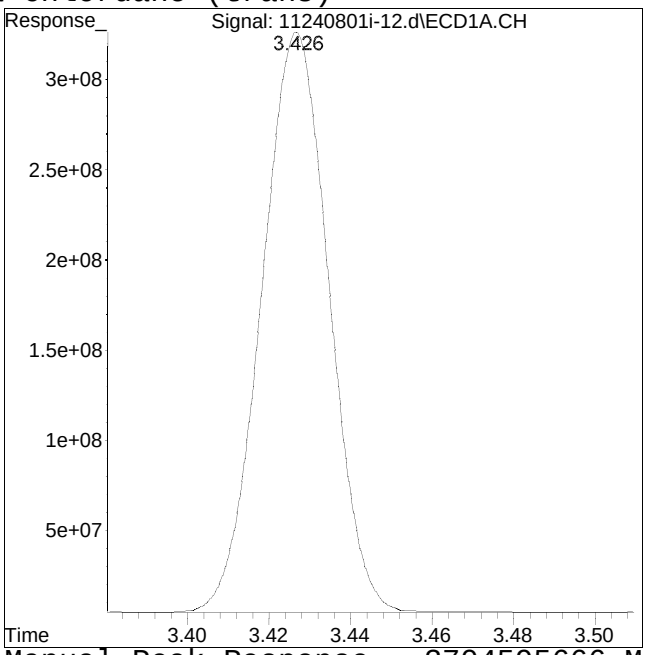
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #13: gamma-Chlordane (trans)



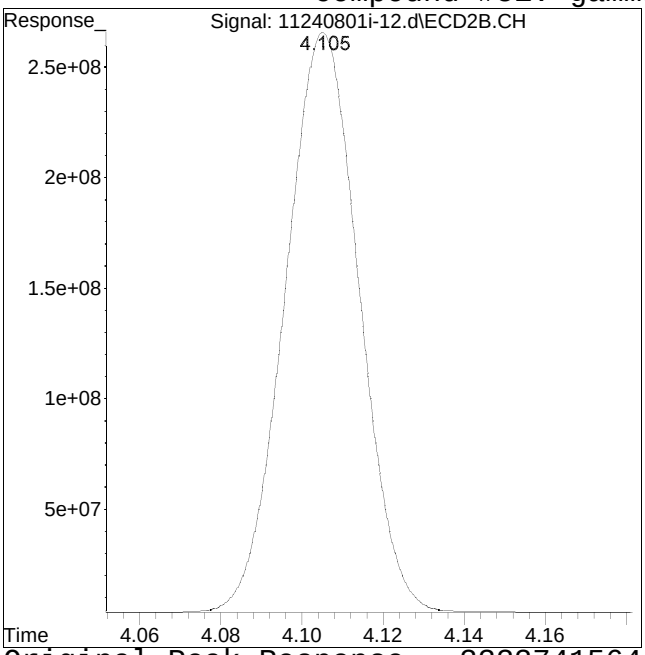


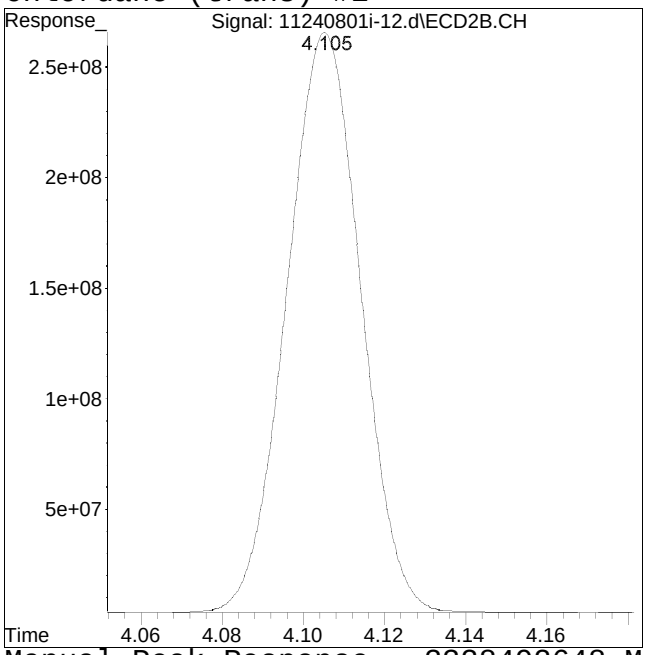
Original Peak Response = 3721155426 Manual Peak Response = 3704595666 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #51: gamma-Chlordane (trans) #2



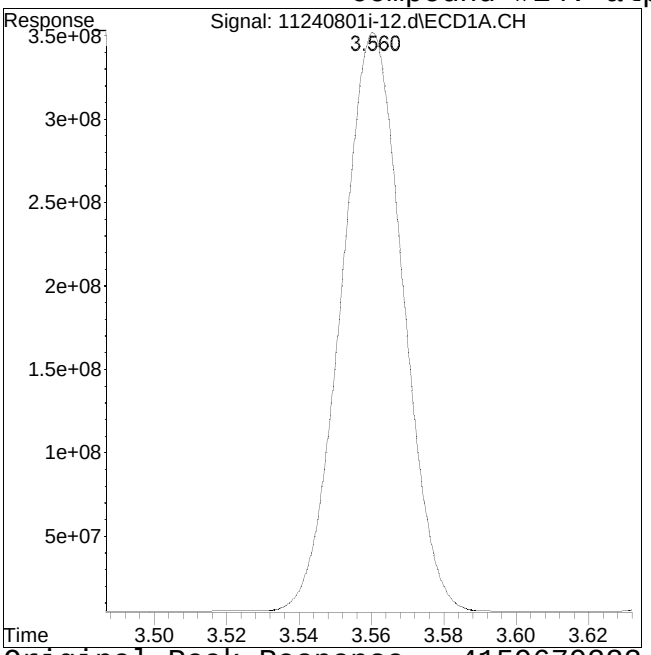


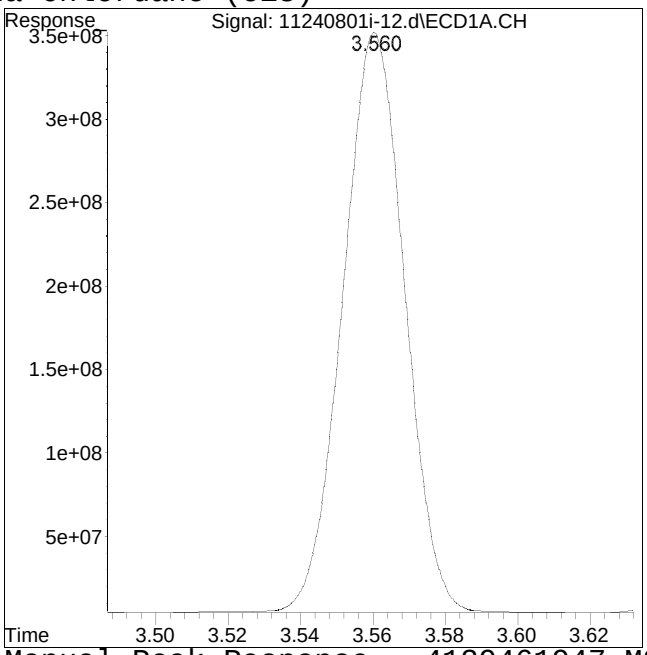
Original Peak Response = 3333741564 Manual Peak Response = 3328492648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #14: alpha-Chlordane (cis)





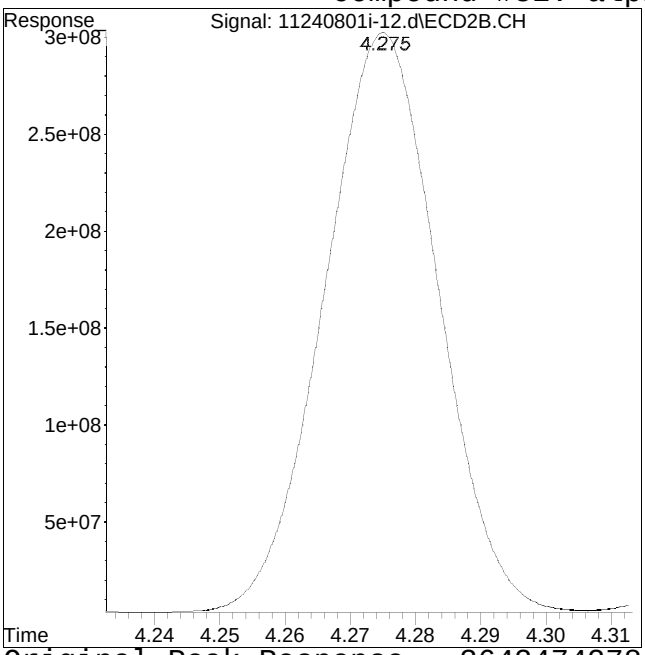
Original Peak Response = 4159679223 Manual Peak Response = 4129461947 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

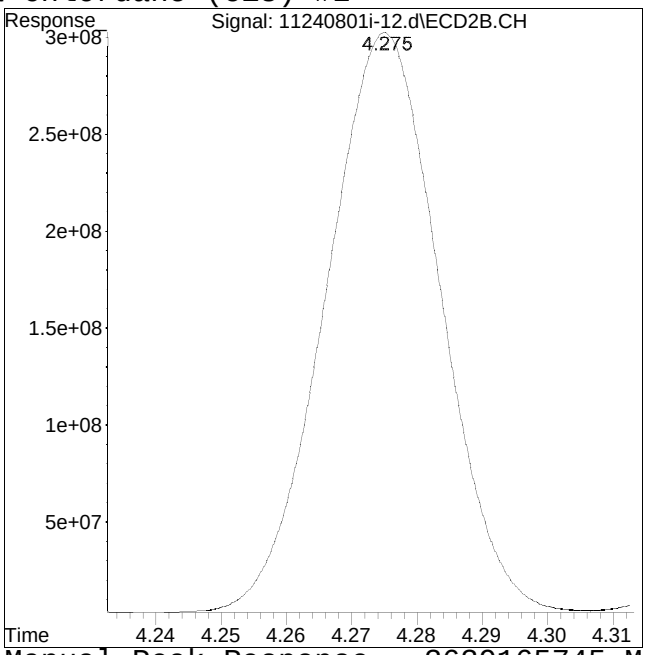
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #52: alpha-Chlordane (cis) #2





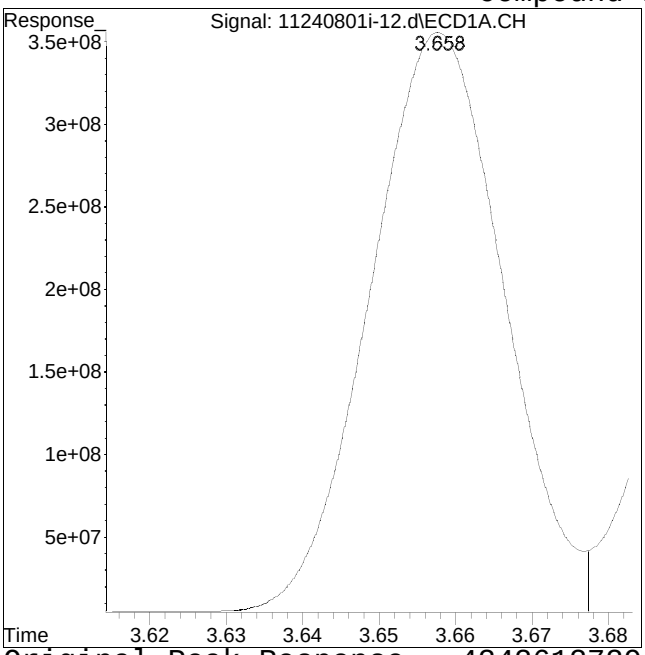
Original Peak Response = 3642474278 Manual Peak Response = 3639165745 M4
M4 = Poor automated baseline construction.

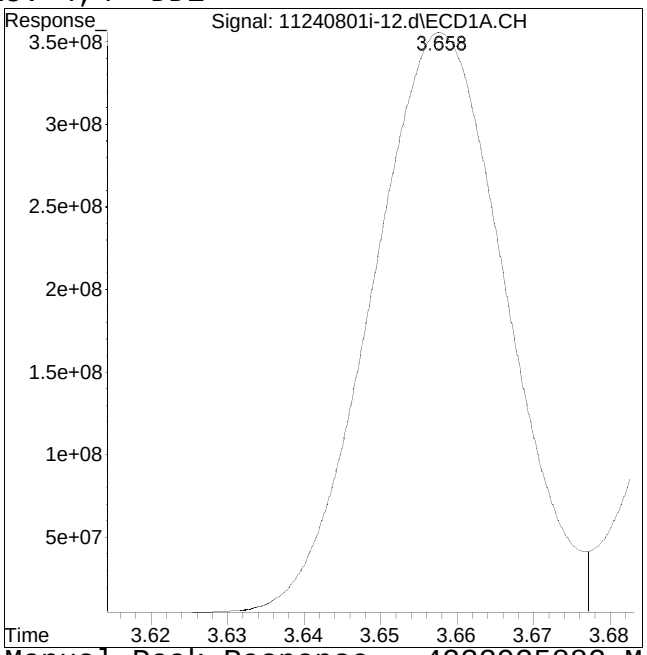
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #15: 4,4'-DDE





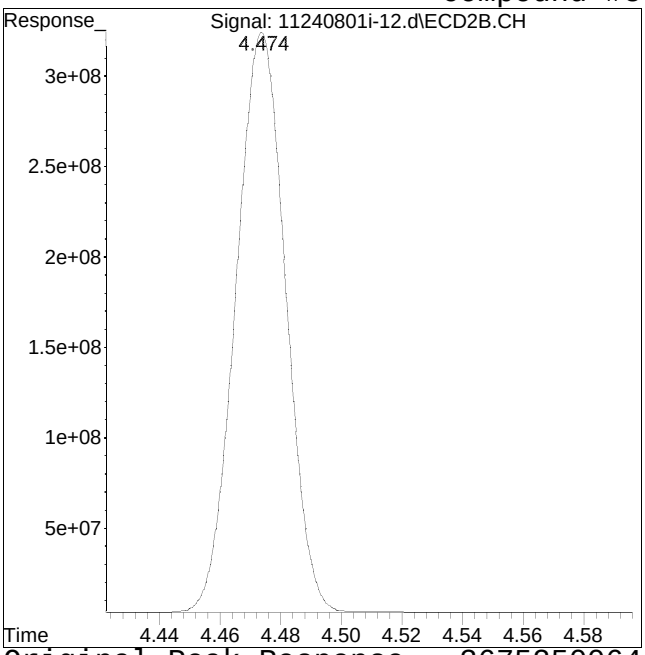
Original Peak Response = 4242612729 Manual Peak Response = 4233935882 M4
M4 = Poor automated baseline construction.

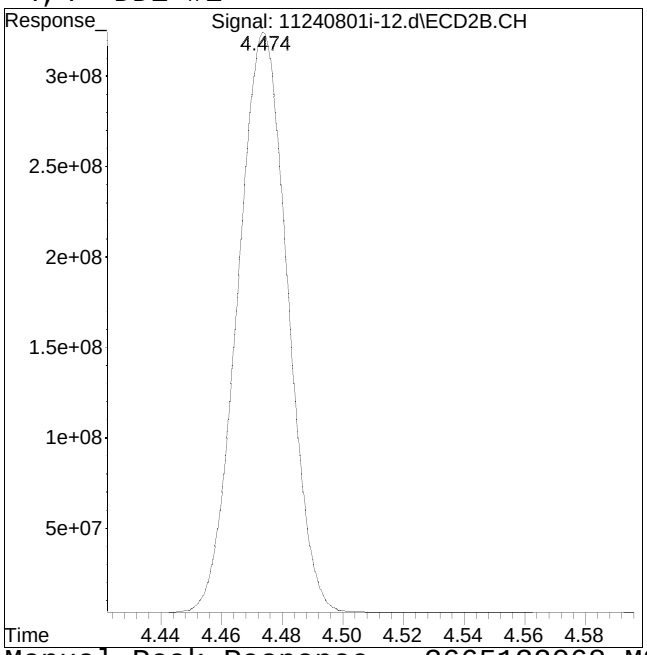
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #53: 4,4'-DDE #2





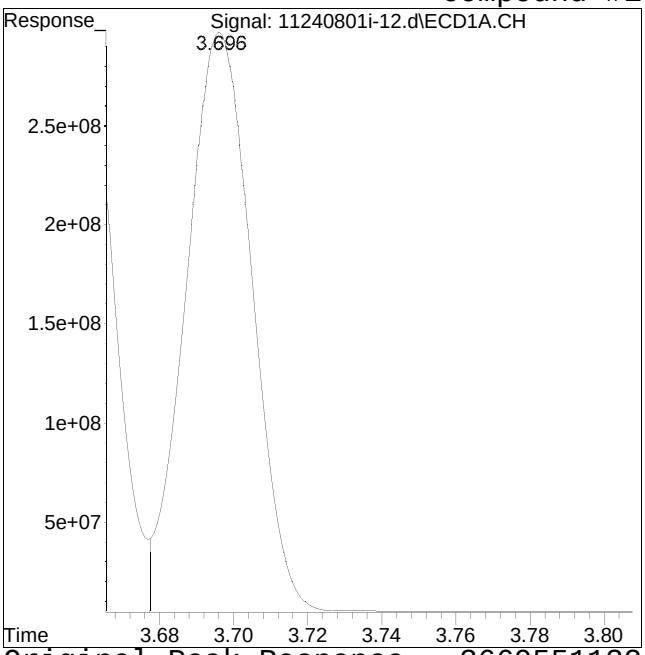
Original Peak Response = 3675250064 Manual Peak Response = 3665132068 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

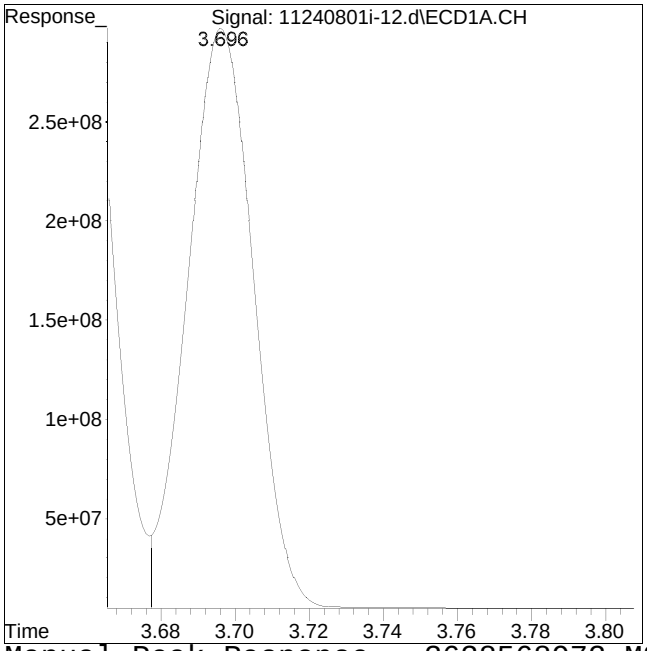
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #16: Endosulfan I



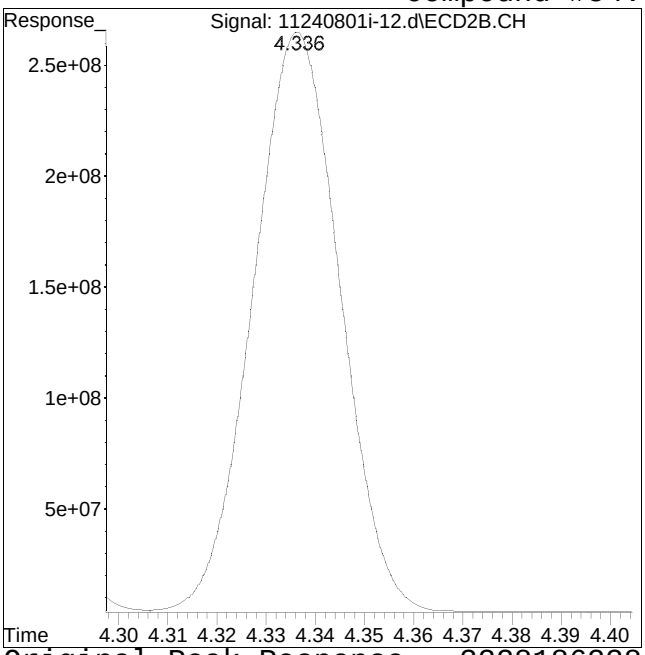


Original Peak Response = 3669551132 Manual Peak Response = 3638568973 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

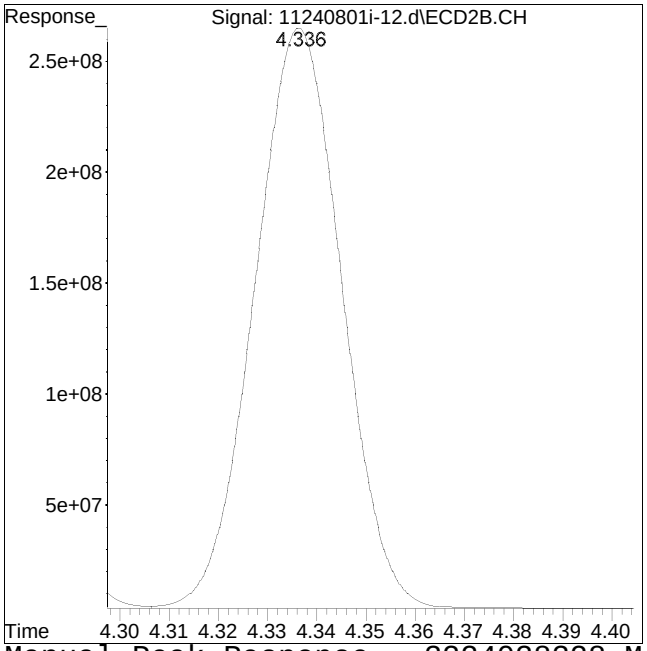
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #54: Endosulfan I #2



Original Peak Response = 3228186238



Manual Peak Response = 3224038328 M4

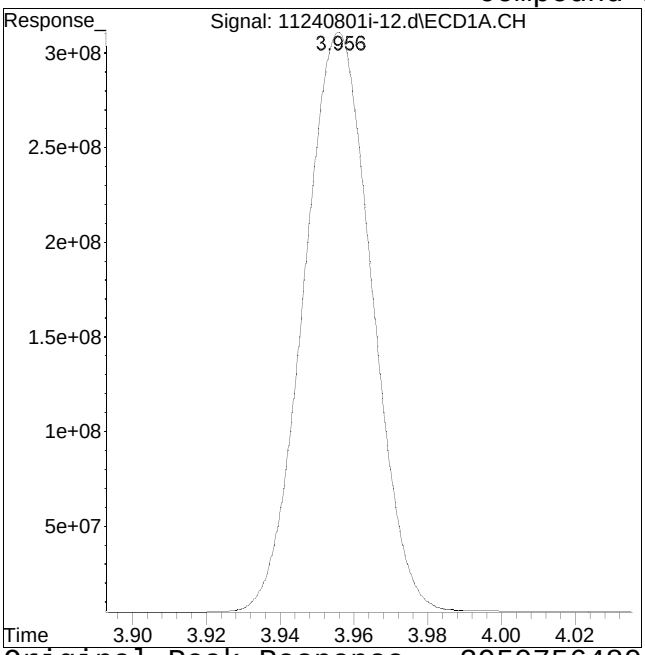
M4 = Poor automated baseline construction.

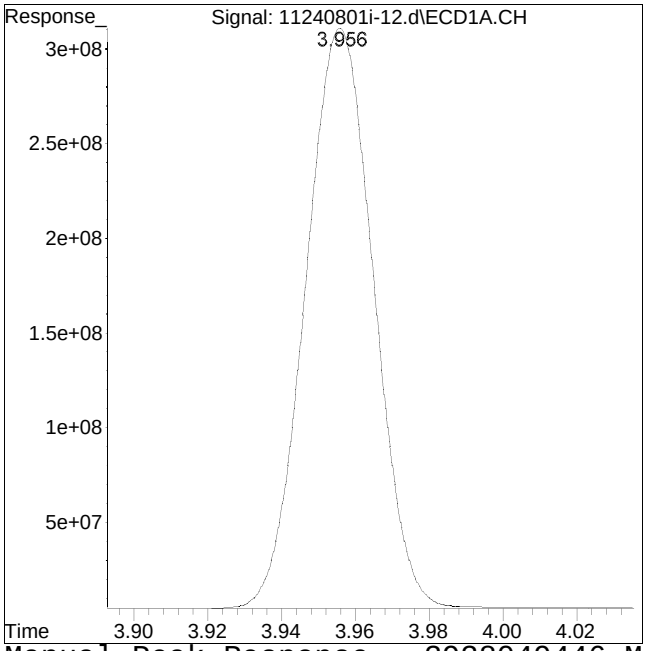
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #17: Dieldrin



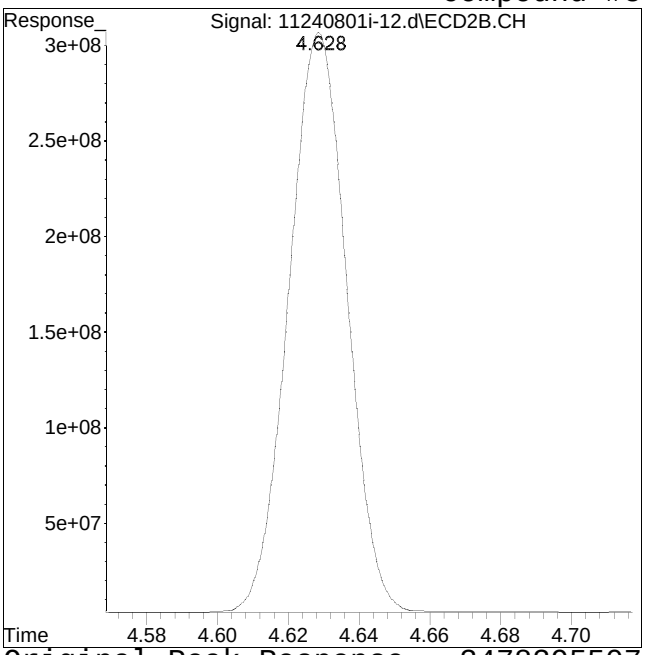


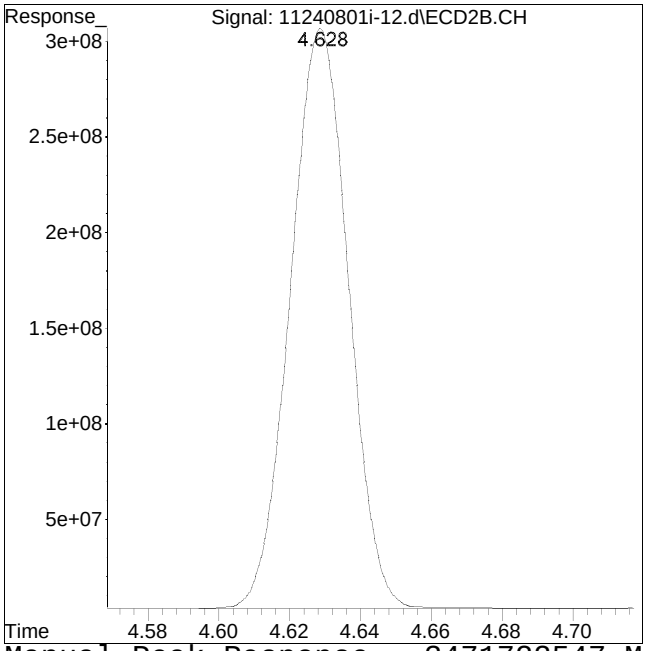
Original Peak Response = 3950756480 Manual Peak Response = 3938049446 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #55: Dieldrin #2



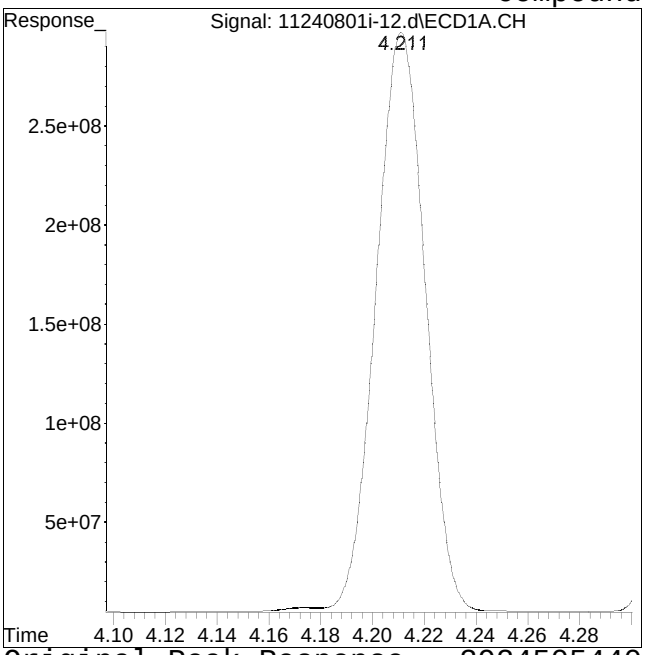


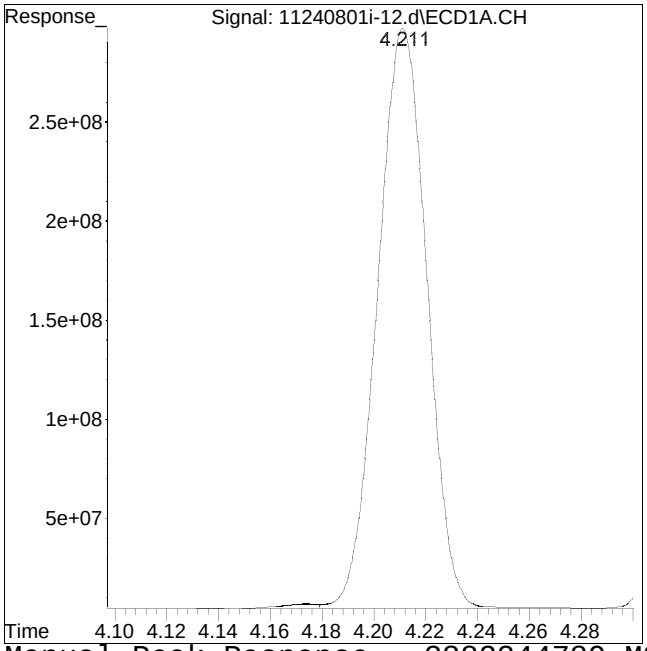
Original Peak Response = 3478395507 Manual Peak Response = 3471722547 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #18: Endrin





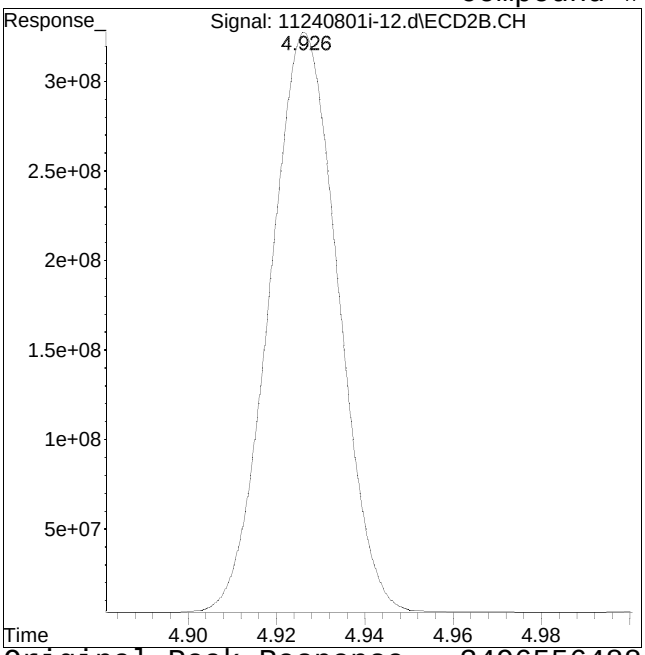
Original Peak Response = 3924505440 Manual Peak Response = 3882244789 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

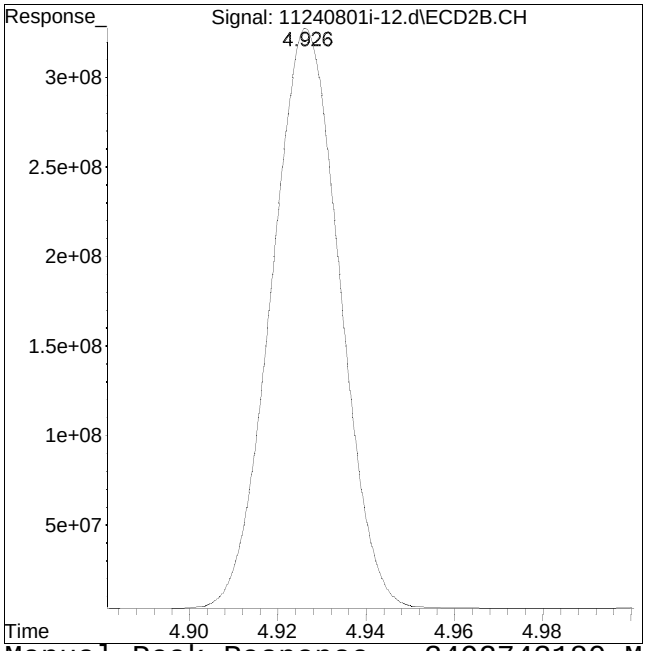
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #56: Endrin #2





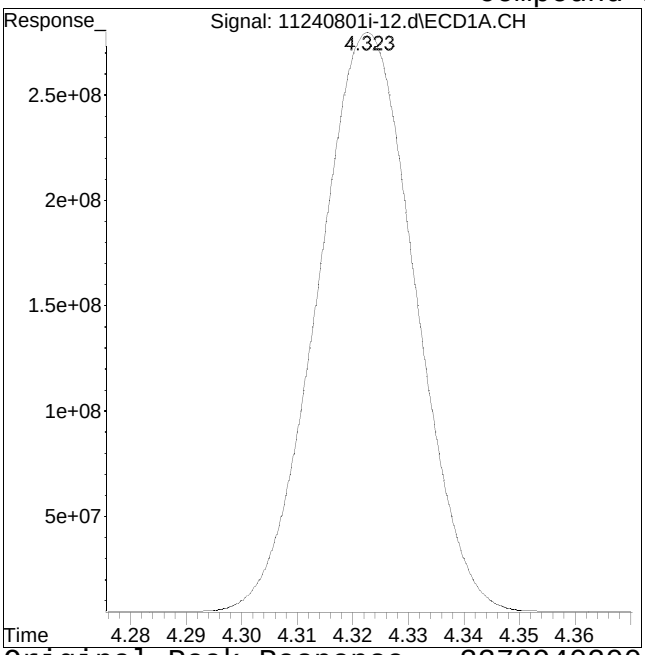
Original Peak Response = 3496556488 Manual Peak Response = 3492743180 M4
M4 = Poor automated baseline construction.

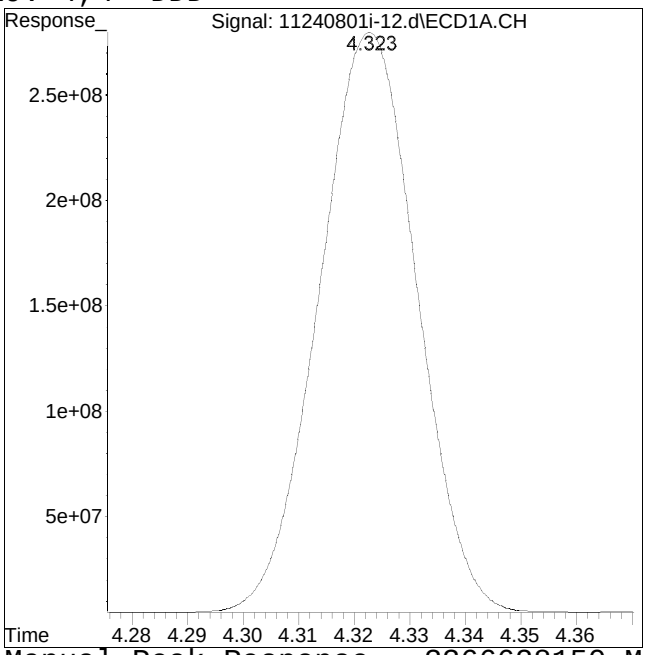
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #19: 4,4'-DDD





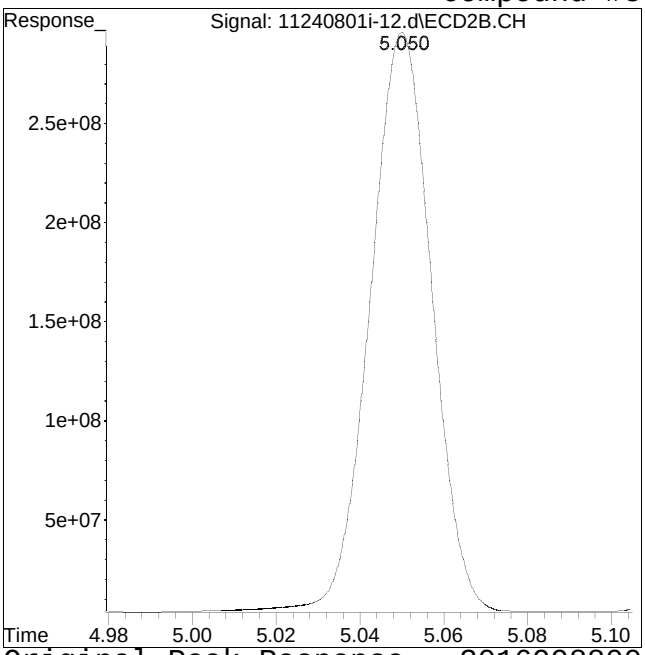
Original Peak Response = 3378940200 Manual Peak Response = 3366628150 M4
M4 = Poor automated baseline construction.

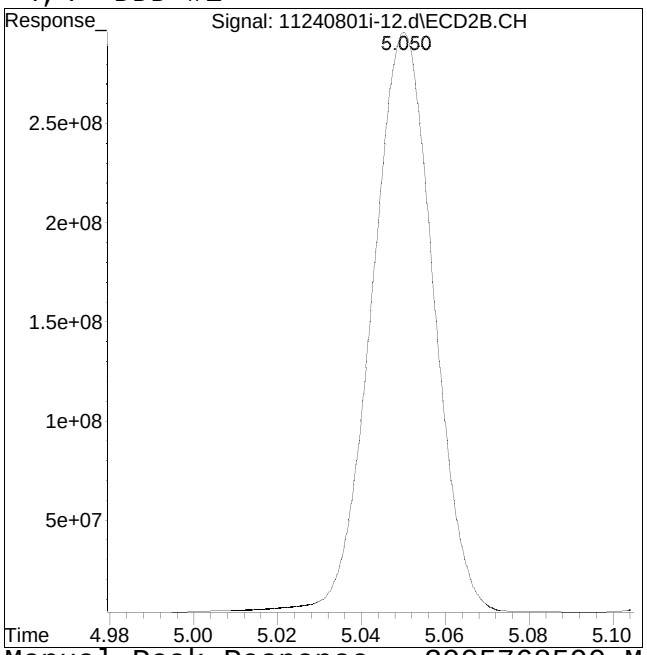
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #57: 4,4'-DDD #2



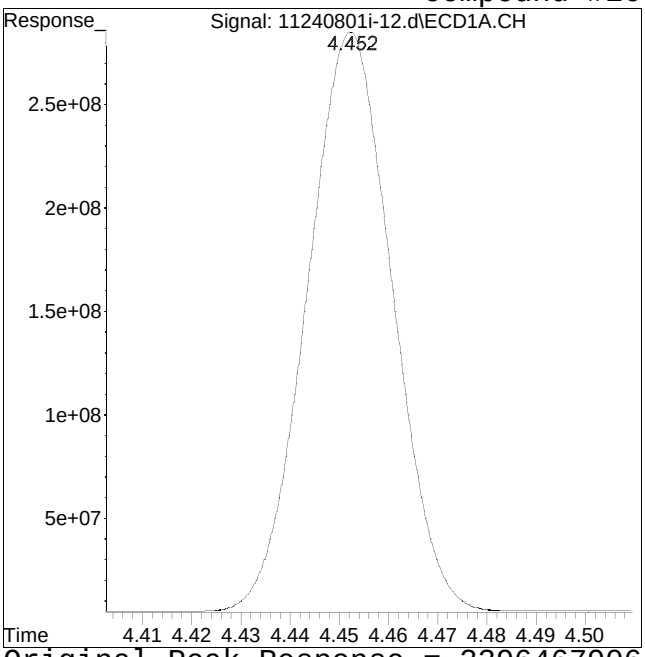


Original Peak Response = 3016998800 Manual Peak Response = 3005768590 M4
M4 = Poor automated baseline construction.

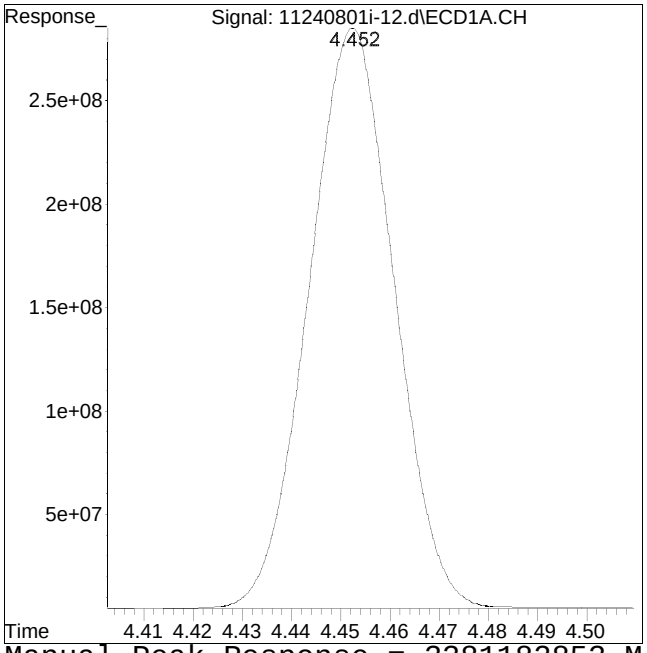
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #20: Endosulfan II



Original Peak Response = 3396467906



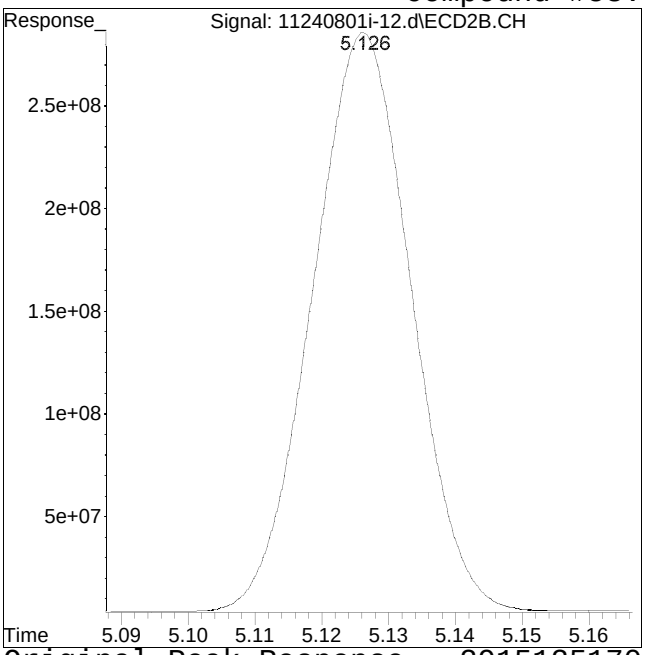
Manual Peak Response = 3381182853 M4

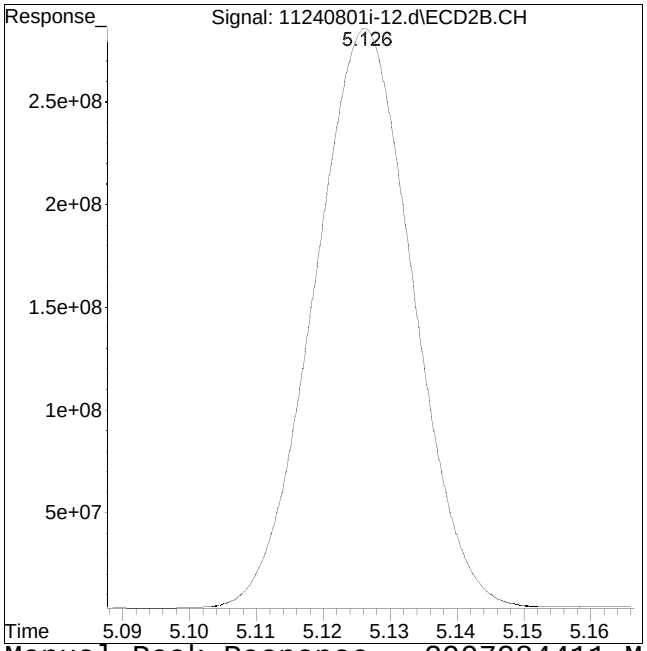
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #58: Endosulfan II #2





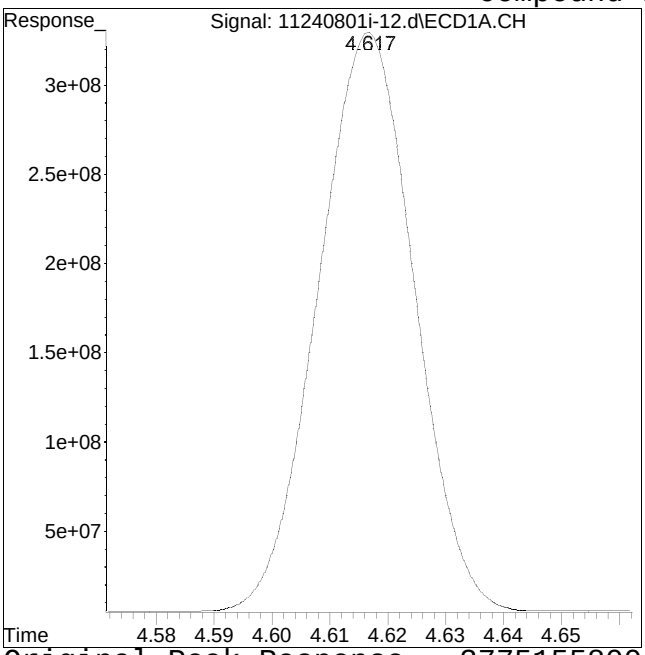
Original Peak Response = 2915125170 Manual Peak Response = 2907284411 M4
M4 = Poor automated baseline construction.

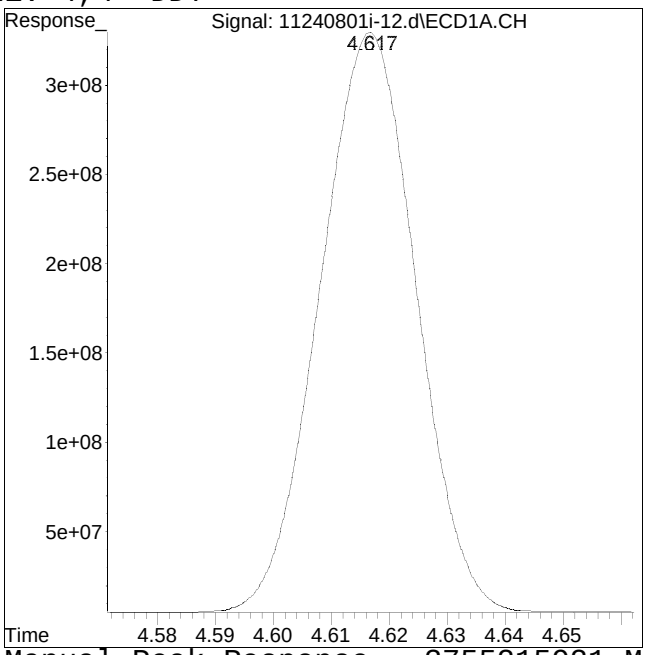
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #21: 4,4'-DDT



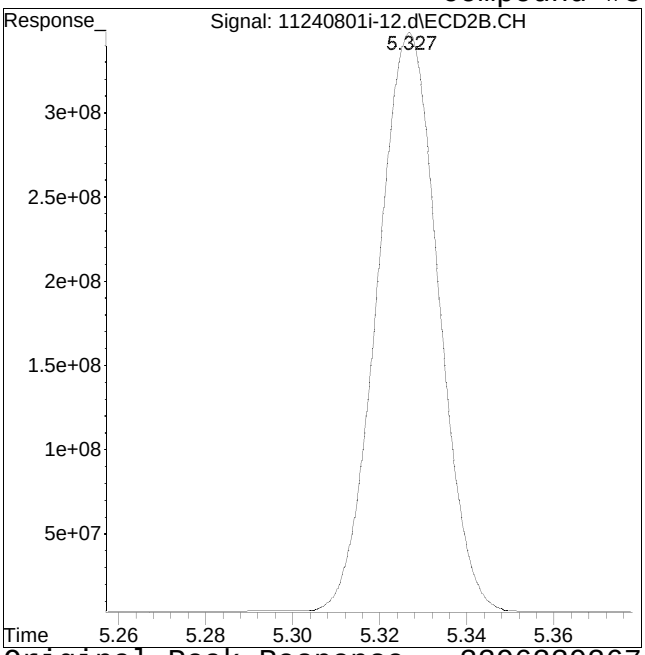


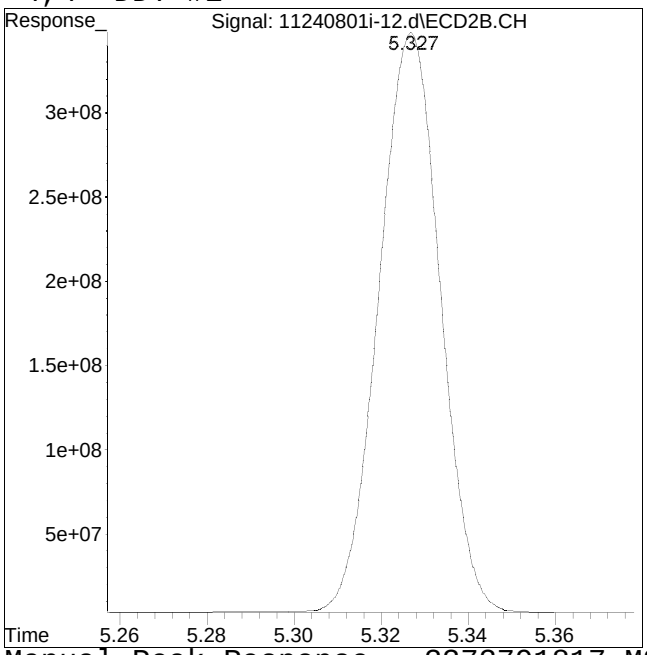
Original Peak Response = 3775155800 Manual Peak Response = 3755215921 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #59: 4,4'-DDT #2





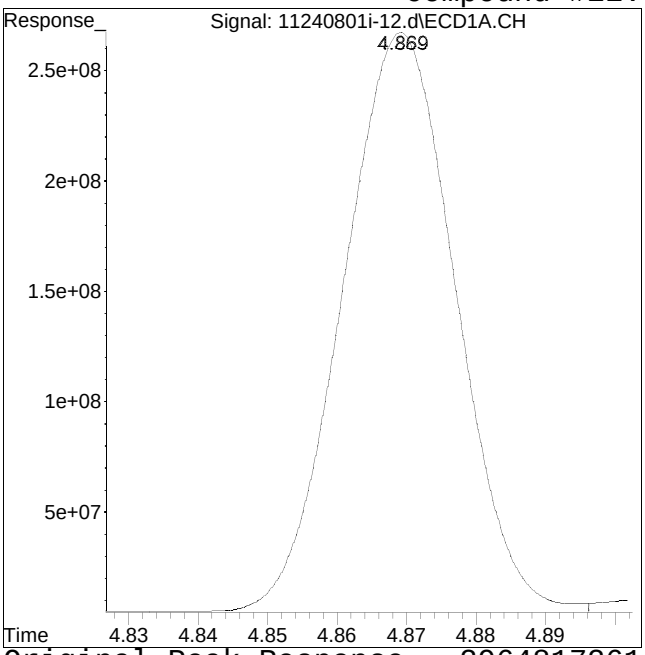
Original Peak Response = 3396339267 Manual Peak Response = 3373791817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

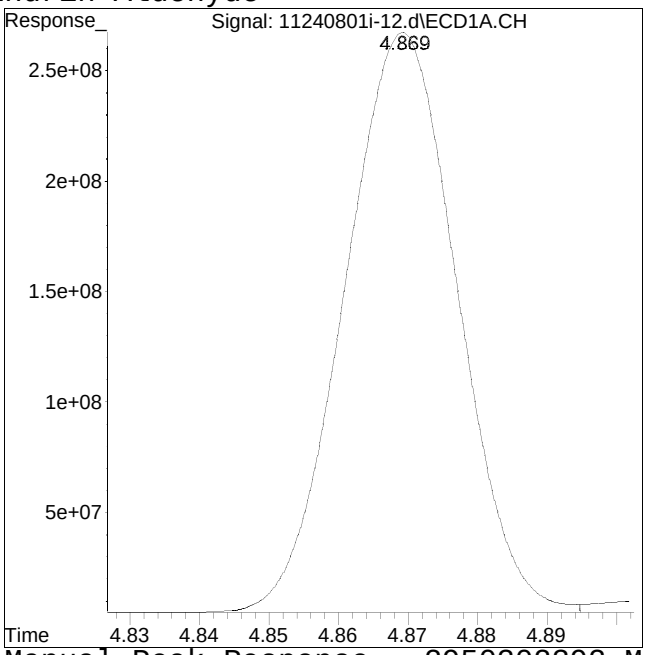
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #22: Endrin Aldehyde





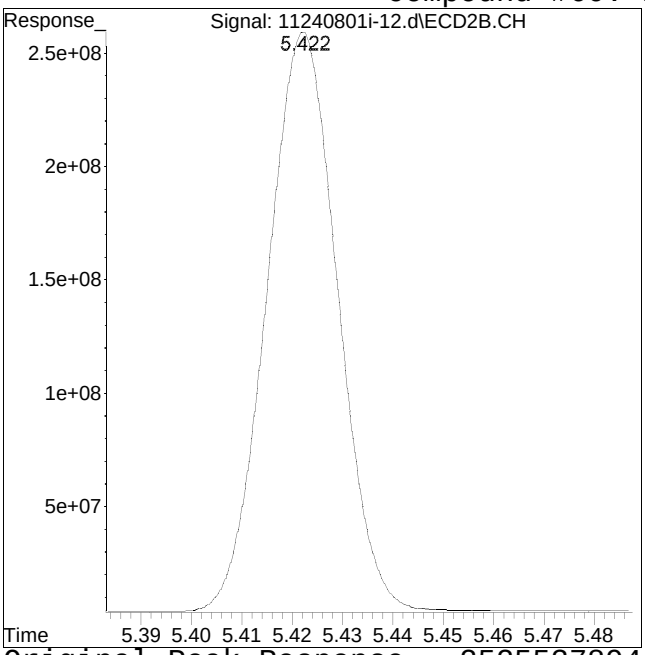
Original Peak Response = 2964817261 Manual Peak Response = 2950302392 M4
M4 = Poor automated baseline construction.

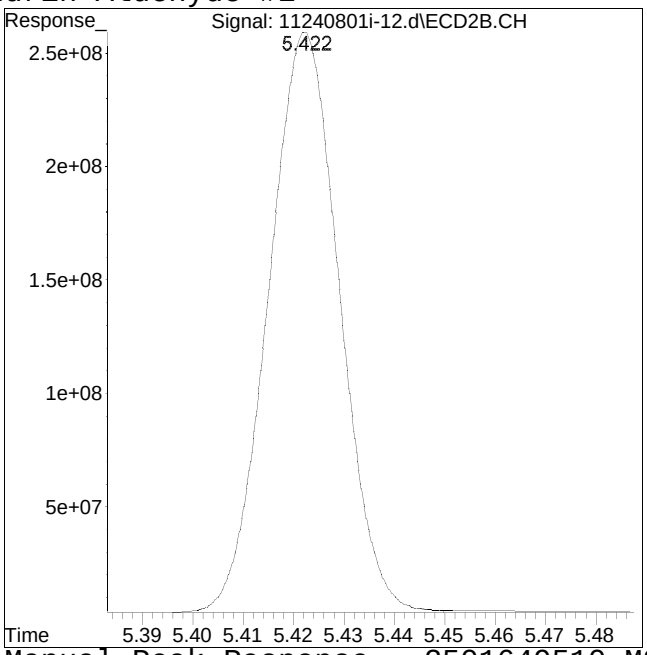
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 2525537894 Manual Peak Response = 2501649510 M3

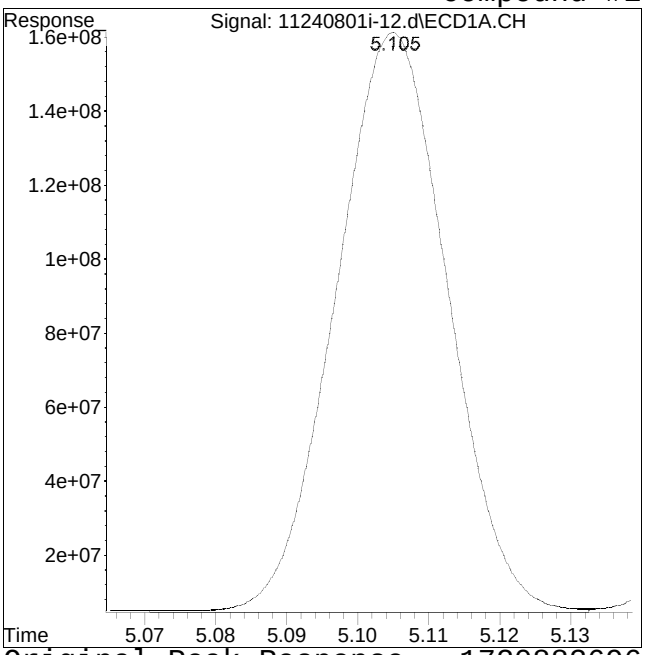
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

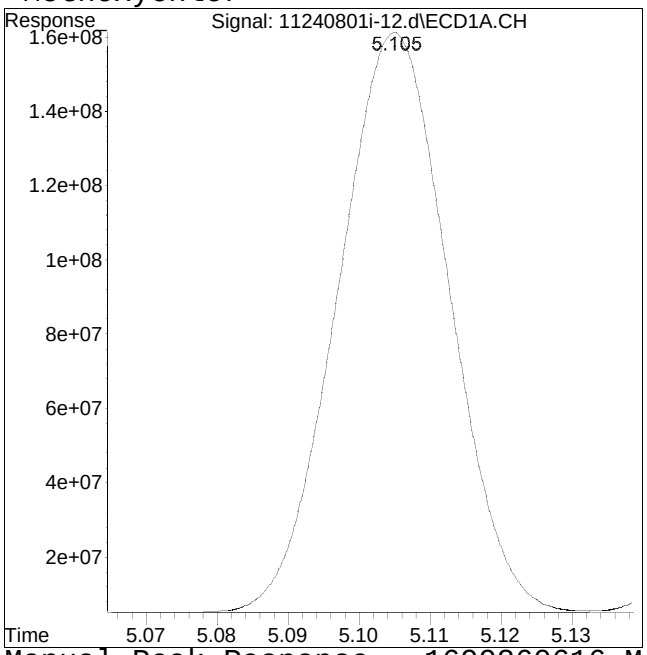
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #23: Methoxychlor





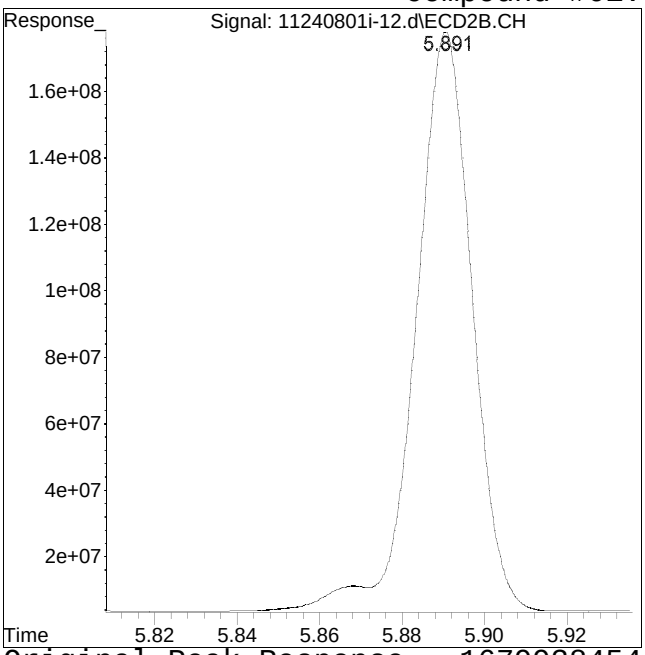
Original Peak Response = 1720883696 Manual Peak Response = 1699260616 M4
M4 = Poor automated baseline construction.

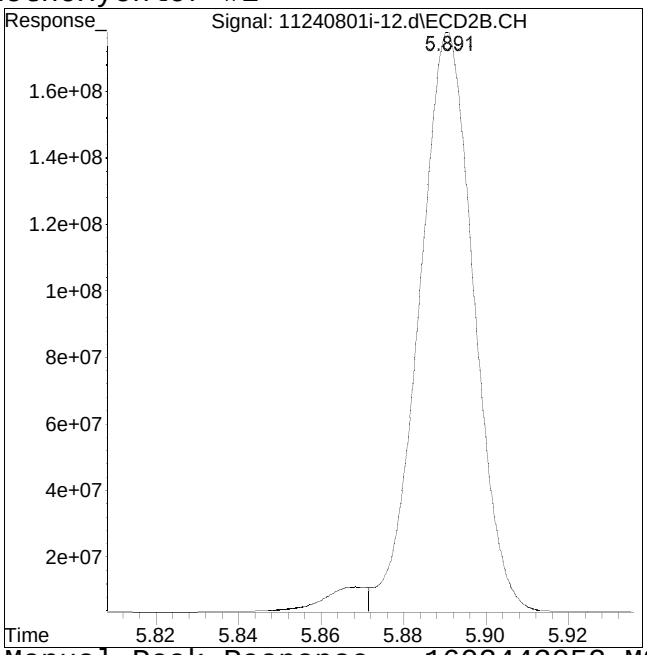
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #61: Methoxychlor #2



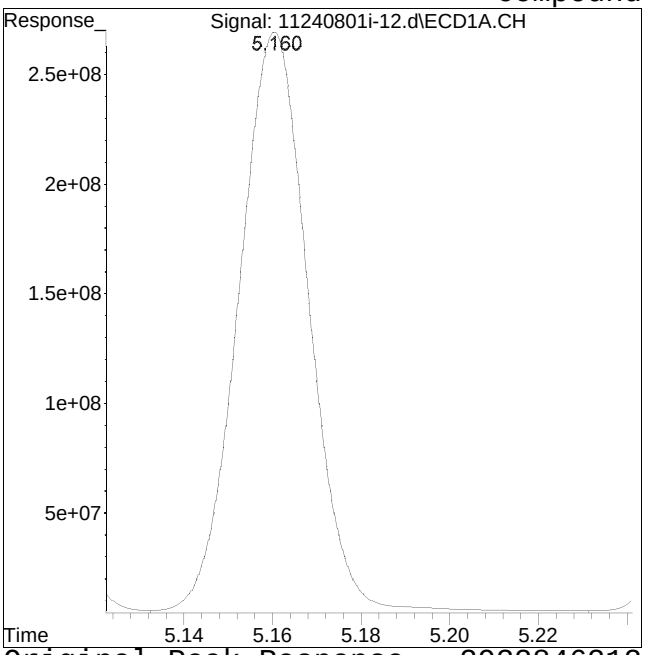


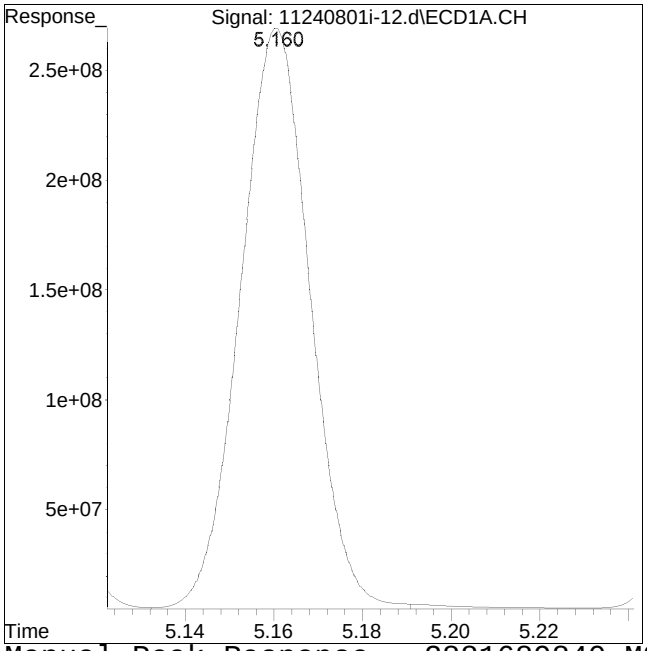
Original Peak Response = 1679938454 Manual Peak Response = 1603443052 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #24: Mirex





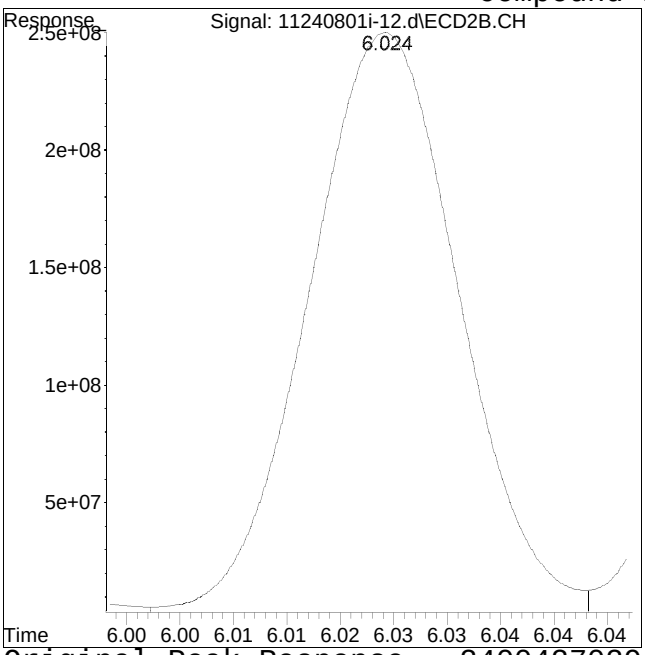
Original Peak Response = 2932846212 Manual Peak Response = 2881689840 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

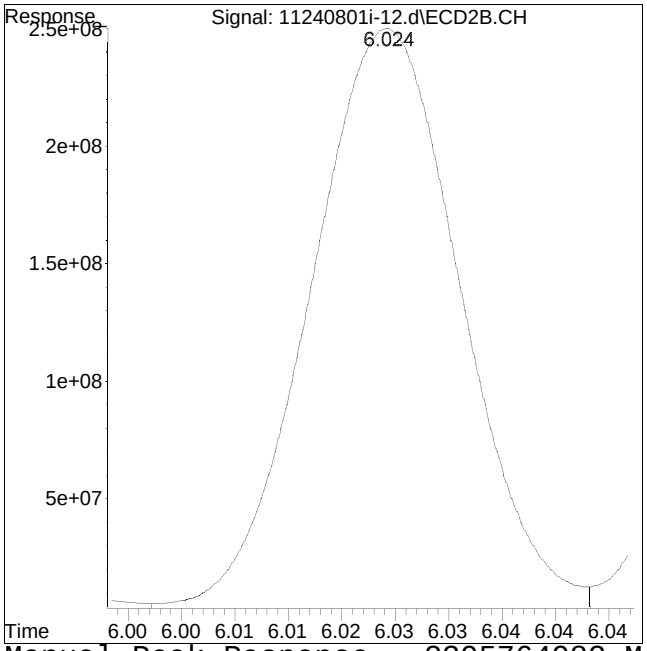
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #62: Mirex #2



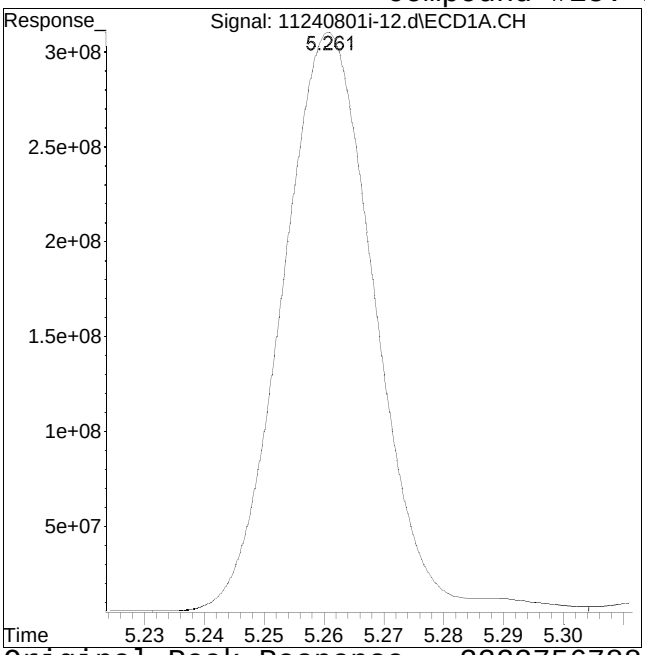


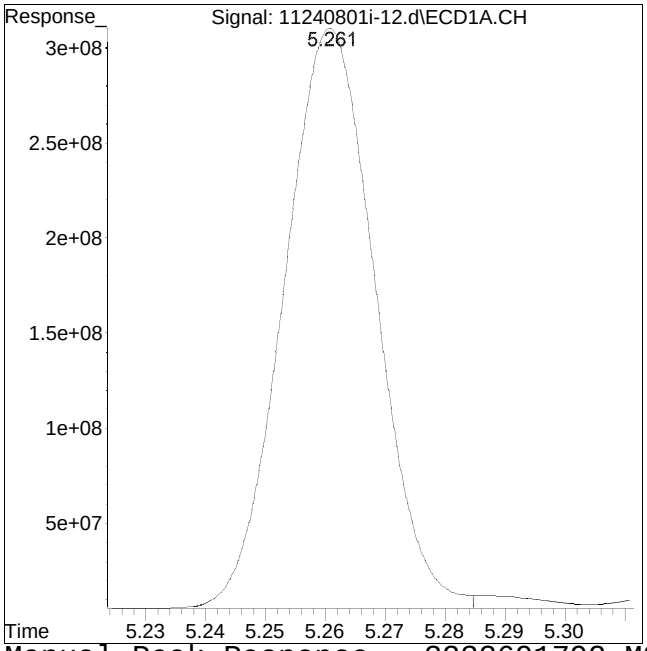
Original Peak Response = 2400427029 Manual Peak Response = 2395764983 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #25: Endosulfan Sulfate



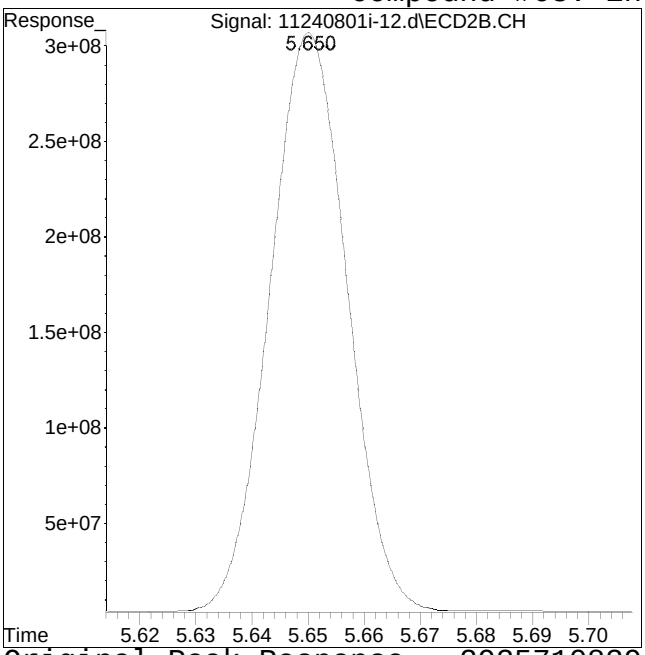


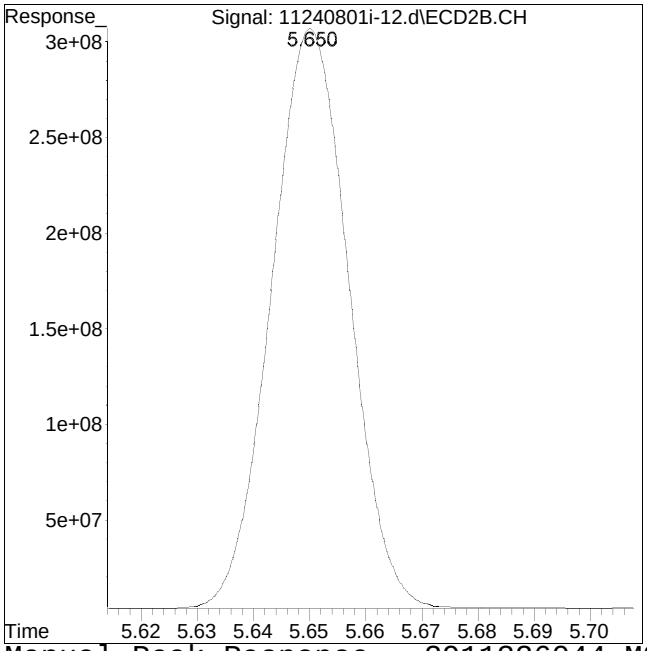
Original Peak Response = 3323756788 Manual Peak Response = 3233691792 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #63: Endosulfan Sulfate #2



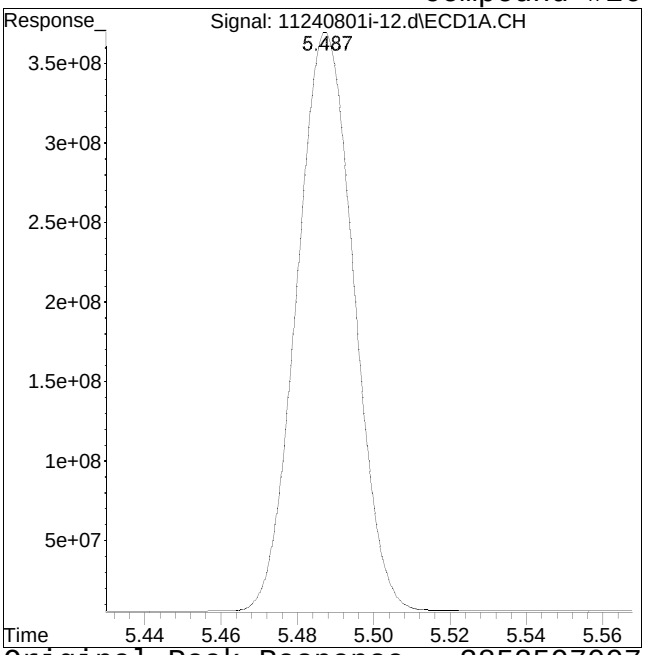


Original Peak Response = 2935710839 Manual Peak Response = 2911336044 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

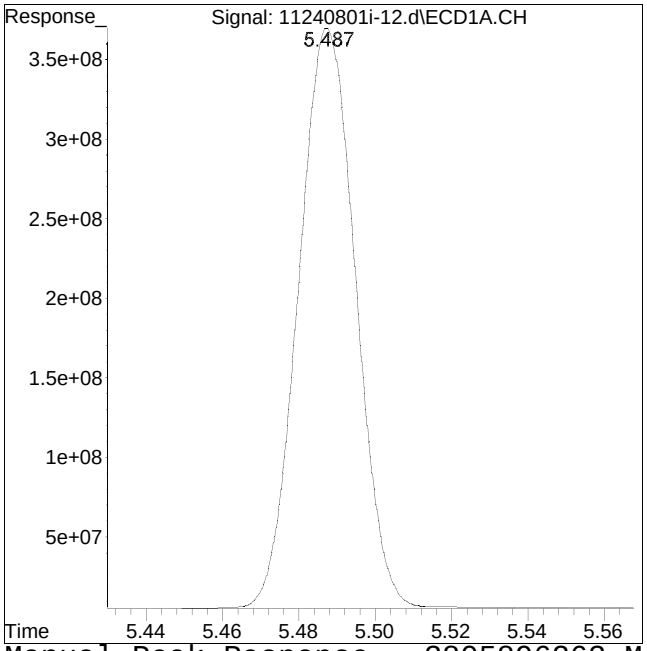
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #26: Endrin Ketone



Original Peak Response = 3853597007



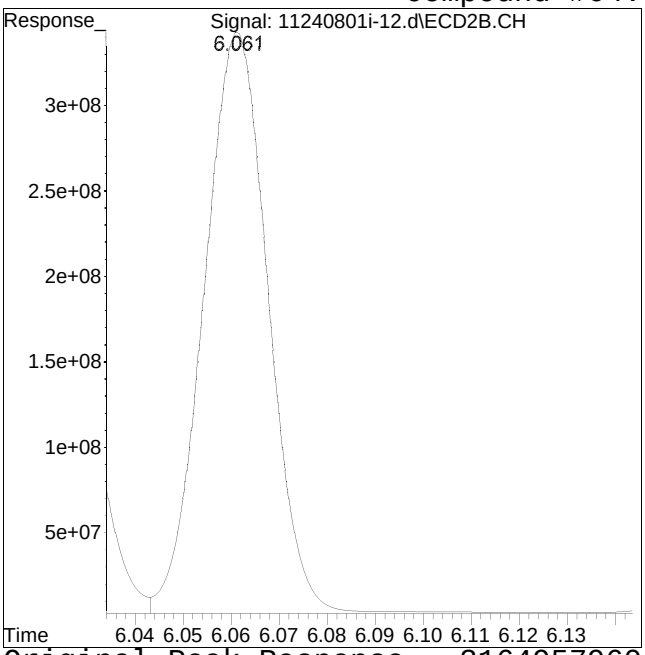
Manual Peak Response = 3805896263 M4

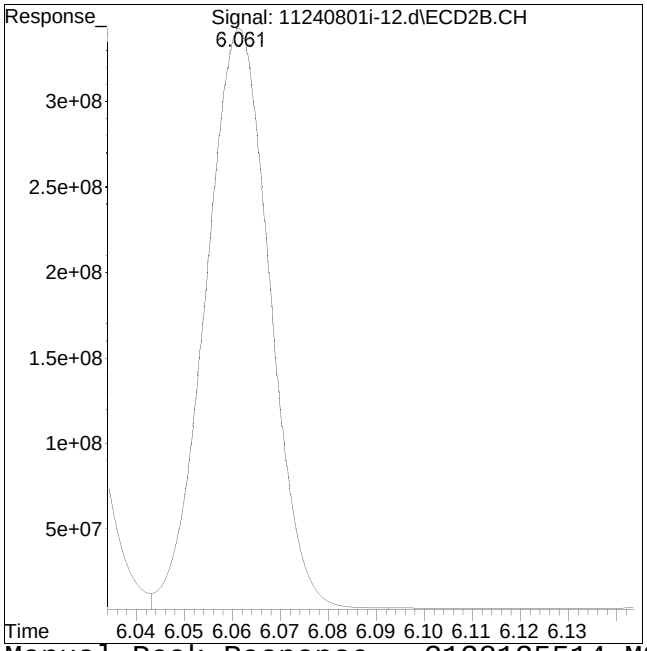
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #64: Endrin Ketone #2





Original Peak Response = 3164957960 Manual Peak Response = 3138135514 M3

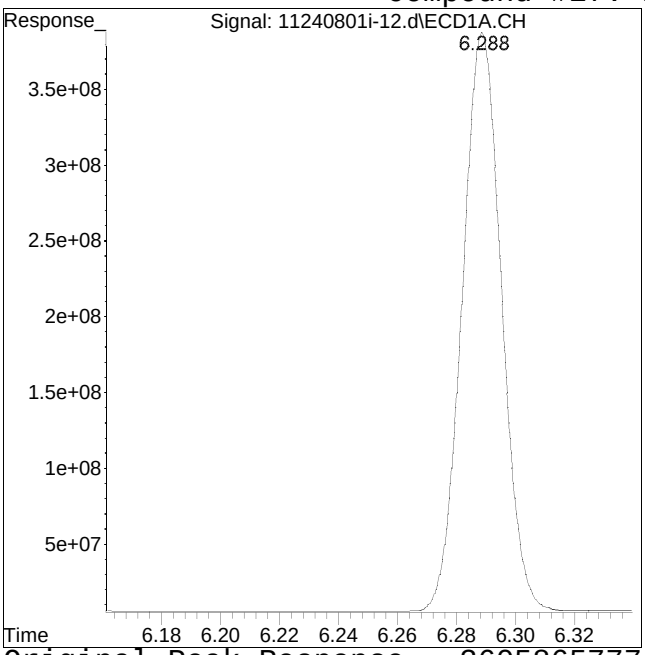
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

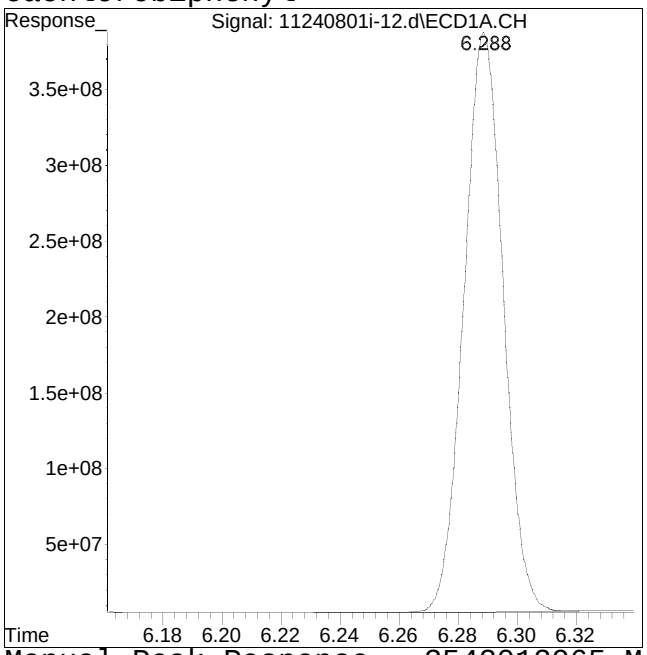
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #27: Decachlorobiphenyl



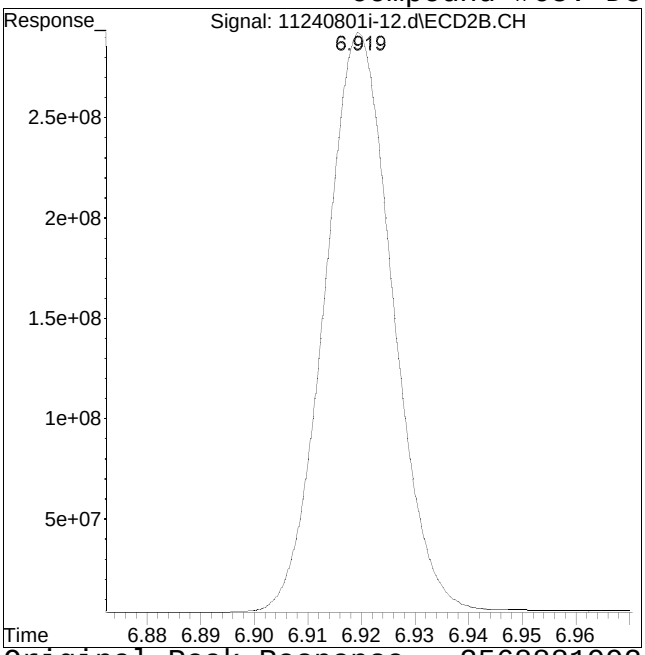


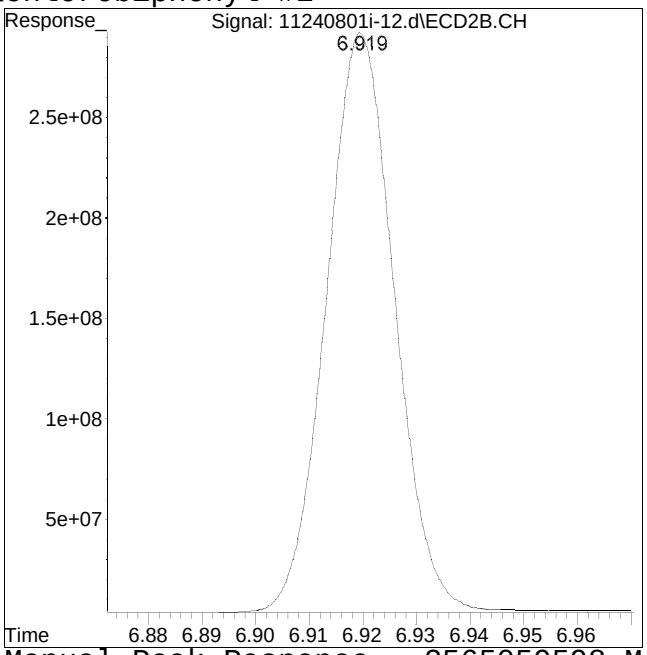
Original Peak Response = 3605865777 Manual Peak Response = 3542012965 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 2568881992 Manual Peak Response = 2565059598 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.028	1.1	93	0.00
3	t	Hexachlorobenzene		1.406	1.322	6.0	93	0.00
4	t	alpha-BHC		1.461	1.501	-2.7	90	0.00
5	t	gamma-BHC (lindane)		1.395	1.357	2.7	88	0.00
6	t	beta-BHC		0.628	0.580	7.6	90	0.00
7	t	delta-BHC		1.374	1.334	2.9	85	0.00
8	t	Heptachlor		1.321	1.281	3.0	89	0.00
9	t	Aldrin		1.233	1.226	0.6	90	0.00
10	t	Alachlor		0.230	0.221	3.9	92	0.00
11	t	Chlorpyrifos		0.590	0.520	11.9	91	0.00
12	t	Heptachlor Epoxide		1.185	1.133	4.4	89	0.00
13	t	gamma-Chlordane (trans)		1.077	1.158	-7.5	101	0.00
14	t	alpha-Chlordane (cis)		1.216	1.146	5.8	88	0.00
15	t	4,4'-DDE		1.192	1.168	2.0	90	0.00
16	t	Endosulfan I		1.116	1.064	4.7	89	0.00
17	t	Dieldrin		1.135	1.204	-6.1	97	0.00
18	t	Endrin		1.153	1.120	2.9	88	0.00
19	t	4,4'-DDD		0.927	0.970	-4.6	96	0.00
20	t	Endosulfan II		1.052	1.055	-0.3	93	0.00
21	t	4,4'-DDT		1.058	1.044	1.3	91	0.00
22	t	Endrin Aldehyde		0.886	0.798	9.9	86	0.00
23	t	Methoxychlor		0.592	0.578	2.4	96	0.00
24	t	Mirex		0.938	0.888	5.3	95	0.00
25	t	Endosulfan Sulfate		1.010	0.981	2.9	93	0.00
26	t	Endrin Ketone		1.183	1.257	-6.3	99	0.00
27	s	Decachlorobiphenyl		1.163	1.085	6.7	99	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	1.042	6.5	91	0.00
3	t	Hexachlorobenzene		1.239	1.113	10.2	92	0.00
4	t	alpha-BHC		1.620	1.576	2.7	88	0.00
5	t	gamma-BHC (lindane)		1.539	1.407	8.6	87	0.00
6	t	beta-BHC	*	50.000	47.735	4.5	89	0.00
7	t	delta-BHC		1.523	1.383	9.2	85	0.00
8	t	Heptachlor		1.598	1.441	9.8	88	0.00
9	t	Aldrin		1.435	1.344	6.3	89	0.00
10	t	Alachlor	*	50.000	52.133	-4.3	92	0.00
11	t	Chlorpyrifos	*	50.000	49.655	0.7	89	0.00
12	t	Heptachlor Epoxide		1.425	1.243	12.8	87	0.00
13	t	gamma-Chlordane (trans)		1.312	1.296	1.2	100	0.00
14	t	alpha-Chlordane (cis)		1.446	1.265	12.5	88	0.00
15	t	4,4'-DDE		1.343	1.252	6.8	88	0.00
16	t	Endosulfan I		1.332	1.167	12.4	88	0.00
17	t	Dieldrin		1.327	1.319	0.6	96	0.00
18	t	Endrin		1.347	1.231	8.6	88	0.00
19	t	4,4'-DDD		1.084	1.070	1.3	94	0.00
20	t	Endosulfan II		1.214	1.119	7.8	92	0.00
21	t	4,4'-DDT		1.250	1.163	7.0	90	0.00
22	t	Endrin Aldehyde	*	50.000	45.377	9.2	85	0.00
23	t	Methoxychlor		0.704	0.626	11.1	94	0.00
24	t	Mirex	*	50.000	50.644	-1.3	94	0.00
25	t	Endosulfan Sulfate		1.199	1.078	10.1	92	0.00
26	t	Endrin Ketone		1.261	1.242	1.5	98	0.00
27	s	Decachlorobiphenyl		1.060	0.941	11.2	95	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1	*	0.037	0.000	100.0#	0#	-2.45#
30	l1	chlordane-3	*	0.047	0.000	100.0#	0#	-2.87#
31	l1	chlordane-4	*	0.159	0.000	100.0#	0#	-3.42#
32	l1	chlordane-5	*	0.245	0.000	100.0#	0#	-3.55#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-2	*	0.050	0.000	100.0#	0#	-4.44#
35	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-4.57#
36	l2	toxaphene-4	*	0.042	0.000	100.0#	0#	-4.79#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.17#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.39#
29	l1	chlordane-1	*	0.043	0.000	100.0#	0#	-2.82#
30	l1	chlordane-3	*	0.052	0.000	100.0#	0#	-3.42#
31	l1	chlordane-4	*	0.173	0.000	100.0#	0#	-4.10#
32	l1	chlordane-5	*	0.134	0.000	100.0#	0#	-4.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.39#
34	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-3	*	0.037	0.000	100.0#	0#	-5.11#
36	l2	toxaphene-4	*	0.044	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-5	*	0.042	0.000	100.0#	0#	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	222.3E6	177.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	456.9E6	370.0E6	49.453M3	46.772M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.91%	93.54%
27) s	Decachlorobi	6.288	6.918	482.5E6	334.3E6	46.657M3	44.401M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		93.31%	88.80%
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	587.8E6	395.1E6	47.014M3	44.899M3
4) t	alpha-BHC	1.963	2.271	667.2E6	559.8E6	51.377M4	48.662M4
5) t	gamma-BHC (l	2.165	2.557	603.3E6	499.8E6	48.621M4	45.722M4
6) t	beta-BHC	2.221	2.623	257.8E6	214.1E6	46.189M4	47.735M3
7) t	delta-BHC	2.349	2.890	593.1E6	491.2E6	48.542M4	45.411
8) t	Heptachlor	2.513	2.953	569.5E6	511.7E6	48.485M4	45.092
9) t	Aldrin	2.756	3.272	545.1E6	477.4E6	49.714M3	46.842
10) t	Alachlor	2.876	3.153	98339329	67754072	48.033M4	52.133M4
11) t	Chlorpyrifos	2.968	3.506	231.0E6	247.0E6	44.053M3	49.655M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	503.7E6	441.6E6	47.784M3	43.617M3
13)	t	gamma-Chlord	3.425	4.105	514.8E6	460.2E6	53.753M4	49.404M4
14)	t	alpha-Chlord	3.559	4.274	509.4E6	449.4E6	47.103M4	43.758
15)	t	4,4'-DDE	3.656	4.473	519.3E6	444.5E6	49.014M4	46.608M4
16)	t	Endosulfan I	3.695	4.336	473.1E6	414.6E6	47.669M3	43.821M4
17)	t	Dieldrin	3.954	4.627	535.4E6	468.3E6	53.047M4	49.677M3
18)	t	Endrin	4.210	4.926	497.7E6	437.0E6	48.558	45.687
19)	t	4,4'-DDD	4.322	5.049	431.2E6	379.8E6	52.297	49.344M4
20)	t	Endosulfan I	4.451	5.125	468.9E6	397.6E6	50.128	46.124M4
21)	t	4,4'-DDT	4.616	5.326	464.0E6	412.9E6	49.301	46.497M4
22)	t	Endrin Aldeh	4.868	5.421	355.0E6	301.1E6	45.037M4	45.377M3
23)	t	Methoxychlor	5.104	5.890	256.9E6	222.3E6	48.807M4	44.431M3
24)	t	Mirex	5.160	6.023	394.7E6	325.6E6	47.337M3	50.644M4
25)	t	Endosulfan S	5.260	5.649	436.2E6	382.7E6	48.586M3	44.940M4
26)	t	Endrin Keton	5.486	6.060	558.9E6	441.2E6	53.123M4	49.265M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

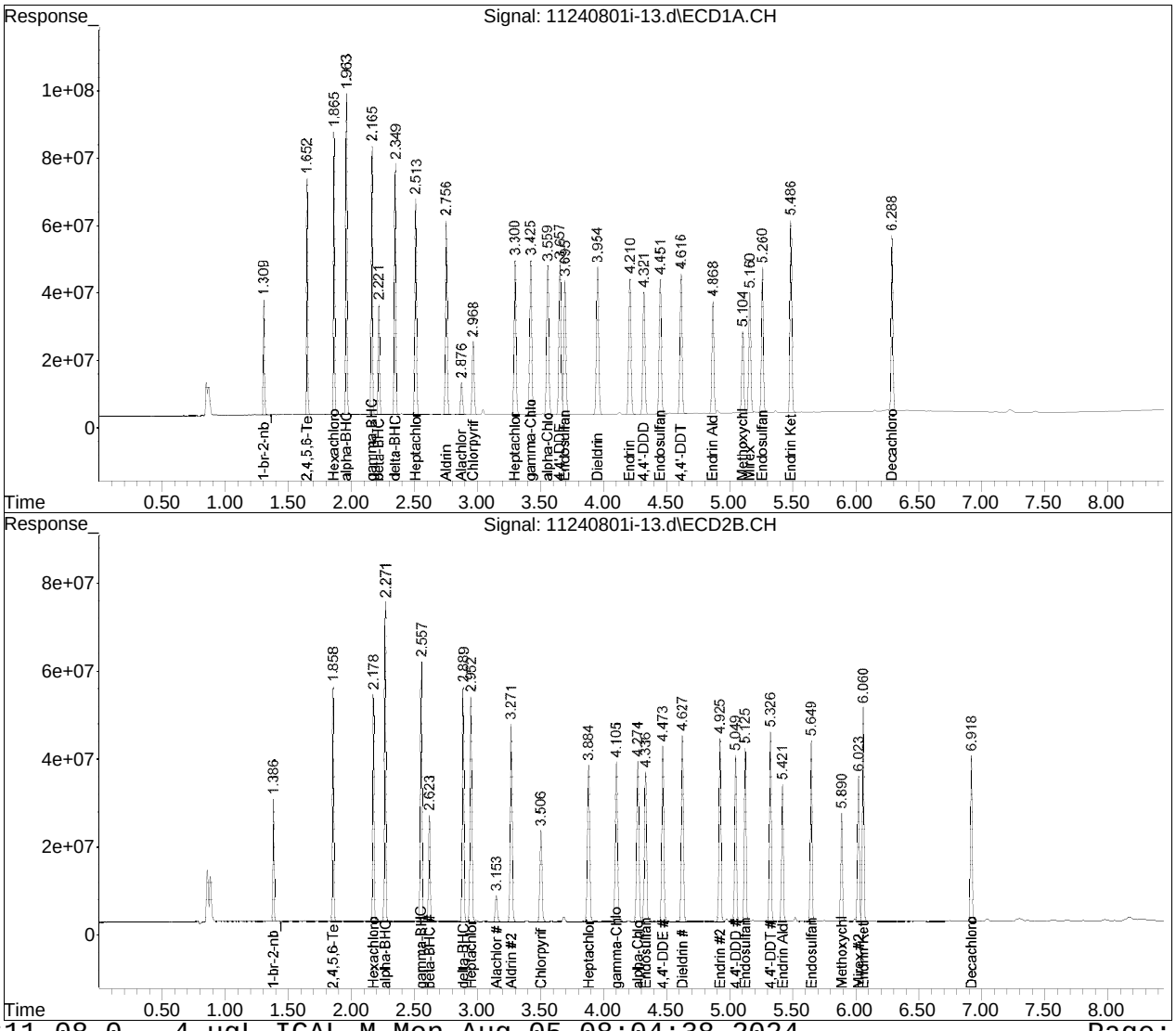
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

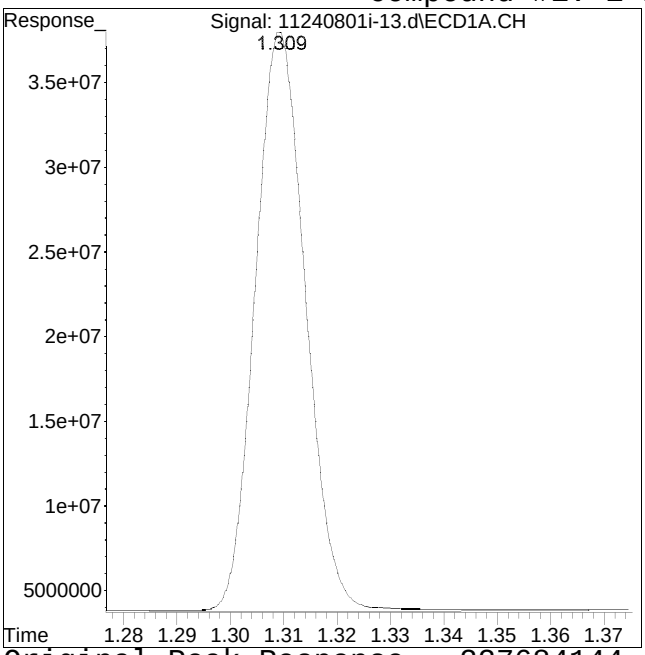


Manual Integration Report

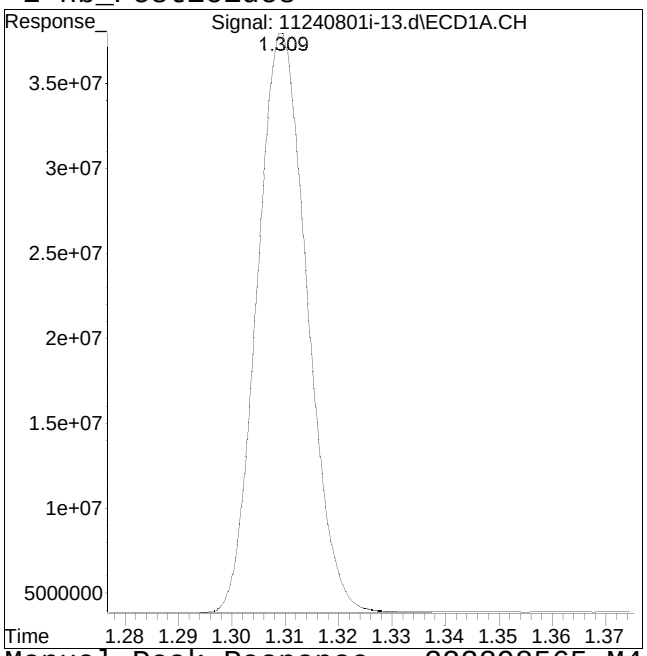
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 227684144



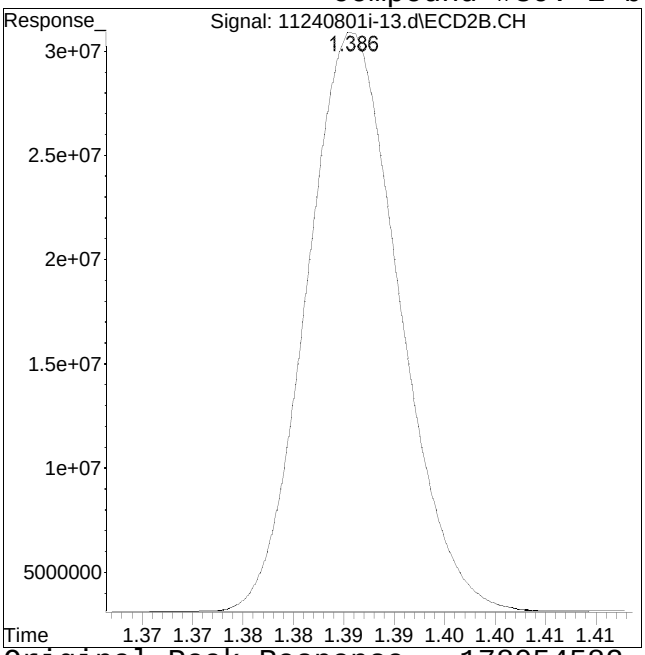
Manual Peak Response = 222298565 M4

M4 = Poor automated baseline construction.

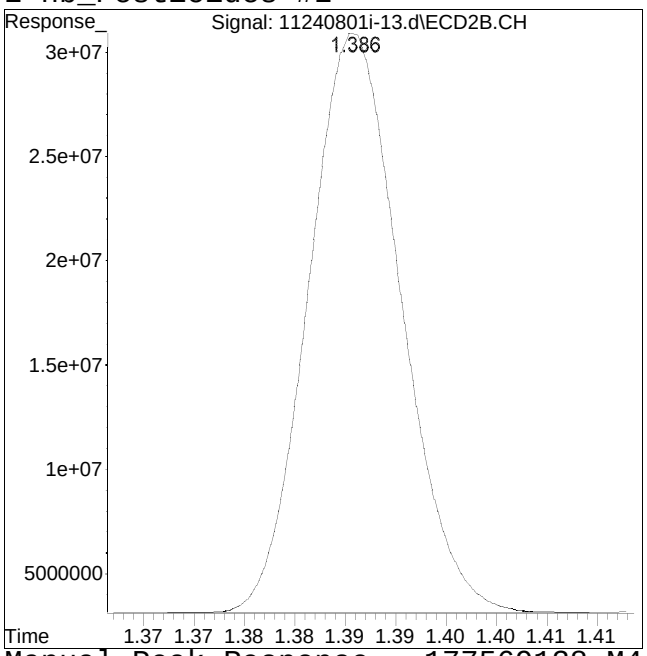
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 178054582



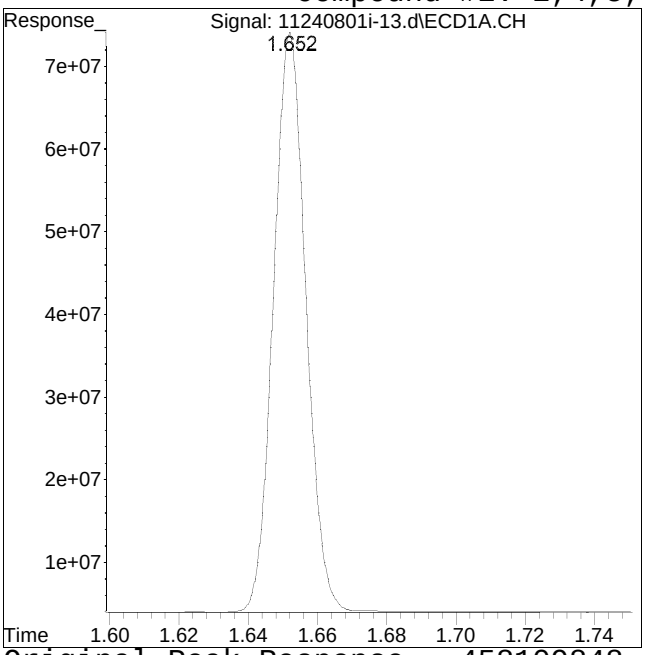
Manual Peak Response = 177569138 M4

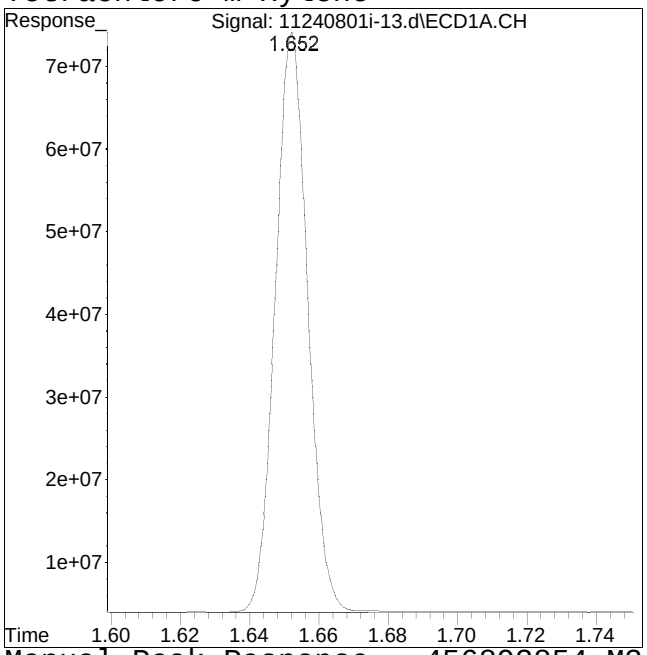
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





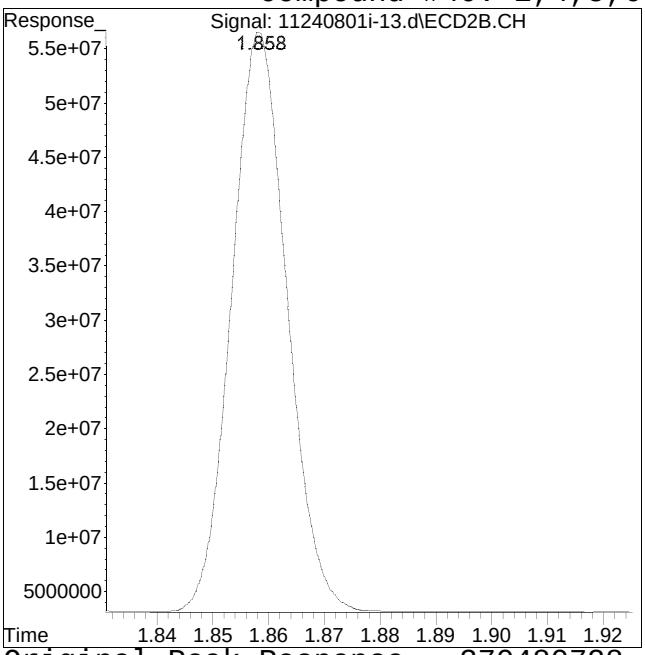
Original Peak Response = 458109848 Manual Peak Response = 456893854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

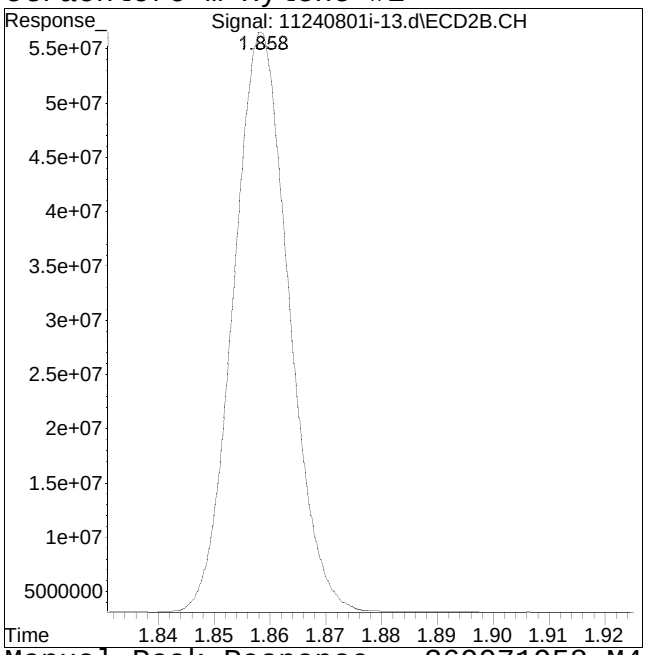
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 370480728



Manual Peak Response = 369971958 M4

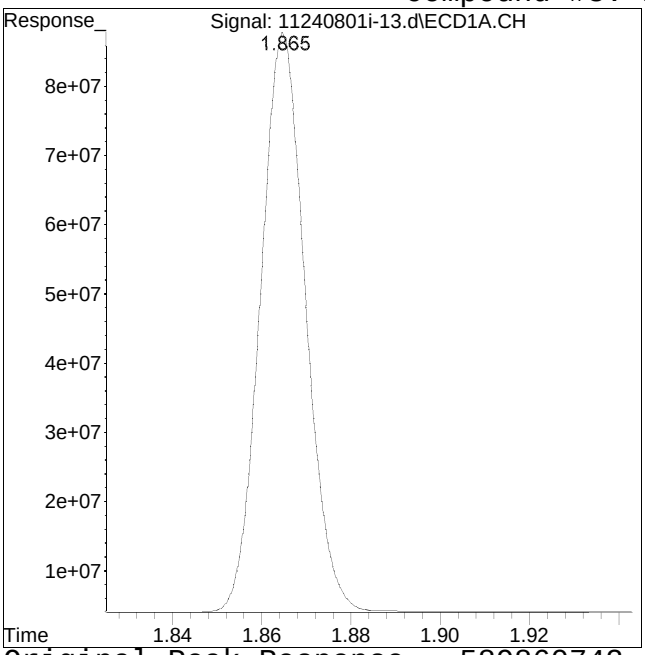
M4 = Poor automated baseline construction.

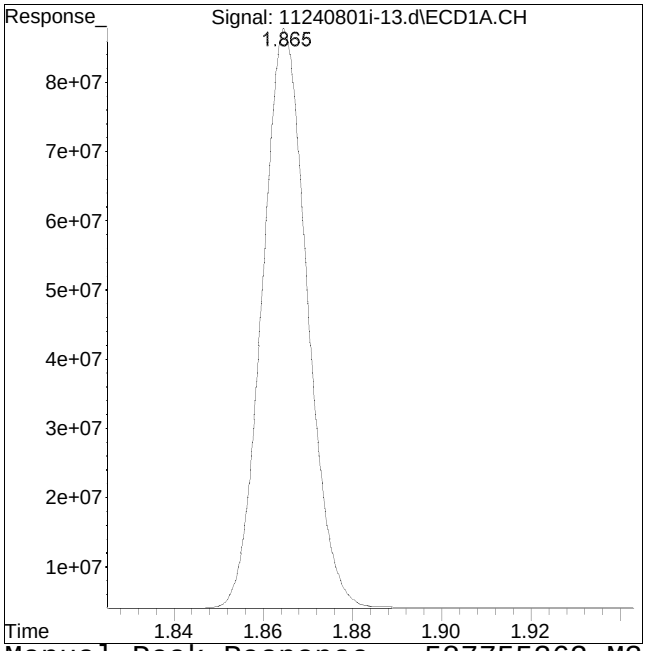
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #3: Hexachlorobenzene





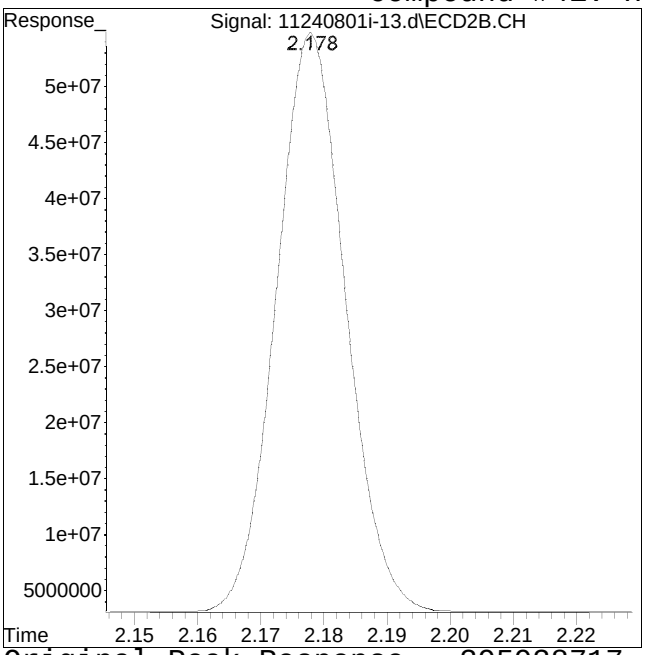
Original Peak Response = 589860742 Manual Peak Response = 587755363 M3

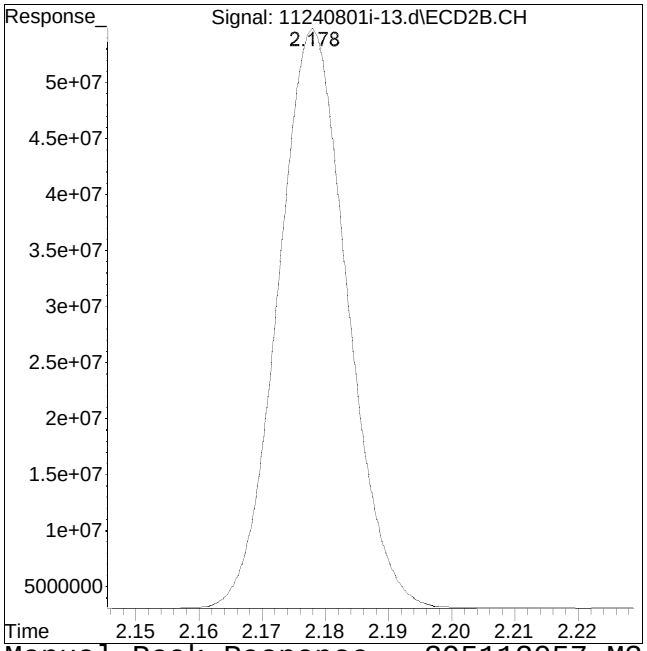
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #41: Hexachlorobenzene #2





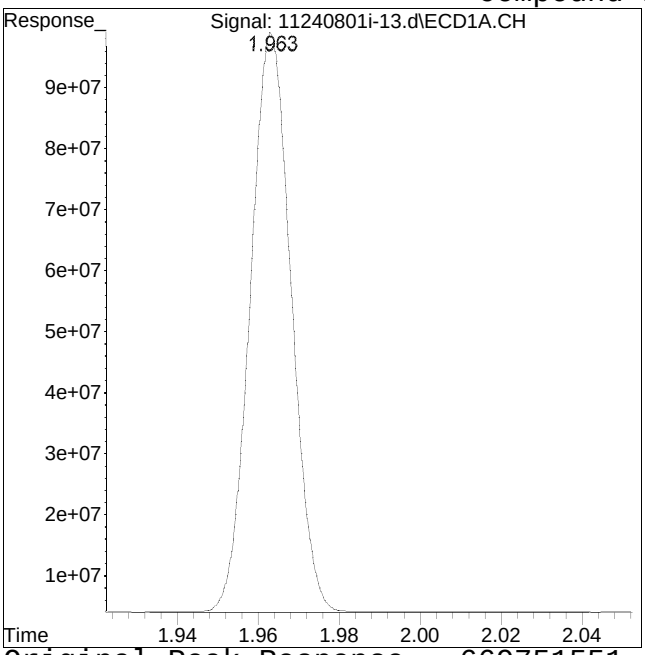
Original Peak Response = 395938717 Manual Peak Response = 395113057 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

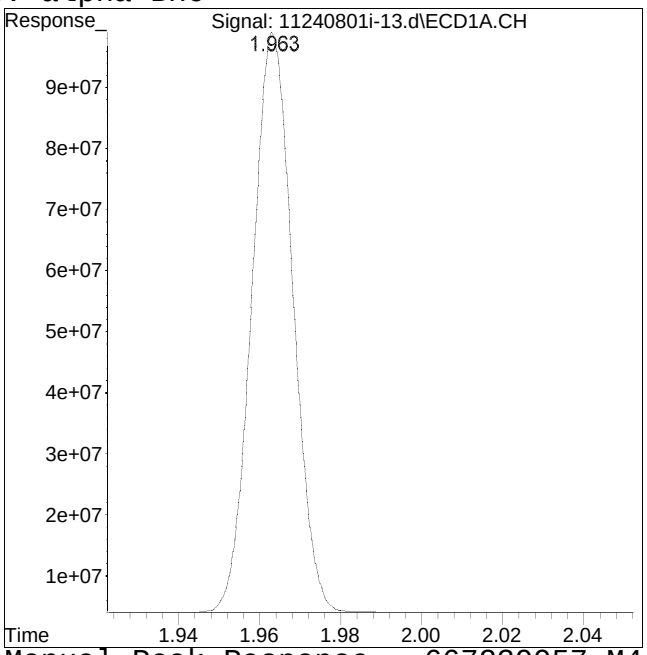
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #4: alpha-BHC



Original Peak Response = 669751551



Manual Peak Response = 667239957 M4

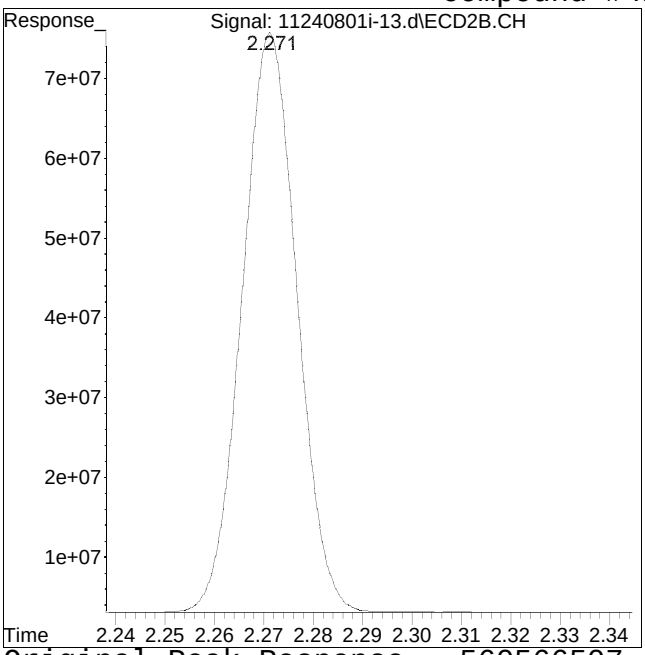
M4 = Poor automated baseline construction.

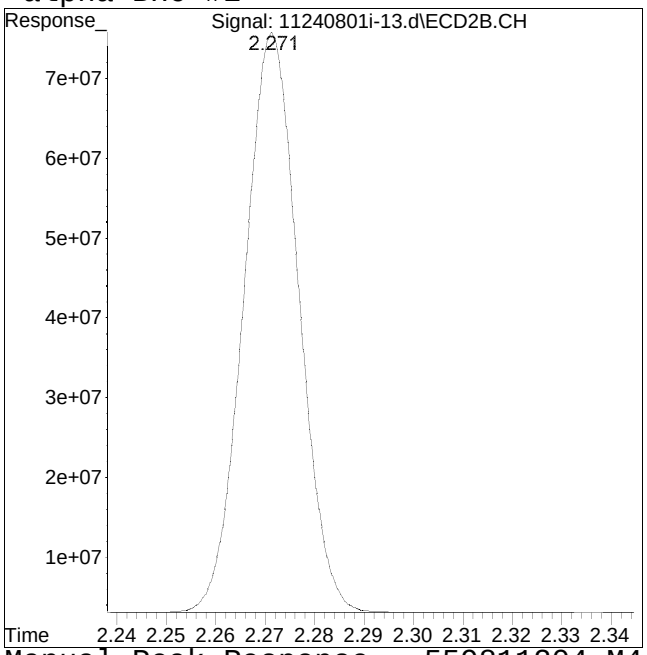
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #42: alpha-BHC #2



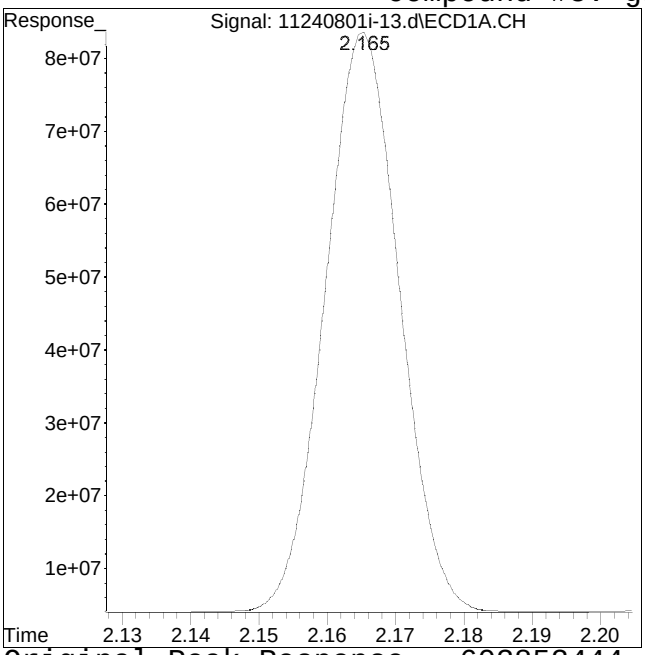


Original Peak Response = 560566507 Manual Peak Response = 559811204 M4
M4 = Poor automated baseline construction.

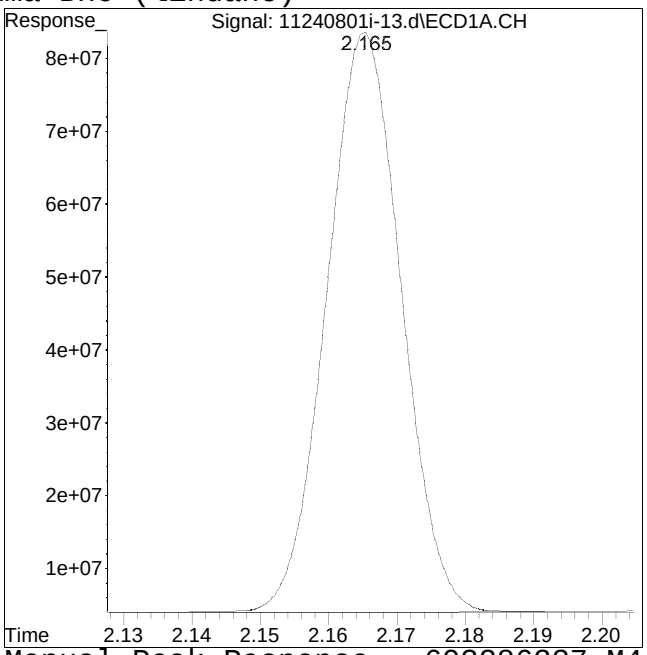
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 603852444



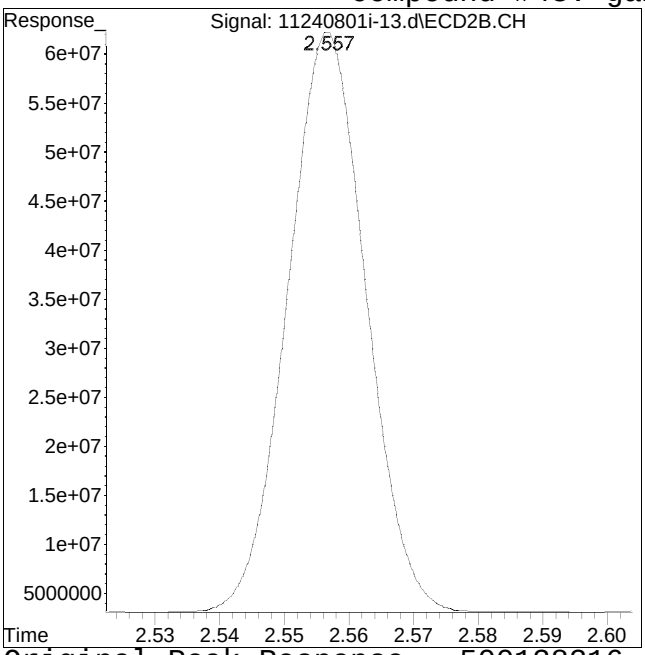
Manual Peak Response = 603286337 M4

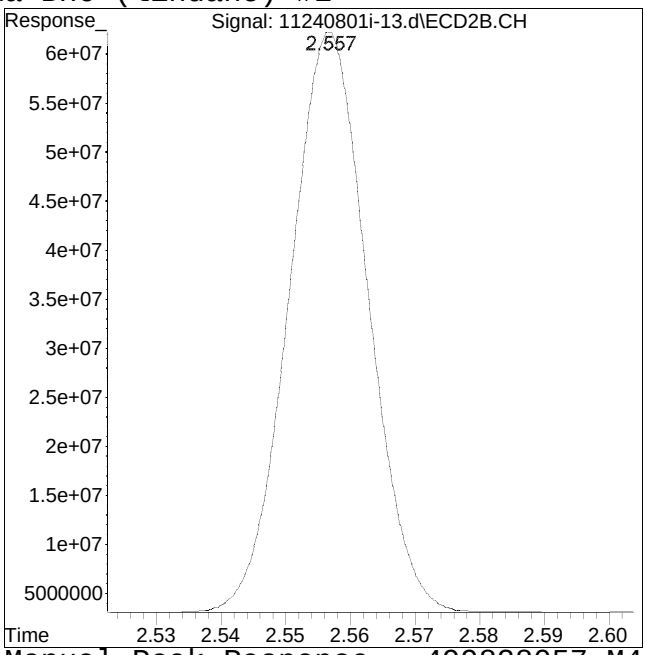
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #43: gamma-BHC (lindane) #2



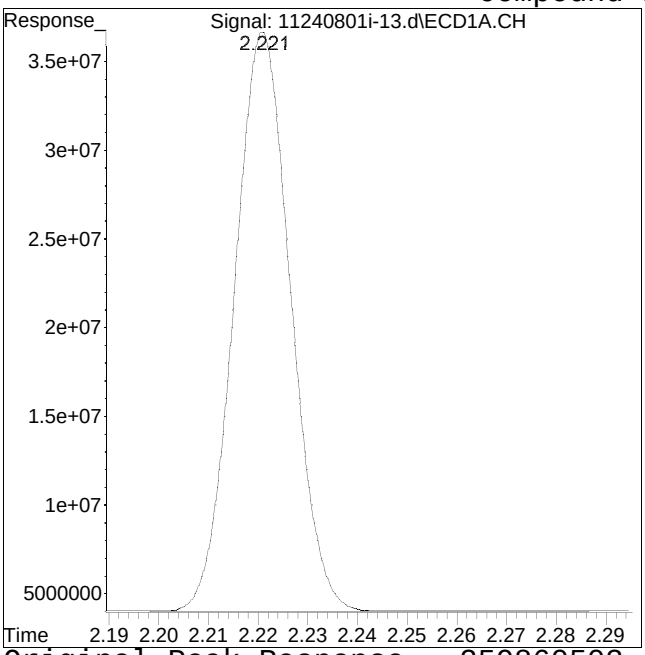


Original Peak Response = 500138316 Manual Peak Response = 499828057 M4
M4 = Poor automated baseline construction.

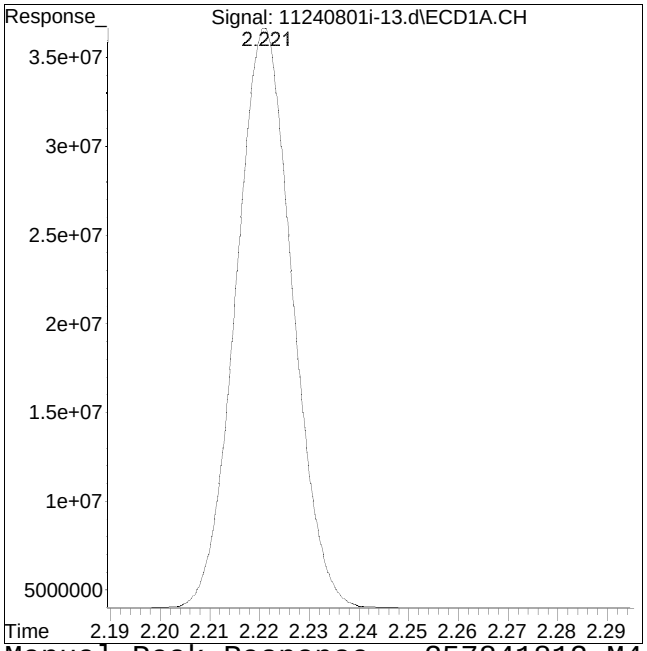
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #6: beta-BHC



Original Peak Response = 259860503



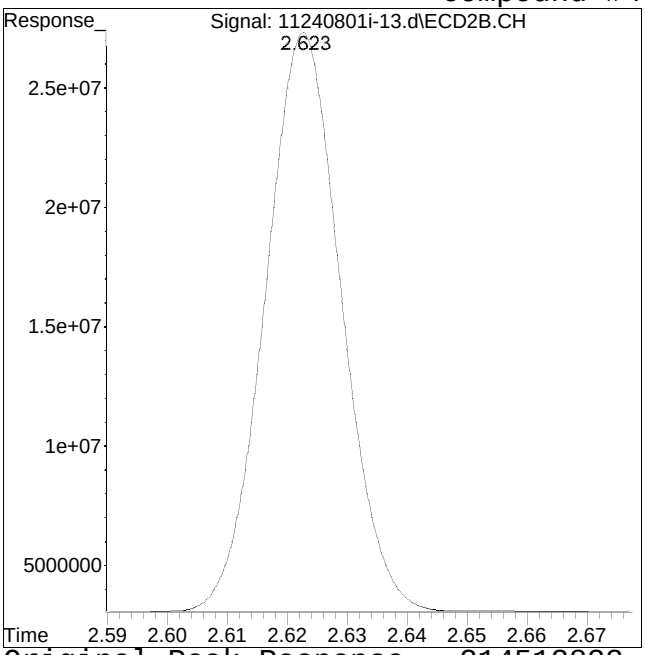
Manual Peak Response = 257841812 M4

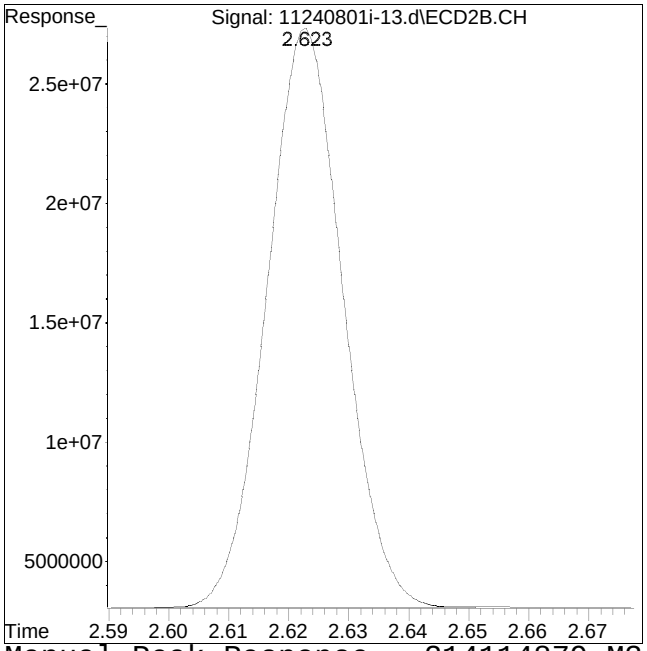
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #44: beta-BHC #2





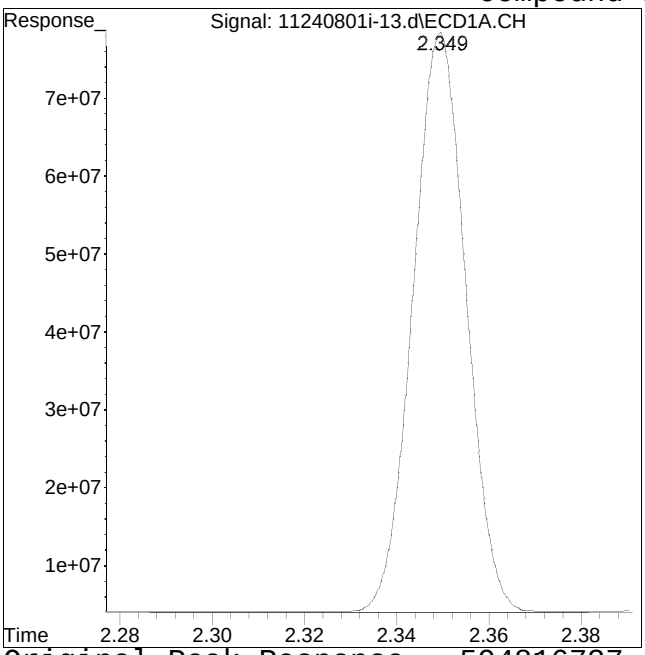
Original Peak Response = 214512823 Manual Peak Response = 214114879 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

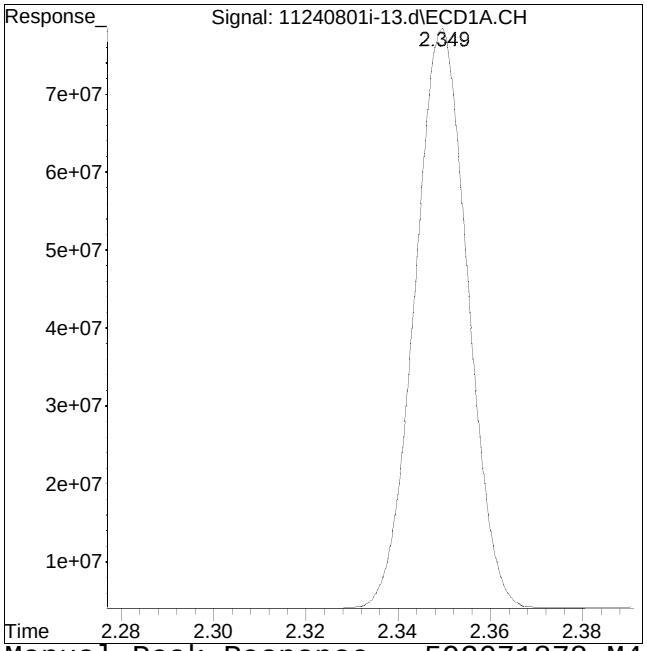
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #7: delta-BHC



Original Peak Response = 594816737



Manual Peak Response = 593071878 M4

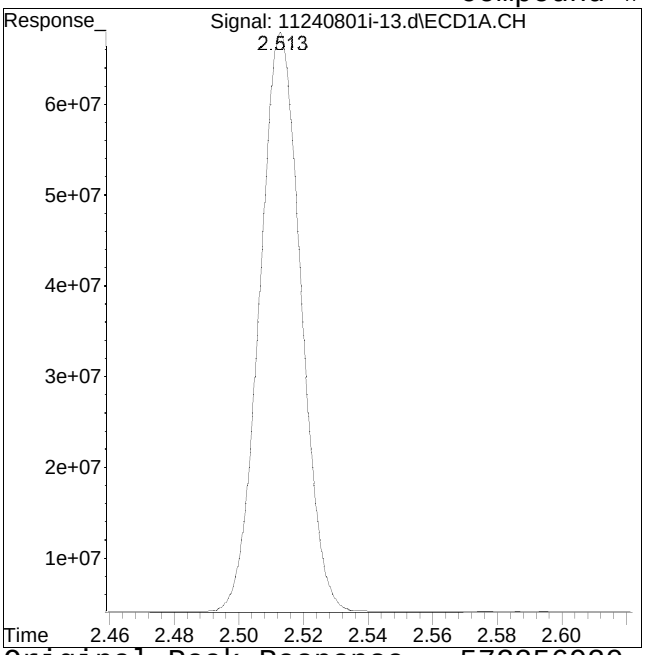
M4 = Poor automated baseline construction.

Manual Integration Report

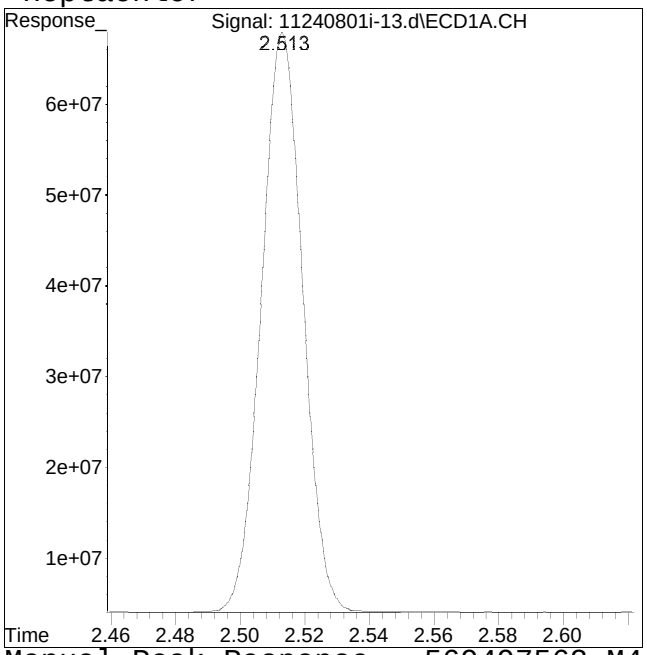
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #8: Heptachlor



Original Peak Response = 572256920



Manual Peak Response = 569497562 M4

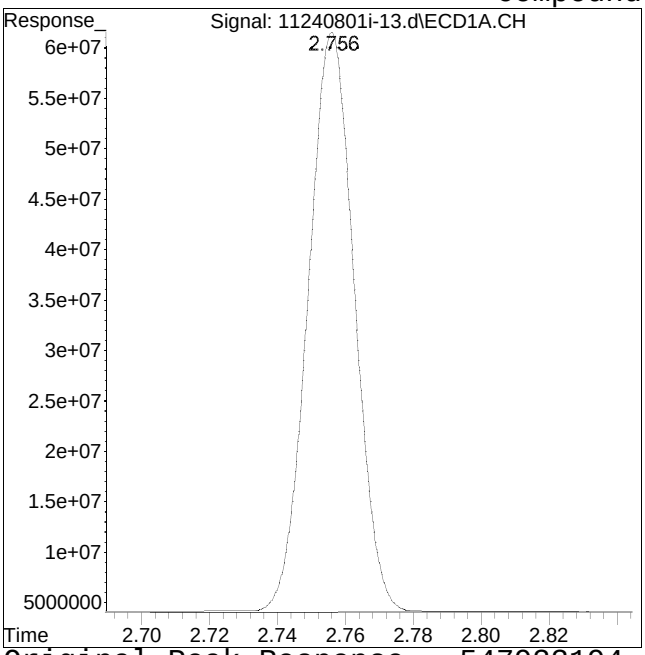
M4 = Poor automated baseline construction.

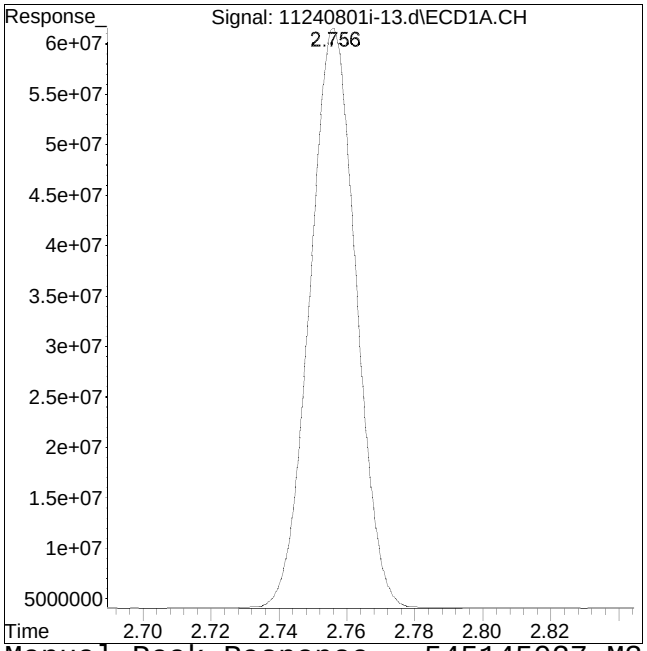
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #9: Aldrin





Original Peak Response = 547933194 Manual Peak Response = 545145027 M3

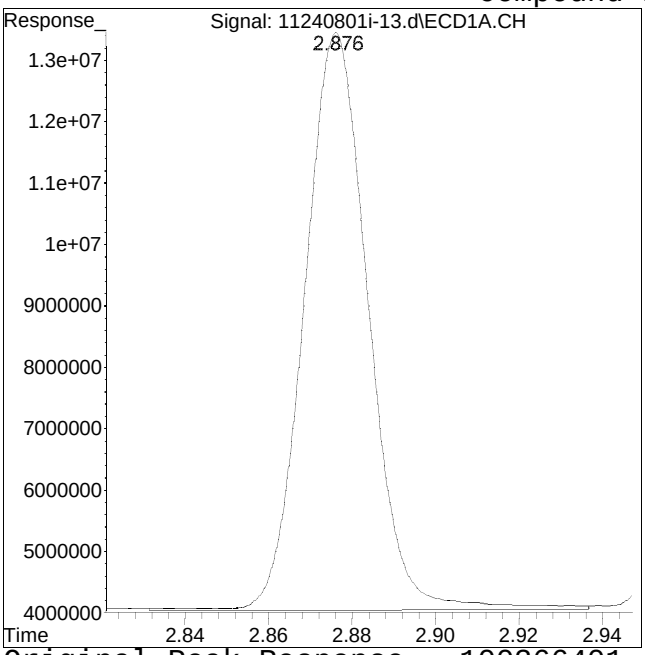
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

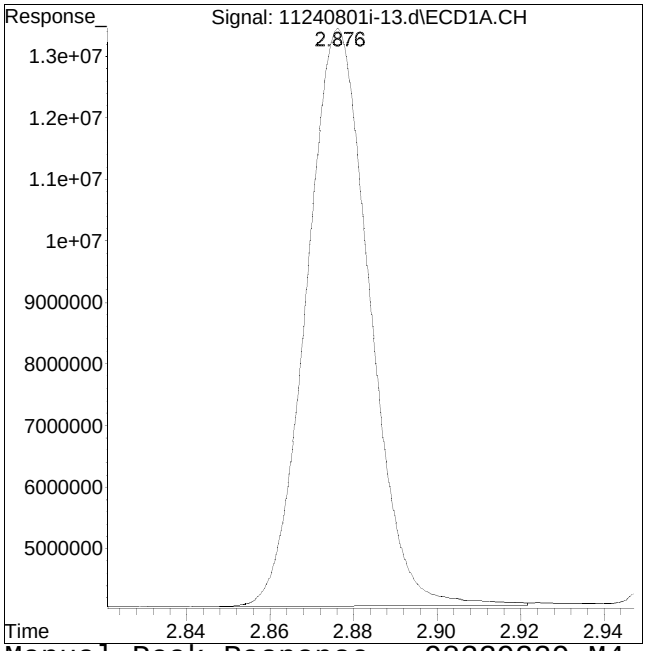
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #10: Alachlor



Original Peak Response = 100366401



Manual Peak Response = 98339329 M4

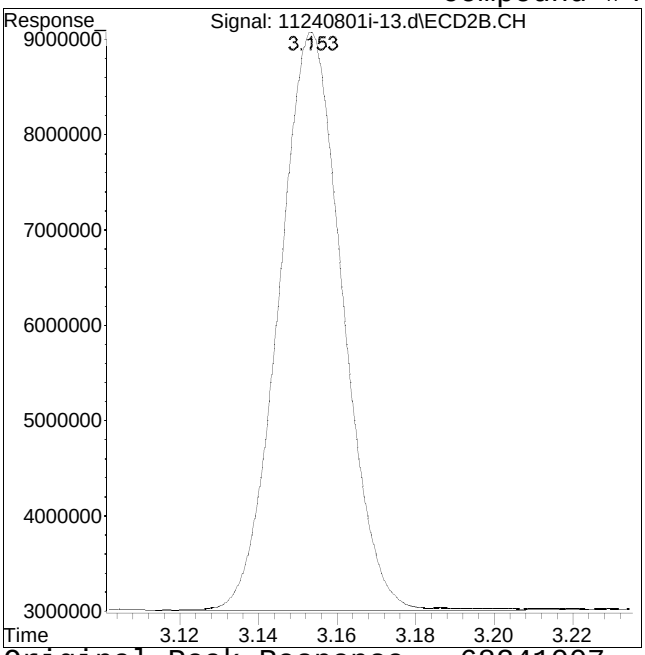
M4 = Poor automated baseline construction.

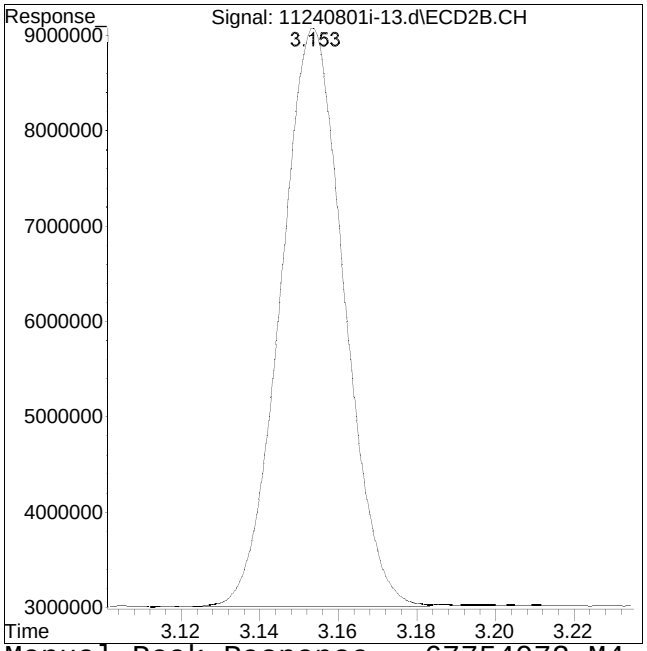
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #48: Alachlor #2



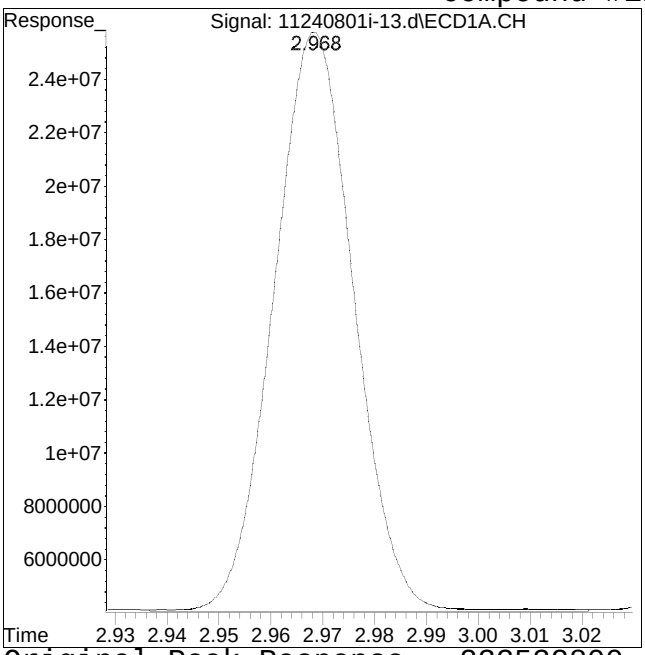


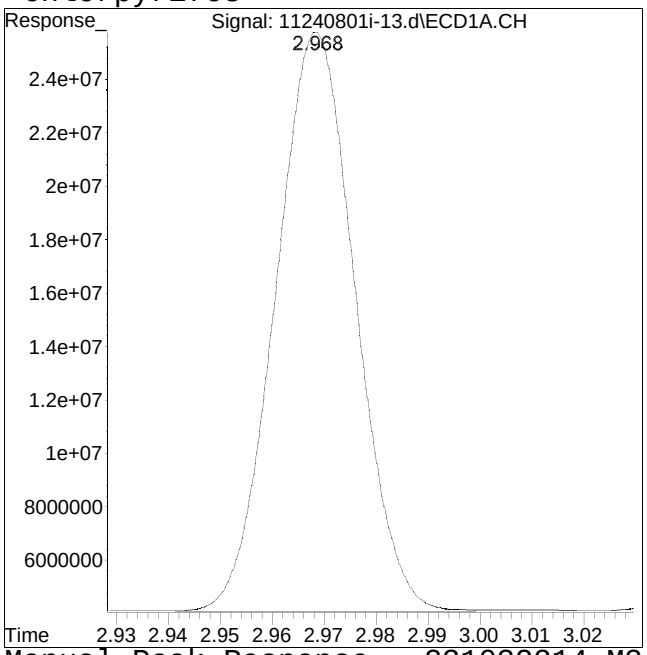
Original Peak Response = 68241007 Manual Peak Response = 67754072 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #11: Chlorpyrifos





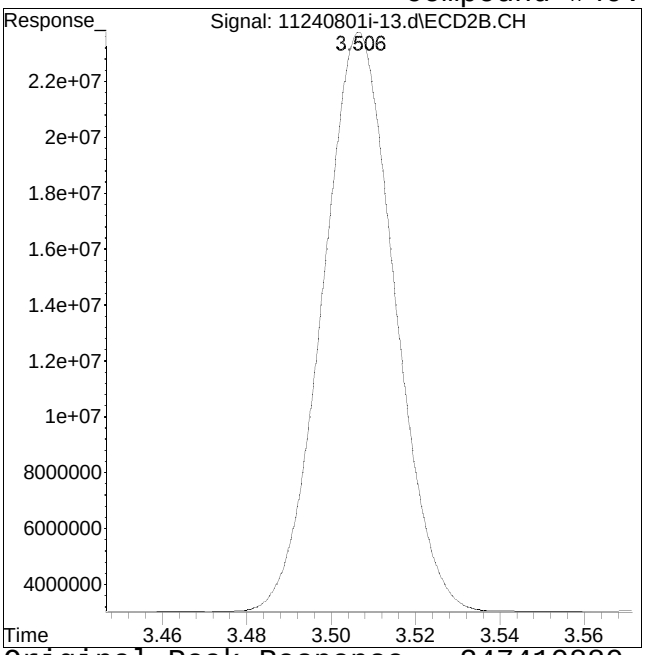
Original Peak Response = 233532800 Manual Peak Response = 231032214 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

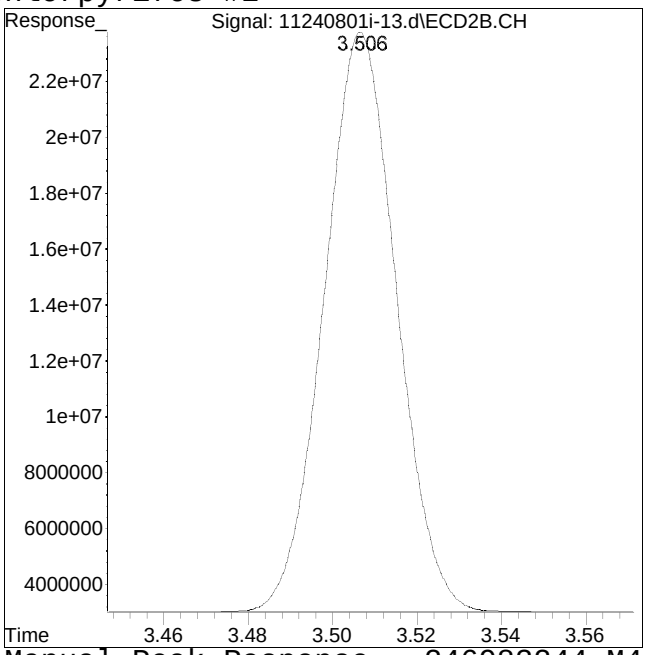
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 247410880



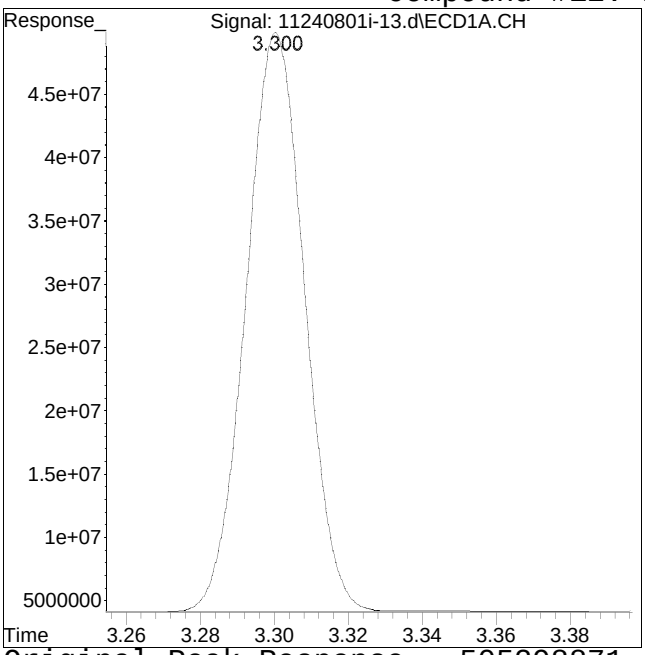
Manual Peak Response = 246983244 M4

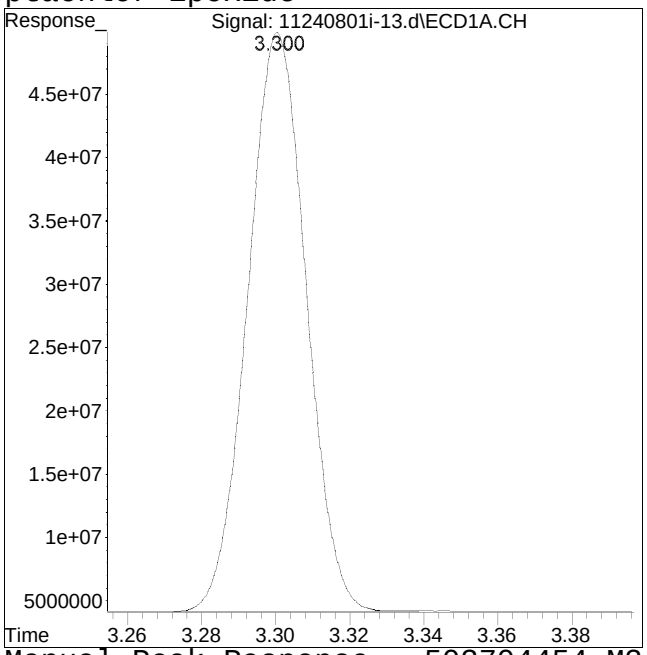
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 505298871 Manual Peak Response = 503704454 M3

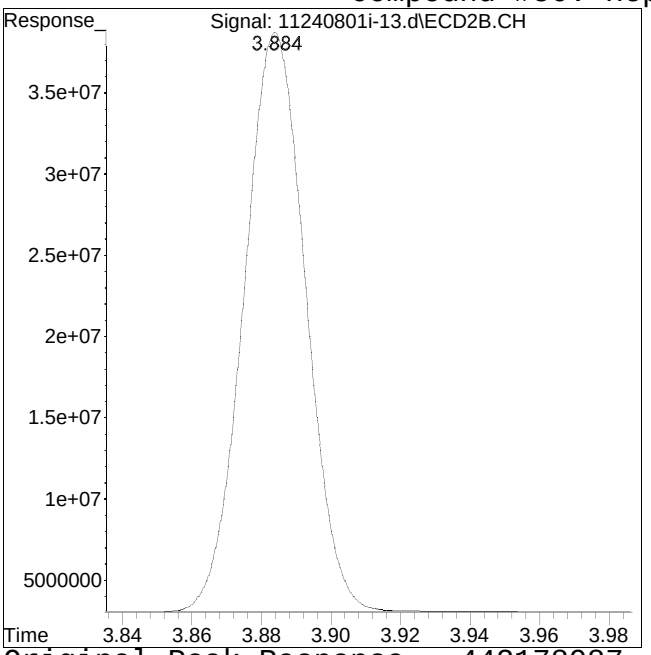
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

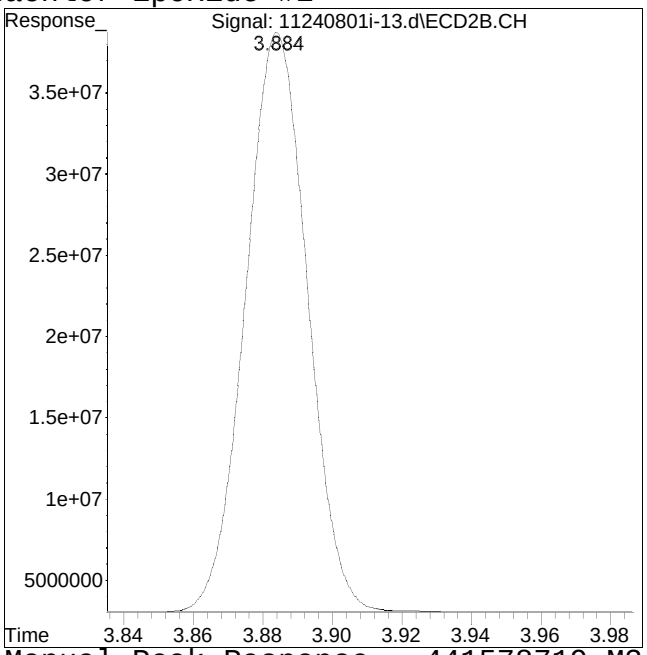
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #50: Heptachlor Epoxide #2





Original Peak Response = 442178987 Manual Peak Response = 441578719 M3

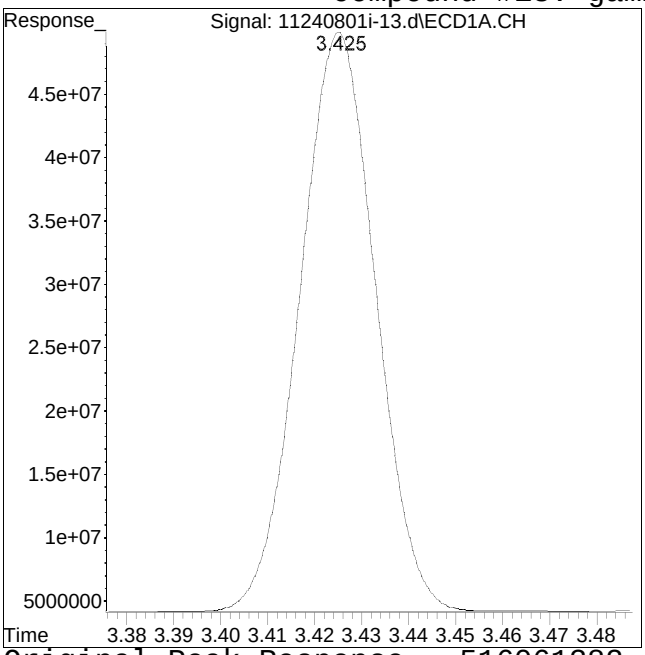
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

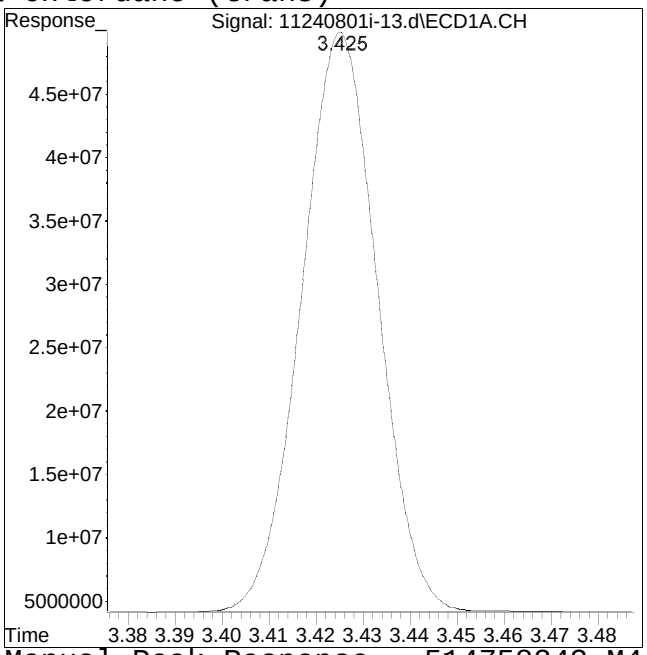
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #13: gamma-Chlordane (trans)



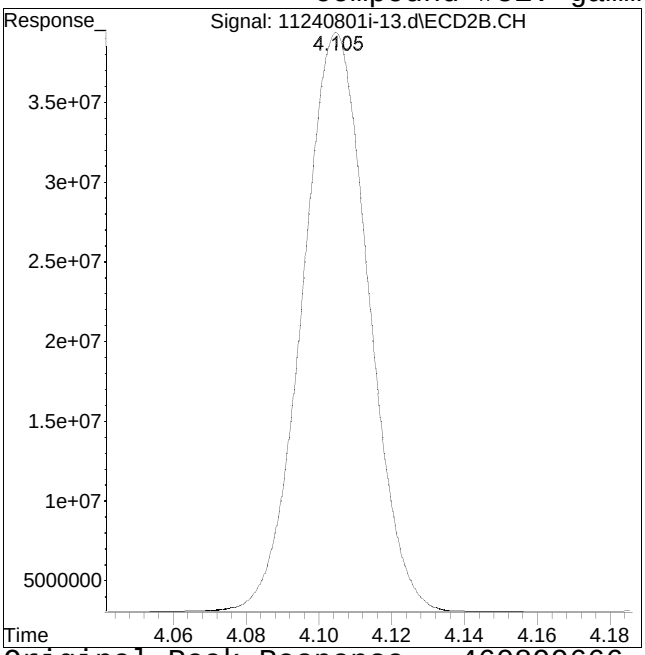


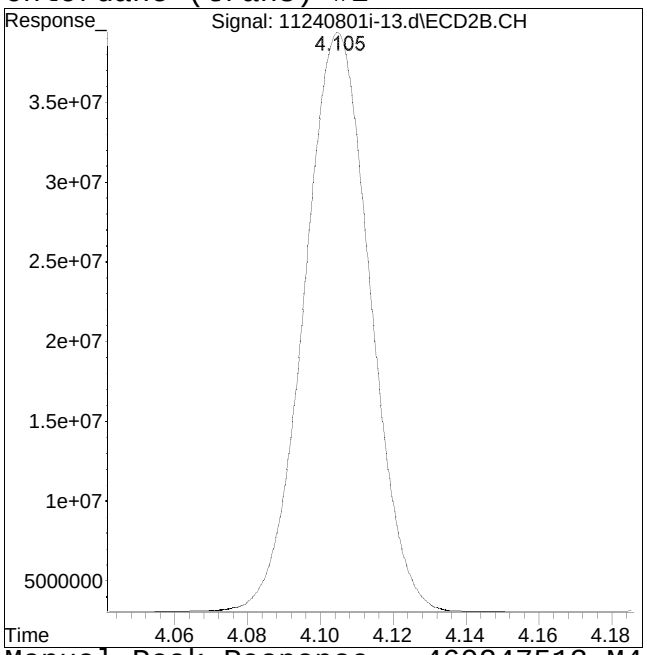
Original Peak Response = 516061382 Manual Peak Response = 514758243 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #51: gamma-Chlordane (trans) #2



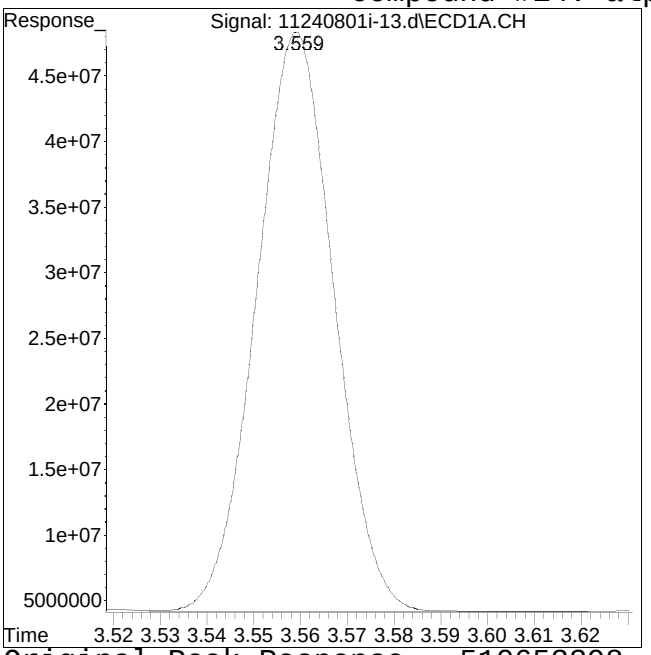


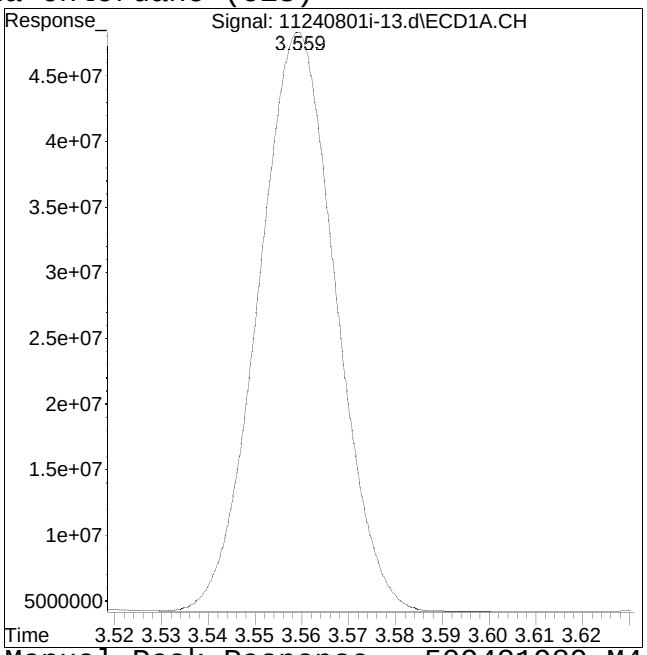
Original Peak Response = 460899666 Manual Peak Response = 460247513 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #14: alpha-Chlordane (cis)





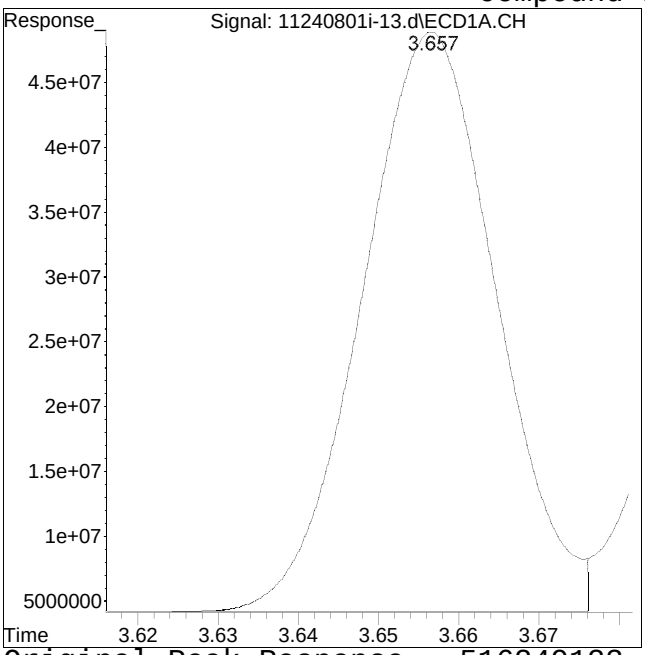
Original Peak Response = 510653398 Manual Peak Response = 509421989 M4
M4 = Poor automated baseline construction.

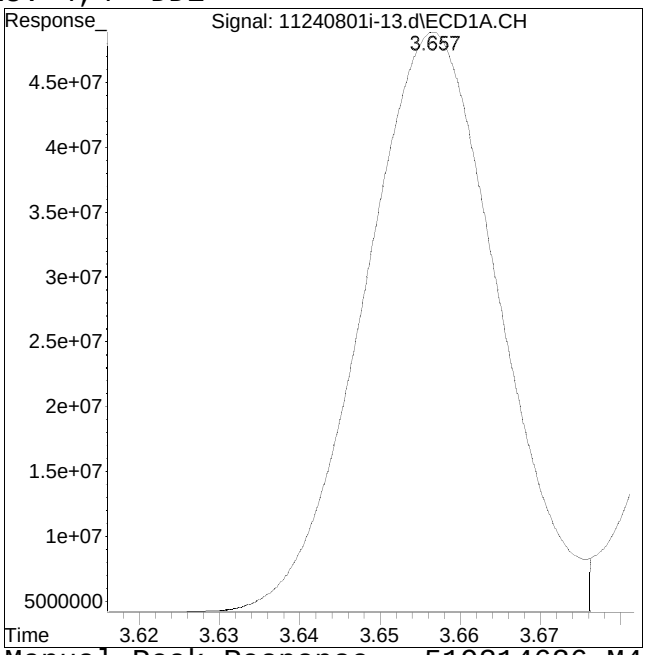
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #15: 4,4'-DDE





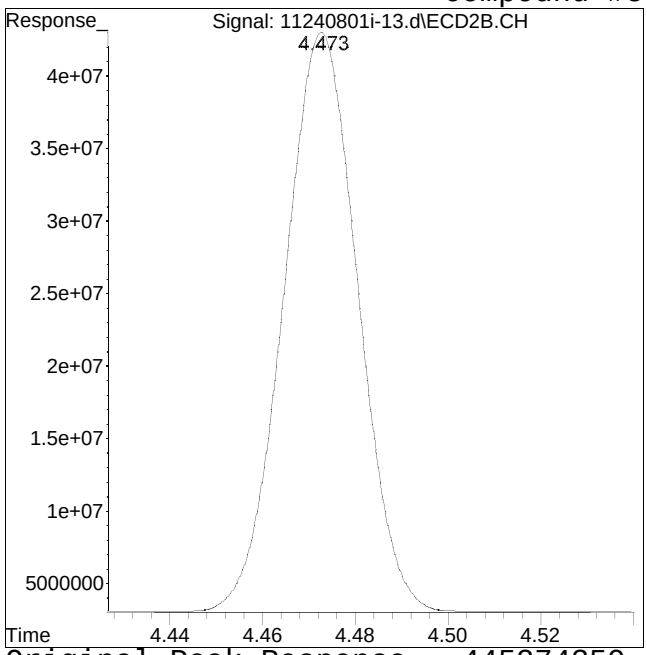
Original Peak Response = 516249123 Manual Peak Response = 519314626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

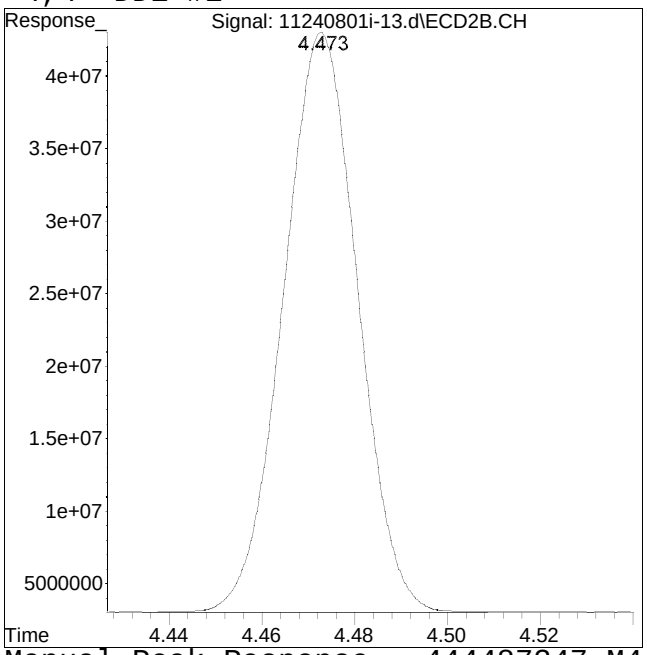
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 445274359



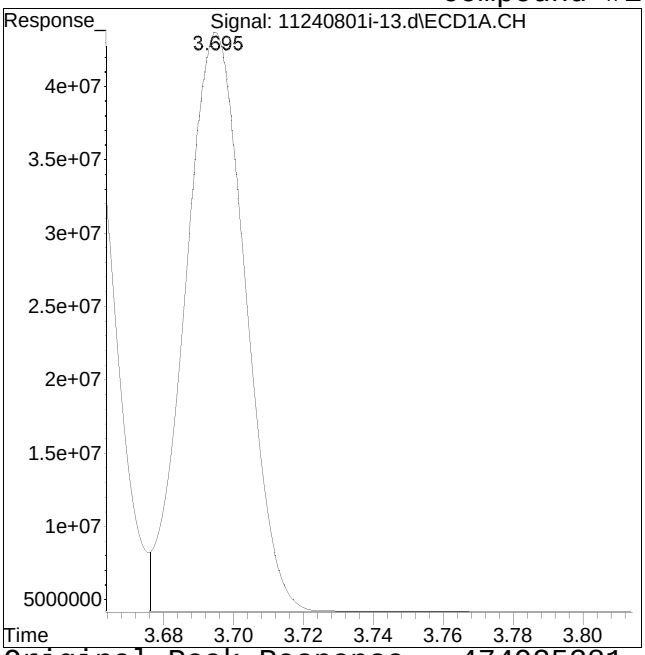
Manual Peak Response = 444487347 M4

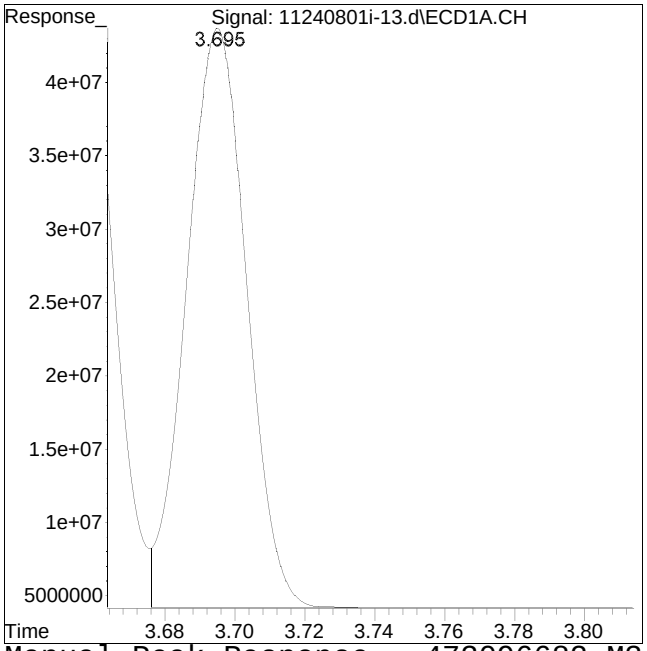
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #16: Endosulfan I





Original Peak Response = 474925381 Manual Peak Response = 473096682 M3

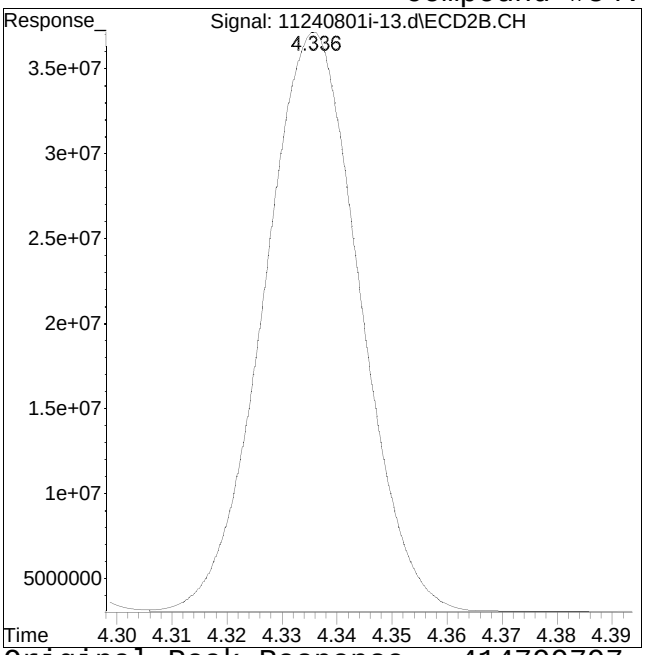
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

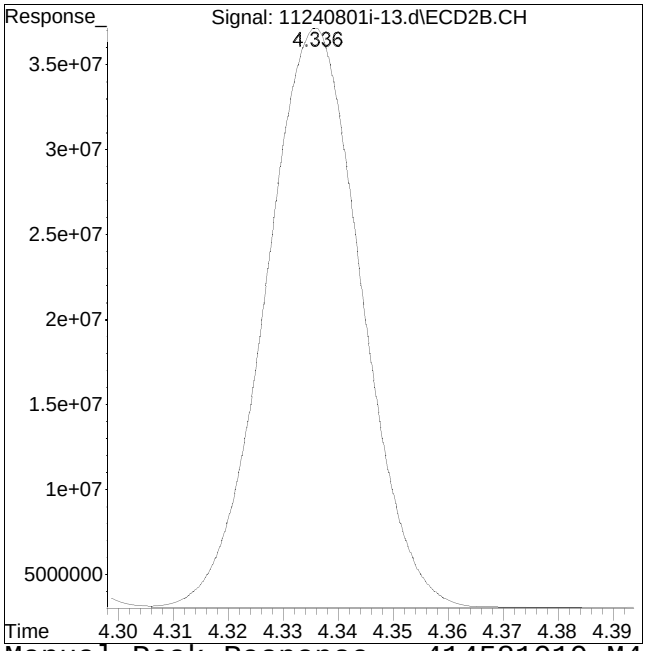
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #54: Endosulfan I #2



Original Peak Response = 414799797



Manual Peak Response = 414581010 M4

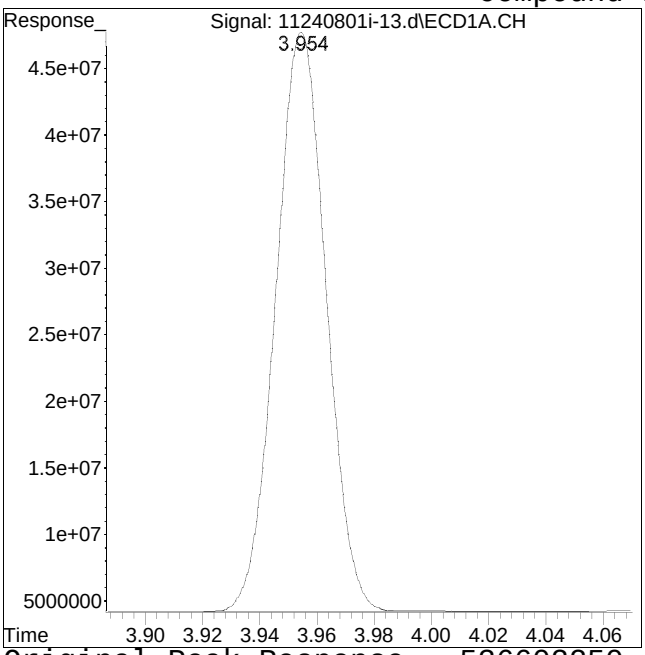
M4 = Poor automated baseline construction.

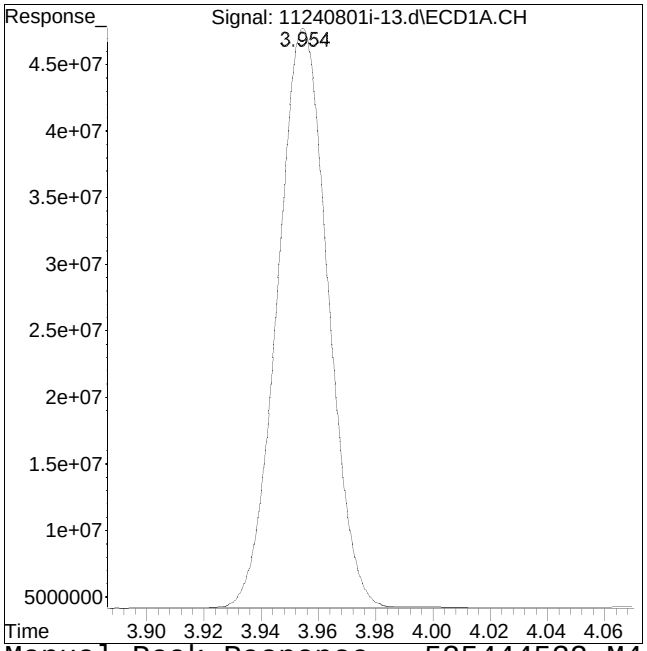
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #17: Dieldrin



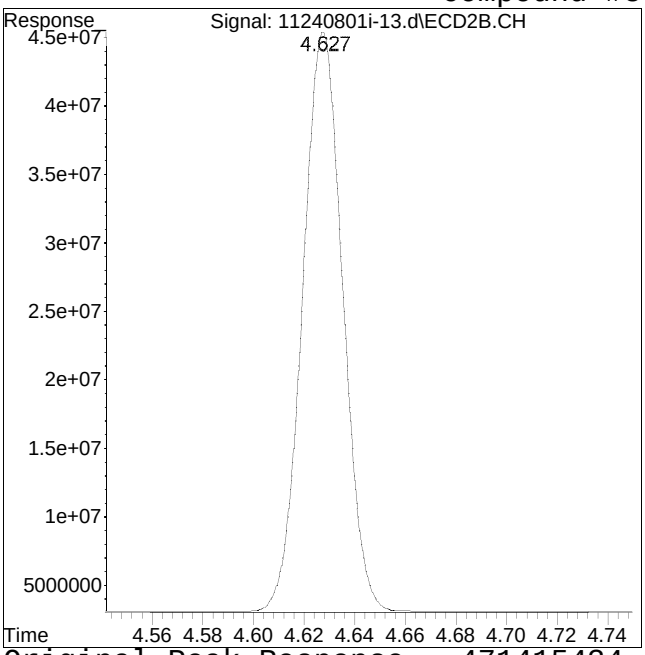


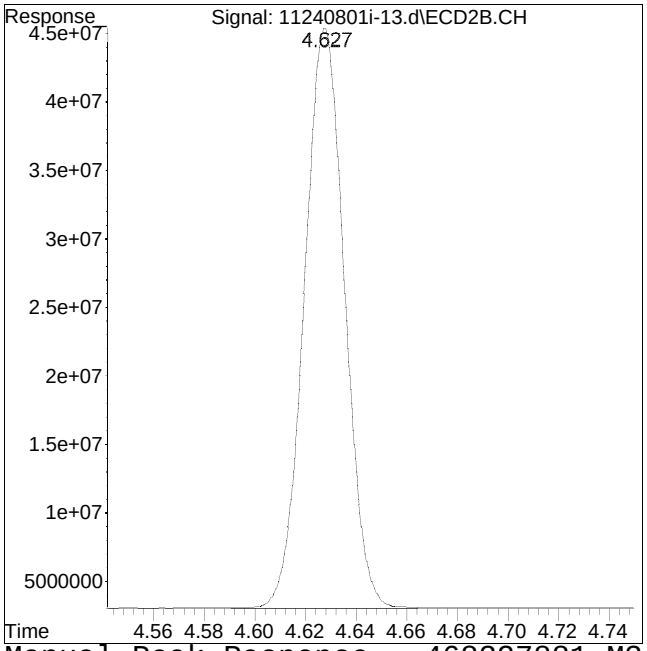
Original Peak Response = 536602250 Manual Peak Response = 535444532 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #55: Dieldrin #2





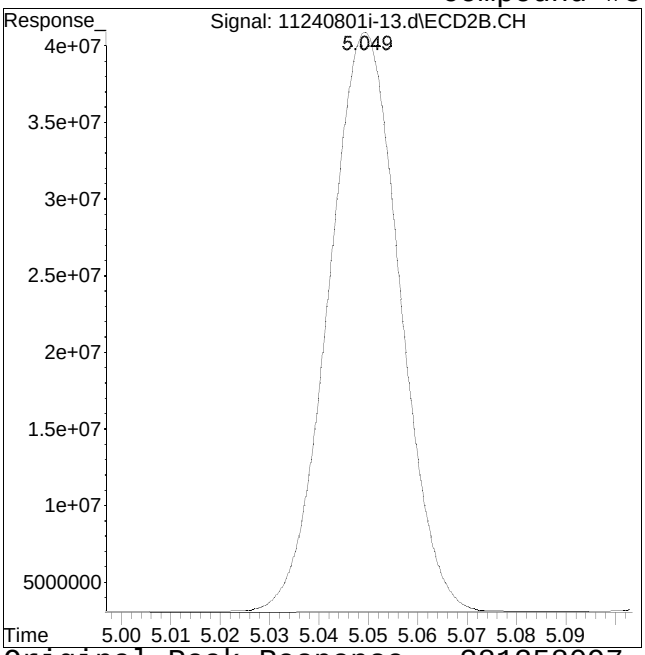
Original Peak Response = 471415434 Manual Peak Response = 468327881 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

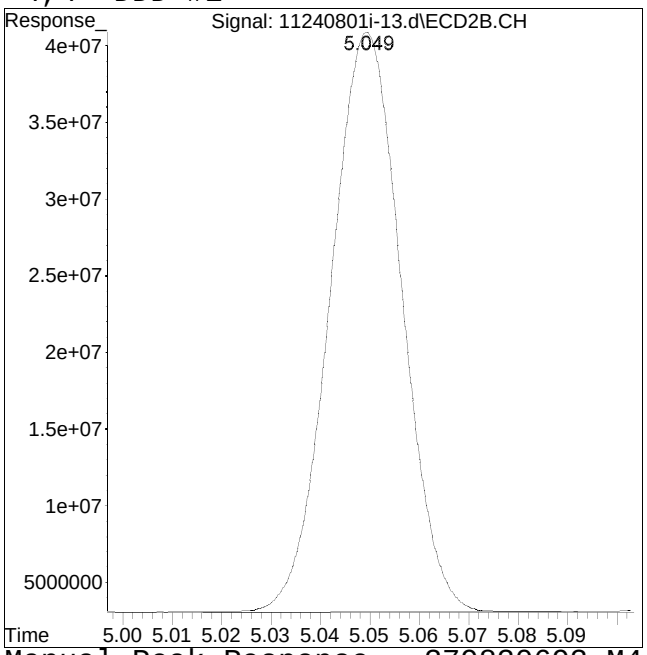
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 381358097



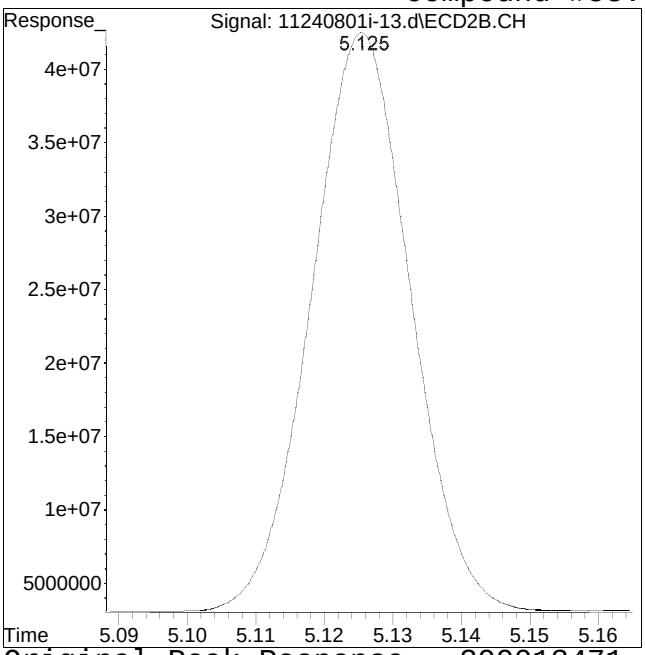
Manual Peak Response = 379830693 M4

M4 = Poor automated baseline construction.

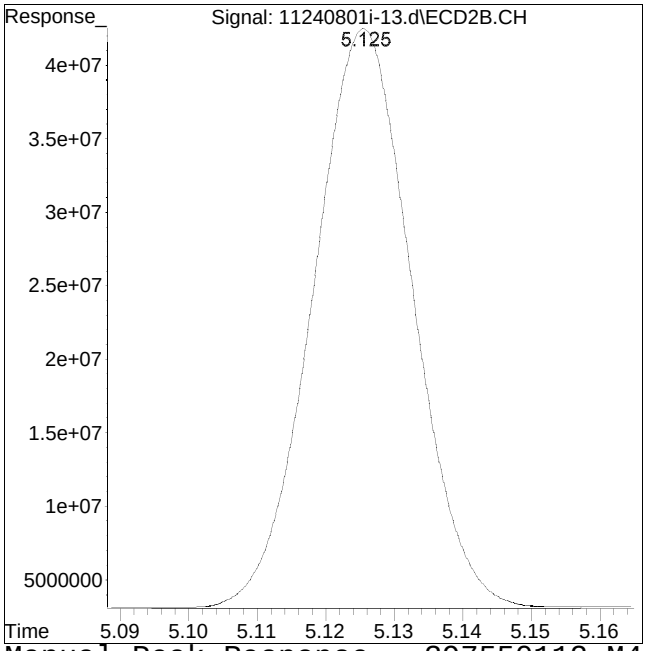
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #58: Endosulfan II #2



Original Peak Response = 399013471



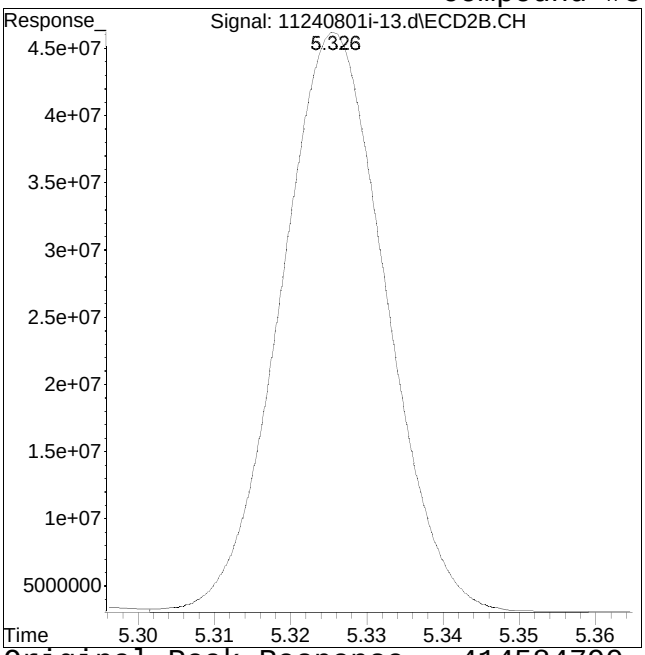
Manual Peak Response = 397550112 M4

M4 = Poor automated baseline construction.

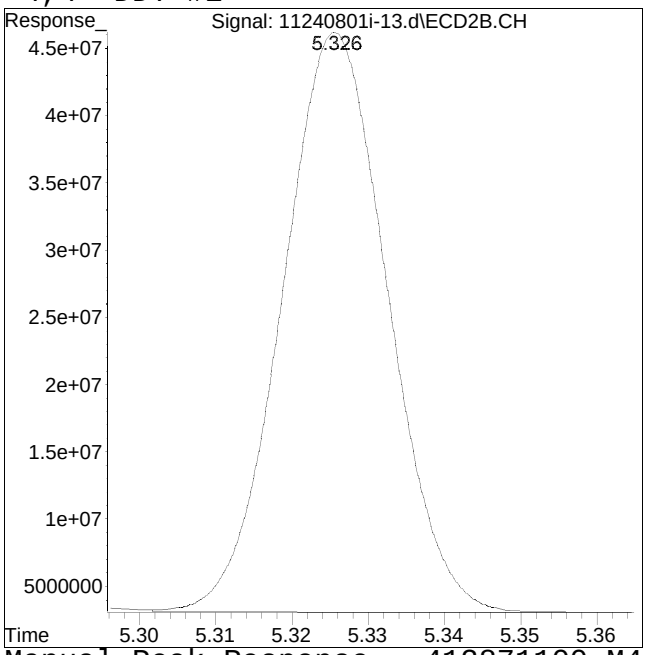
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 414584790



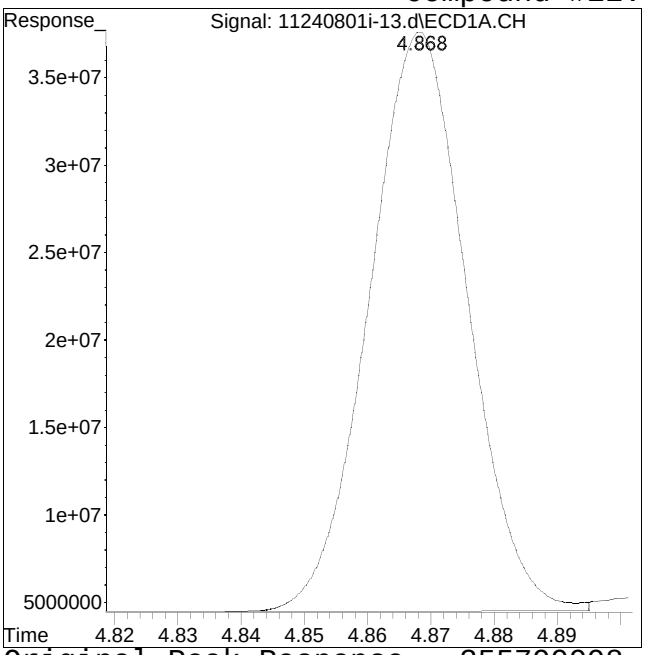
Manual Peak Response = 412871100 M4
M4 = Poor automated baseline construction.

Manual Integration Report

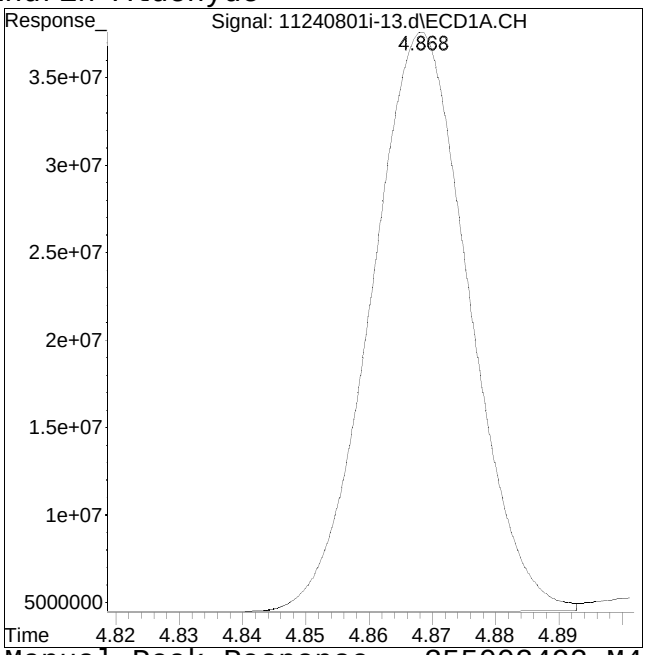
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #22: Endrin Aldehyde



Original Peak Response = 355799998



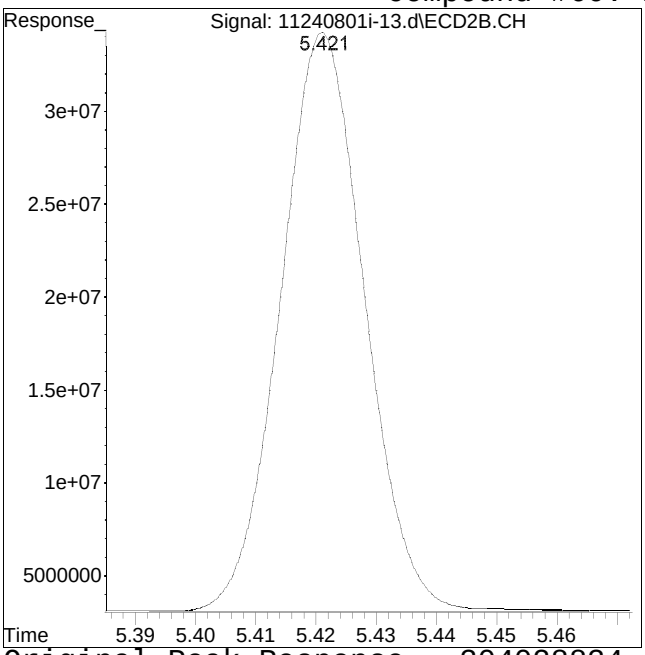
Manual Peak Response = 355002492 M4

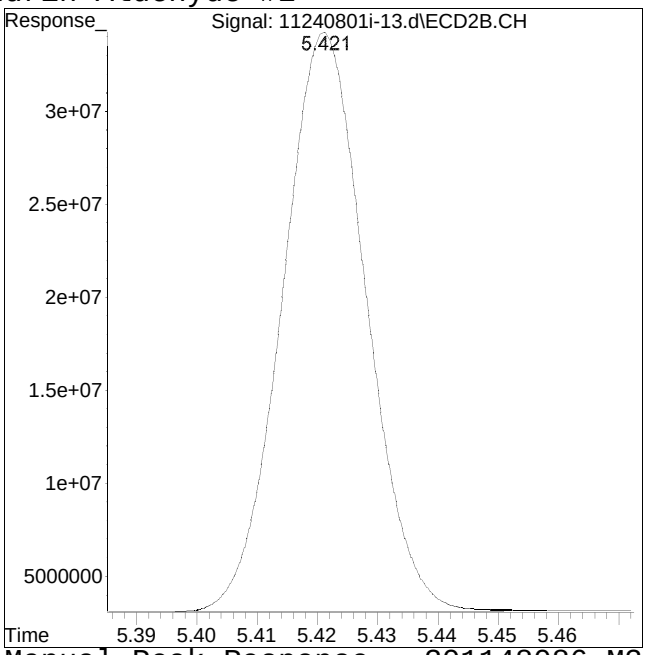
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 304028834 Manual Peak Response = 301148086 M3

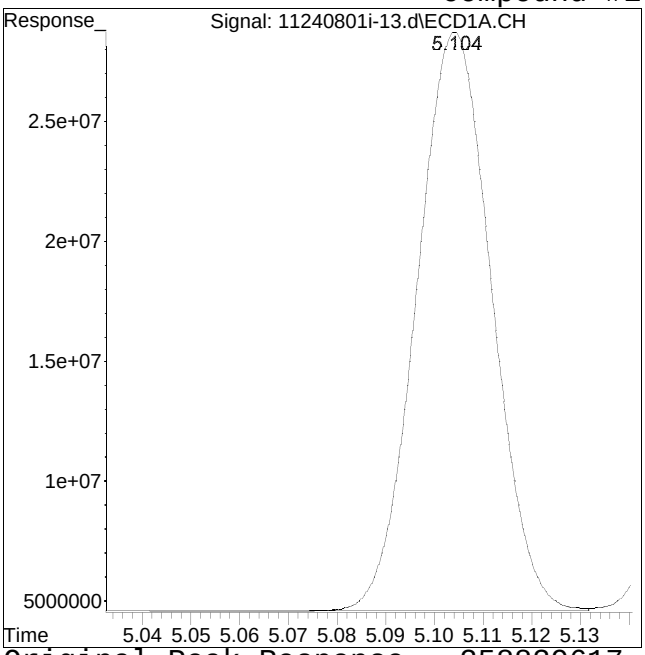
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

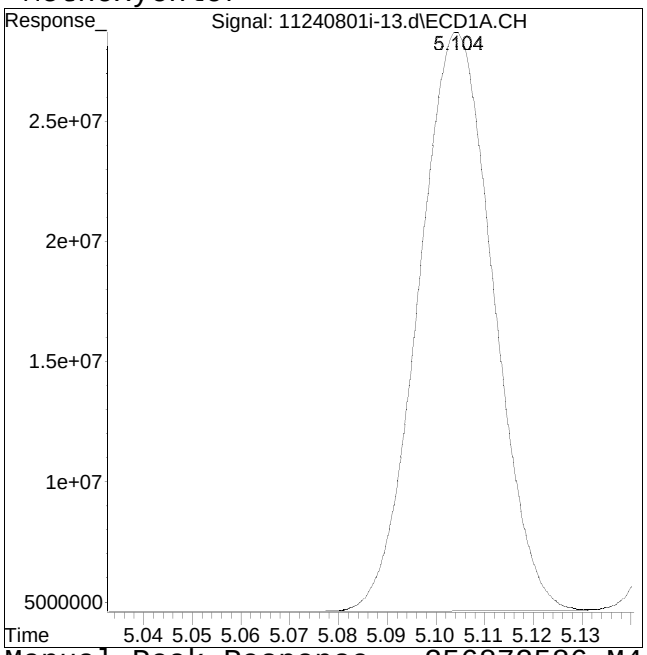
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #23: Methoxychlor



Original Peak Response = 258839617



Manual Peak Response = 256872586 M4

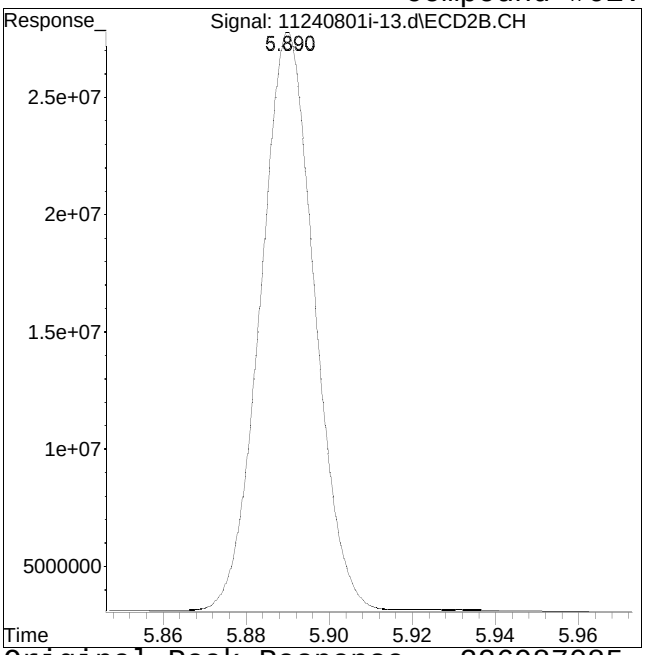
M4 = Poor automated baseline construction.

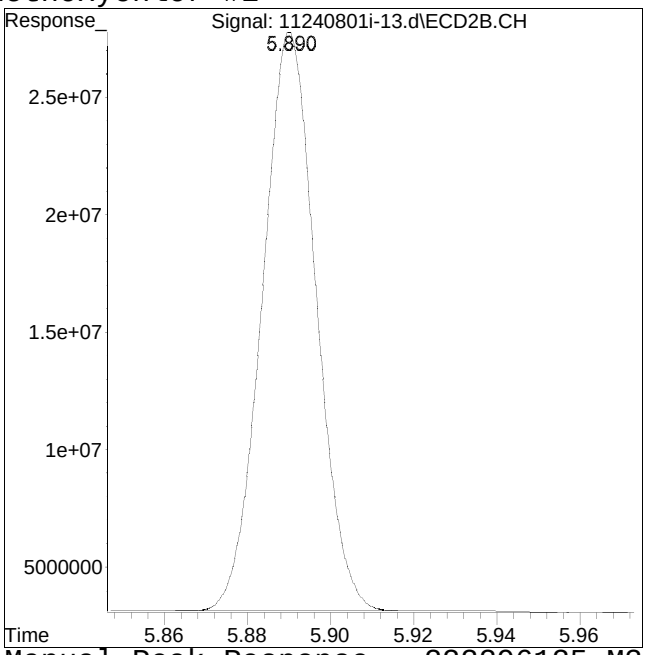
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #61: Methoxychlor #2





Original Peak Response = 226987085 Manual Peak Response = 222296125 M3

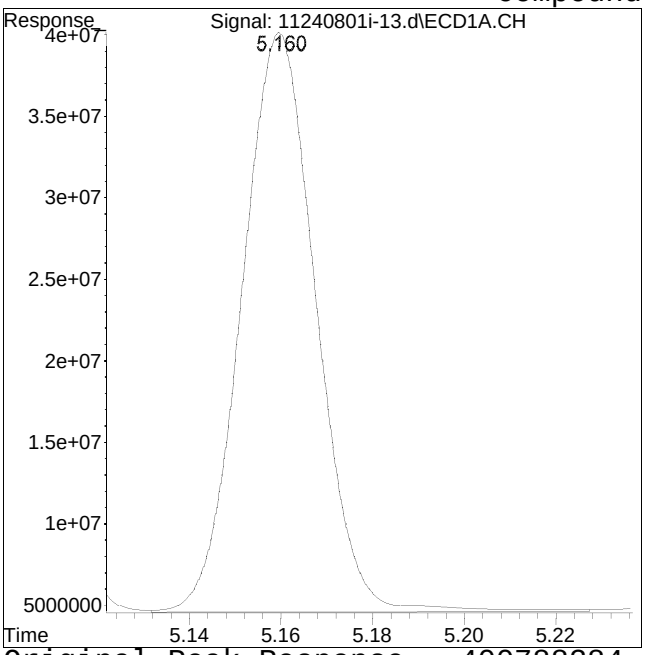
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

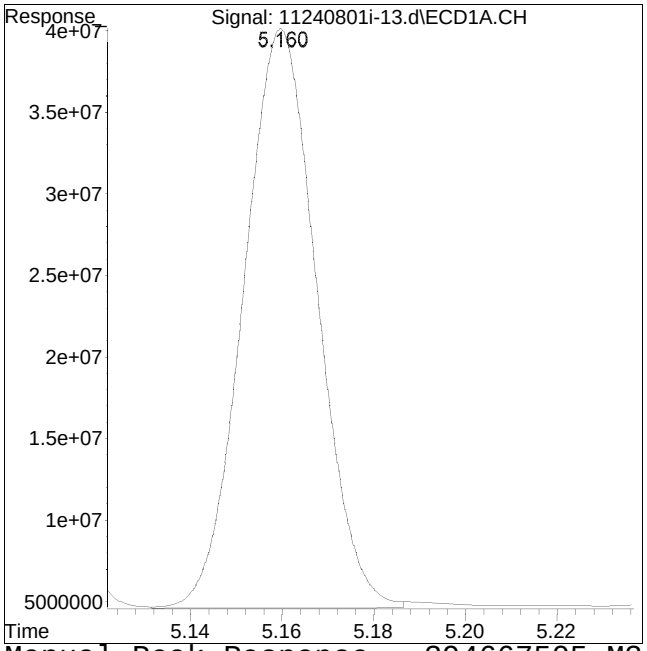
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #24: Mirex





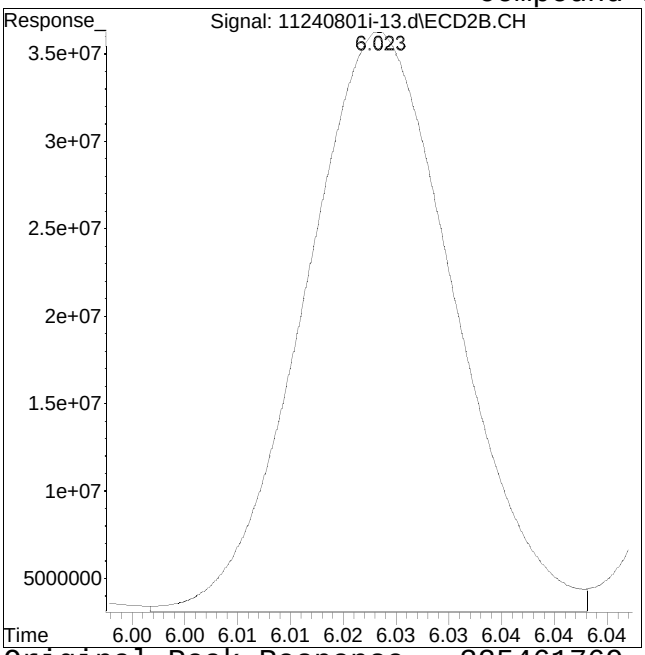
Original Peak Response = 400788384 Manual Peak Response = 394667505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

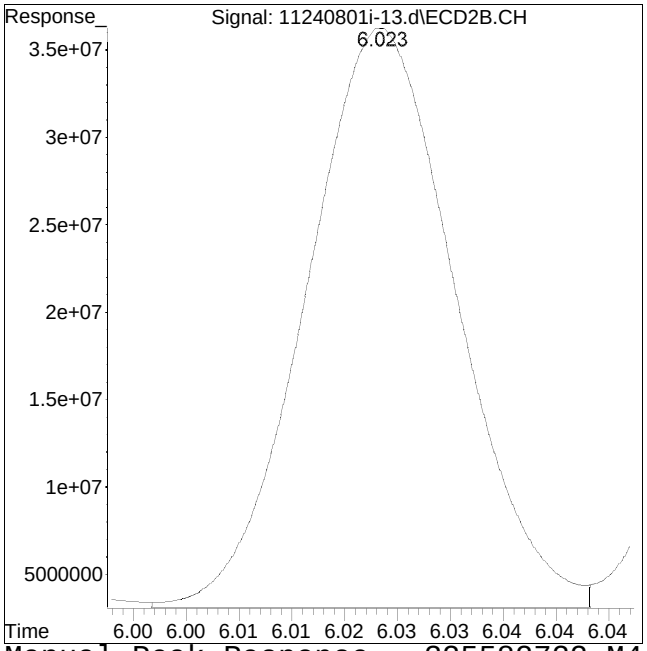
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #62: Mirex #2



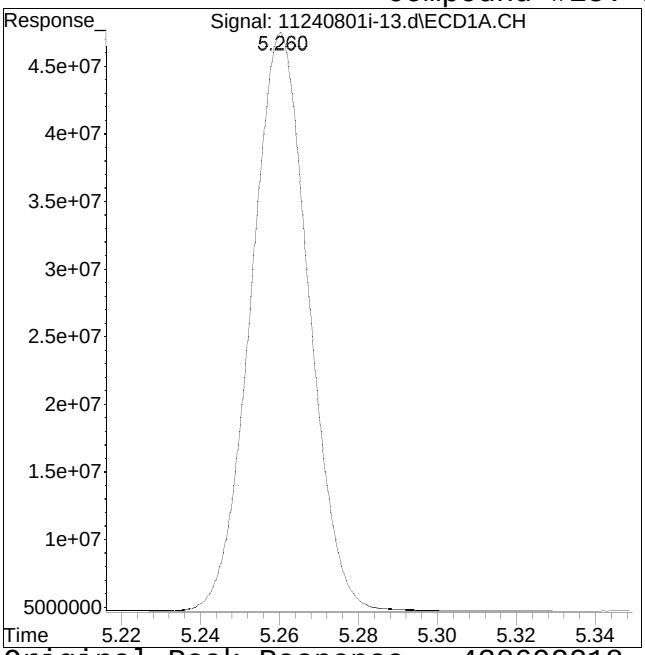


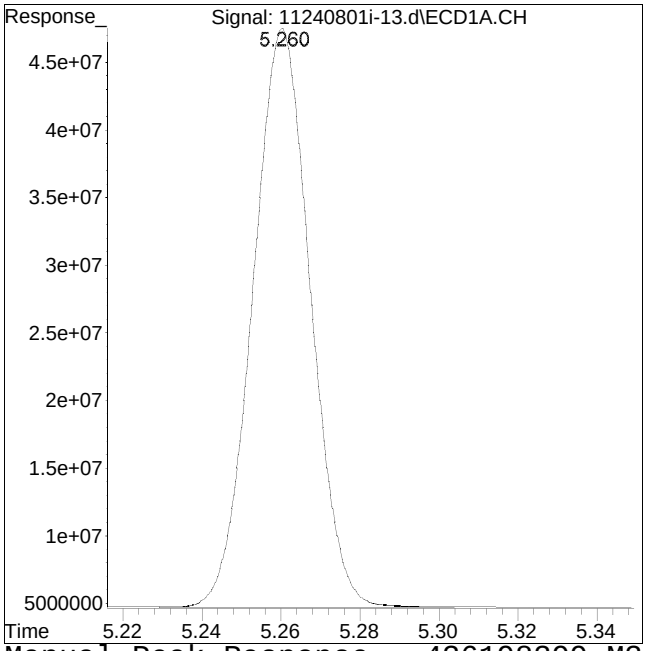
Original Peak Response = 325461769 Manual Peak Response = 325582722 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #25: Endosulfan Sulfate



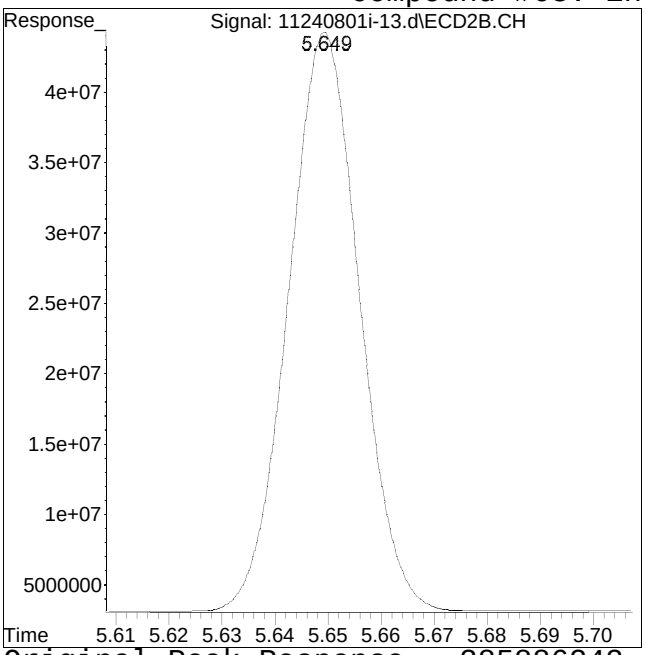


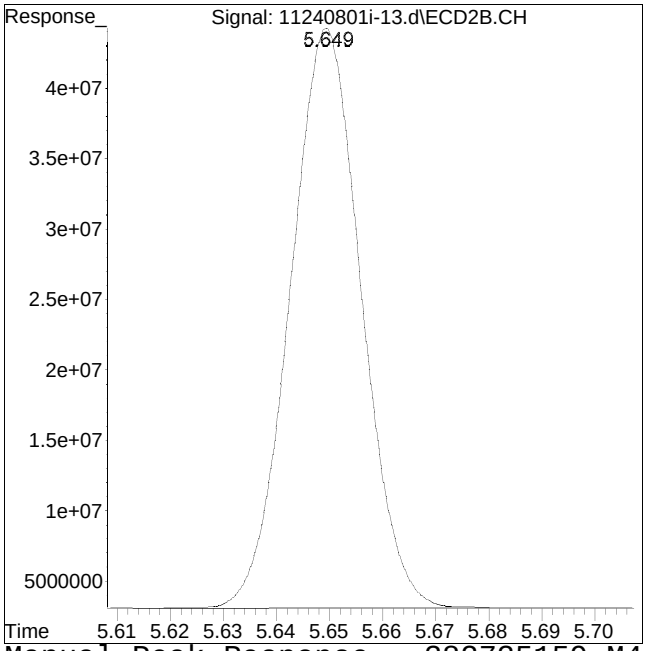
Original Peak Response = 438692218 Manual Peak Response = 436198399 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #63: Endosulfan Sulfate #2





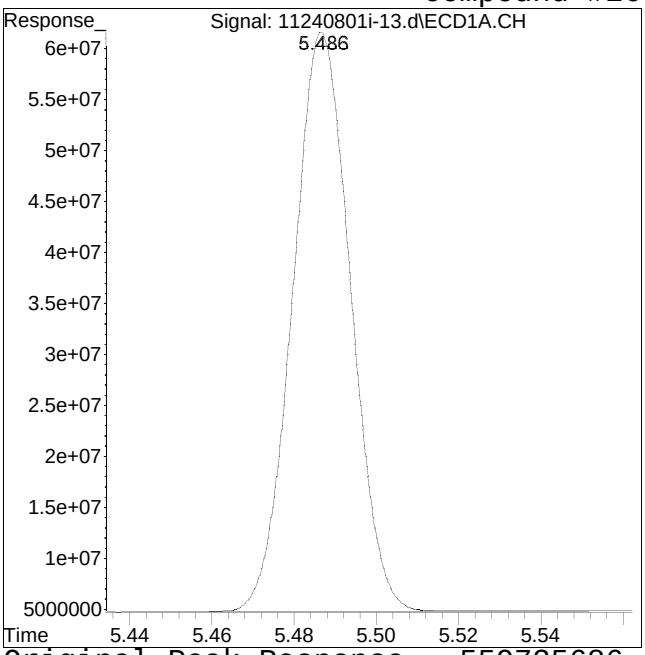
Original Peak Response = 385886242 Manual Peak Response = 382735159 M4
M4 = Poor automated baseline construction.

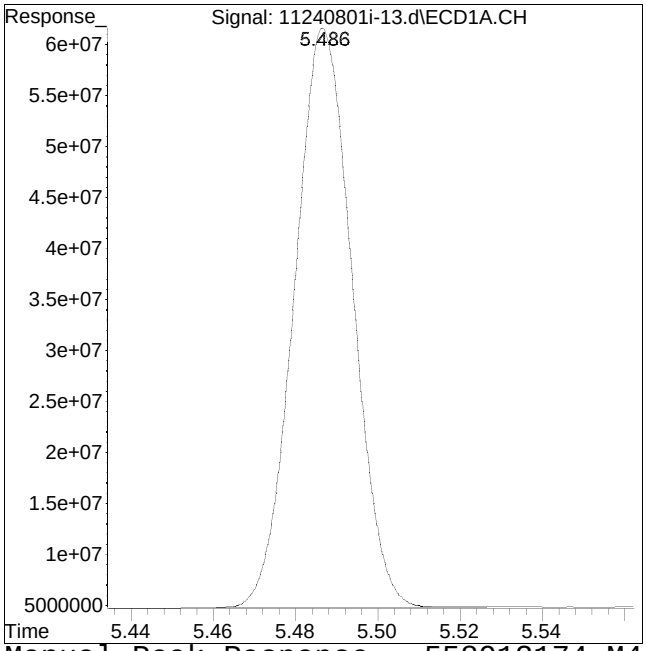
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #26: Endrin Ketone



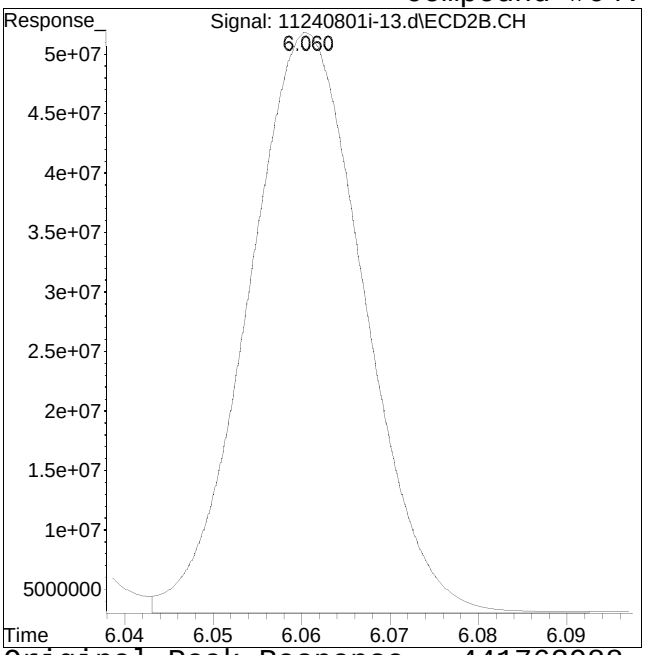


Original Peak Response = 559735686 Manual Peak Response = 558913174 M4
M4 = Poor automated baseline construction.

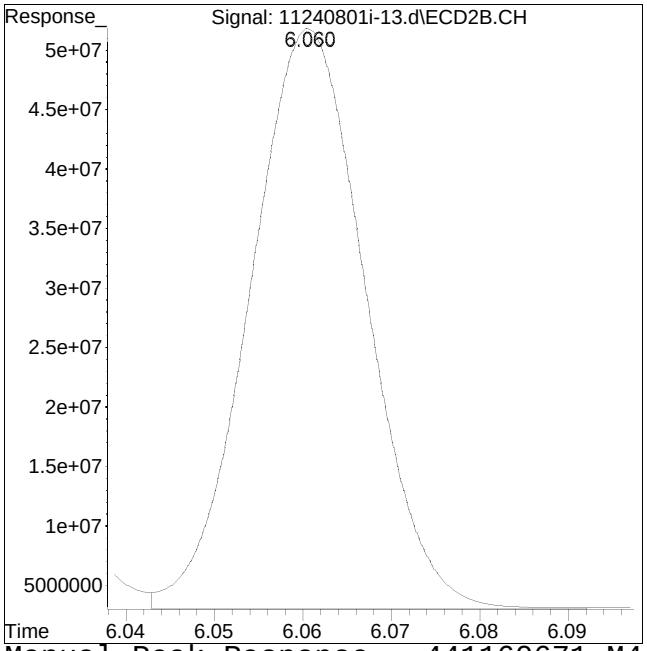
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #64: Endrin Ketone #2



Original Peak Response = 441763988



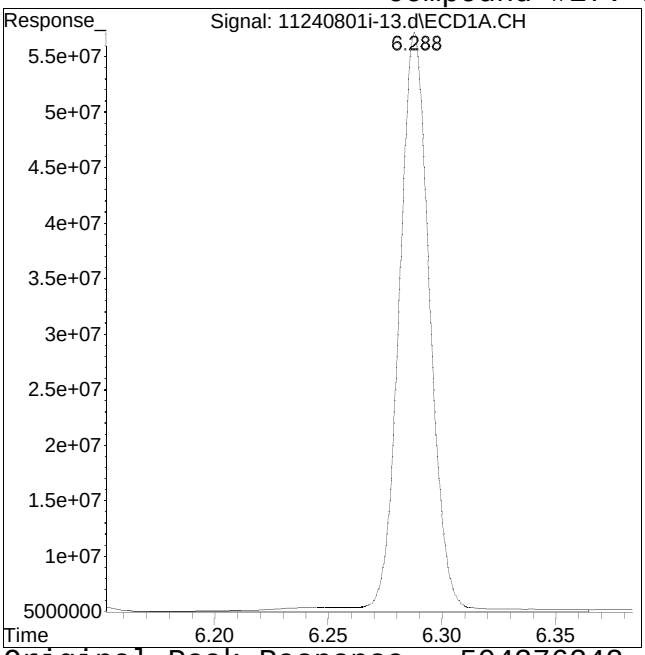
Manual Peak Response = 441160671 M4

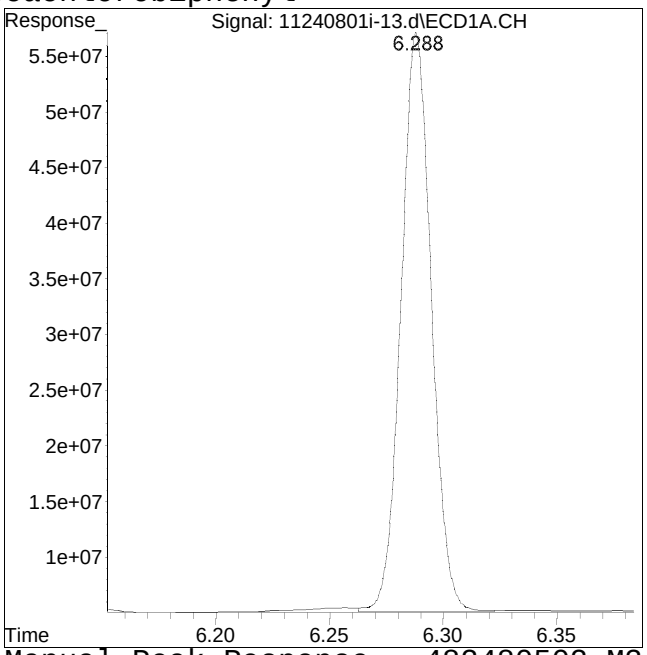
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #27: Decachlorobiphenyl





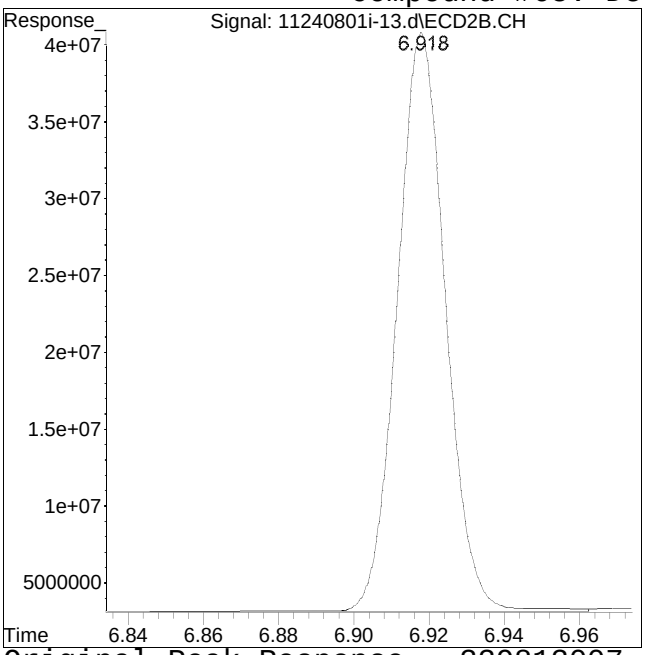
Original Peak Response = 504376242 Manual Peak Response = 482480502 M3

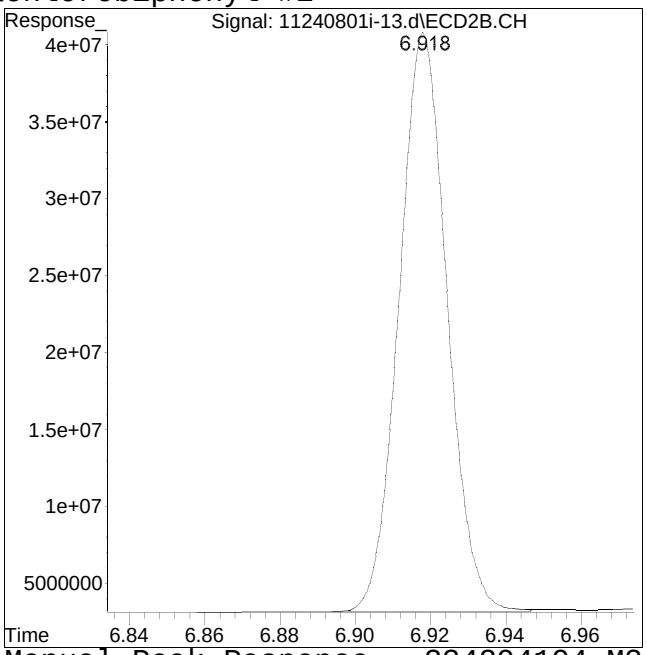
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 339813007 Manual Peak Response = 334294194 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	221.9E6	176.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	3348778	3797653	10.230	12.954
30) l1	chlordane-3	2.868	3.423	4387652	4962525	10.696M4	14.420
31) l1	chlordane-4	3.425	4.104	14578311	14683745	10.355	12.473
32) l1	chlordane-5	3.553	4.275	21582458	11409156	9.913	12.528
Sum	chlordane-1			43897199	34853078	NoCal	NoCal D
Average	chlordane-1					10.299	13.094
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

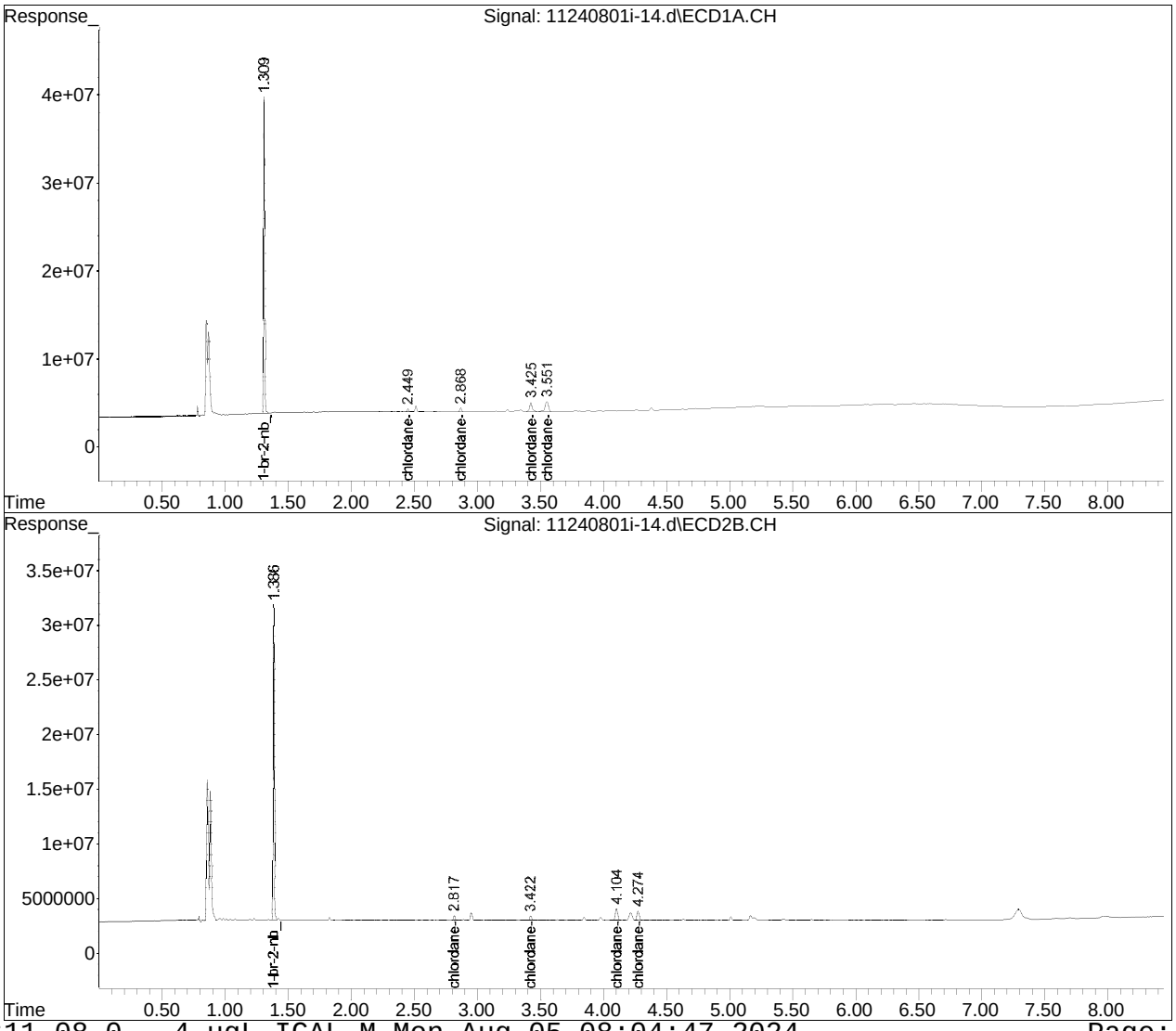
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

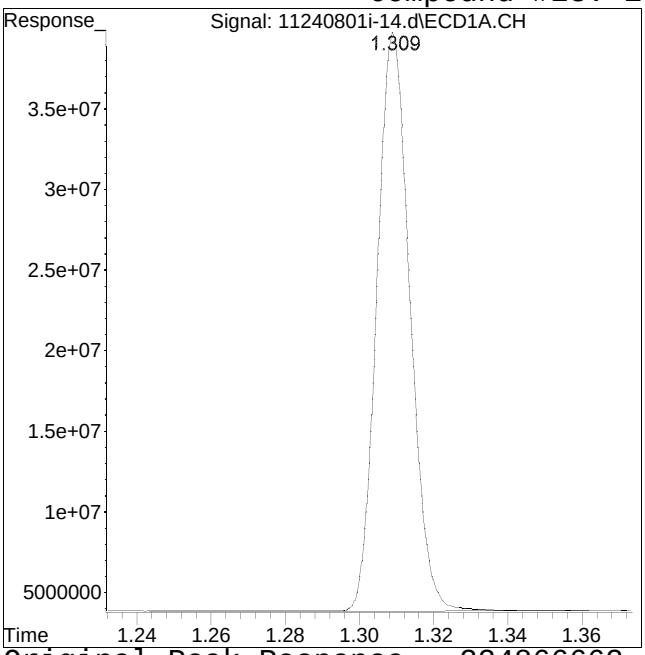


Manual Integration Report

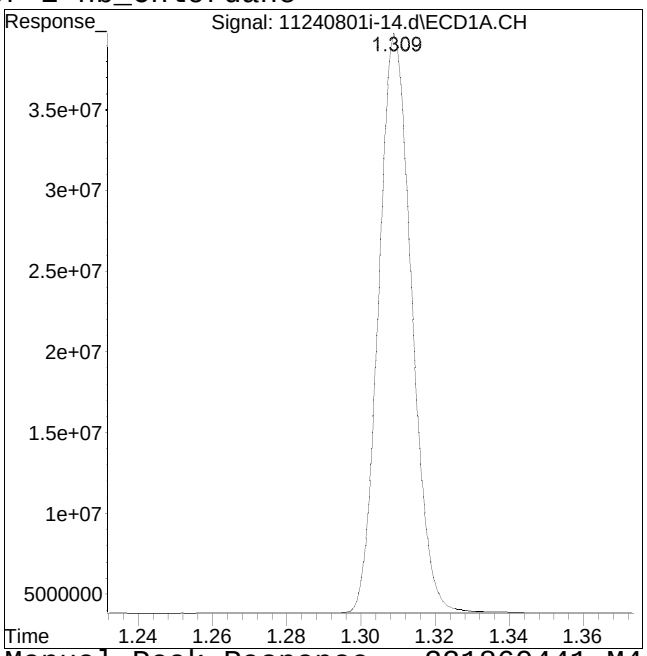
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 224866662



Manual Peak Response = 221860441 M4

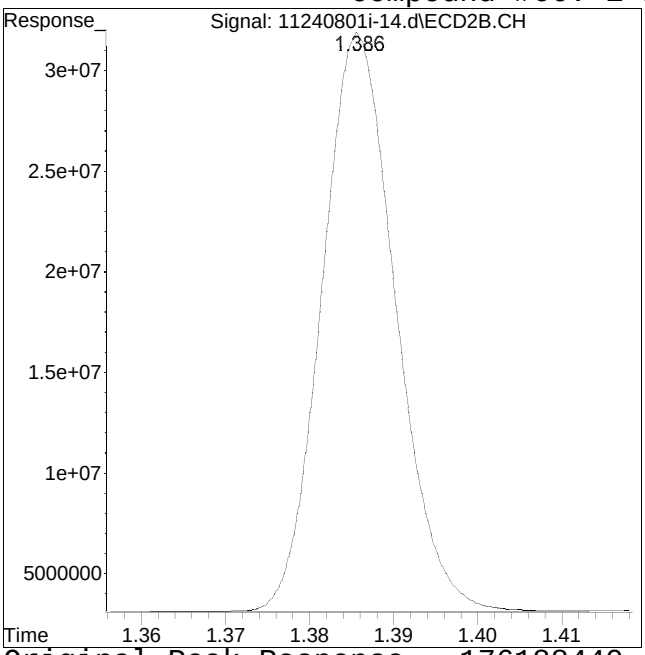
M4 = Poor automated baseline construction.

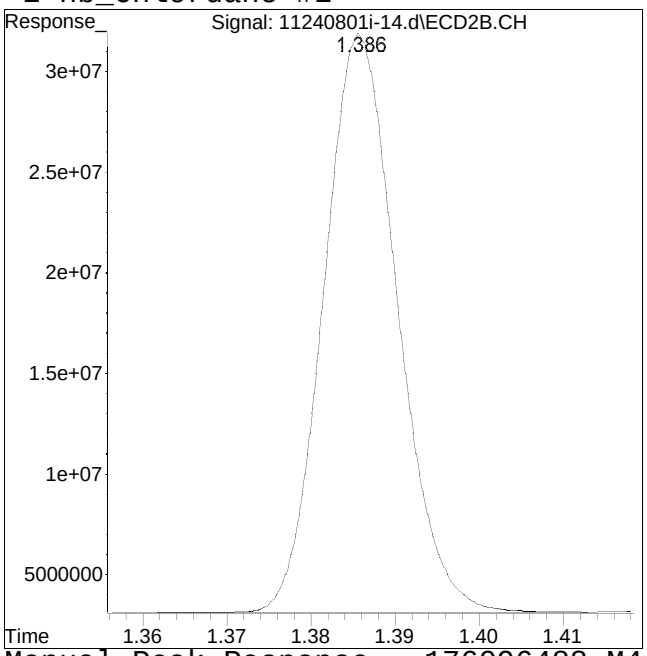
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #66: 1-br-2-nb_Chlordane #2





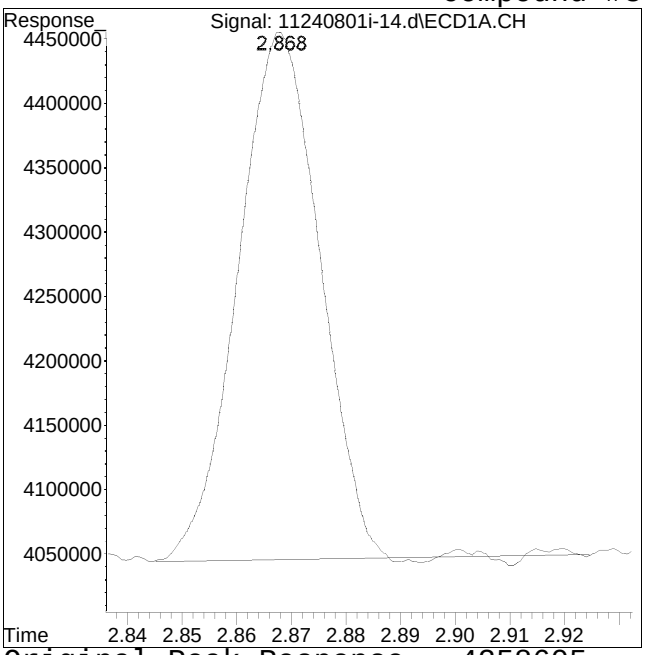
Original Peak Response = 176188440 Manual Peak Response = 176096488 M4
M4 = Poor automated baseline construction.

Manual Integration Report

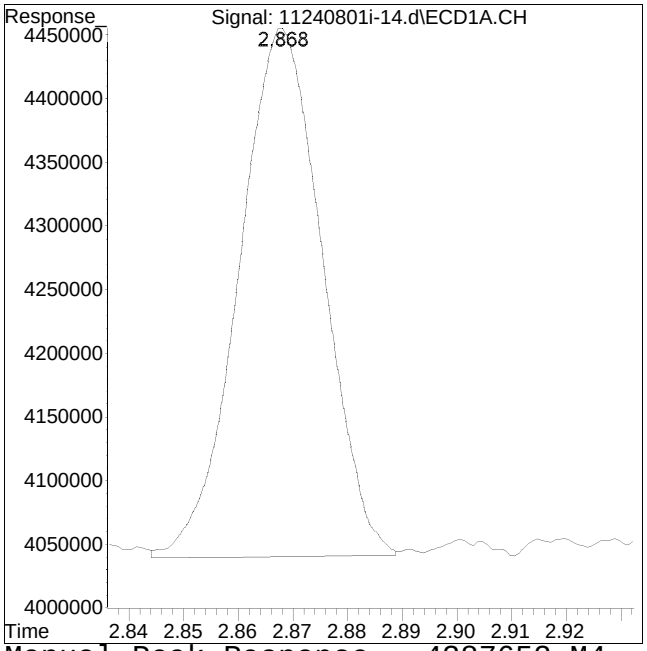
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #30: chlordane-3



Original Peak Response = 4258605



Manual Peak Response = 4387652 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	215.7E6	175.4E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	6270200	7260829	19.646	26.129
30) l1	chlordane-3	2.869	3.422	9042606	9017445	23.300	28.067M4
31) l1	chlordane-4	3.426	4.105	27276142	26803162	19.917	23.521
32) l1	chlordane-5	3.552	4.275	42068468	20966520	19.853	23.849
Sum	chlordane-1			84657416	64047956	NoCal	NoCal D
Average	chlordane-1					20.679	25.392
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

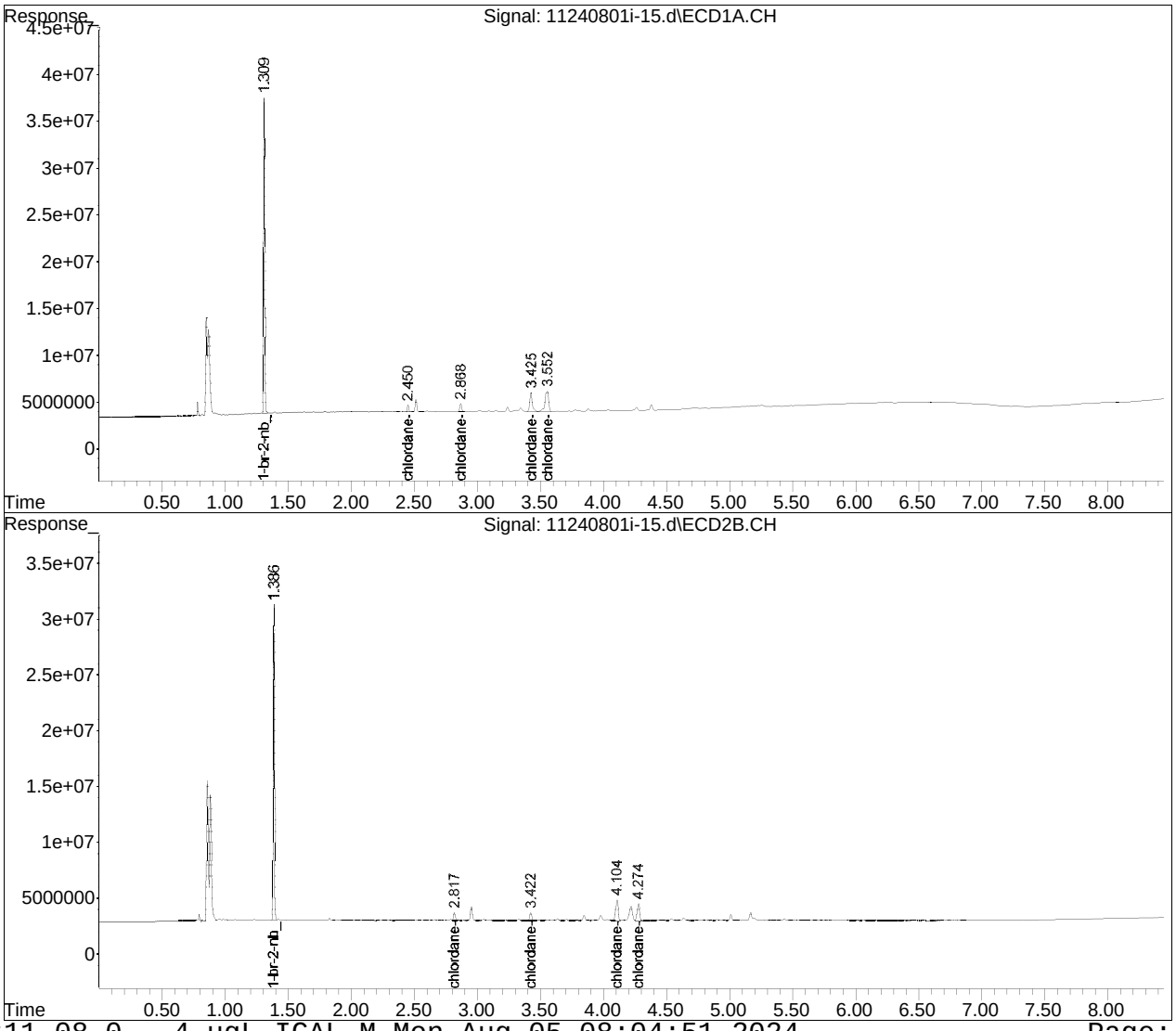
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

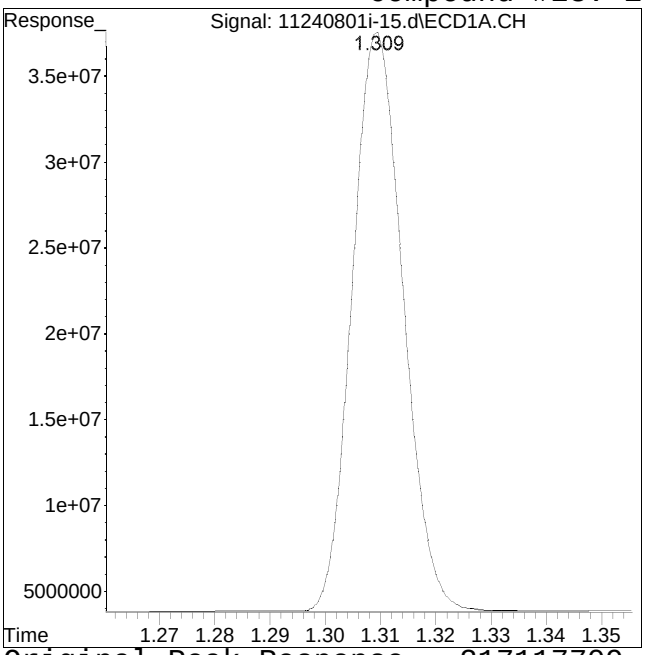
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

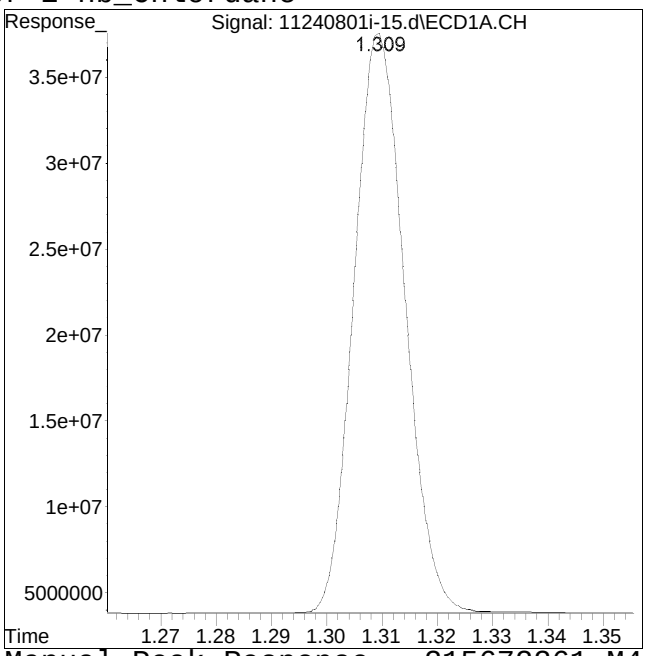


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #28: 1-br-2-nb_Chlordane



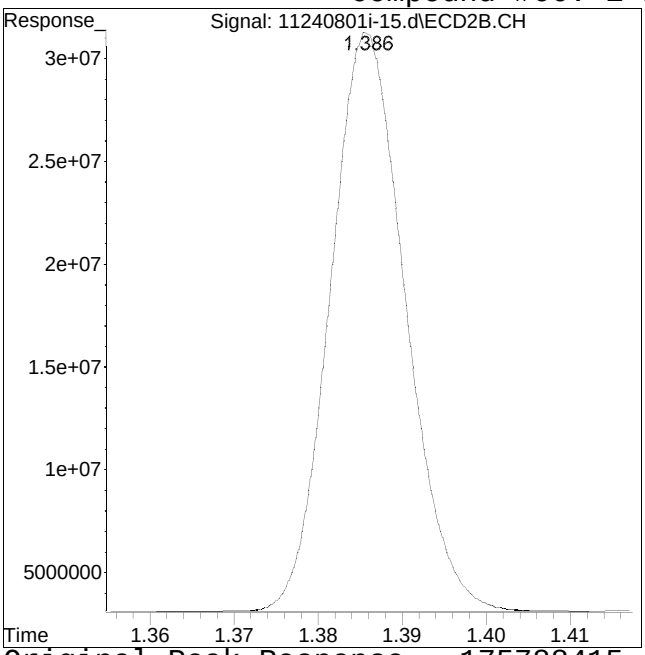


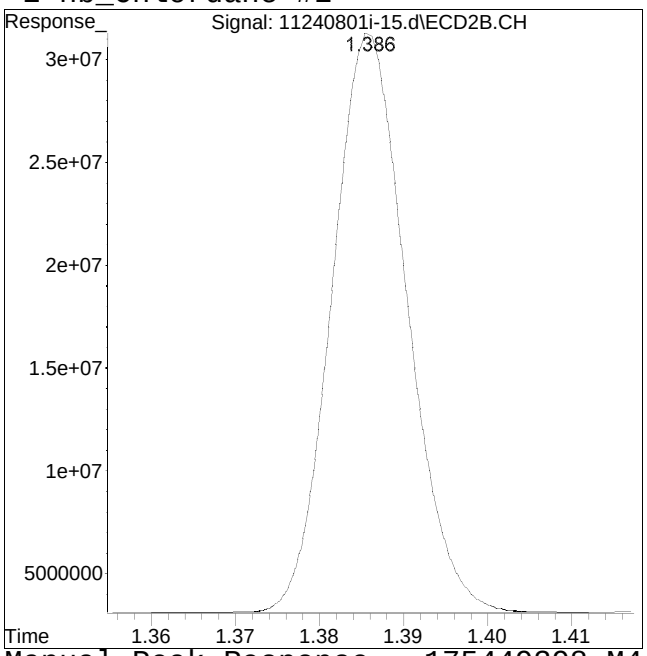
Original Peak Response = 217117709 Manual Peak Response = 215672261 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #66: 1-br-2-nb_Chlordane #2



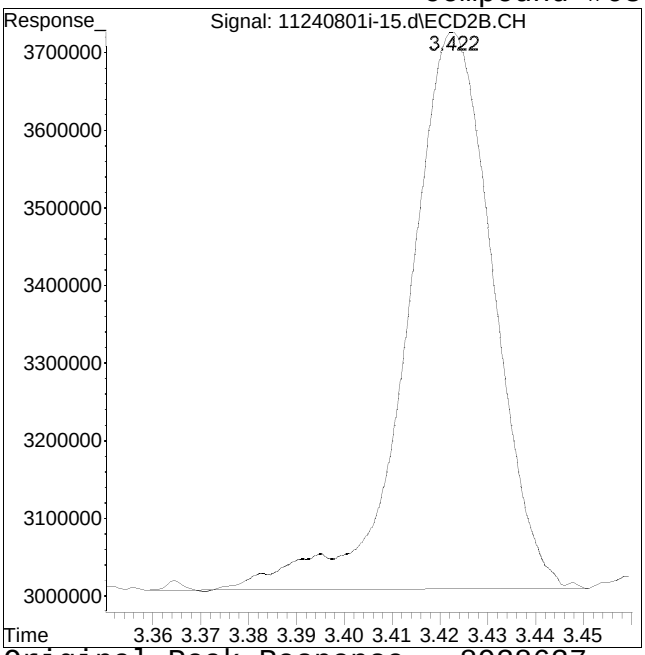


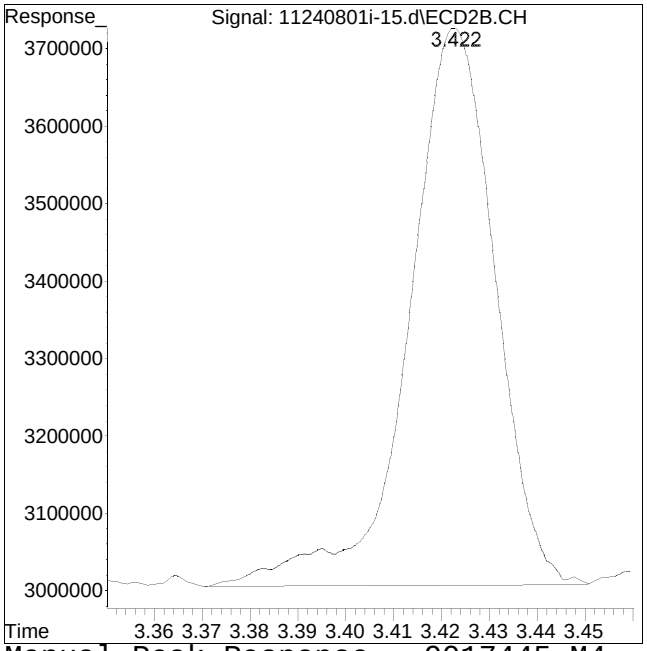
Original Peak Response = 175788415 Manual Peak Response = 175449398 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #68: chlordane-3 #2





Original Peak Response = 8938637 Manual Peak Response = 9017445 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.310	1.386	213.1E6	177.4E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	31747496	31529401	100.863	115.730
30) l1	chlordane-3	2.868	3.423	42064633	39044033	112.438M3	126.559
31) l1	chlordane-4	3.426	4.105	133.2E6	117.6E6	98.086	102.618
32) l1	chlordane-5	3.553	4.275	208.7E6	92314998	99.611	104.846
Sum	chlordane-1			415.7E6	280.5E6	NoCal	NoCal D
Average	chlordane-1					102.749	112.438
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

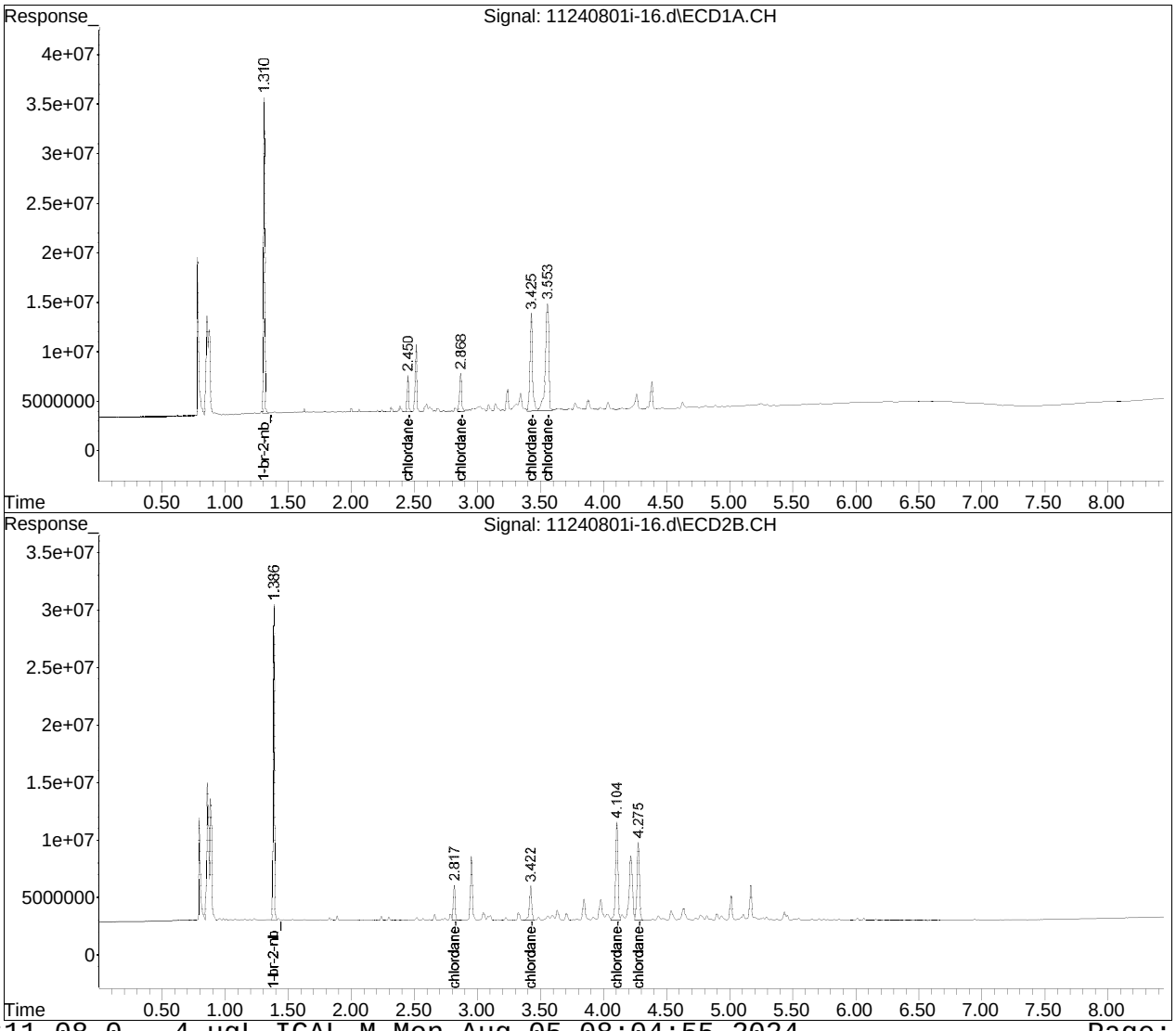
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

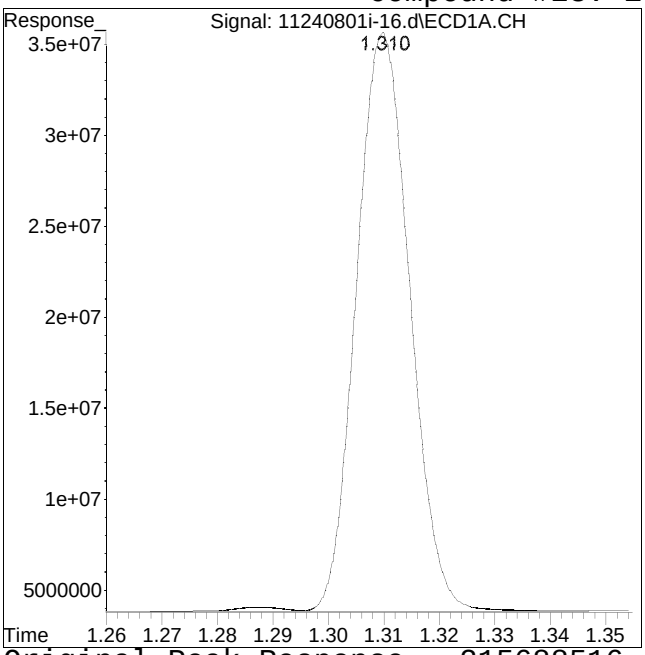


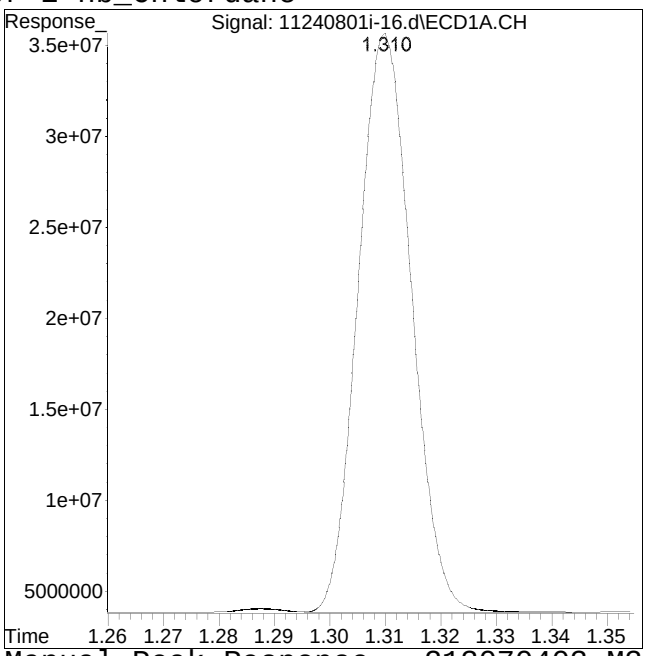
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #28: 1-br-2-nb_Chlordane



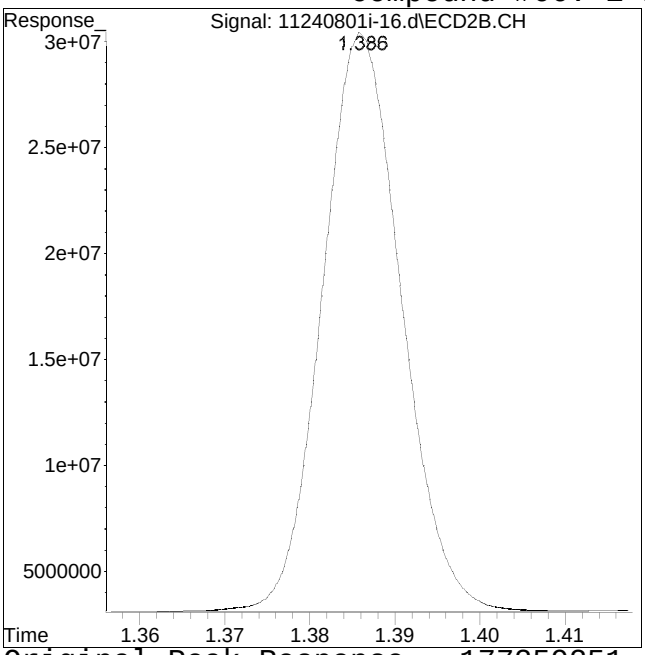


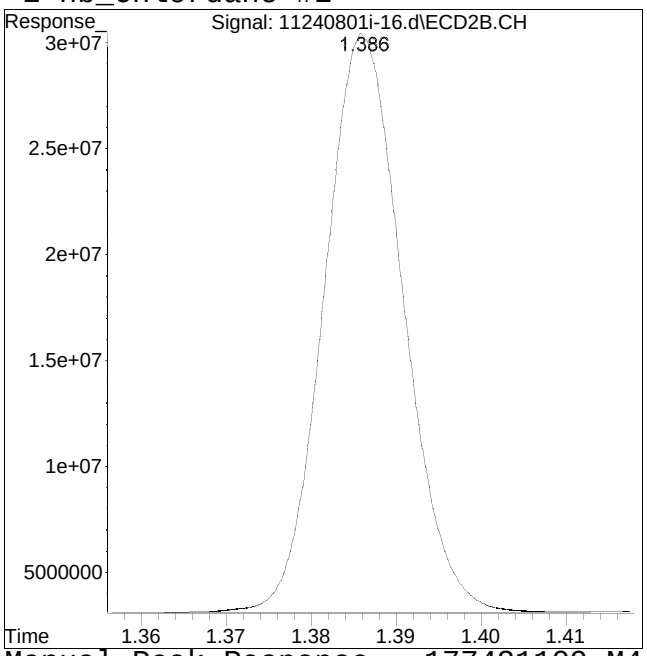
Original Peak Response = 215688516 Manual Peak Response = 213070403 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-16.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:12 Instrument : Pest 11
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/2/2024 12:10 pm

Compound #66: 1-br-2-nb_Chlordane #2



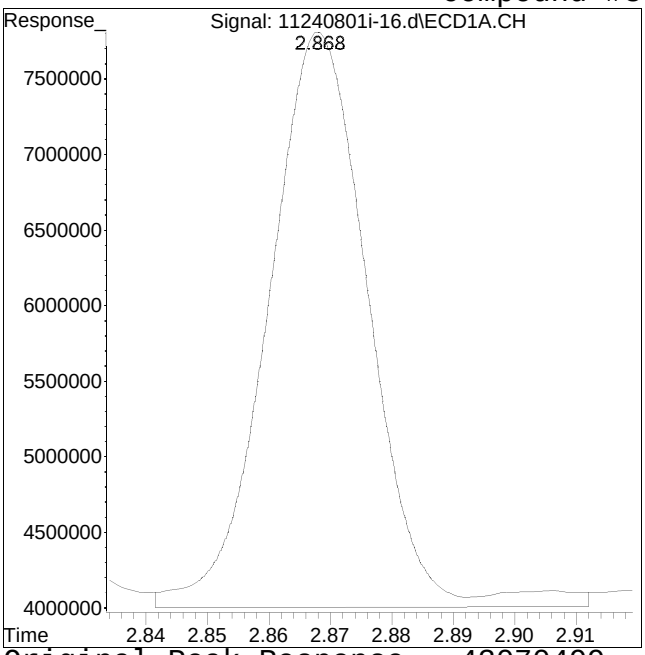


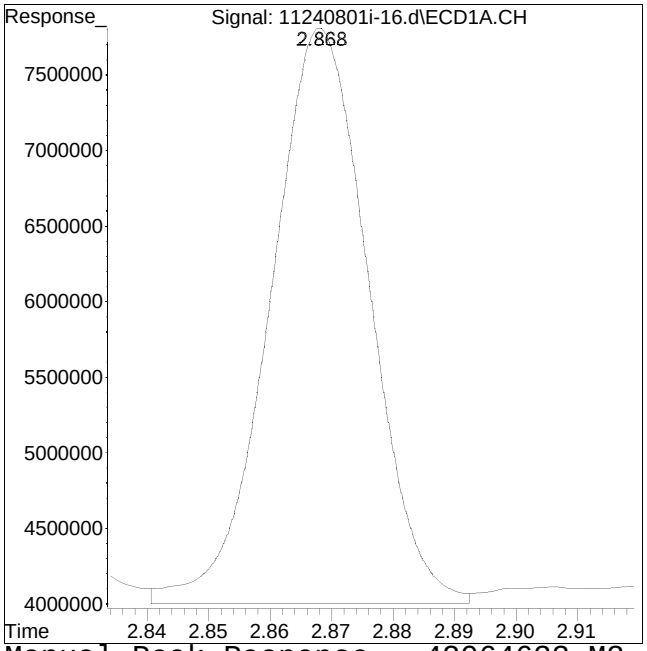
Original Peak Response = 177259251 Manual Peak Response = 177421109 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-16.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:12 Instrument : Pest 11
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/2/2024 12:10 pm

Compound #30: chlordane-3





Original Peak Response = 43070499 Manual Peak Response = 42064633 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	218.4E6	184.3E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	161.0E6	143.9E6	498.684	511.438
30) l1	chlordane-3	2.868	3.423	200.4E6	172.2E6	530.433	551.110
31) l1	chlordane-4	3.425	4.105	700.4E6	600.2E6	504.213	505.425
32) l1	chlordane-5	3.551	4.275	1089.8E6	462.7E6	510.023M3	507.838
Sum	chlordane-1			2151.6E6	1379.0E6	NoCal	NoCal D
Average	chlordane-1					510.838	518.953
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

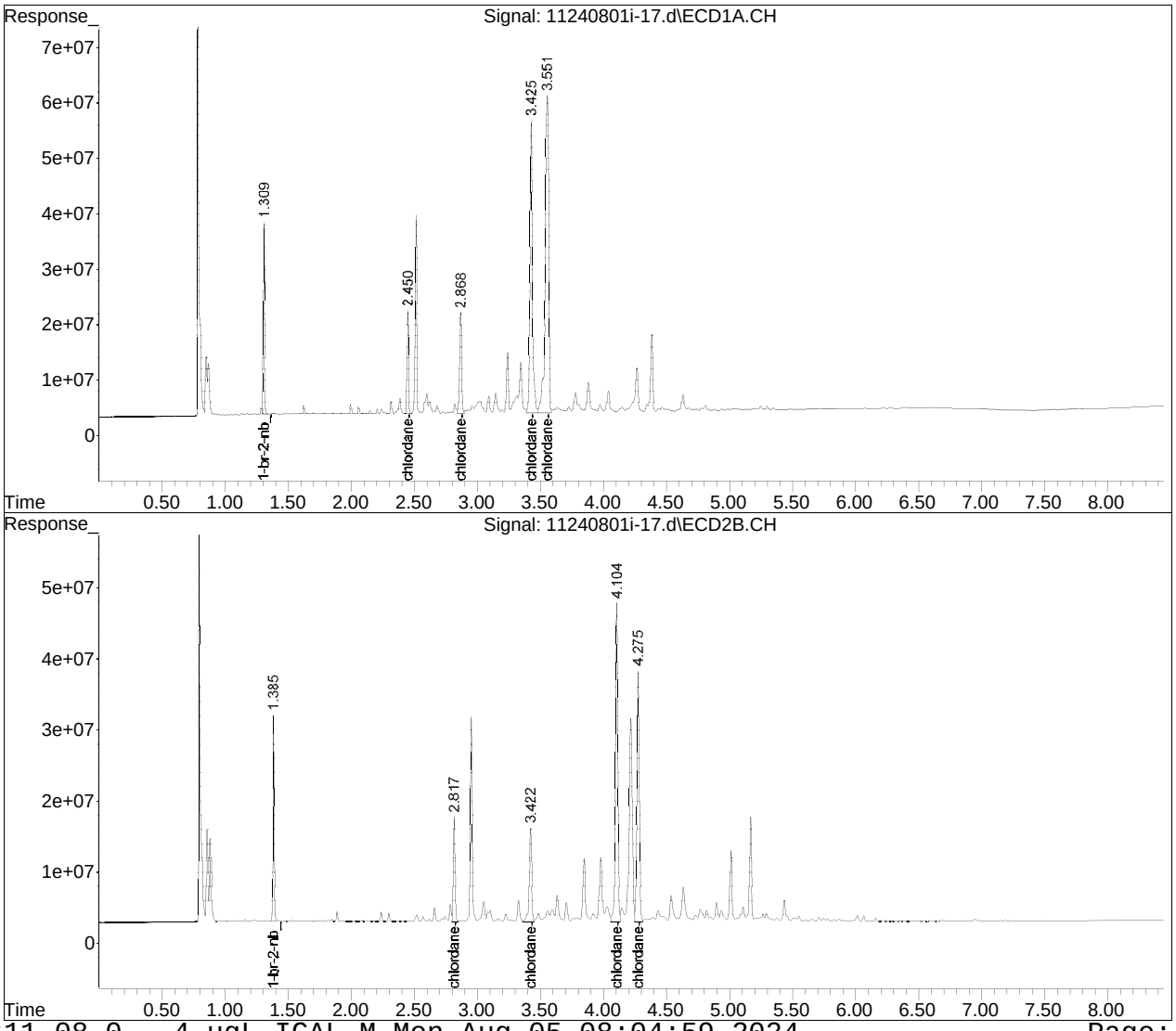
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

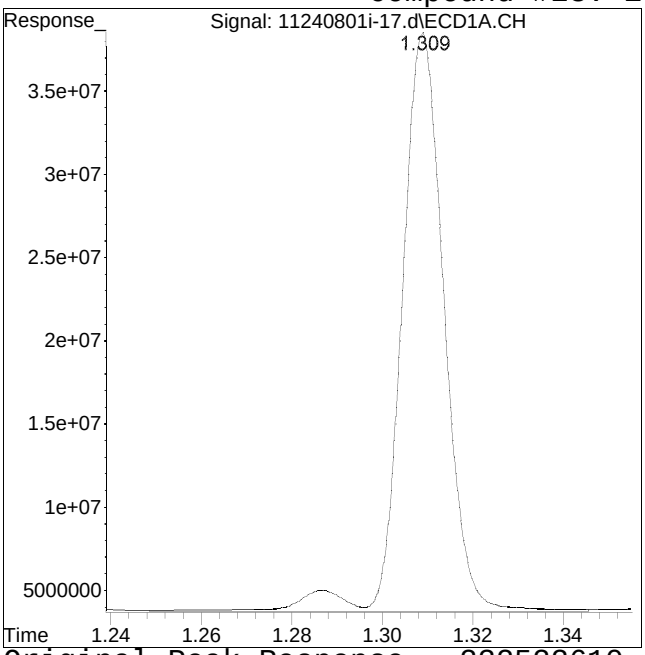
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

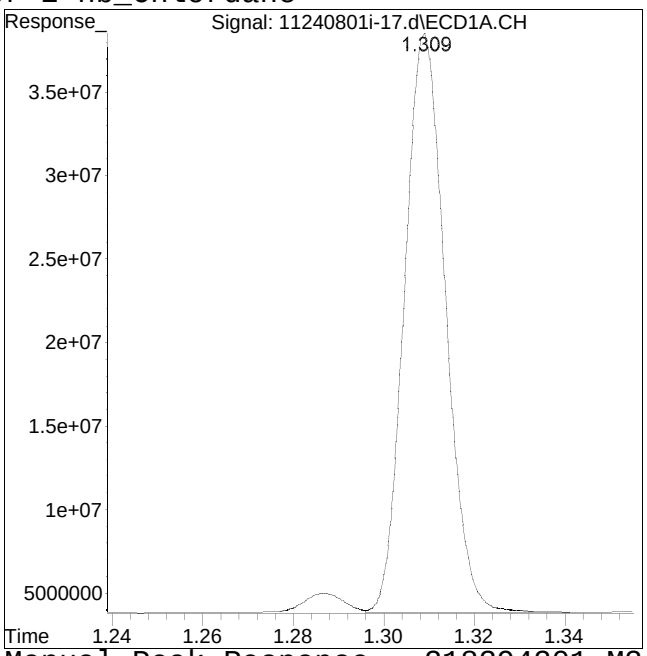


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-17.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:24 Instrument : Pest 11
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/2/2024 12:09 pm

Compound #28: 1-br-2-nb_Chlordane





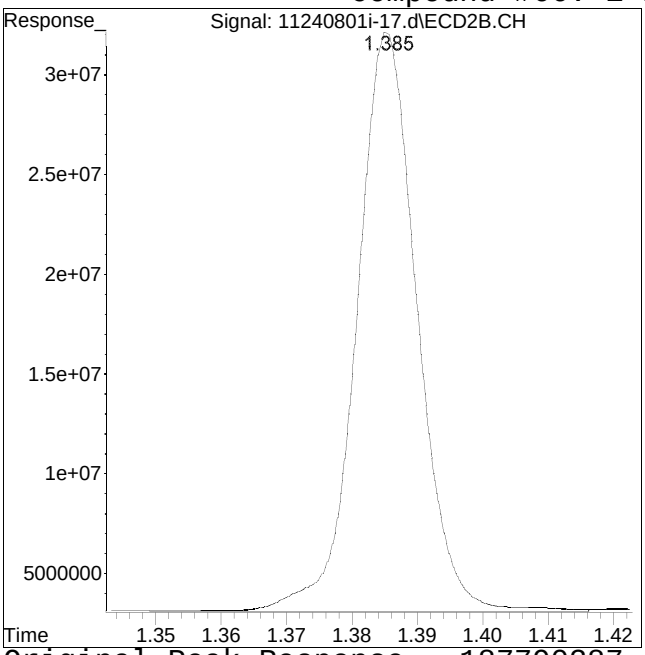
Original Peak Response = 232522610 Manual Peak Response = 218394201 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

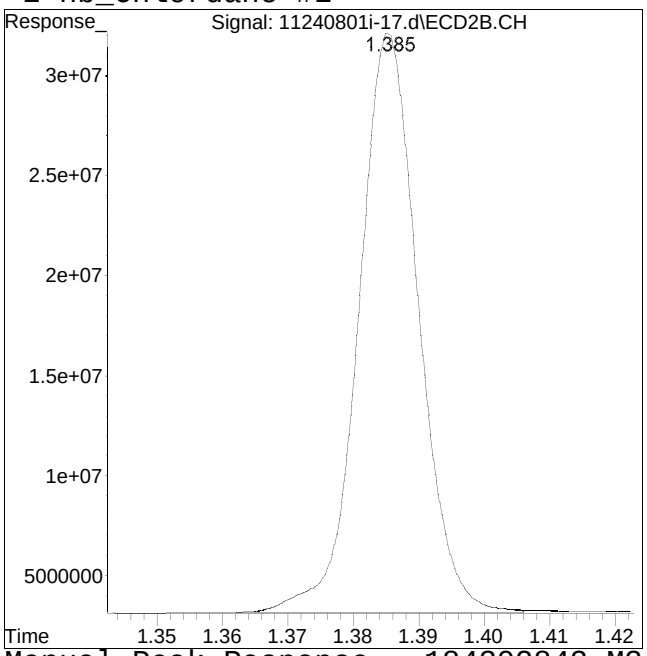
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-17.d
Date Inj'd : 8/1/2024 21:24
Sample : il7chlor,42e,,pp 11691 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:09 pm

Compound #66: 1-br-2-nb_Chlordane #2





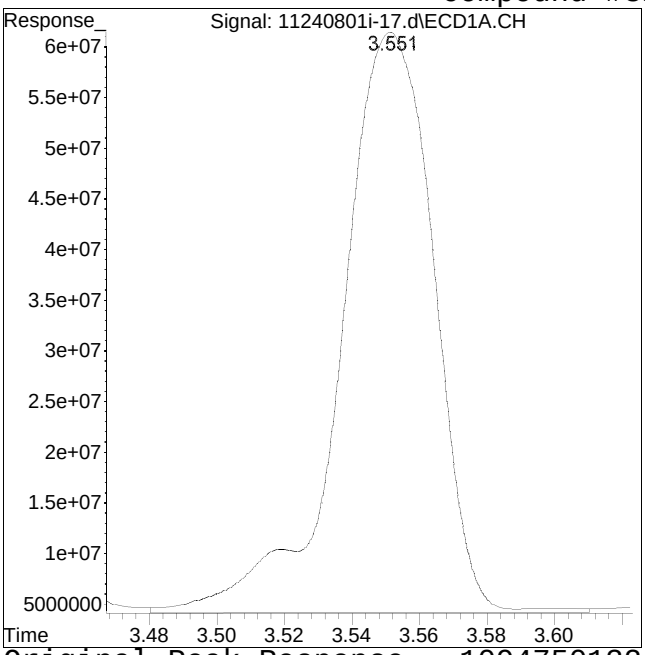
Original Peak Response = 187790387 Manual Peak Response = 184302842 M3

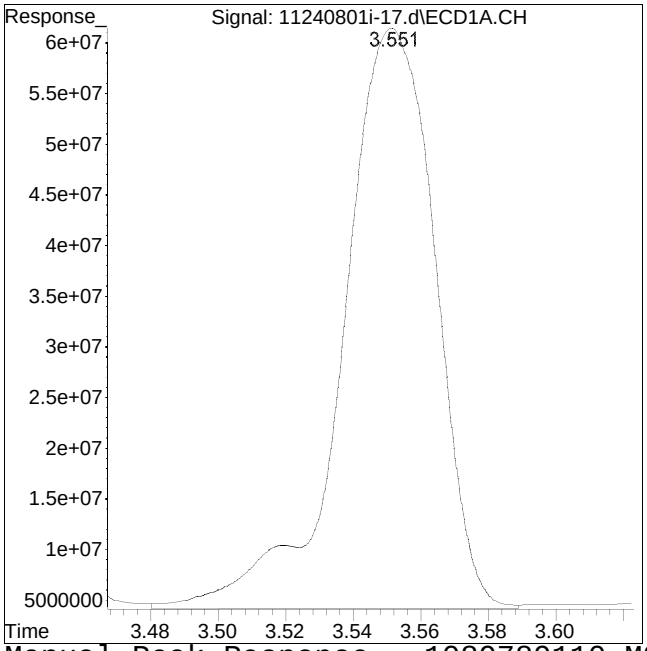
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-17.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:24 Instrument : Pest 11
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/2/2024 12:09 pm

Compound #32: chlordane-5





Original Peak Response = 1094750132 Manual Peak Response = 1089789110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	220.2E6	184.9E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	332.9E6	292.8E6	NoCal	NoCal
30) l1	chlordane-3	2.867	3.422	400.7E6	336.8E6	NoCal M3	NoCal
31) l1	chlordane-4	3.425	4.104	1449.5E6	1235.6E6	NoCal	NoCal
32) l1	chlordane-5	3.552	4.275	2241.5E6	947.4E6	NoCal M3	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

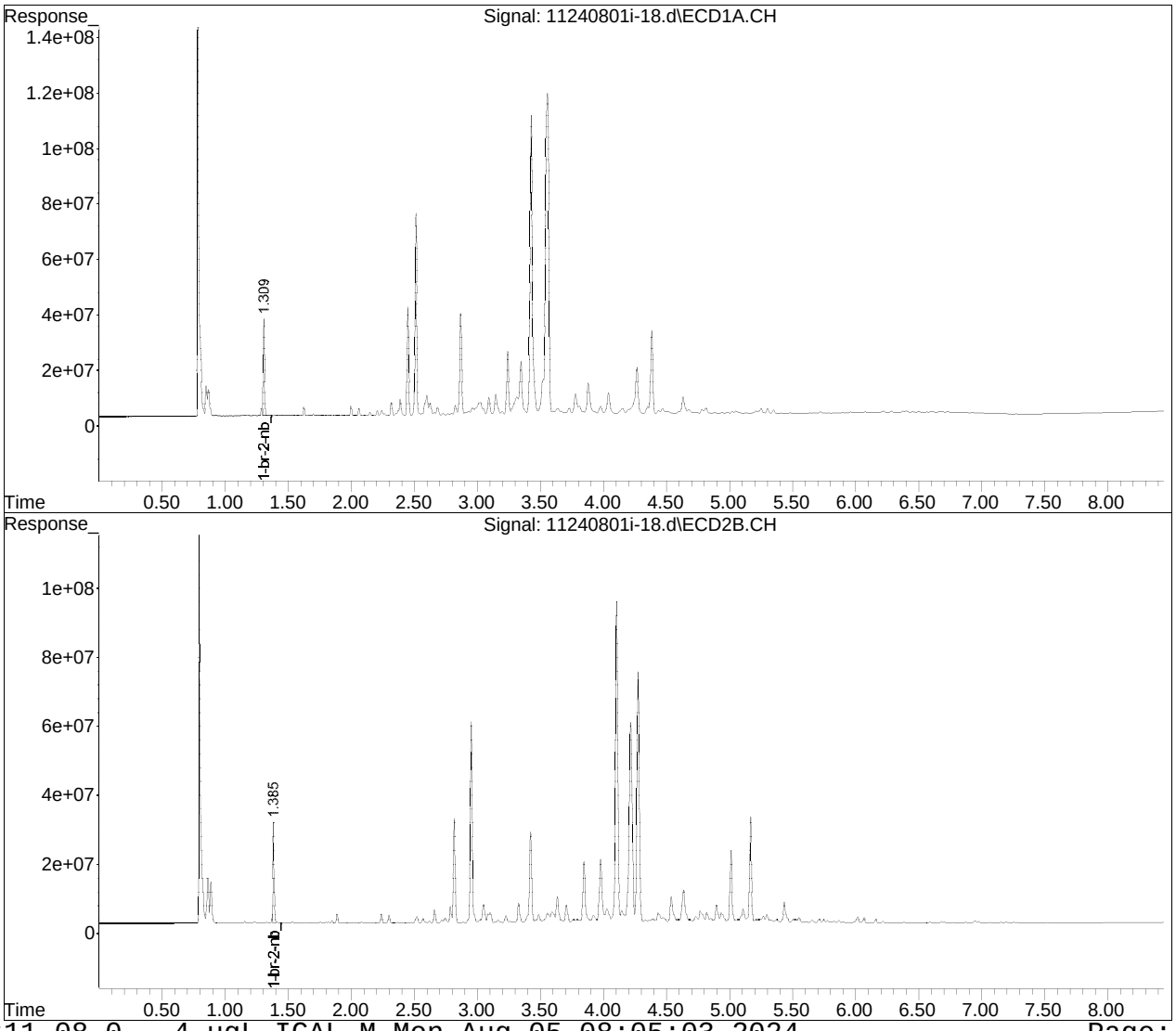
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

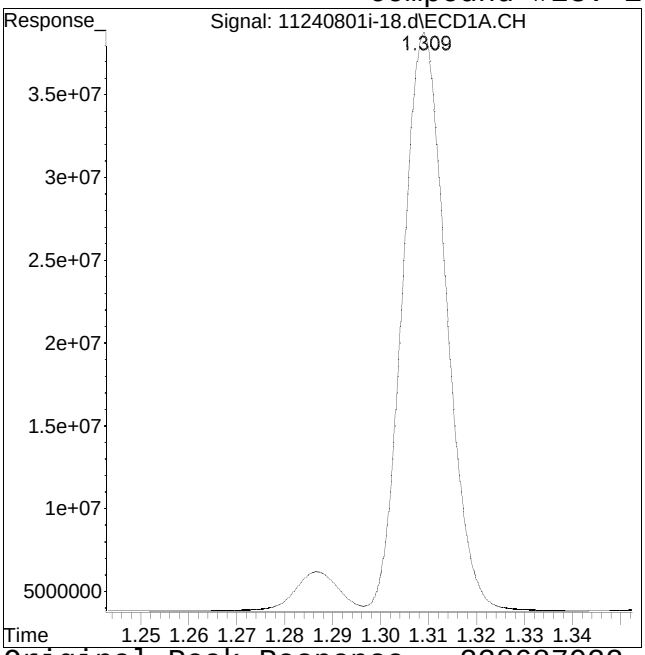
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

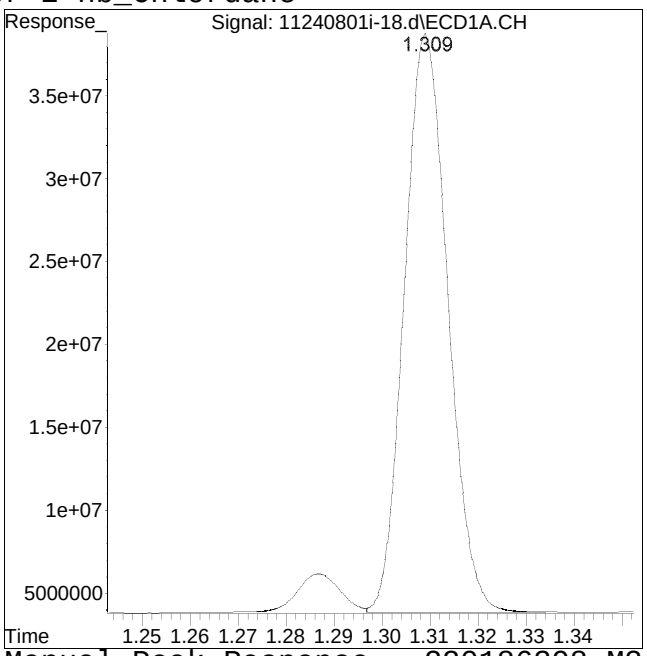


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-18.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:36 Instrument : Pest 11
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/2/2024 11:55 am

Compound #28: 1-br-2-nb_Chlordane





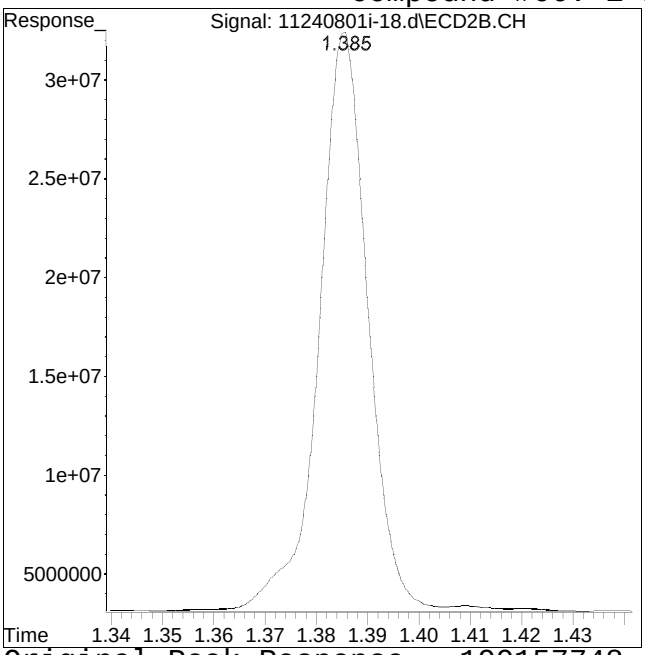
Original Peak Response = 238687922 Manual Peak Response = 220186398 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

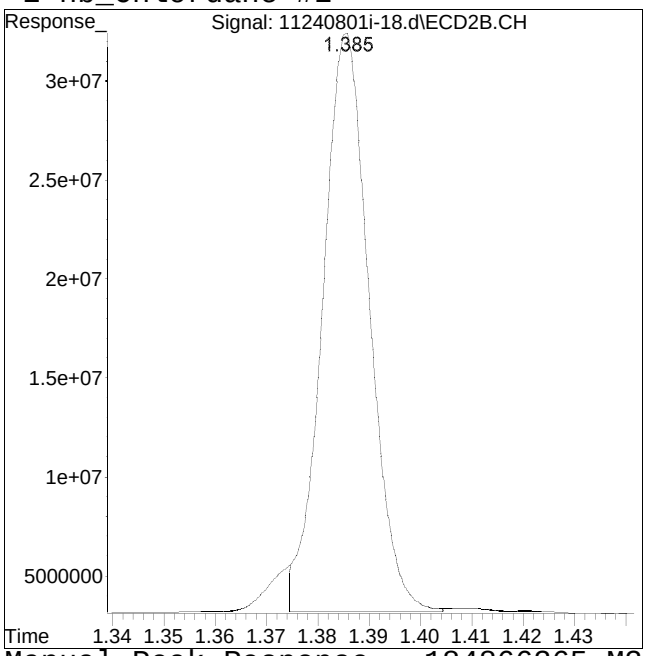
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #66: 1-br-2-nb_Chlordane #2





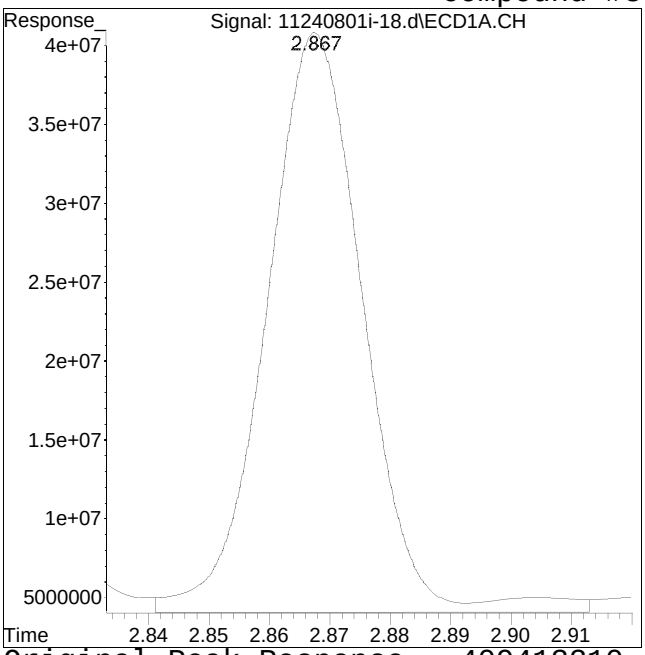
Original Peak Response = 199157748 Manual Peak Response = 184866365 M3

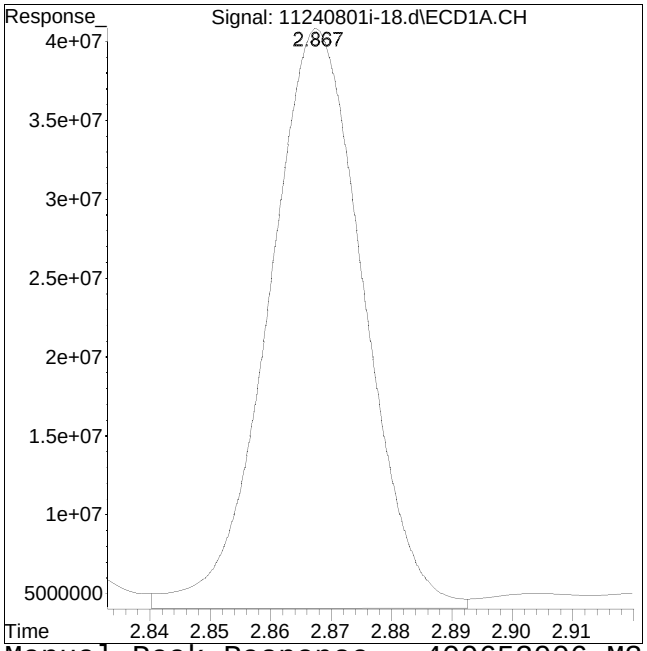
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-18.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:36 Instrument : Pest 11
Sample : il8chlor,42e,,pp 11690 L1. Quant Date : 8/2/2024 11:55 am

Compound #30: chlordane-3



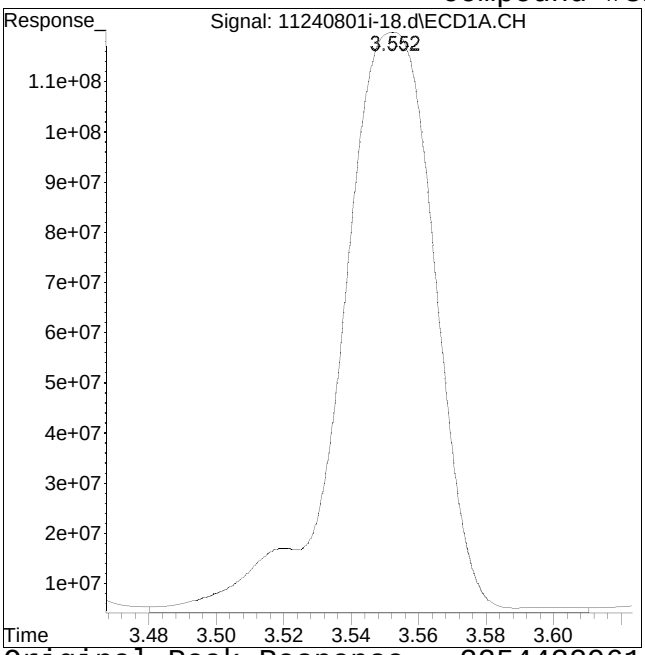


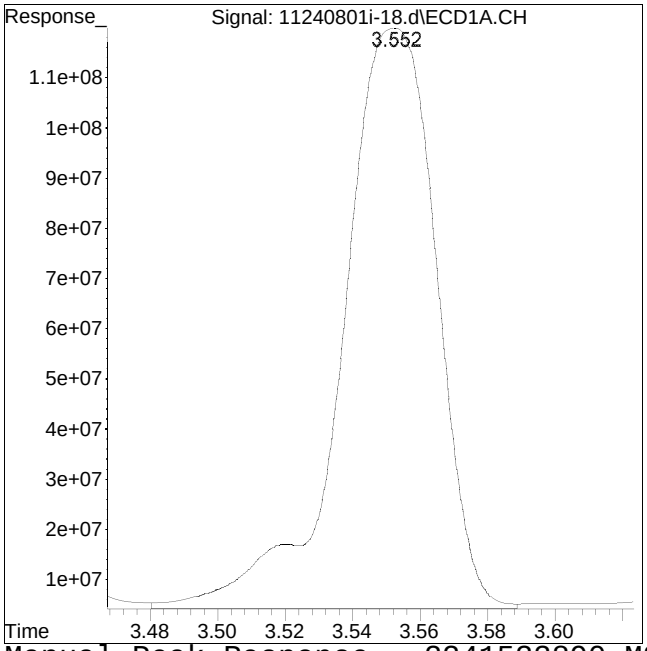
Original Peak Response = 409413310 Manual Peak Response = 400653006 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-18.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:36 Instrument : Pest 11
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/2/2024 11:55 am

Compound #32: chlordane-5





Original Peak Response = 2254432961 Manual Peak Response = 2241533890 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	225.5E6	184.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	675.3E6	585.8E6	1981.244	2009.090
30) l1	chlordane-3	2.867	3.423	788.9E6	650.4E6	1922.917M3	1939.223
31) l1	chlordane-4	3.425	4.105	2915.2E6	2486.4E6	1964.100	2020.689
32) l1	chlordane-5	3.552	4.275	4487.5E6	1905.6E6	1955.174	2019.653
Sum	chlordane-1			8866.9E6	5628.2E6	NoCal	NoCal D
Average	chlordane-1					1955.859	1997.164
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

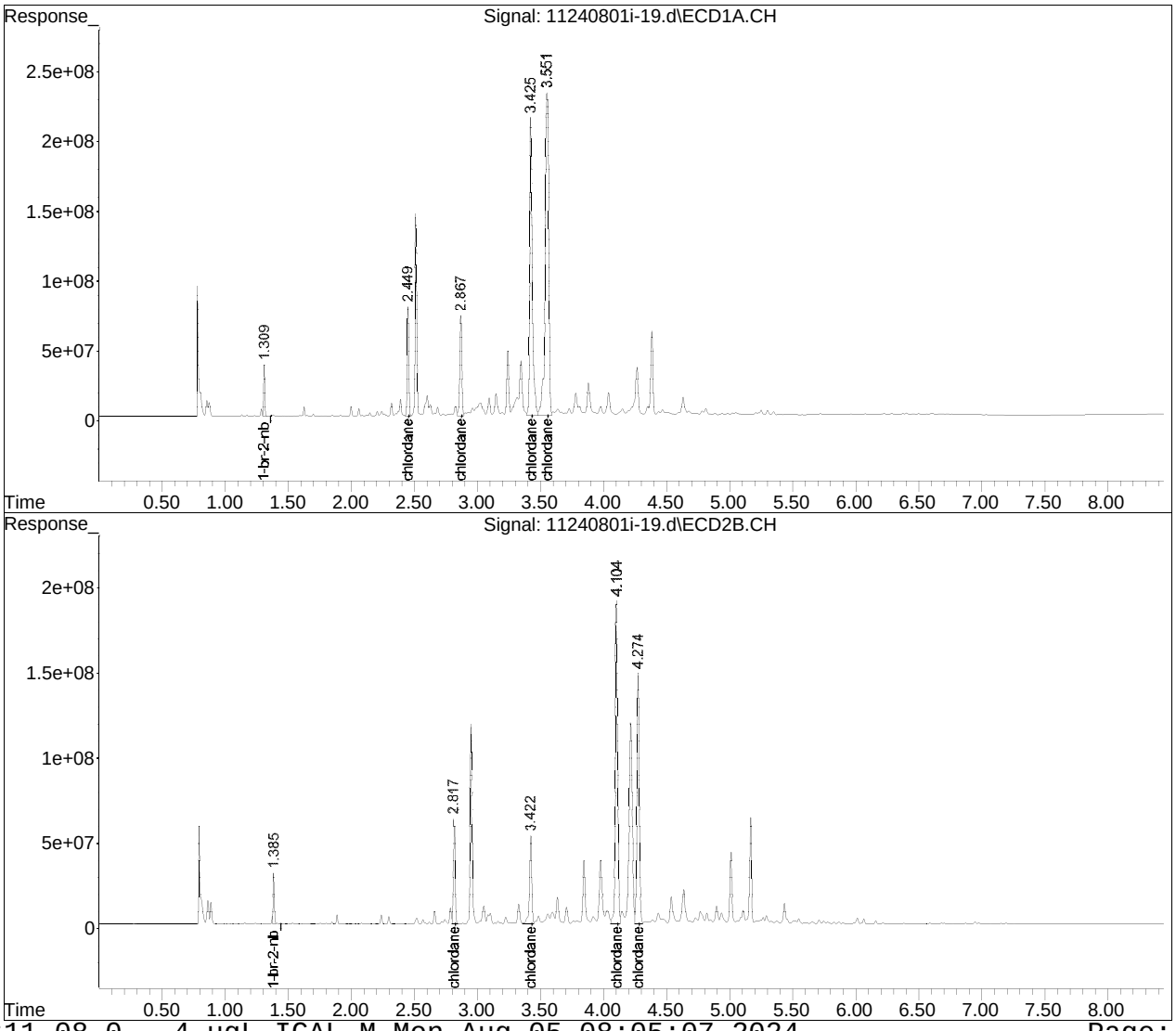
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

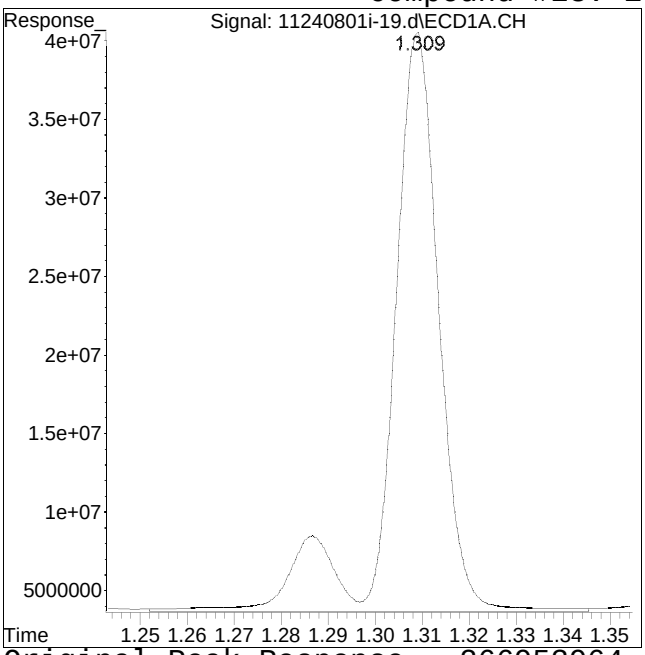
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

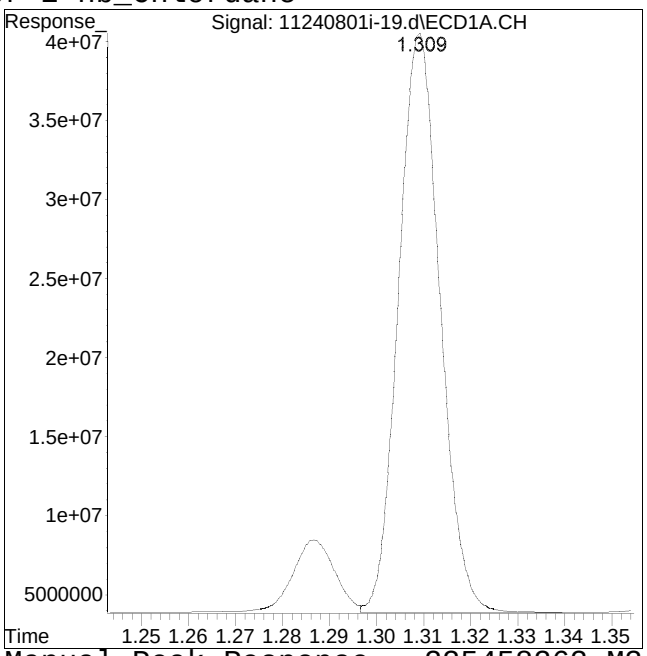


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #28: 1-br-2-nb_Chlordane





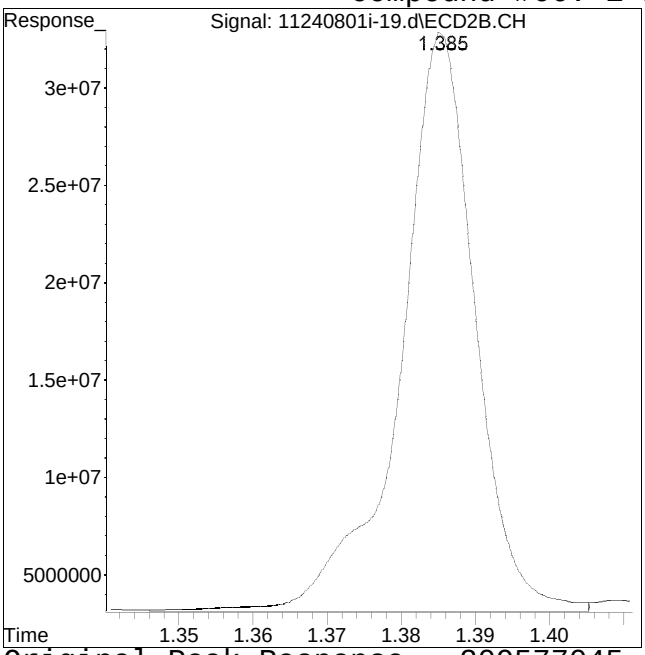
Original Peak Response = 266953964 Manual Peak Response = 225458262 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

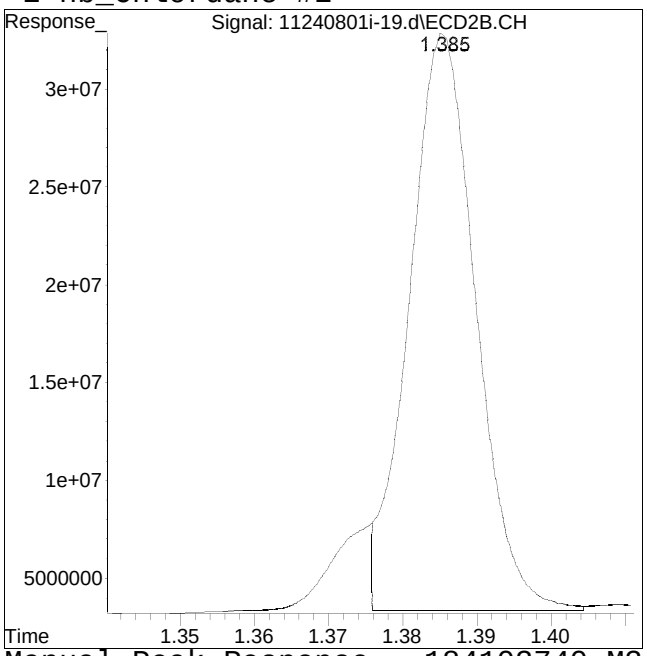
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-19.d
Date Inj'd : 8/1/2024 21:48
Sample : il9chlor,42e,,pp 11689 L2.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:06 pm

Compound #66: 1-br-2-nb_Chlordane #2





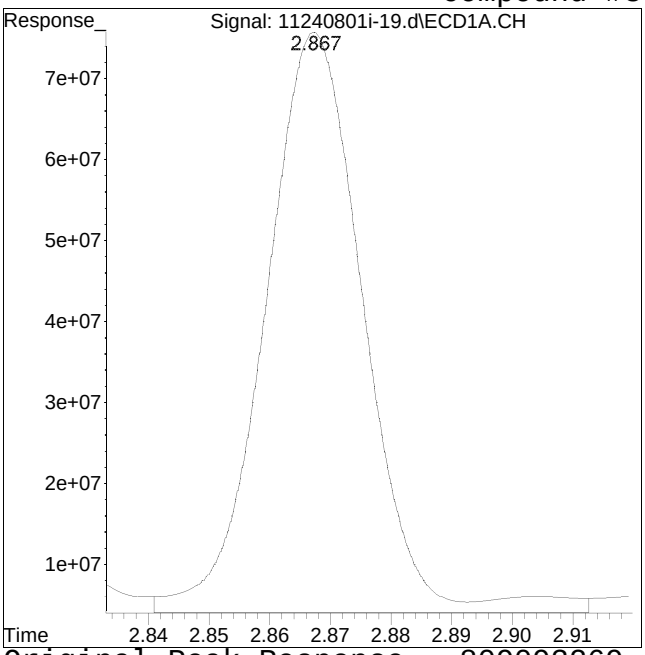
Original Peak Response = 209577045 Manual Peak Response = 184103740 M3

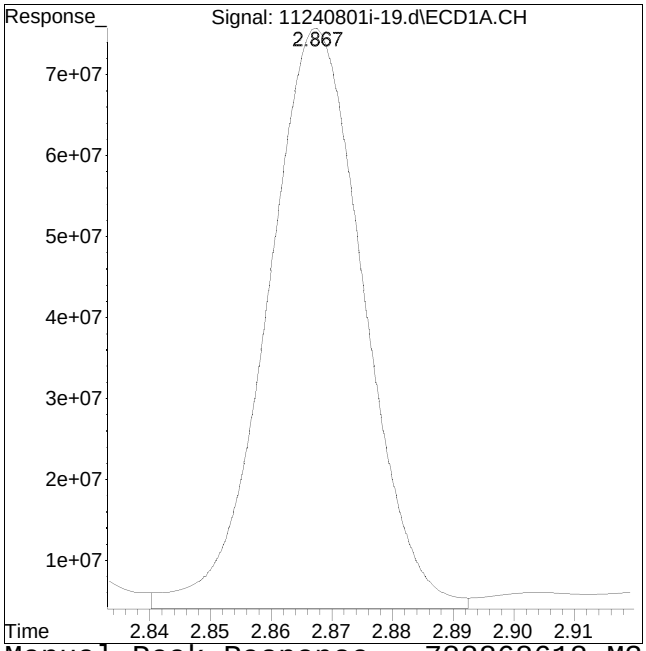
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #30: chlordane-3





Original Peak Response = 809093269 Manual Peak Response = 788868618 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	240.1E6	211.3E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	1711.0E6	1485.0E6	4735.136	4428.395
30) l1	chlordane-3	2.868	3.422	1944.4E6	1582.5E6	4537.369	4174.870
31) l1	chlordane-4	3.425	4.105	7244.9E6	6226.2E6	4624.523	4386.798
32) l1	chlordane-5	3.553	4.275	11069.4E6	4784.6E6	4579.501M3	4397.515
Sum	chlordane-1			21969.7E6	14078.2E6	NoCal	NoCal D
Average	chlordane-1					4619.132	4346.894
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

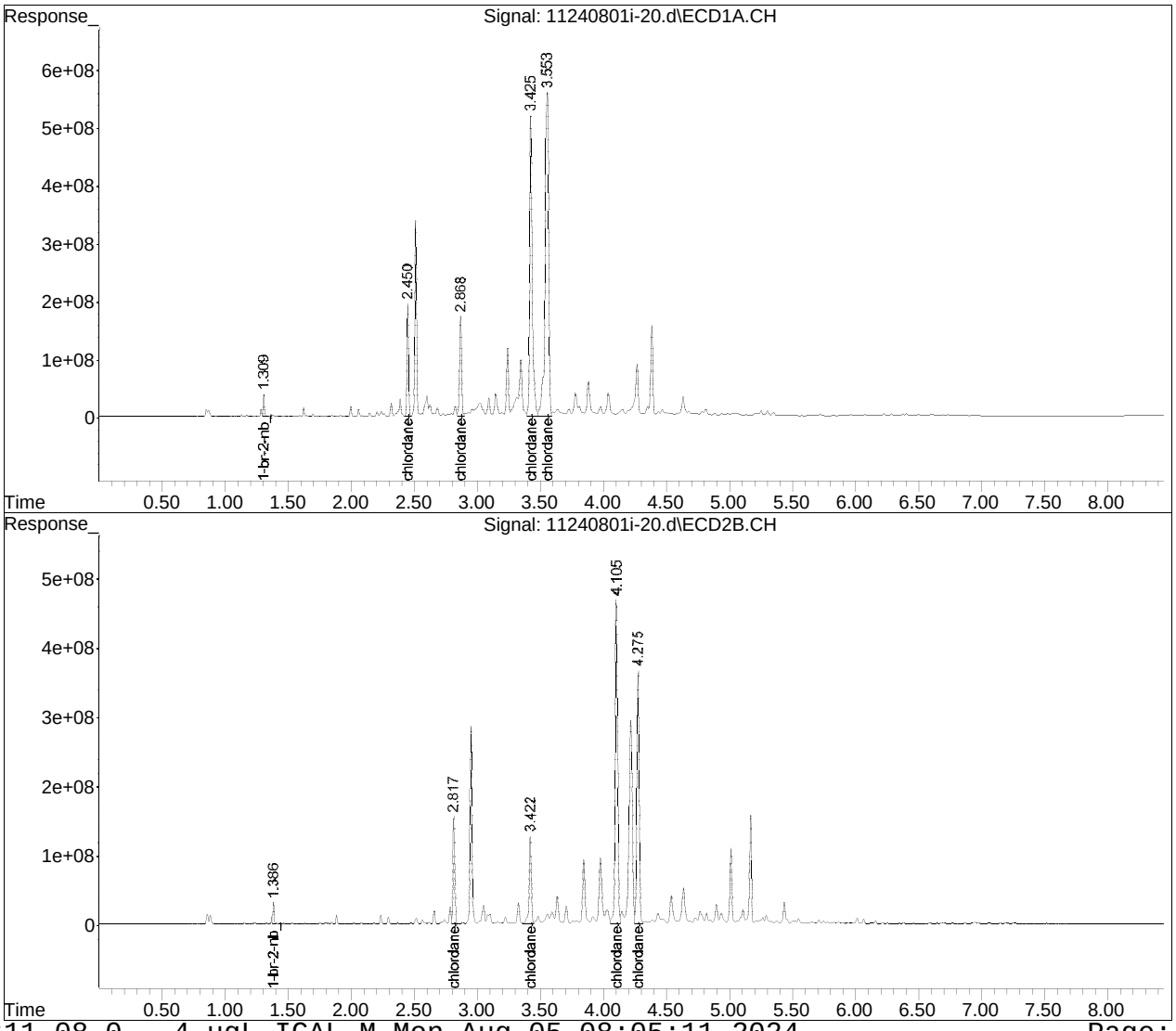
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

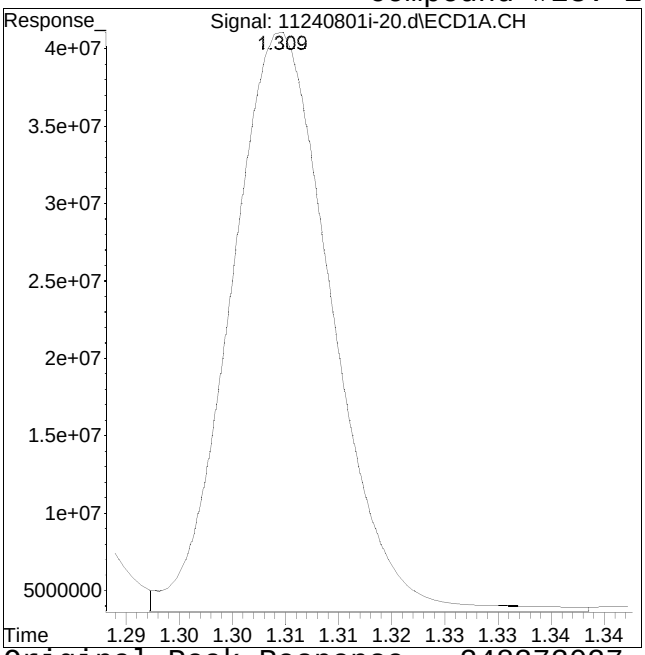


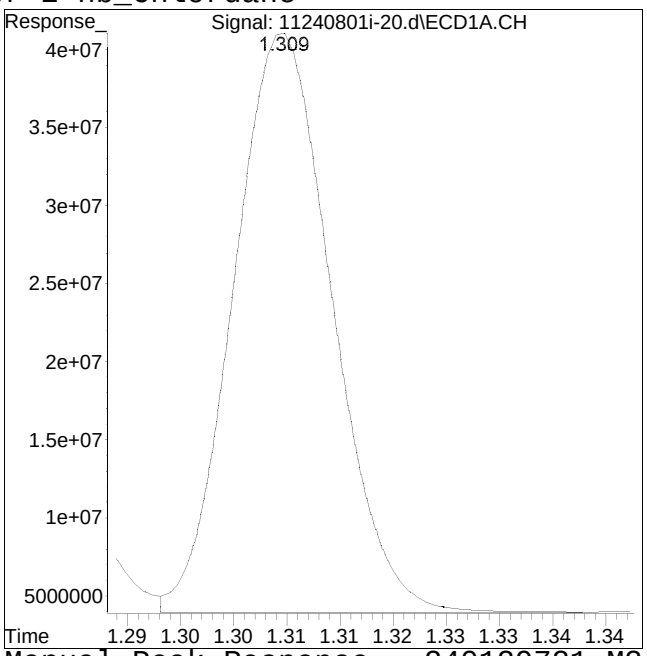
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-20.d
Date Inj'd : 8/1/2024 22:00
Sample : il10chlor,42e,,pp 11688 L5

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:07 pm

Compound #28: 1-br-2-nb_Chlordane





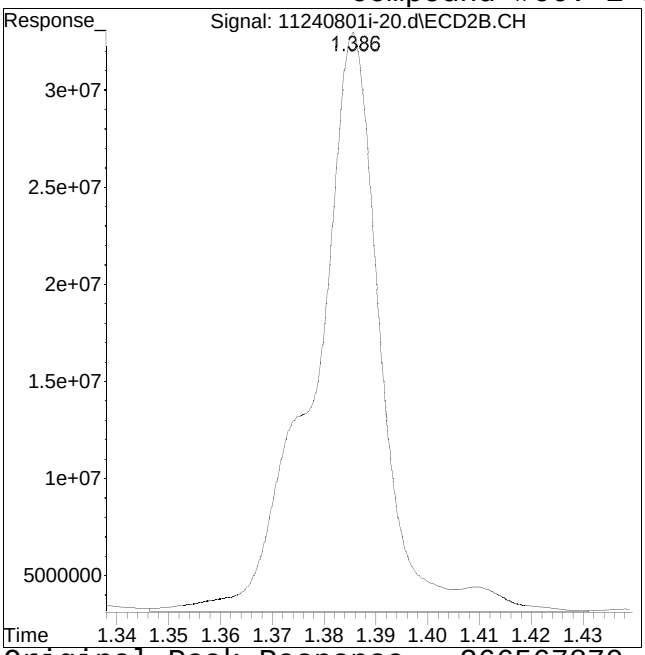
Original Peak Response = 248373027 Manual Peak Response = 240129721 M3

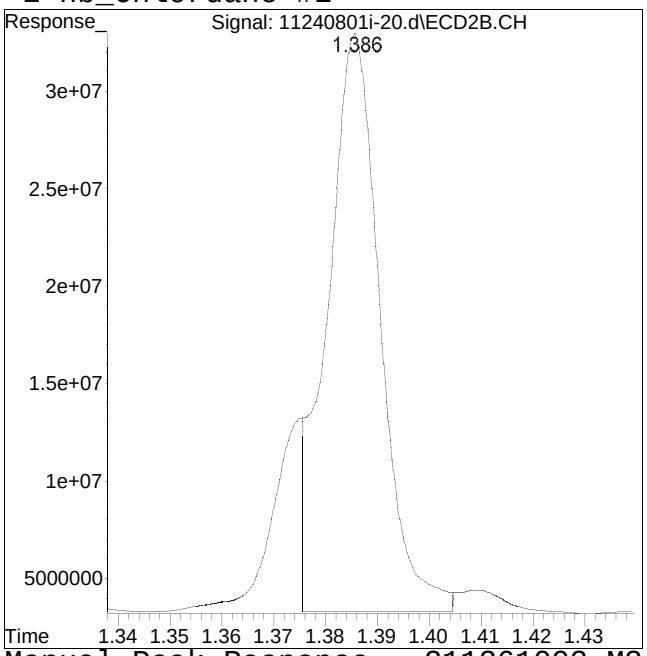
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-20.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:00 Instrument : Pest 11
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 8/2/2024 12:07 pm

Compound #66: 1-br-2-nb_Chlordane #2



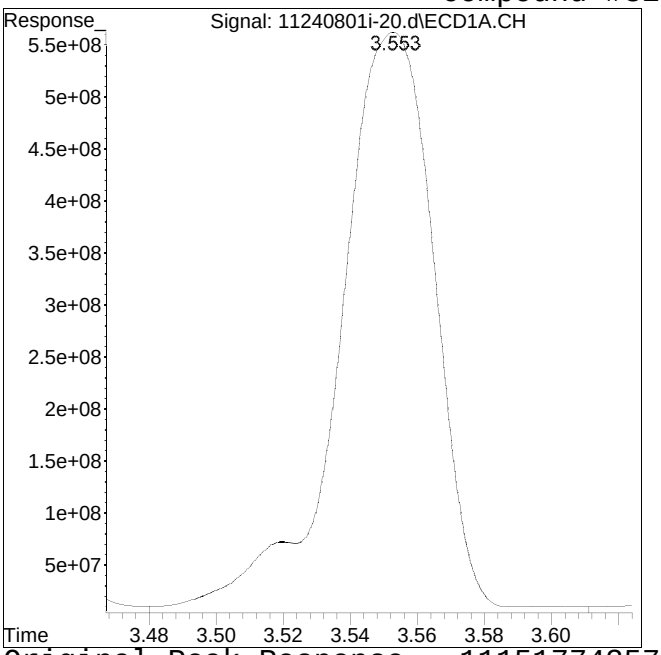


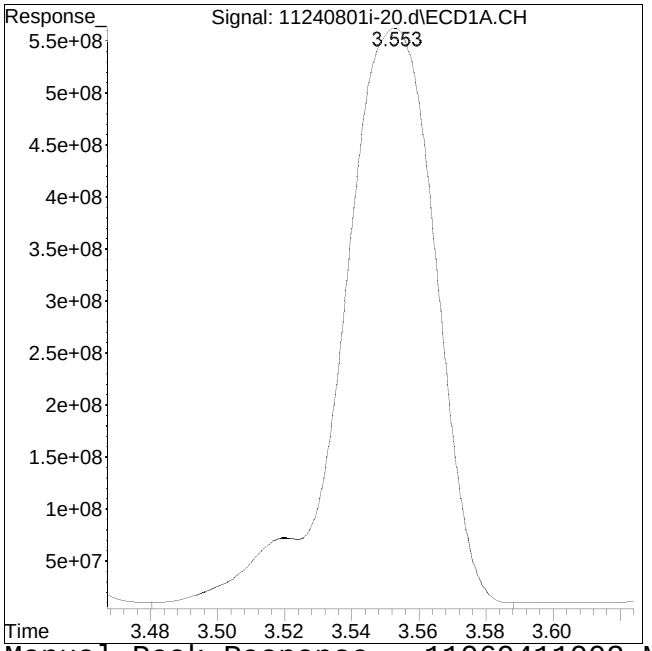
Original Peak Response = 266567870 Manual Peak Response = 211261092 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-20.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:00 Instrument : Pest 11
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 8/2/2024 12:07 pm

Compound #32: chlordane-5





Original Peak Response = 11151774357 Manual Peak Response = 11069411003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	97	0.00
29	l1	chlordane-1		*1000.000	910.442	9.0	86	0.00
30	l1	chlordane-3		*1000.000	925.102	7.5	84	0.00
31	l1	chlordane-4		*1000.000	883.809	11.6	82	0.00
32	l1	chlordane-5		*1000.000	991.186	0.9	91	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1		*1000.000	944.301	5.6	85	0.00
30	l1	chlordane-3		*1000.000	973.540	2.6	84	0.00
31	l1	chlordane-4		*1000.000	893.716	10.6	80	0.00
32	l1	chlordane-5		*1000.000	877.017	12.3	79	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.65#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.96#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.17#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.22#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.35#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.51#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.88#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.97#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.30#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.42#

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.56#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.66#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.69#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.96#
18	t	Endrin		1.153	0.000	100.0#	0#	-4.21#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.32#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.45#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.62#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.87#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-5.10#
24	t	Mirex		0.938	0.000	100.0#	0#	-5.16#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.26#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.29#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-2	*	0.050	0.000	100.0#	0#	-4.44#
35	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-4.57#
36	l2	toxaphene-4	*	0.042	0.000	100.0#	0#	-4.79#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.17#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.39#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.27#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.56#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.89#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.02#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-6.06#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.92#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.39#
34	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-3	*	0.037	0.000	100.0#	0#	-5.11#
36	l2	toxaphene-4	*	0.044	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-5	*	0.042	0.000	100.0#	0#	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	215.4E6	177.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	285.6E6	248.8E6	910.442	944.301
30) l1	chlordane-3	2.868	3.422	337.4E6	282.0E6	925.102	973.540
31) l1	chlordane-4	3.426	4.105	1185.4E6	988.3E6	883.809	893.716
32) l1	chlordane-5	3.550	4.275	2040.5E6	745.1E6	991.186	877.017
Sum	chlordane-1			3848.9E6	2264.2E6	NoCal	NoCal D
Average	chlordane-1					927.635	922.144
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

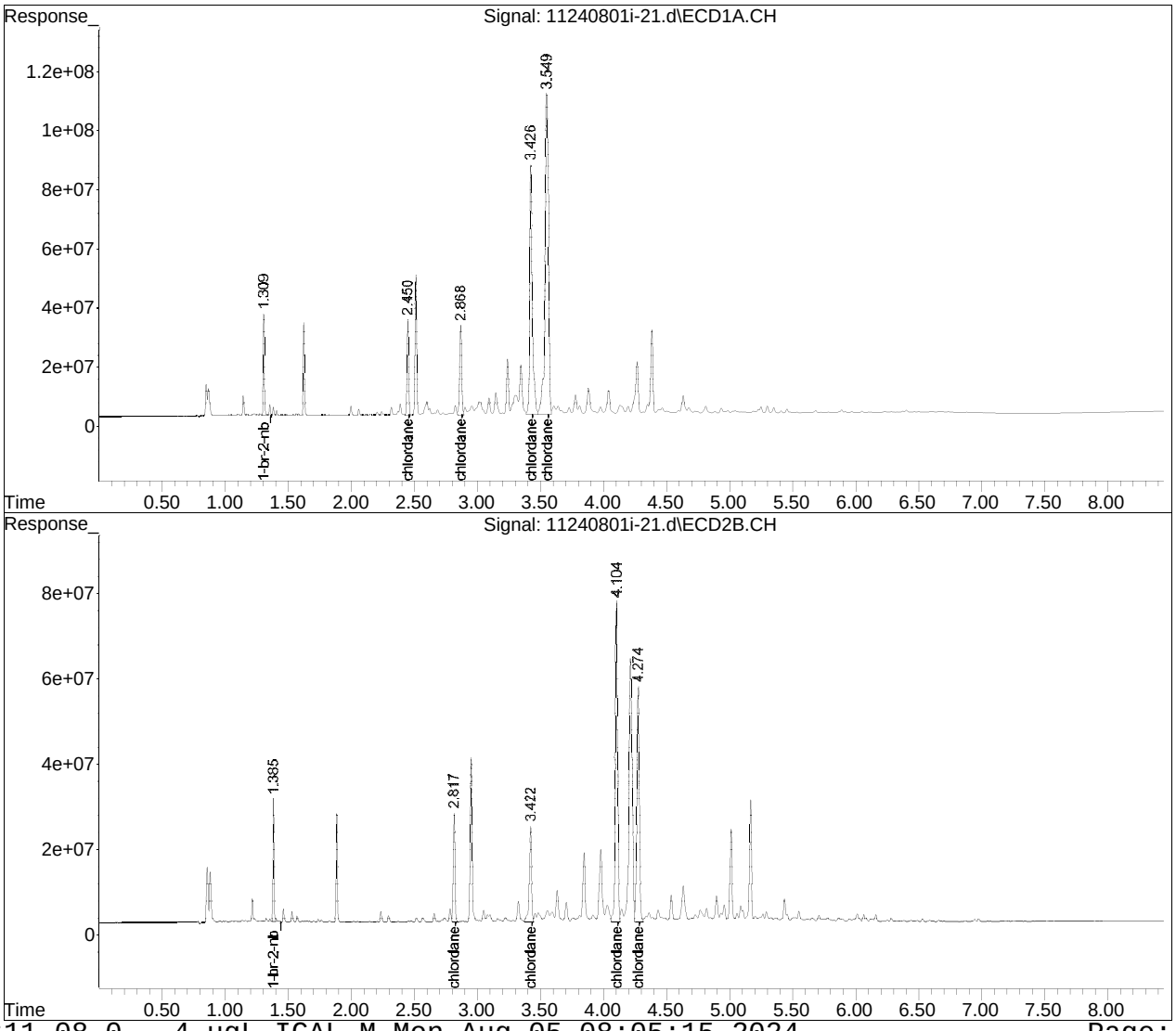
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

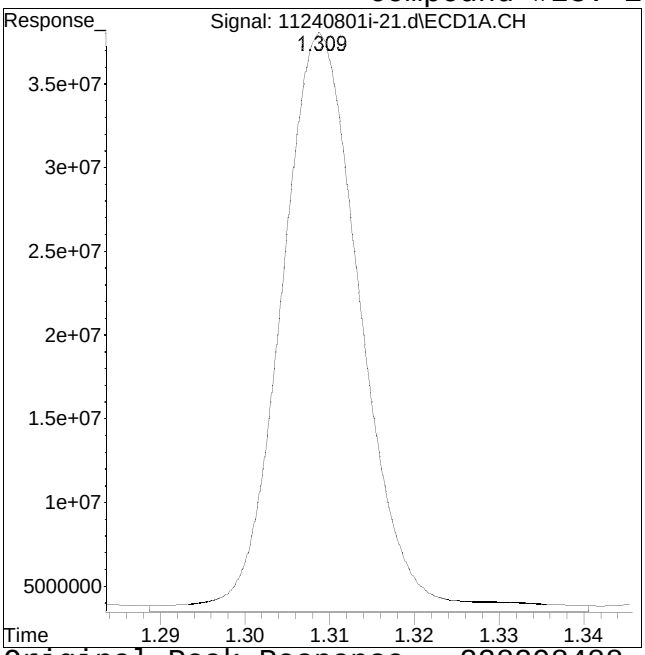
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

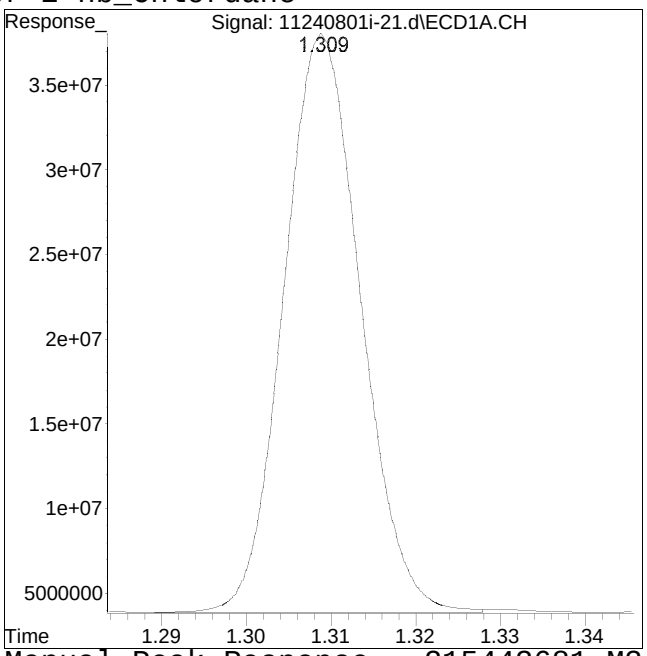


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-21.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:12 Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/2/2024 12:16 pm

Compound #28: 1-br-2-nb_Chlordane



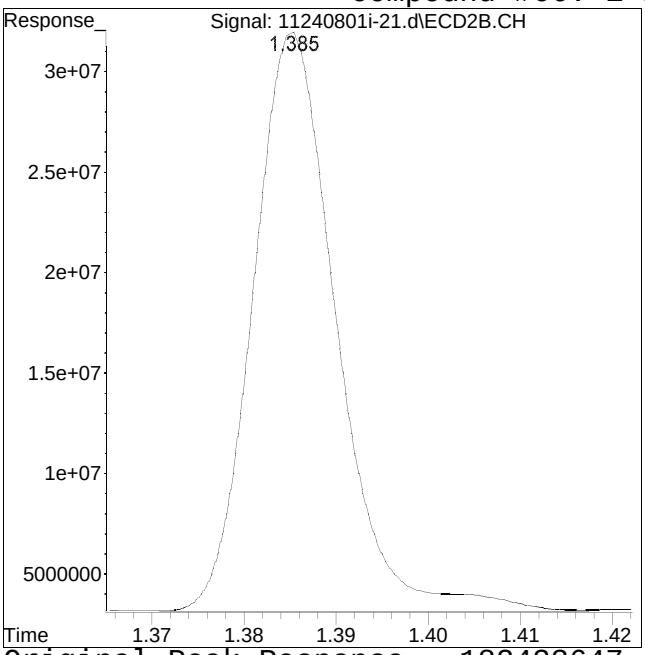


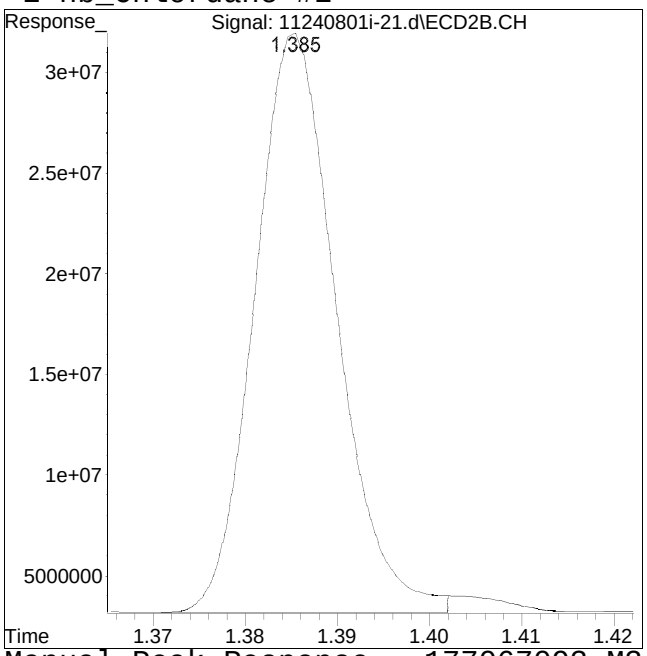
Original Peak Response = 228298488 Manual Peak Response = 215443681 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-21.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:12 Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/2/2024 12:16 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 182433647 Manual Peak Response = 177067093 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	207.9E6	171.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13) t	gamma-Chlord	0.000	0.000	0	0	N.D.	N.D.
14) t	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	6298815	3783276	14.276	22.443
35) l2	toxaphene-3	4.566	5.112	5311161	5766534	15.580	23.257
36) l2	toxaphene-4	4.792	5.429	6754862	6780894	19.276M3	23.080
37) l2	toxaphene-5	5.168	5.836	8888706	6922230	26.745M4	25.343
Sum	toxaphene-2			27253545	23252934	75.878	94.123
Average	toxaphene-2					18.970	23.531

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			27253545	23252934	75.878	94.123
Average	toxaphene-2					18.970	23.531

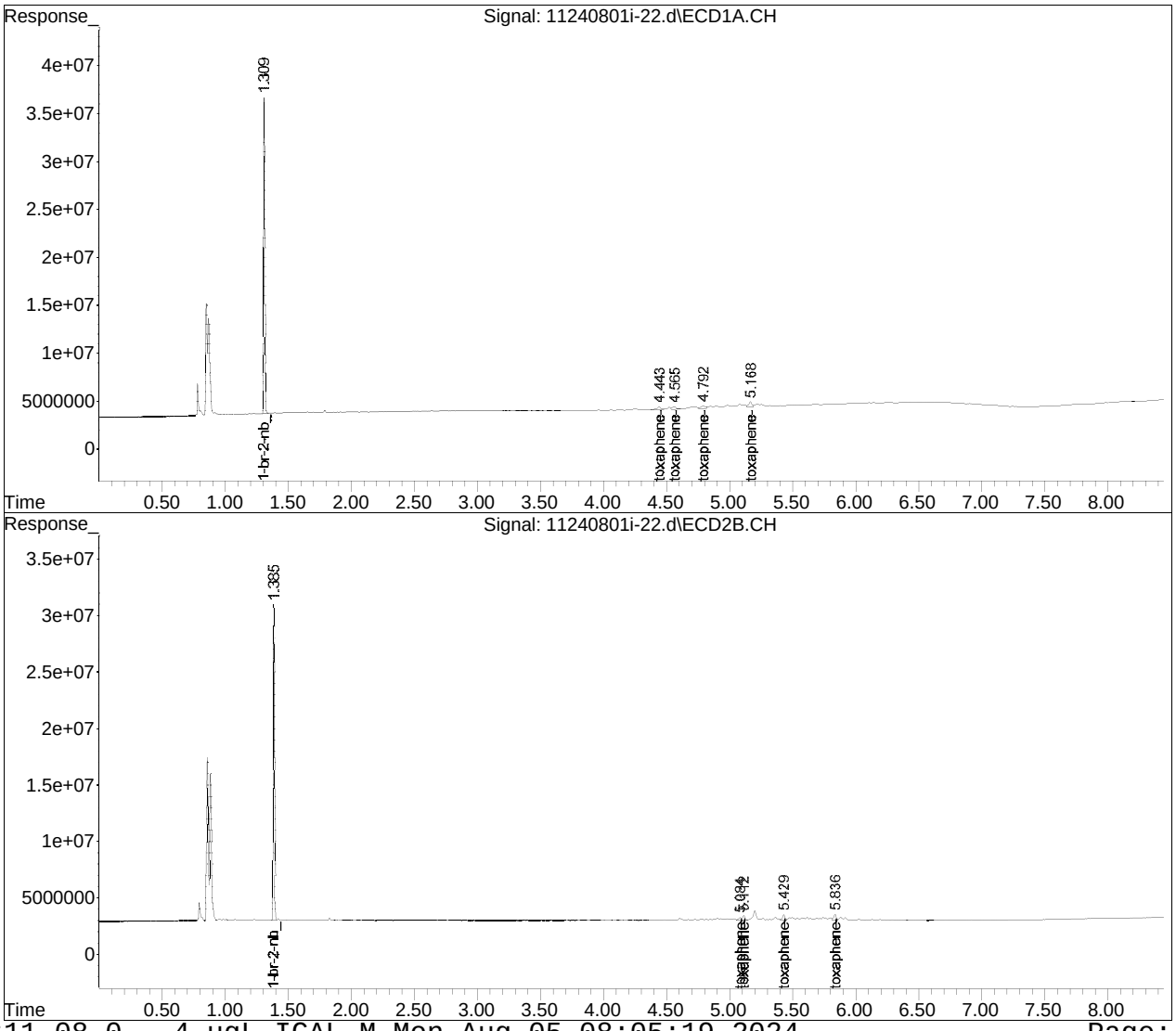
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

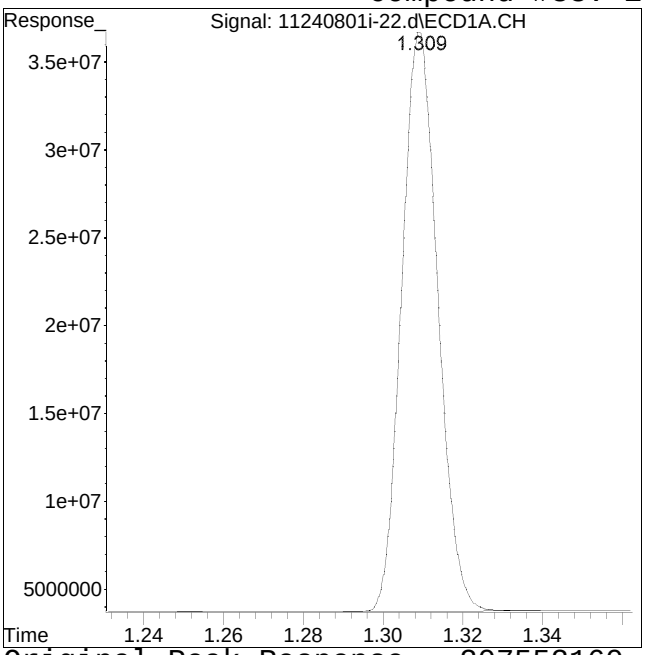


Manual Integration Report

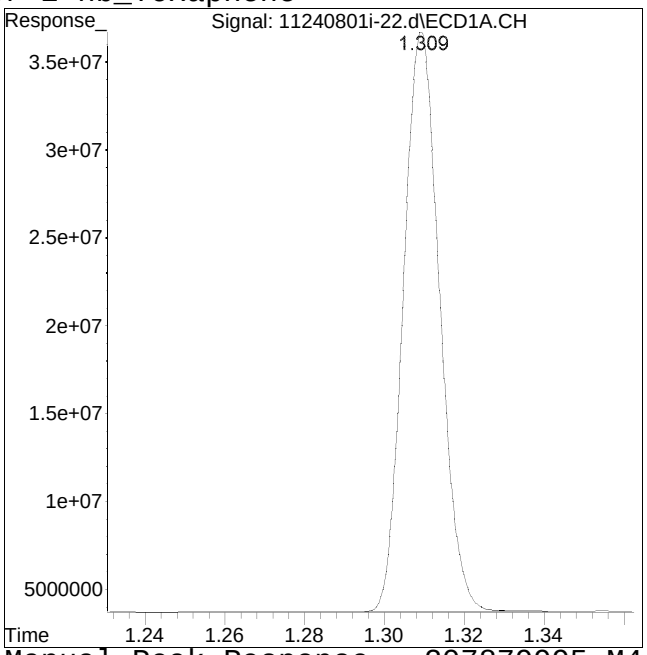
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 207552160



Manual Peak Response = 207879995 M4

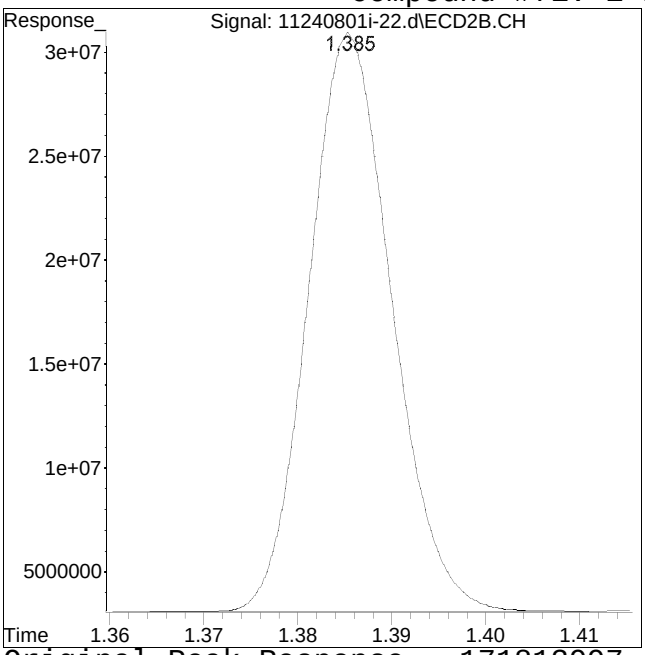
M4 = Poor automated baseline construction.

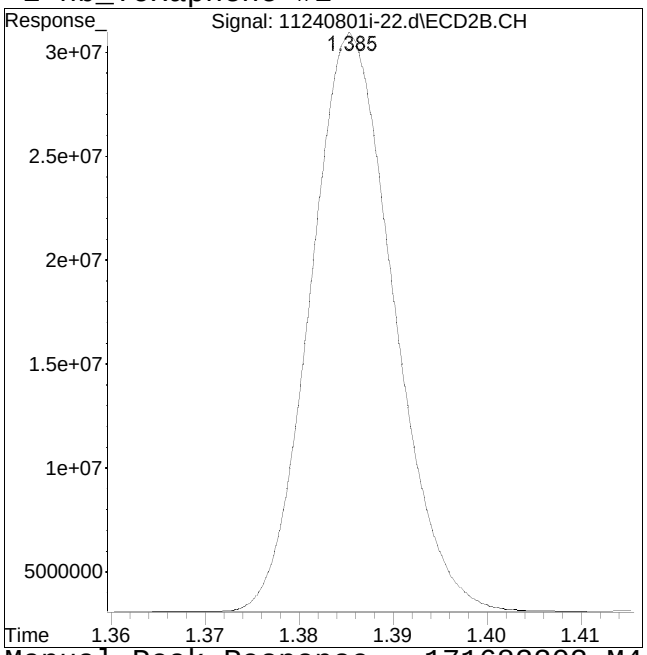
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #71: 1-br-2-nb_Toxaphene #2





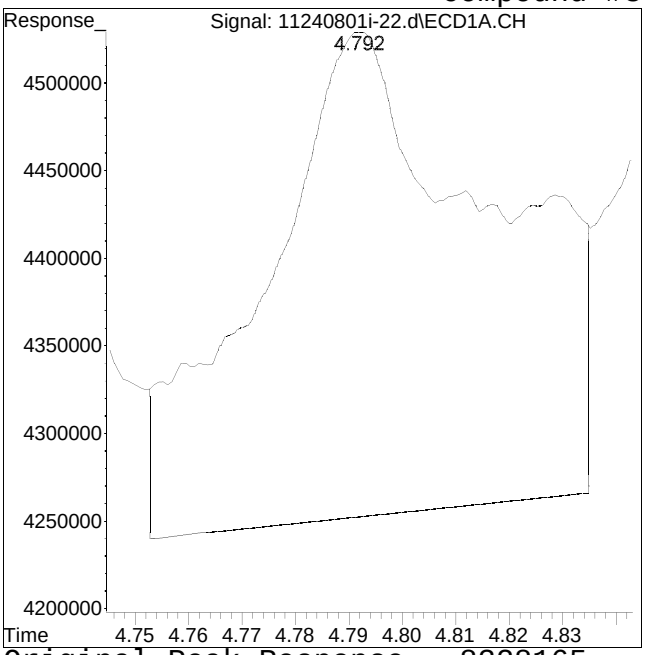
Original Peak Response = 171813997 Manual Peak Response = 171683302 M4
M4 = Poor automated baseline construction.

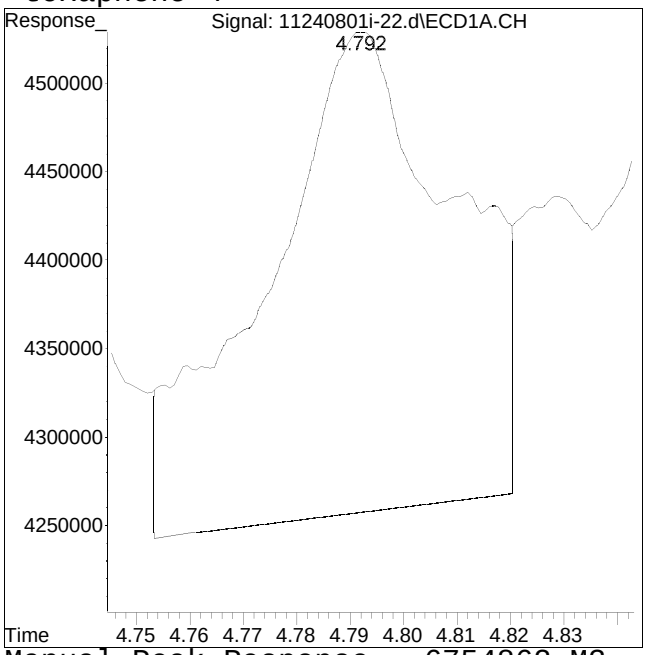
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #36: toxaphene-4





Original Peak Response = 8328165 Manual Peak Response = 6754862 M3

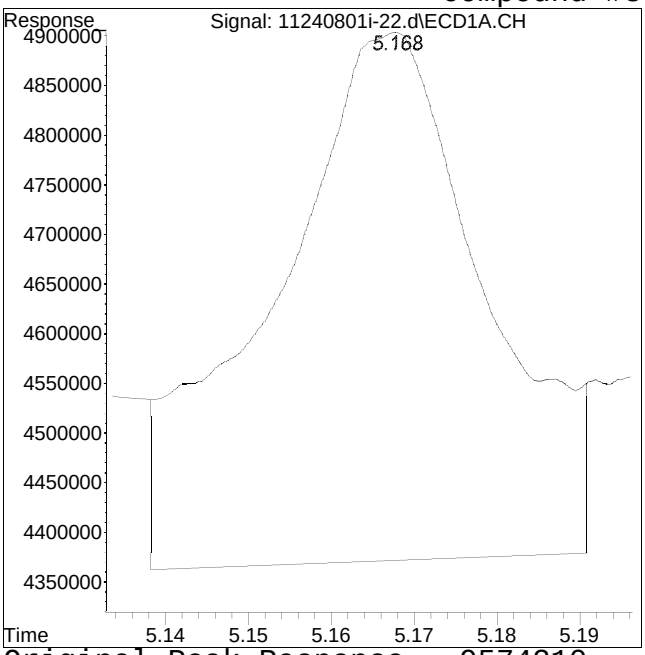
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

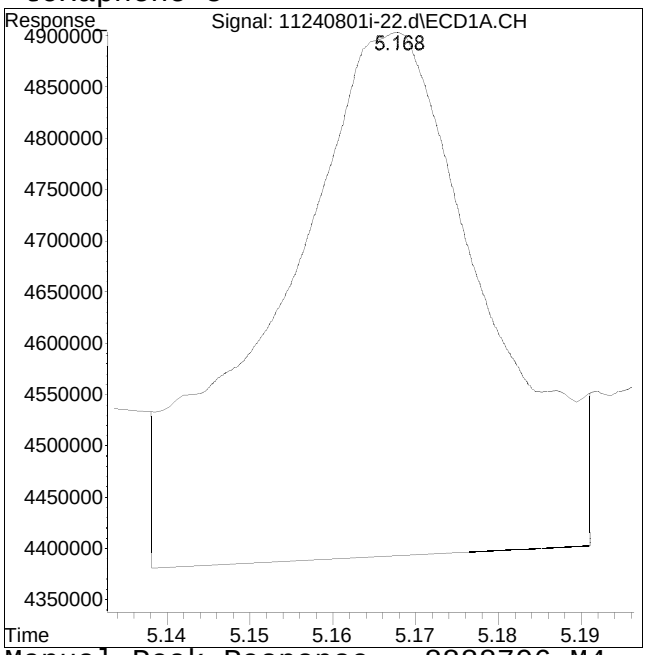
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #37: toxaphene-5



Original Peak Response = 9574210



Manual Peak Response = 8888706 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	214.5E6	175.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	39578469	19576926	83.312	119.105
35) l2	toxaphene-3	4.566	5.112	30033204	28384507	81.420	116.744
36) l2	toxaphene-4	4.791	5.429	33900580	32843972	91.845M3	112.974
37) l2	toxaphene-5	5.168	5.836	35593892	31255677	105.126	116.675
Sum	toxaphene-2			139.1E6	112.1E6	361.703	465.498
Average	toxaphene-2					90.426	116.374

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			139.1E6	112.1E6	361.703	465.498
Average	toxaphene-2					90.426	116.374

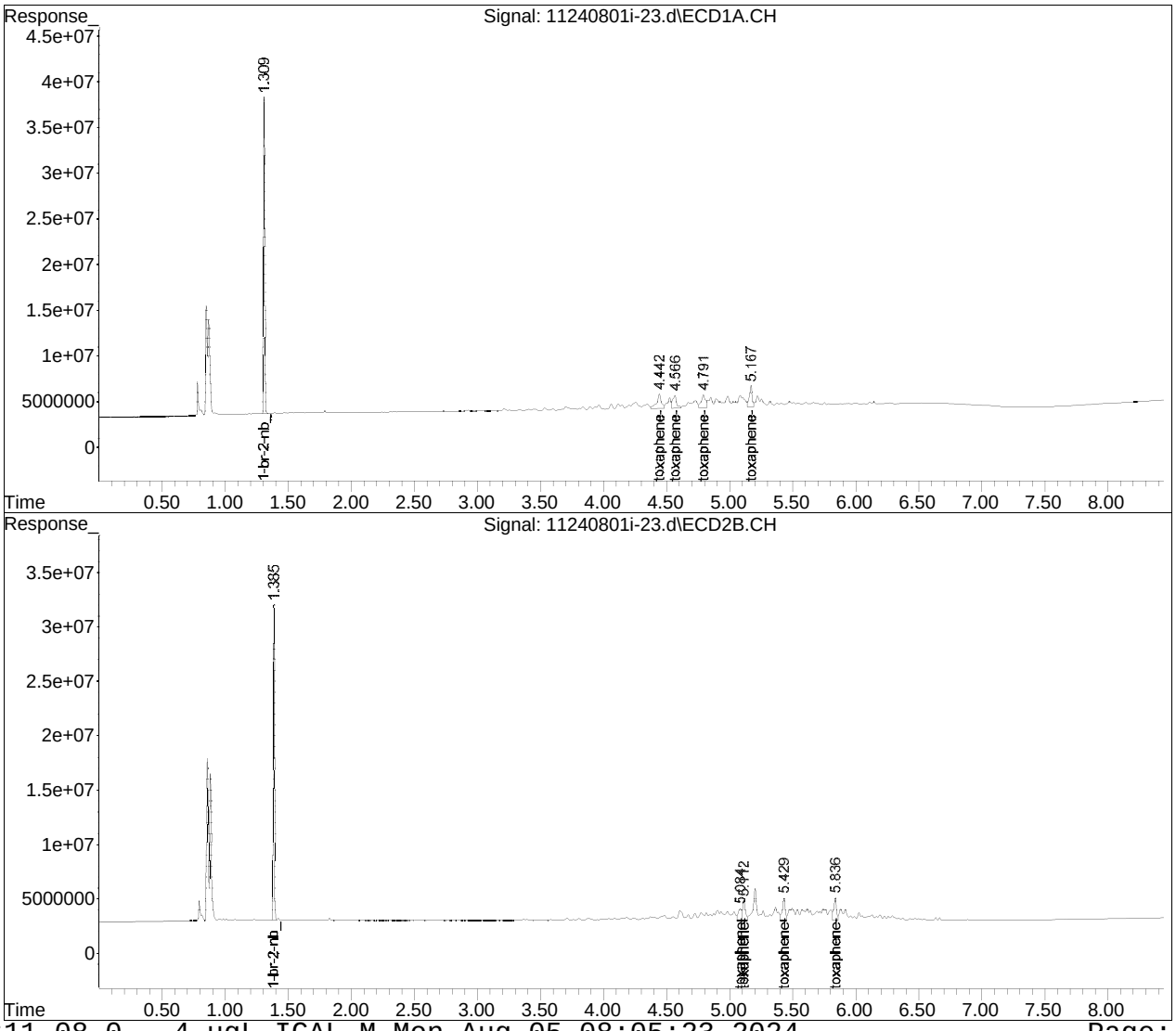
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

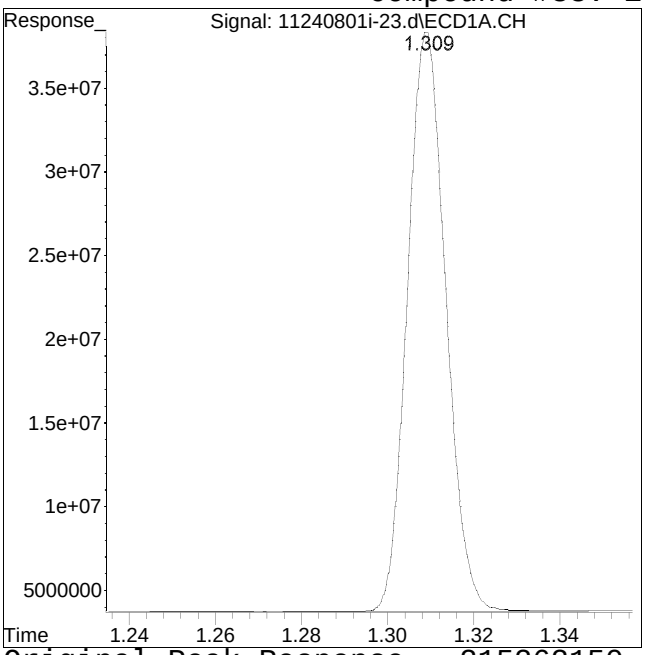
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

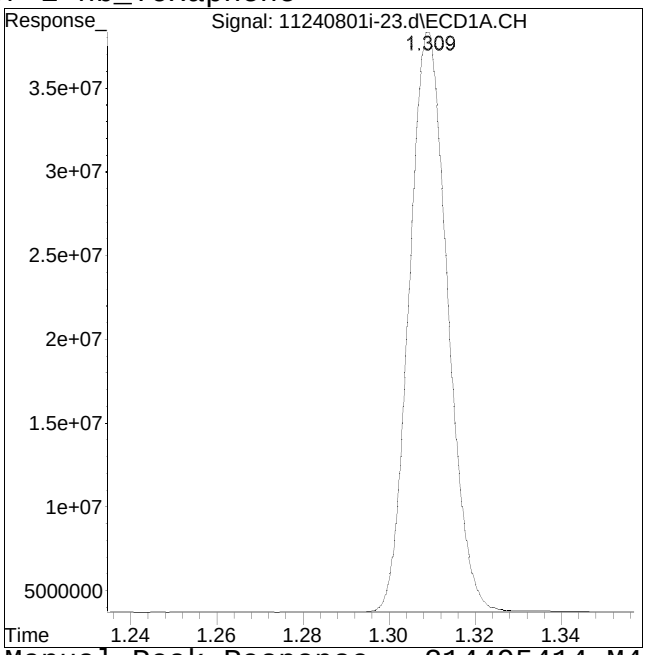


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #33: 1-br-2-nb_Toxaphene



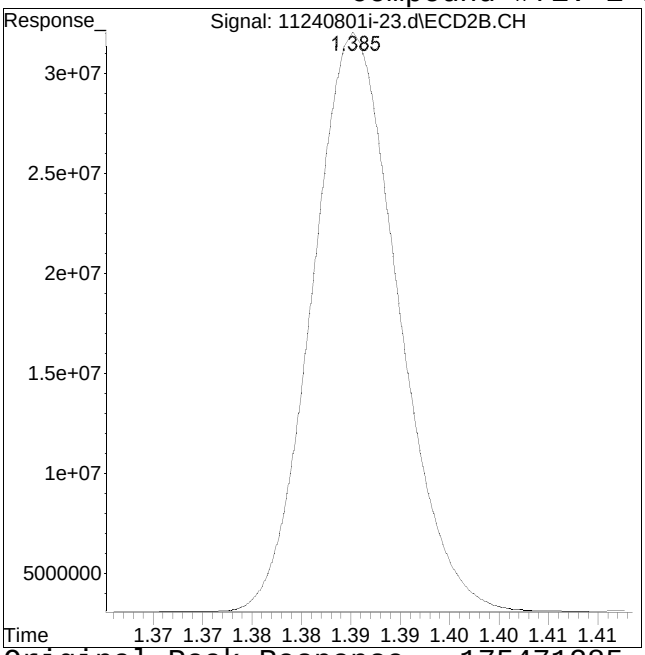


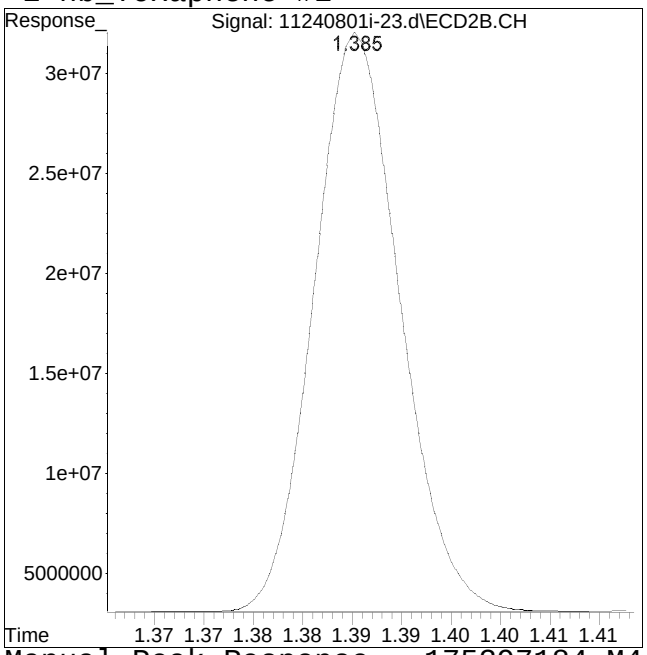
Original Peak Response = 215262150 Manual Peak Response = 214495414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #71: 1-br-2-nb_Toxaphene #2



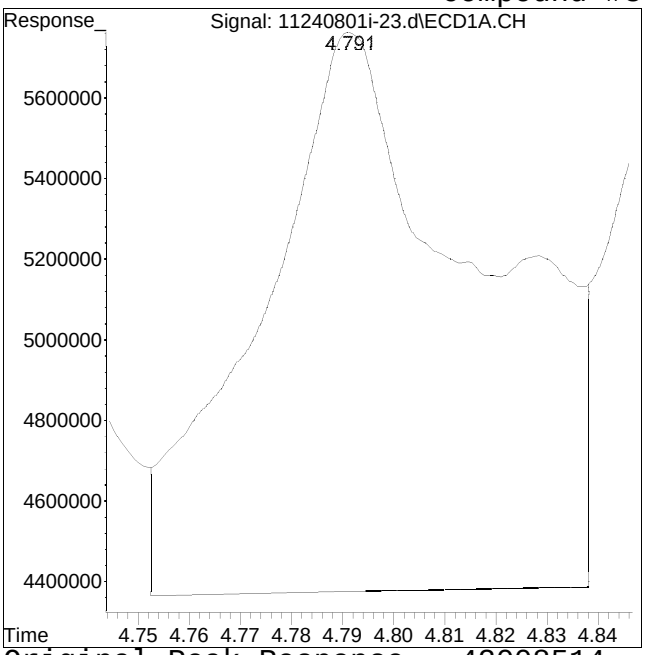


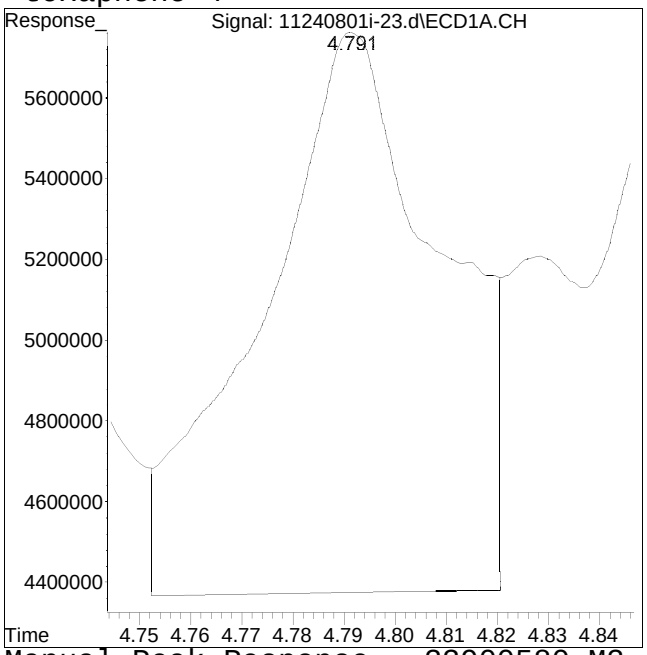
Original Peak Response = 175471285 Manual Peak Response = 175397184 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #36: toxaphene-4





Original Peak Response = 42008514 Manual Peak Response = 33900580 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	217.4E6	172.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.442	5.084	475.5E6	162.1E6	981.231	1002.404
35) l2	toxaphene-3	4.566	5.112	362.8E6	238.4E6	956.095	993.623
36) l2	toxaphene-4	4.792	5.429	362.1E6	283.2E6	952.261	983.638
37) l2	toxaphene-5	5.167	5.836	340.4E6	261.1E6	987.487	984.711
Sum	toxaphene-2			1540.8E6	944.9E6	3877.074	3964.377
Average	toxaphene-2					969.268	991.094

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			1540.8E6	944.9E6	3877.074	3964.377
Average	toxaphene-2					969.268	991.094

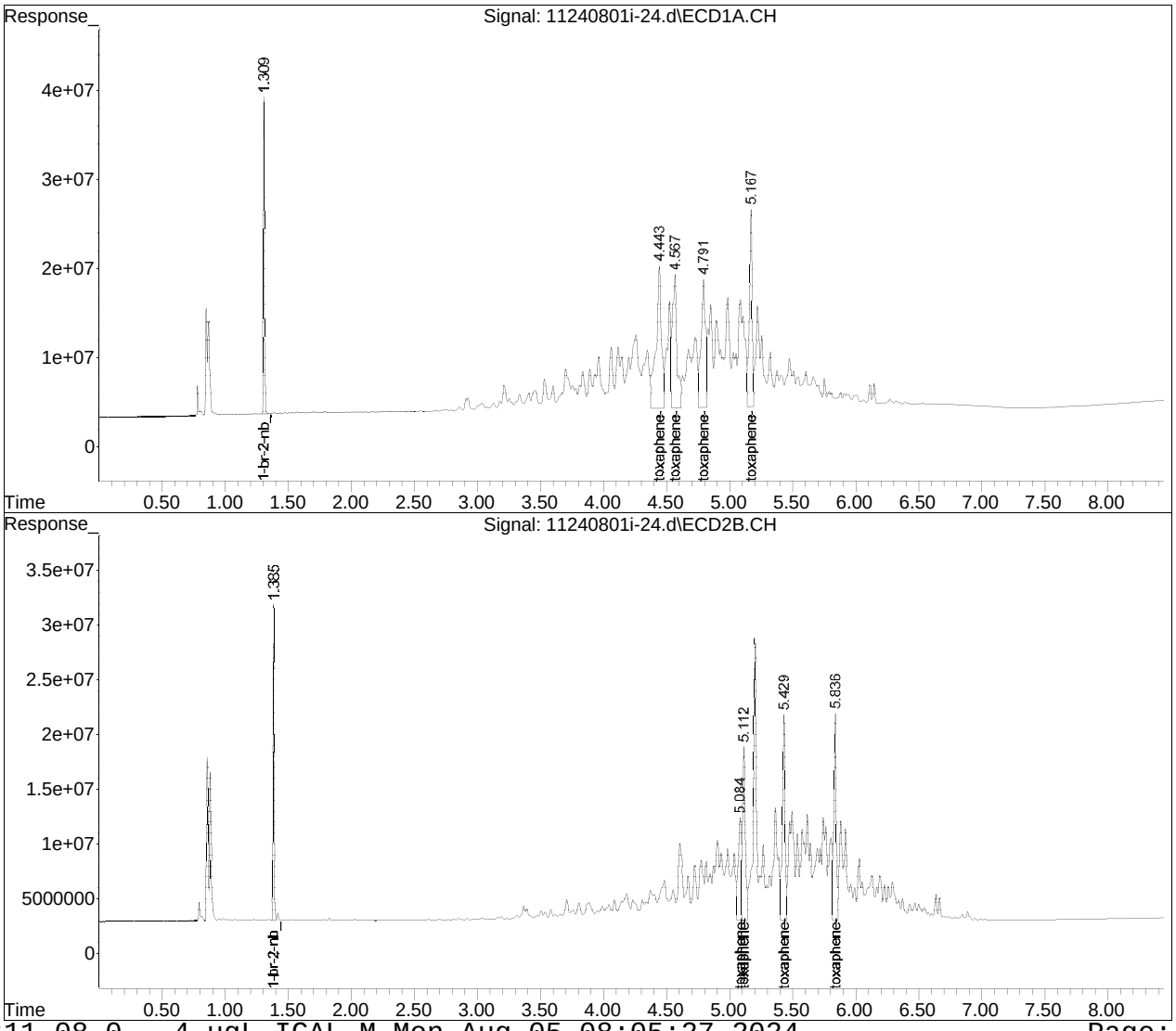
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

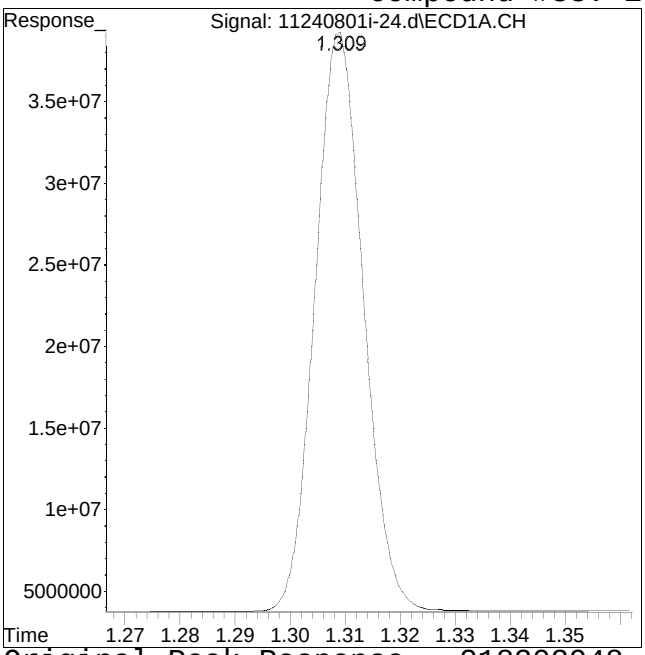
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



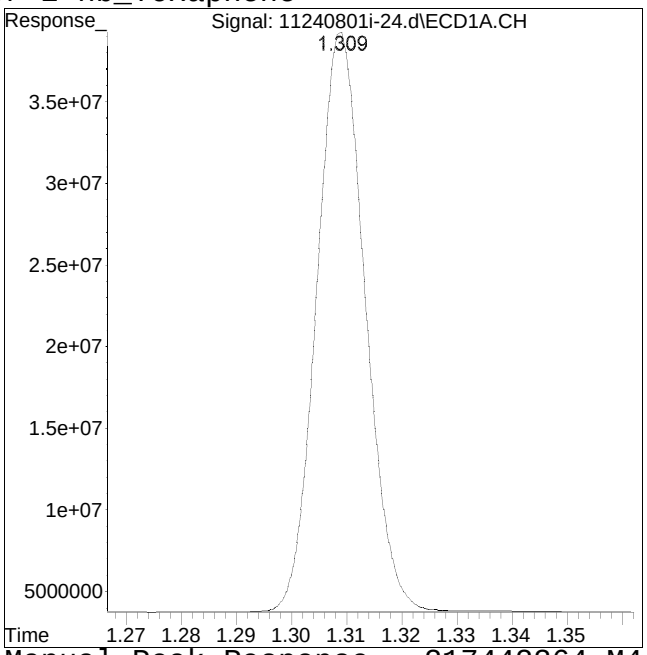
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-24.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:47 Instrument : Pest 11
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/2/2024 12:23 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 218302948



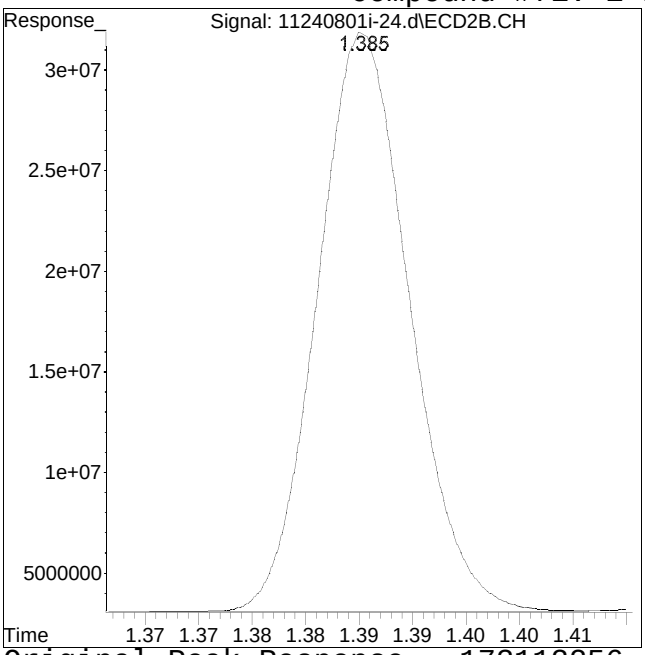
Manual Peak Response = 217442364 M4

M4 = Poor automated baseline construction.

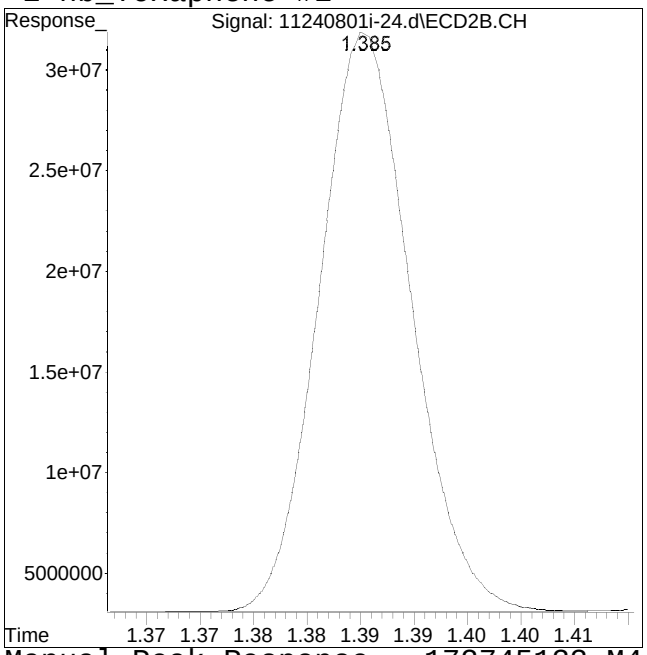
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-24.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:47 Instrument : Pest 11
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/2/2024 12:23 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 173112256



Manual Peak Response = 172745133 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	226.5E6	177.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	1003.1E6	329.8E6	NoCal	NoCal
35) l2	toxaphene-3	4.567	5.112	782.8E6	491.2E6	NoCal M3	NoCal
36) l2	toxaphene-4	4.792	5.429	774.4E6	585.9E6	NoCal	NoCal
37) l2	toxaphene-5	5.168	5.836	711.9E6	540.3E6	NoCal	NoCal
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

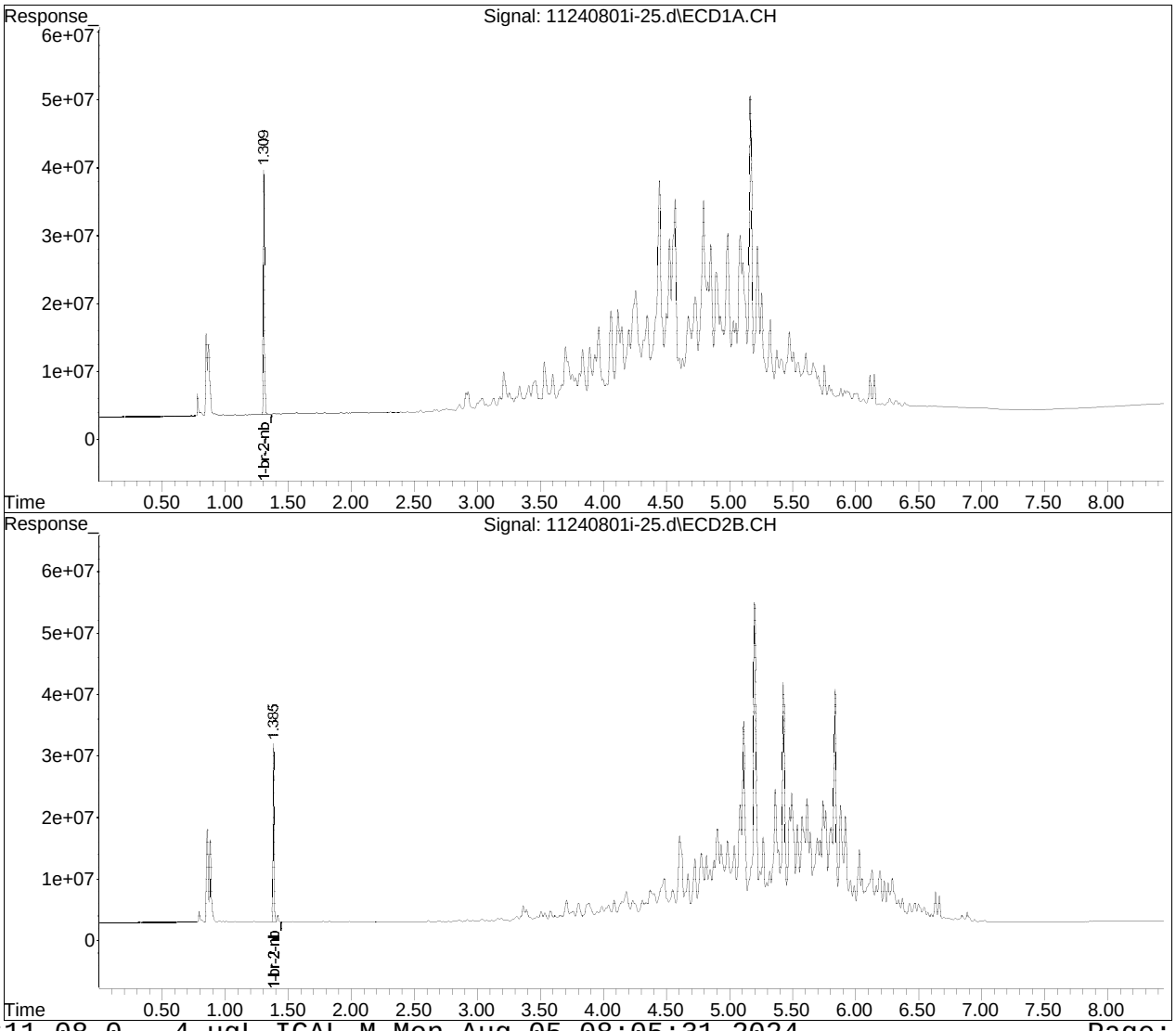
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

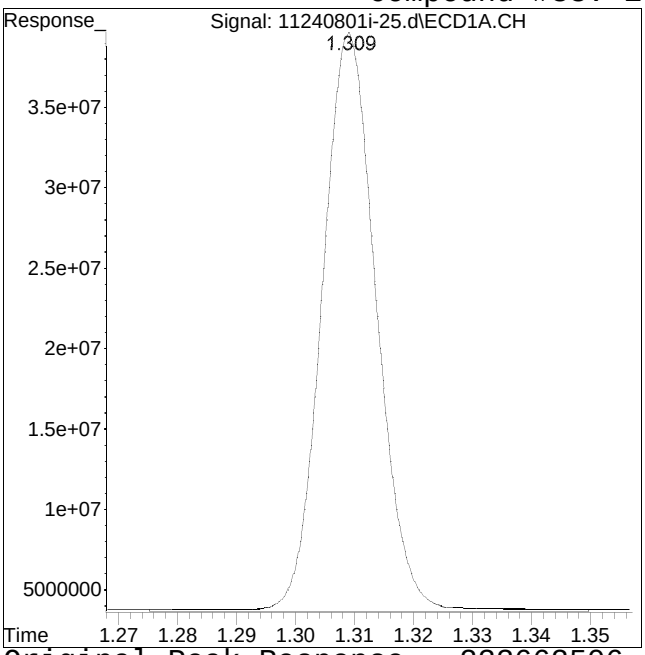


Manual Integration Report

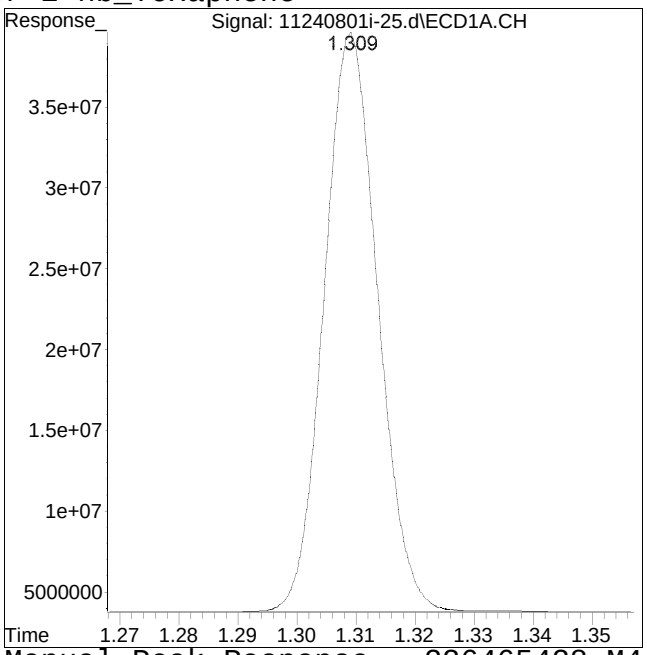
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-25.d
Date Inj'd : 8/1/2024 22:59
Sample : il8tox,42e,,pp 11700 L2.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:20 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 233662506



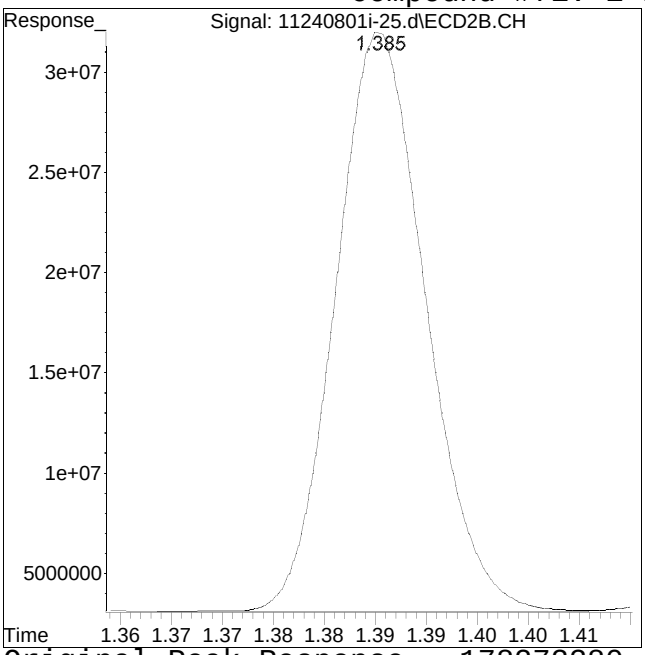
Manual Peak Response = 226465428 M4

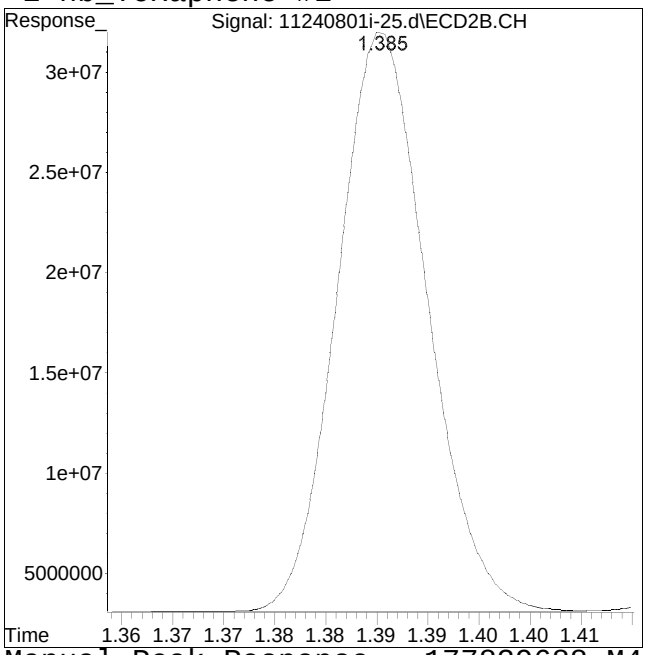
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #71: 1-br-2-nb_Toxaphene #2



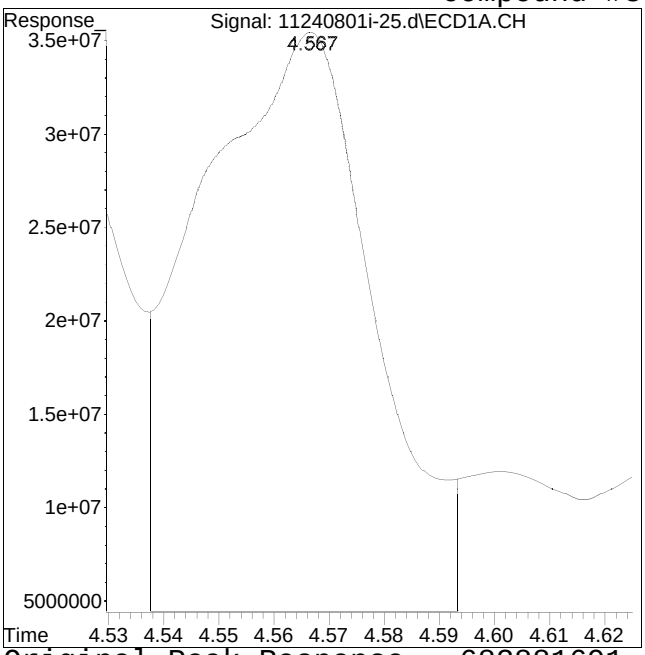


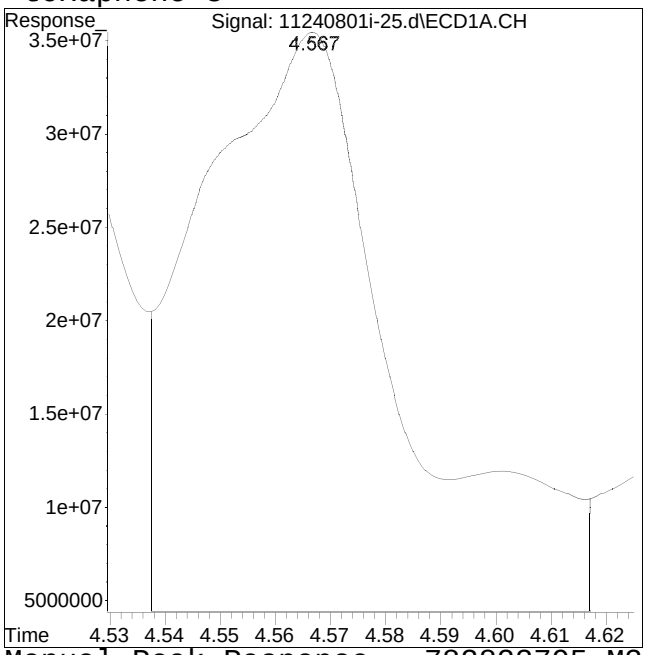
Original Peak Response = 178272380 Manual Peak Response = 177839688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #35: toxaphene-3





Original Peak Response = 683881691 Manual Peak Response = 782823795 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.386	224.3E6	174.1E6	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.442	5.084	2515.7E6	823.1E6	5063.269	5099.870
35) l2	toxaphene-3	4.566	5.113	1976.6E6	1216.3E6	5097.738	5059.169
36) l2	toxaphene-4	4.791	5.430	2005.0E6	1467.5E6	5227.075M3	5116.982
37) l2	toxaphene-5	5.167	5.836	1793.0E6	1350.3E6	5084.921	5105.955
Sum	toxaphene-2			8290.1E6	4857.3E6	20473.004	20381.976
Average	toxaphene-2					5118.251	5095.494

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			8290.1E6	4857.3E6	20473.004	20381.976
Average	toxaphene-2					5118.251	5095.494

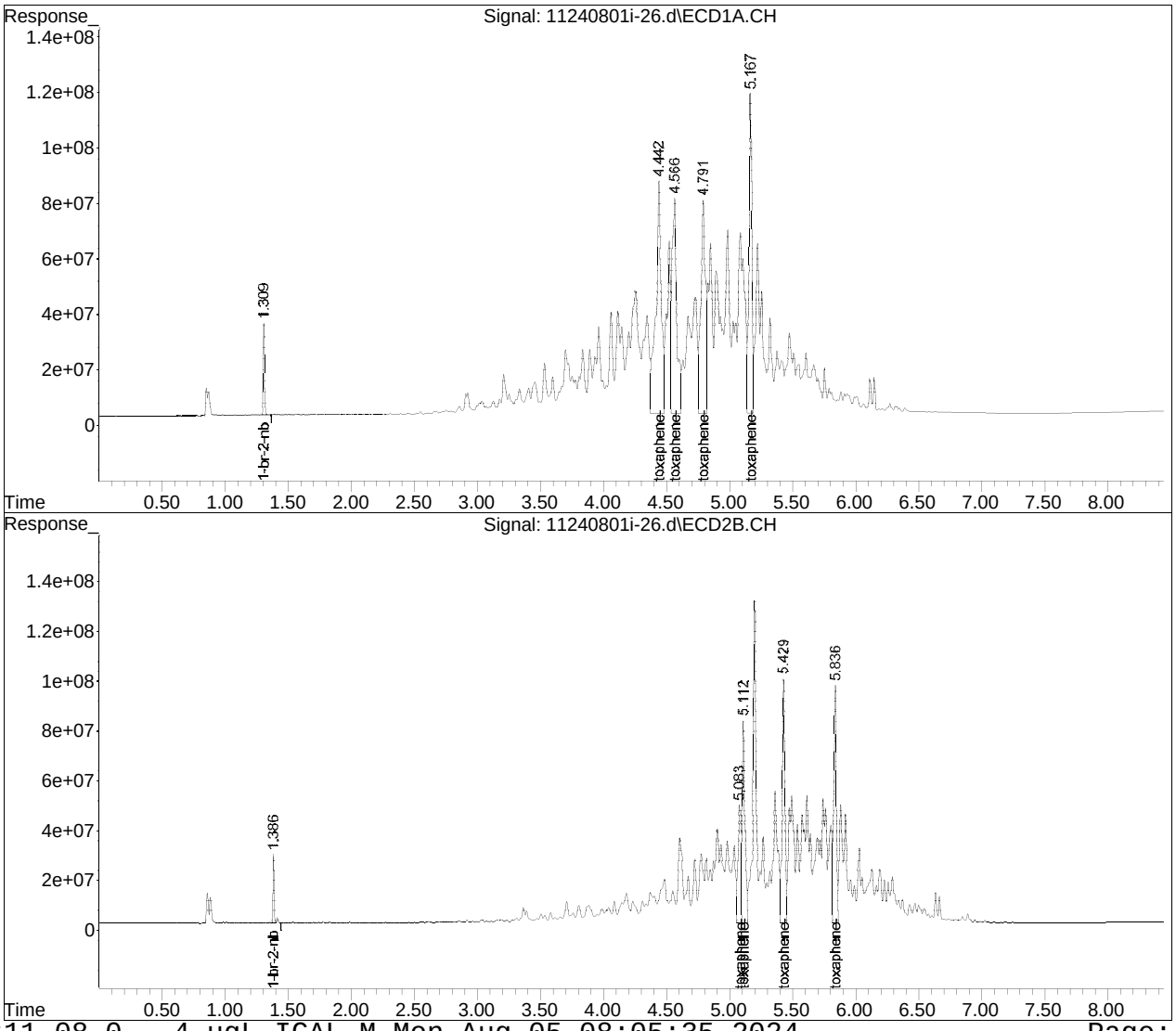
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

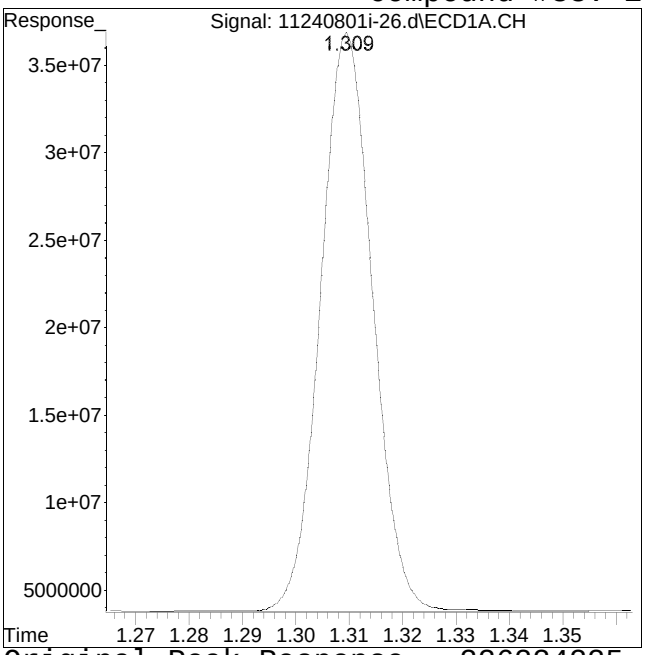
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

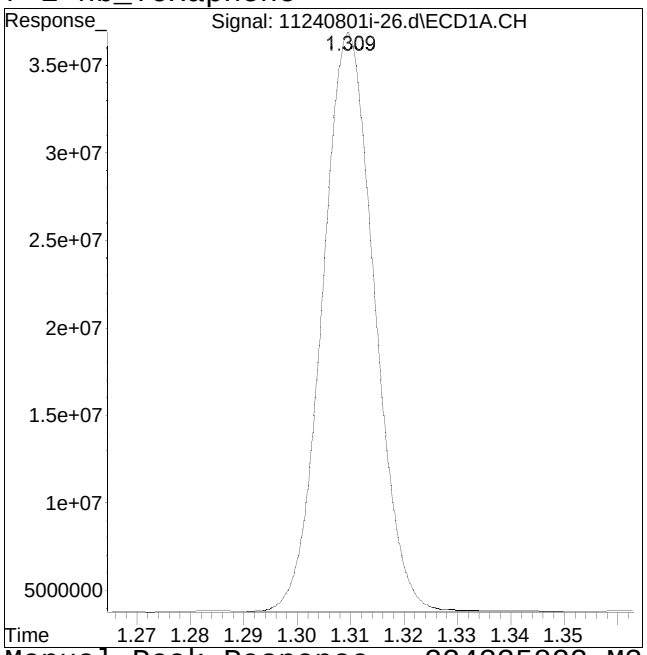


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #33: 1-br-2-nb_Toxaphene



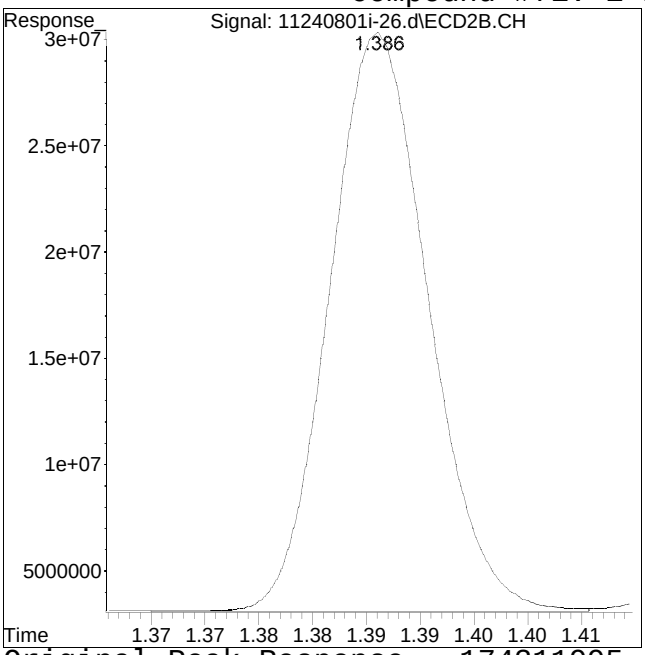


Original Peak Response = 226224225 Manual Peak Response = 224335822 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

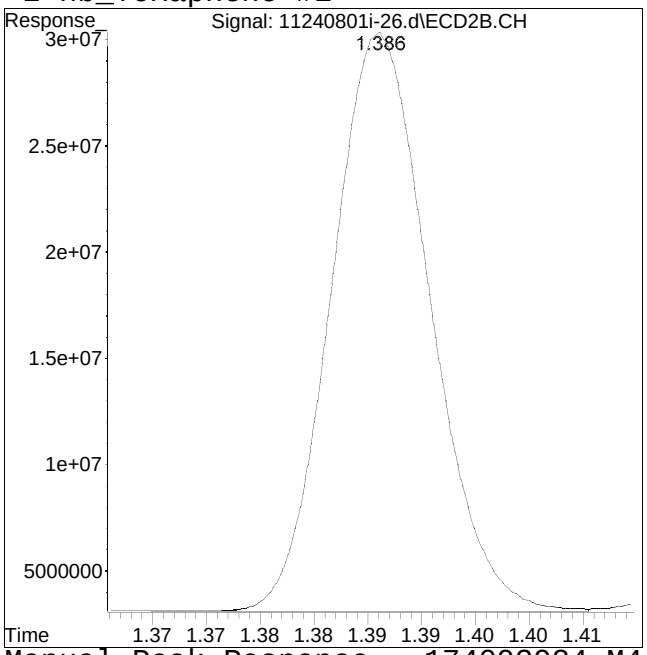
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 174311995



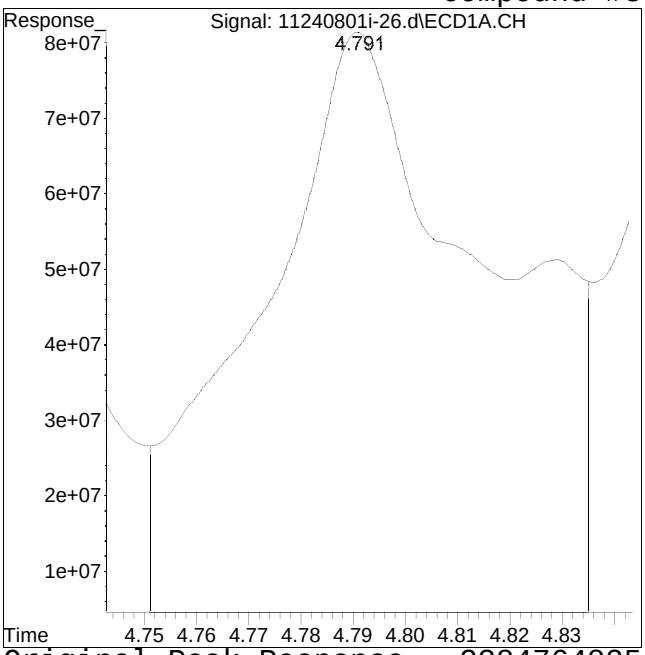
Manual Peak Response = 174093924 M4

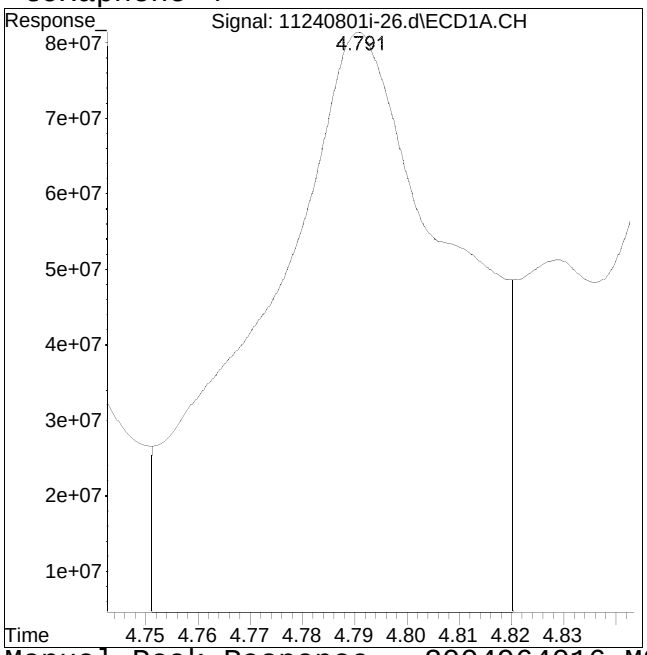
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #36: toxaphene-4





Original Peak Response = 2384764825 Manual Peak Response = 2004964016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-2		*2000.000	1966.030	1.7	97	0.00
35	l2	toxaphene-3		*2000.000	1837.511	8.1	91	0.00
36	l2	toxaphene-4		*2000.000	1758.818	12.1	89	0.00
37	l2	toxaphene-5		*2000.000	1870.162	6.5	93	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-2		*2000.000	1898.603	5.1	96	0.00
35	l2	toxaphene-3		*2000.000	1889.204	5.5	95	0.00
36	l2	toxaphene-4		*2000.000	1769.287	11.5	90	0.00
37	l2	toxaphene-5		*2000.000	1896.013	5.2	96	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.65#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.96#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.17#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.22#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.35#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.51#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.88#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.97#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.30#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.56#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.66#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.69#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.96#
18	t	Endrin		1.153	0.000	100.0#	0#	-4.21#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.32#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.45#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.62#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.87#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-5.10#
24	t	Mirex		0.938	0.000	100.0#	0#	-5.16#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.26#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.29#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.45#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.87#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.42#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.55#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.39#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.27#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.56#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.89#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.02#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-6.06#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.92#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.39#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.82#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.10#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.386	223.1E6	177.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	975.4E6	317.3E6	1966.030	1898.603
35) l2	toxaphene-3	4.567	5.112	712.2E6	467.1E6	1837.511	1889.204
36) l2	toxaphene-4	4.792	5.430	686.8E6	525.1E6	1758.818M3	1769.287
37) l2	toxaphene-5	5.168	5.836	662.9E6	518.4E6	1870.162	1896.013
Sum	toxaphene-2			3037.3E6	1827.9E6	7432.520	7453.107
Average	toxaphene-2					1858.130	1863.277

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			3037.3E6	1827.9E6	7432.520	7453.107
Average	toxaphene-2					1858.130	1863.277

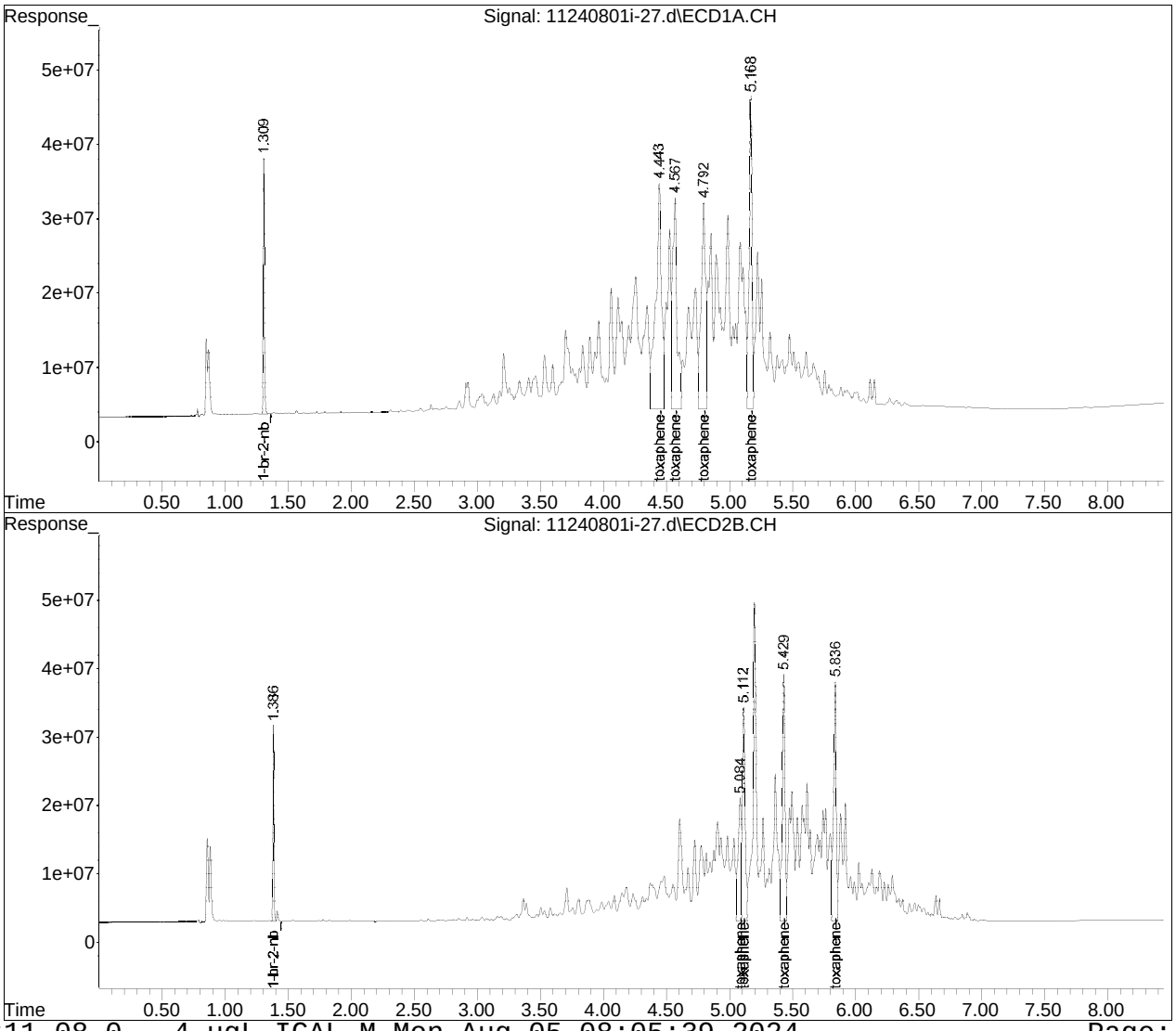
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

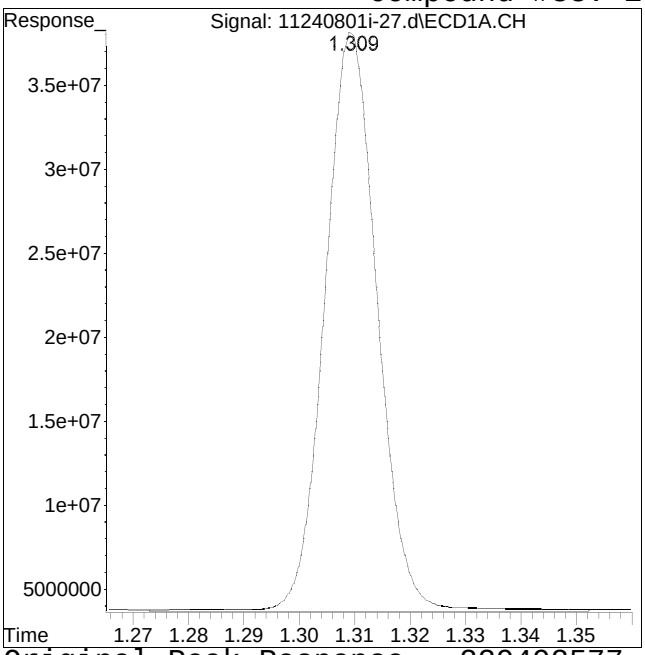
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

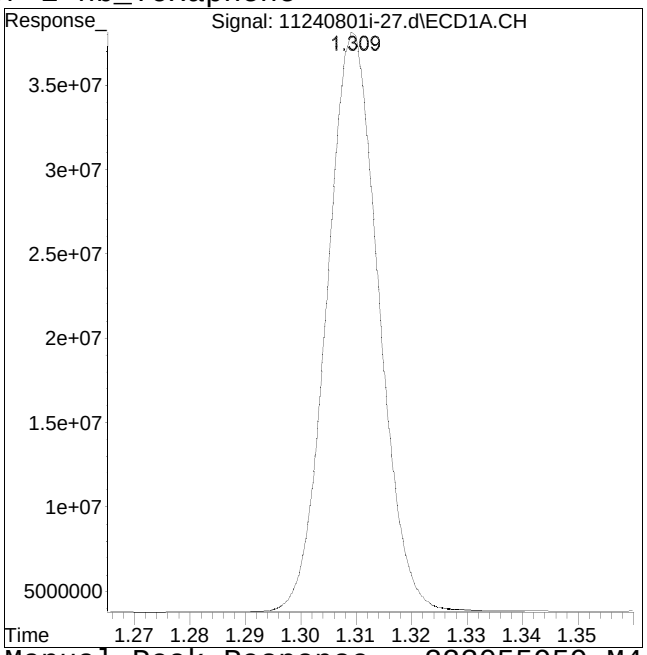


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-27.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:23 Instrument : Pest 11
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/2/2024 12:29 pm

Compound #33: 1-br-2-nb_Toxaphene



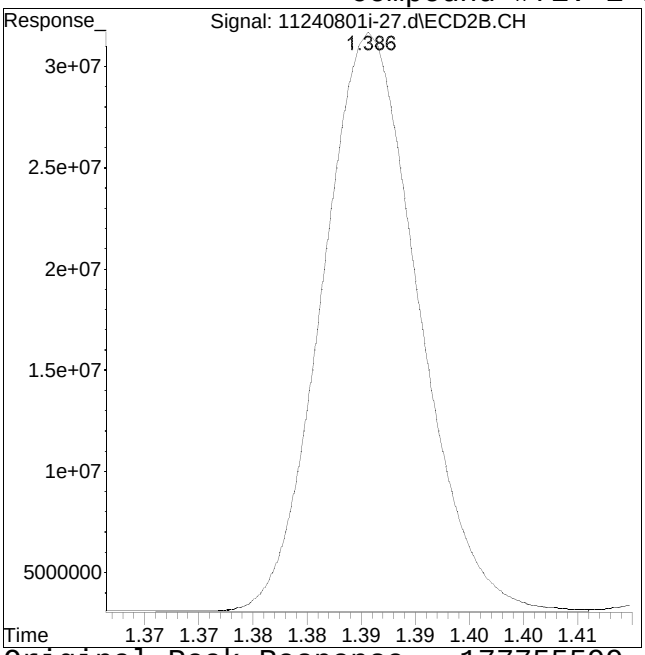


Original Peak Response = 229492577 Manual Peak Response = 223055959 M4
M4 = Poor automated baseline construction.

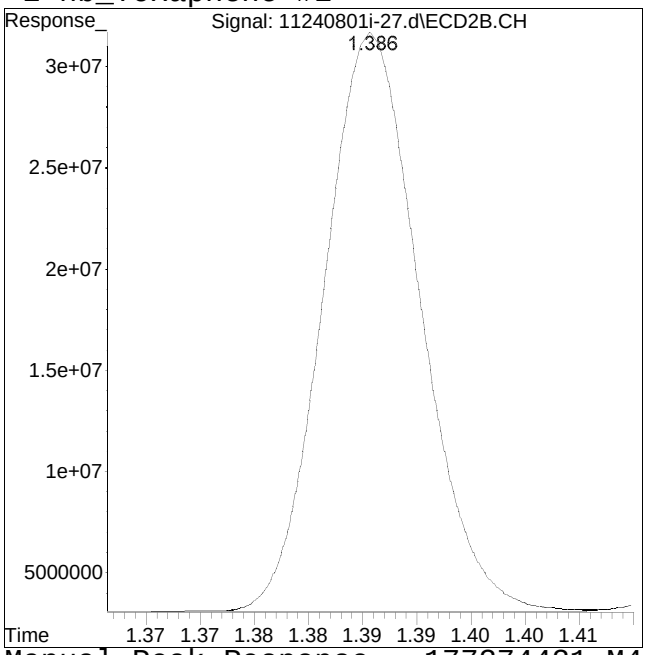
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-27.d
Date Inj'd : 8/1/2024 23:23
Sample : cicvtox,42e,,pp 11668 L2.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:29 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 177755599



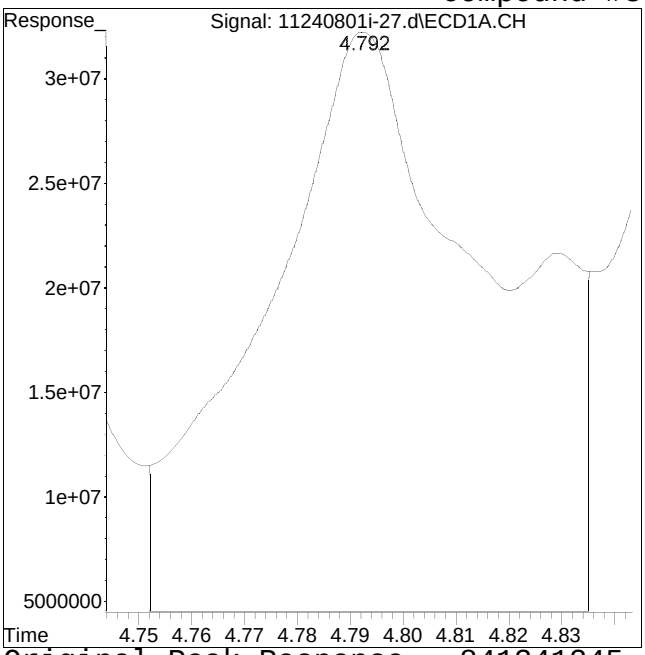
Manual Peak Response = 177374421 M4

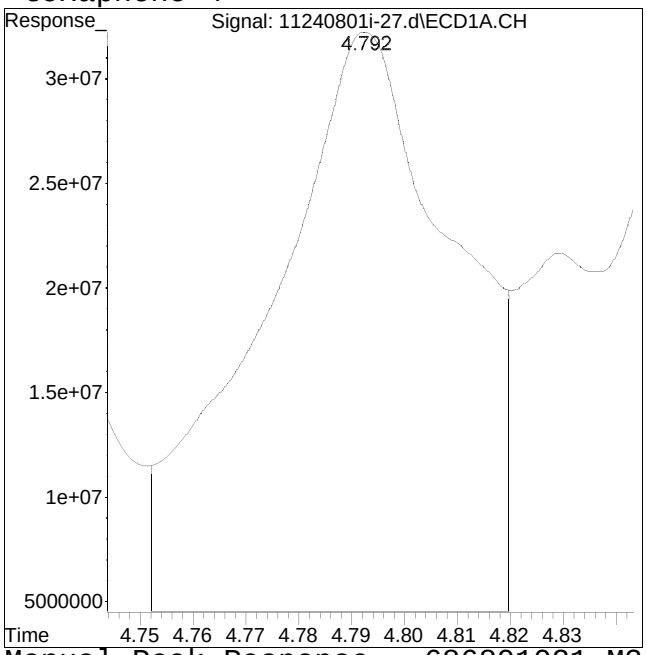
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-27.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:23 Instrument : Pest 11
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/2/2024 12:29 pm

Compound #36: toxaphene-4





Original Peak Response = 841341245 Manual Peak Response = 686801021 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Relative Error Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
29	L1 chlordane-1	L	ug/l	1000.0	1038.450	3.8	10.00	9.627	-3.7
30	L1 chlordane-3	L	ug/l	1000.0	1075.547	7.6	10.00	7.099	-29.0
31	L1 chlordane-4	L	ug/l	1000.0	1057.641	5.8	10.00	9.470	-5.3
32	L1 chlordane-5	L	ug/l	1000.0	1065.479	6.5	10.00	9.042	-9.6
34	L2 toxaphene-2	L	ug/l	2000.0	1991.278	-0.4	20.00	22.016	10.1
35	L2 toxaphene-3	L	ug/l	2000.0	1988.580	-0.6	20.00	22.909	14.5
36	L2 toxaphene-4	L	ug/l	2000.0	1952.950	-2.4	20.00	22.256	11.3
37	L2 toxaphene-5	L	ug/l	2000.0	1978.581	-1.1	20.00	20.714	3.6
44	T beta-BHC #2	L	ug/l	50.0	50.907	1.8	1.00	0.790	-21.0
48	T Alachlor #2	L	ug/l	50.0	53.910	7.8	2.00	1.484	-25.8
49	T Chlorpyrifos #2	L	ug/l	50.0	52.668	5.3	2.00	1.609	-19.6
60	T Endrin Aldehyde #2	L	ug/l	50.0	50.418	0.8	1.00	0.856	-14.4
62	T Mirex #2	L	ug/l	50.0	50.877	1.8	2.00	1.727	-13.6
67	L1 chlordane-1 #2	L	ug/l	1000.0	1065.397	6.5	10.00	7.110	-28.9
68	L1 chlordane-3 #2	L	ug/l	1000.0	1115.565	11.6	10.00	5.208	-47.9
69	L1 chlordane-4 #2	L	ug/l	1000.0	1071.147	7.1	10.00	8.535	-14.6
70	L1 chlordane-5 #2	L	ug/l	1000.0	1069.213	6.9	10.00	8.307	-16.9
72	L2 toxaphene-2 #2	L	ug/l	2000.0	1968.160	-1.6	20.00	17.722	-11.4
73	L2 toxaphene-3 #2	L	ug/l	2000.0	1981.747	-0.9	20.00	18.240	-8.8
74	L2 toxaphene-4 #2	L	ug/l	2000.0	1969.518	-1.5	20.00	19.050	-4.7
75	L2 toxaphene-5 #2	L	ug/l	2000.0	1971.269	-1.4	20.00	18.840	-5.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
29	L1 chlordane-1	Linear	0.999348	0.000000	0.0363716	0.00108757
30	L1 chlordane-3	Linear	0.997393	0.000000	0.0421132	0.0078182
31	L1 chlordane-4	Linear	0.998643	0.000000	0.155448	0.0068286
32	L1 chlordane-5	Linear	0.998228	0.000000	0.238606	0.0109807
34	L2 toxaphene-2	Linear	0.999824	0.000000	0.055848	-0.0188813
35	L2 toxaphene-3	Linear	0.999518	0.000000	0.0436385	-0.01444
36	L2 toxaphene-4	Linear	0.999238	0.000000	0.0438591	-0.00655081
37	L2 toxaphene-5	Linear	0.999880	0.000000	0.0395938	0.00995327
44	T beta-BHC #2	Linear	0.999559	0.000000	0.62395	0.0144288
48	T Alachlor #2	Linear	0.996730	0.000000	0.176781	0.0129204
49	T Chlorpyrifos #2	Linear	0.998303	0.000000	0.678141	0.0439823
60	T Endrin Aldehyde #2	Linear	0.999312	0.000000	0.92637	0.0145142
62	T Mirex #2	Linear	0.999318	0.000000	0.884014	0.0427365
67	L1 chlordane-1 #2	Linear	0.996325	0.000000	0.0369026	0.0110712
68	L1 chlordane-3 #2	Linear	0.991238	0.000000	0.0403855	0.0197671
69	L1 chlordane-4 #2	Linear	0.995940	0.000000	0.155283	0.0303717
70	L1 chlordane-5 #2	Linear	0.996066	0.000000	0.119242	0.0251686
72	L2 toxaphene-2 #2	Linear	0.999654	0.000000	0.0234841	0.00538869
73	L2 toxaphene-3 #2	Linear	0.999781	0.000000	0.0347383	0.00824347
74	L2 toxaphene-4 #2	Linear	0.999739	0.000000	0.0417228	0.00770414
75	L2 toxaphene-5 #2	Linear	0.999723	0.000000	0.0383851	0.0113923

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 06:35		
Lab File ID	: 11240926a-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1976509-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	138	0
2,4,5,6-Tetrachloro-m-xylen	1.039	1.076	-	-3.6	20	139	0
Hexachlorobenzene	1.406	1.193	-	15.1	20	119	0
alpha-BHC	1.461	1.708	-	-16.9	20	145	0
gamma-BHC (lindane)	1.395	1.526	-	-9.4	20	141	0
beta-BHC	0.628	0.643	-	-2.4	20	142	0
delta-BHC	1.374	1.503	-	-9.4	20	137	0
Heptachlor	1.321	1.535	-	-16.2	20	152	0
Aldrin	1.233	1.452	-	-17.8	20	151	0
Alachlor	0.23	0.201	-	12.6	20	120	0
Chlorpyrifos	0.59	0.68	-	-15.3	20	169	0
Heptachlor Epoxide	1.185	1.306	-	-10.2	20	146	0
gamma-Chlordane (trans)	1.077	1.397	-	-29.7*	20	174	0
alpha-Chlordane (cis)	1.216	1.377	-	-13.2	20	151	0
4,4'-DDE	1.192	1.378	-	-15.6	20	151	0
Endosulfan I	1.116	1.247	-	-11.7	20	148	0
Dieldrin	1.135	1.425	-	-25.6*	20	163	0
Endrin	1.153	1.337	-	-16	20	151	0
4,4'-DDD	0.927	1.123	-	-21.1*	20	158	0
Endosulfan II	1.052	1.216	-	-15.6	20	152	0
4,4'-DDT	1.058	1.223	-	-15.6	20	152	0
Endrin Aldehyde	0.886	0.904	-	-2	20	138	0
Methoxychlor	0.592	0.652	-	-10.1	20	155	0
Mirex	0.938	1.045	-	-11.4	20	159	0
Endosulfan Sulfate	1.01	1.185	-	-17.3	20	161	0
Endrin Ketone	1.183	1.312	-	-10.9	20	147	0
Decachlorobiphenyl	1.163	0.988	-	15	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 06:35		
Lab File ID	: 11240926a-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1976509-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	110	0
2,4,5,6-Tetrachloro-m-xyl	1.114	1.017	-	8.7	20	101	0
Hexachlorobenzene	1.239	1.08	-	12.8	20	101	0
alpha-BHC	1.62	1.504	-	7.2	20	96	0
gamma-BHC (lindane)	1.539	1.349	-	12.3	20	95	0
beta-BHC	50	45.834	-	8.3	20	97	0
delta-BHC	1.523	1.332	-	12.5	20	93	0
Heptachlor	1.598	1.321	-	17.3	20	91	0
Aldrin	1.435	1.249	-	13	20	94	0
Alachlor	50	52.179	-	-4.4	20	104	0
Chlorpyrifos	50	44.912	-	10.2	20	92	0
Heptachlor Epoxide	1.425	1.151	-	19.2	20	92	0
gamma-Chlordane (trans)	1.312	1.197	-	8.8	20	105	0
alpha-Chlordane (cis)	1.446	1.174	-	18.8	20	93	0
4,4'-DDE	1.343	1.158	-	13.8	20	92	0
Endosulfan I	1.332	1.089	-	18.2	20	93	0
Dieldrin	1.327	1.23	-	7.3	20	101	0
Endrin	1.347	1.165	-	13.5	20	95	0
4,4'-DDD	1.084	0.984	-	9.2	20	99	0
Endosulfan II	1.214	1.049	-	13.6	20	98	0
4,4'-DDT	1.25	1.046	-	16.3	20	92	0
Endrin Aldehyde	50	42.156	-	15.7	20	90	0
Methoxychlor	0.704	0.548	-	22.2*	20	94	0
Mirex	50	46.152	-	7.7	20	98	0
Endosulfan Sulfate	1.199	1.004	-	16.3	20	98	0
Endrin Ketone	1.261	1.156	-	8.3	20	103	0
Decachlorobiphenyl	1.06	0.82	-	22.6*	20	94	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 06:46
Lab File ID	: 11240926a-04	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1976509-2	**Init. Calib. Times**	: 18:37 23:11
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	130	0
chlordane-1	1000	1122.487	-	-12.2	20	142	0
chlordane-3	1000	1148.829	-	-14.9	20	140	0
chlordane-4	1000	1169.496	-	-16.9	20	145	0
chlordane-5	1000	1318.894	-	-31.9*	20	162	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 06:46
Lab File ID	: 11240926a-04	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1976509-2	**Init. Calib. Times**	: 18:37 23:11
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	112	0
chlordane-1	1000	859.373	-	14.1	20	90	0
chlordane-3	1000	898.978	-	10.1	20	90	0
chlordane-4	1000	816.087	-	18.4	20	85	0
chlordane-5	1000	808.853	-	19.1	20	85	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 06:58		
Lab File ID	: 11240926a-05	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1976509-3	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	158	0
toxaphene-2	2000	2291.973	-	-14.6	20	175	0
toxaphene-3	2000	2160.66	-	-8	20	165	0
toxaphene-4	2000	1718.193	-	14.1	20	134	0
toxaphene-5	2000	2067.464	-	-3.4	20	159	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 06:58		
Lab File ID	: 11240926a-05	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1976509-3	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	121	0
toxaphene-2	2000	1731.856	-	13.4	20	104	0
toxaphene-3	2000	1821.914	-	8.9	20	109	0
toxaphene-4	2000	1678.42	-	16.1	20	101	0
toxaphene-5	2000	1772.124	-	11.4	20	106	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 20:23		
Lab File ID	: 11240926b-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1976911-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	144	0
2,4,5,6-Tetrachloro-m-xylen	1.039	0.976	-	6.1	20	131	0
Hexachlorobenzene	1.406	1.07	-	23.9*	20	112	0
alpha-BHC	1.461	1.514	-	-3.6	20	135	0
gamma-BHC (lindane)	1.395	1.35	-	3.2	20	130	0
beta-BHC	0.628	0.568	-	9.6	20	131	0
delta-BHC	1.374	1.306	-	4.9	20	125	0
Heptachlor	1.321	1.282	-	3	20	132	0
Aldrin	1.233	1.203	-	2.4	20	131	0
Alachlor	0.23	0.166	-	27.8*	20	103	0
Chlorpyrifos	0.59	0.575	-	2.5	20	150	0
Heptachlor Epoxide	1.185	1.085	-	8.4	20	127	0
gamma-Chlordane (trans)	1.077	1.123	-	-4.3	20	146	0
alpha-Chlordane (cis)	1.216	1.115	-	8.3	20	128	0
4,4'-DDE	1.192	1.097	-	8	20	126	0
Endosulfan I	1.116	1.03	-	7.7	20	128	0
Dieldrin	1.135	1.163	-	-2.5	20	139	0
Endrin	1.153	1.107	-	4	20	130	0
4,4'-DDD	0.927	0.921	-	0.6	20	135	0
Endosulfan II	1.052	1.006	-	4.4	20	132	0
4,4'-DDT	1.058	1.007	-	4.8	20	130	0
Endrin Aldehyde	0.886	0.753	-	15	20	120	0
Methoxychlor	0.592	0.56	-	5.4	20	139	0
Mirex	0.938	0.857	-	8.6	20	137	0
Endosulfan Sulfate	1.01	0.992	-	1.8	20	141	0
Endrin Ketone	1.183	1.108	-	6.3	20	130	0
Decachlorobiphenyl	1.163	0.868	-	25.4*	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 20:23		
Lab File ID	: 11240926b-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1976911-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	112	0
2,4,5,6-Tetrachloro-m-xyl	1.114	0.933	-	16.2	20	94	0
Hexachlorobenzene	1.239	0.98	-	20.9*	20	94	0
alpha-BHC	1.62	1.37	-	15.4	20	89	0
gamma-BHC (lindane)	1.539	1.216	-	21*	20	87	0
beta-BHC	50	40.582	-	18.8	20	88	0
delta-BHC	1.523	1.185	-	22.2*	20	84	0
Heptachlor	1.598	1.157	-	27.6*	20	82	0
Aldrin	1.435	1.077	-	24.9*	20	82	0
Alachlor	50	43.467	-	13.1	20	89	0
Chlorpyrifos	50	38.767	-	22.5*	20	82	0
Heptachlor Epoxide	1.425	0.99	-	30.5*	20	80	0
gamma-Chlordane (trans)	1.312	1.02	-	22.3*	20	91	0
alpha-Chlordane (cis)	1.446	0.999	-	30.9*	20	81	0
4,4'-DDE	1.343	0.979	-	27.1*	20	80	0
Endosulfan I	1.332	0.932	-	30*	20	81	0
Dieldrin	1.327	1.054	-	20.6*	20	89	0
Endrin	1.347	1.003	-	25.5*	20	83	0
4,4'-DDD	1.084	0.839	-	22.6*	20	86	0
Endosulfan II	1.214	0.905	-	25.5*	20	86	0
4,4'-DDT	1.25	0.902	-	27.8*	20	81	0
Endrin Aldehyde	50	36.426	-	27.1*	20	79	0
Methoxychlor	0.704	0.493	-	30*	20	86	0
Mirex	50	38.884	-	22.2*	20	84	0
Endosulfan Sulfate	1.199	0.869	-	27.5*	20	86	0
Endrin Ketone	1.261	1.001	-	20.6*	20	91	0
Decachlorobiphenyl	1.06	0.741	-	30.1*	20	87	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 20:35		
Lab File ID	: 11240926b-04	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1976911-2	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	149	0
chlordane-1	1000	966.913	-	3.3	20	140	0
chlordane-3	1000	990.175	-	1	20	138	0
chlordane-4	1000	972.658	-	2.7	20	138	0
chlordane-5	1000	1102.274	-	-10.2	20	156	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 20:35
Lab File ID	: 11240926b-04	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1976911-2	**Init. Calib. Times**	: 18:37 23:11
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	112	0
chlordane-1	1000	795.07	-	20.5*	20	84	0
chlordane-3	1000	836.244	-	16.4	20	85	0
chlordane-4	1000	762.294	-	23.8*	20	80	0
chlordane-5	1000	754.335	-	24.6*	20	79	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 20:47	
Lab File ID	: 11240926b-05	**Init. Calib. Date(s)**	: 08/01/24	08/01/24
Sample No	: WG1976911-3	**Init. Calib. Times**	: 18:37	23:11
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	171	0
toxaphene-2	2000	1613.334	-	19.3	20	134	0
toxaphene-3	2000	1903.286	-	4.8	20	158	0
toxaphene-4	2000	1795.359	-	10.2	20	152	0
toxaphene-5	2000	2174.086	-	-8.7	20	181	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/26/24 20:47		
Lab File ID	: 11240926b-05	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1976911-3	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	126	0
toxaphene-2	2000	1794.689	-	10.3	20	113	0
toxaphene-3	2000	1898.058	-	5.1	20	118	0
toxaphene-4	2000	1749.029	-	12.5	20	110	0
toxaphene-5	2000	1848.866	-	7.6	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST20	**Calibration Date**	: 09/30/24 06:22
Lab File ID	: 20240930a-04	**Init. Calib. Date(s)**	: 07/22/24 07/22/24
Sample No	: WG1977952-2	**Init. Calib. Times**	: 18:09 22:55
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	112	0
chlordane-1	1000	975.431	-	2.5	20	107	0
chlordane-3	1000	986.344	-	1.4	20	107	0
chlordane-4	1000	1026.325	-	-2.6	20	112	0
chlordane-5	1000	1130.981	-	-13.1	20	122	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST20	**Calibration Date**	: 09/30/24 06:22
Lab File ID	: 20240930a-04	**Init. Calib. Date(s)**	: 07/22/24 07/22/24
Sample No	: WG1977952-2	**Init. Calib. Times**	: 18:09 22:55
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	114	0
chlordane-1	1000	1061.537	-	-6.2	20	116	0
chlordane-3	1000	1044.243	-	-4.4	20	113	0
chlordane-4	1000	1076.767	-	-7.7	20	117	0
chlordane-5	1000	1078.557	-	-7.9	20	117	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST20	**Calibration Date**	: 09/30/24 06:35		
Lab File ID	: 20240930a-05	**Init. Calib. Date(s)**	: 07/22/24	07/22/24	
Sample No	: WG1977952-3	**Init. Calib. Times**	: 18:09	22:55	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	113	0
toxaphene-1	2000	2391.103	-	-19.6	20	124	0
toxaphene-2	2000	2576.354	-	-28.8*	20	135	0
toxaphene-4	2000	2295.034	-	-14.8	20	121	0
toxaphene-5	2000	2497.921	-	-24.9*	20	133	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST20	**Calibration Date**	: 09/30/24 06:35
Lab File ID	: 20240930a-05	**Init. Calib. Date(s)**	: 07/22/24 07/22/24
Sample No	: WG1977952-3	**Init. Calib. Times**	: 18:09 22:55
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	122	0
toxaphene-1	2000	2441.197	-	-22.1*	20	144	0
toxaphene-2	2000	2377.158	-	-18.9	20	142	0
toxaphene-4	2000	2199.455	-	-10	20	131	0
toxaphene-5	2000	2364.322	-	-18.2	20	142	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST20	**Calibration Date**	: 09/30/24 07:49		
Lab File ID	: 20240930a-11	**Init. Calib. Date(s)**	: 07/22/24	07/22/24	
Sample No	: WG1977952-4	**Init. Calib. Times**	: 18:09	22:55	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	131	0
2,4,5,6-Tetrachloro-m-xylen	50	50.345	-	-0.7	20	123	0
Hexachlorobenzene	50	49.941	-	0.1	20	121	0
alpha-BHC	1.586	1.445	-	8.9	20	122	0
gamma-BHC (lindane)	1.529	1.301	-	14.9	20	121	0
beta-BHC	50	49.269	-	1.5	20	120	0
delta-BHC	1.478	1.266	-	14.3	20	117	0
Heptachlor	1.494	1.353	-	9.4	20	130	0
Aldrin	1.394	1.305	-	6.4	20	130	0
Alachlor	50	56.859	-	-13.7	20	132	0
Chlorpyrifos	50	54.01	-	-8	20	129	0
Heptachlor Epoxide	1.349	1.219	-	9.6	20	130	0
gamma-Chlordane (trans)	50	58.627	-	-17.3	20	148	0
alpha-Chlordane (cis)	50	51.544	-	-3.1	20	129	0
4,4'-DDE	1.333	1.219	-	8.6	20	125	0
Endosulfan I	1.261	1.16	-	8	20	131	0
Dieldrin	1.315	1.307	-	0.6	20	142	0
Endrin	1.292	1.241	-	3.9	20	134	0
4,4'-DDD	1.086	1.039	-	4.3	20	133	0
Endosulfan II	1.175	1.084	-	7.7	20	132	0
4,4'-DDT	50	53.728	-	-7.5	20	134	0
Endrin Aldehyde	50	47.422	-	5.2	20	117	0
Methoxychlor	50	56.619	-	-13.2	20	132	0
Mirex	50	56.297	-	-12.6	20	134	0
Endosulfan Sulfate	50	52.922	-	-5.8	20	133	0
Endrin Ketone	1.275	1.247	-	2.2	20	140	0
Decachlorobiphenyl	50	51.585	-	-3.2	20	127	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST20	**Calibration Date**	: 09/30/24 07:49		
Lab File ID	: 20240930a-11	**Init. Calib. Date(s)**	: 07/22/24	07/22/24	
Sample No	: WG1977952-4	**Init. Calib. Times**	: 18:09	22:55	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	143	0
2,4,5,6-Tetrachloro-m-xyl	1.223	1.037	-	15.2	20	129	0
Hexachlorobenzene	50	47.939	-	4.1	20	131	0
alpha-BHC	1.533	1.388	-	9.5	20	129	0
gamma-BHC (lindane)	1.477	1.257	-	14.9	20	129	0
beta-BHC	50	46.004	-	8	20	126	0
delta-BHC	1.443	1.221	-	15.4	20	124	0
Heptachlor	1.403	1.24	-	11.6	20	136	0
Aldrin	1.268	1.181	-	6.9	20	138	0
Alachlor	50	52.465	-	-4.9	20	137	0
Chlorpyrifos	50	50.406	-	-0.8	20	135	0
Heptachlor Epoxide	1.268	1.117	-	11.9	20	136	0
gamma-Chlordane (trans)	1.09	1.137	-	-4.3	20	158	0
alpha-Chlordane (cis)	1.237	1.115	-	9.9	20	139	0
4,4'-DDE	1.193	1.077	-	9.7	20	134	0
Endosulfan I	1.153	1.045	-	9.4	20	139	0
Dieldrin	1.161	1.177	-	-1.4	20	152	0
Endrin	1.185	1.116	-	5.8	20	141	0
4,4'-DDD	0.979	0.92	-	6	20	140	0
Endosulfan II	1.098	0.99	-	9.8	20	139	0
4,4'-DDT	1.11	0.991	-	10.7	20	134	0
Endrin Aldehyde	50	44.4	-	11.2	20	124	0
Methoxychlor	50	51.237	-	-2.5	20	135	0
Mirex	50	52.39	-	-4.8	20	139	0
Endosulfan Sulfate	50	49.378	-	1.2	20	139	0
Endrin Ketone	1.192	1.141	-	4.3	20	146	0
Decachlorobiphenyl	50	45.593	-	8.8	20	125	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:35
Operator : PEST11:peg
Sample   : wg1976509-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:27:26 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:27:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	138	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.076	-3.6	139	0.00
3	t	Hexachlorobenzene		1.406	1.193	15.1	119	0.00
4	t	alpha-BHC		1.461	1.708	-16.9	145	0.00
5	t	gamma-BHC (lindane)		1.395	1.526	-9.4	141	0.00
6	t	beta-BHC		0.628	0.643	-2.4	142	0.00
7	t	delta-BHC		1.374	1.503	-9.4	137	0.00
8	t	Heptachlor		1.321	1.535	-16.2	152#	0.00
9	t	Aldrin		1.233	1.452	-17.8	151#	0.00
10	t	Alachlor		0.230	0.201	12.6	120	0.00
11	t	Chlorpyrifos		0.590	0.680	-15.3	169#	0.00
12	t	Heptachlor Epoxide		1.185	1.306	-10.2	146	0.00
13	t	gamma-Chlordane (trans)		1.077	1.397	-29.7#	174#	0.00
14	t	alpha-Chlordane (cis)		1.216	1.377	-13.2	151#	0.00
15	t	4,4'-DDE		1.192	1.378	-15.6	151#	0.00
16	t	Endosulfan I		1.116	1.247	-11.7	148	0.00
17	t	Dieldrin		1.135	1.425	-25.6#	163#	0.00
18	t	Endrin		1.153	1.337	-16.0	151#	0.00
19	t	4,4'-DDD		0.927	1.123	-21.1#	158#	0.00
20	t	Endosulfan II		1.052	1.216	-15.6	152#	0.00
21	t	4,4'-DDT		1.058	1.223	-15.6	152#	0.00
22	t	Endrin Aldehyde		0.886	0.904	-2.0	138	0.00
23	t	Methoxychlor		0.592	0.652	-10.1	155#	0.00
24	t	Mirex		0.938	1.045	-11.4	159#	0.00
25	t	Endosulfan Sulfate		1.010	1.185	-17.3	161#	0.00
26	t	Endrin Ketone		1.183	1.312	-10.9	147	0.00
27	s	Decachlorobiphenyl		1.163	0.988	15.0	128	0.00

Signal #2

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:35
Operator : PEST11:peg
Sample   : wg1976509-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:27:26 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:27:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	110	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	1.017	8.7	101	0.00
3	t	Hexachlorobenzene		1.239	1.080	12.8	101	0.00
4	t	alpha-BHC		1.620	1.504	7.2	96	0.00
5	t	gamma-BHC (lindane)		1.539	1.349	12.3	95	0.00
6	t	beta-BHC	*	50.000	45.834	8.3	97	0.00
7	t	delta-BHC		1.523	1.332	12.5	93	0.00
8	t	Heptachlor		1.598	1.321	17.3	91	0.00
9	t	Aldrin		1.435	1.249	13.0	94	0.00
10	t	Alachlor	*	50.000	52.179	-4.4	104	0.00
11	t	Chlorpyrifos	*	50.000	44.912	10.2	92	0.00
12	t	Heptachlor Epoxide		1.425	1.151	19.2	92	0.00
13	t	gamma-Chlordane (trans)		1.312	1.197	8.8	105	0.00
14	t	alpha-Chlordane (cis)		1.446	1.174	18.8	93	0.00
15	t	4,4'-DDE		1.343	1.158	13.8	92	0.00
16	t	Endosulfan I		1.332	1.089	18.2	93	0.00
17	t	Dieldrin		1.327	1.230	7.3	101	0.00
18	t	Endrin		1.347	1.165	13.5	95	0.00
19	t	4,4'-DDD		1.084	0.984	9.2	99	0.00
20	t	Endosulfan II		1.214	1.049	13.6	98	0.00
21	t	4,4'-DDT		1.250	1.046	16.3	92	0.00
22	t	Endrin Aldehyde	*	50.000	42.156	15.7	90	0.00
23	t	Methoxychlor		0.704	0.548	22.2#	94	0.00
24	t	Mirex	*	50.000	46.152	7.7	98	0.00
25	t	Endosulfan Sulfate		1.199	1.004	16.3	98	0.00
26	t	Endrin Ketone		1.261	1.156	8.3	103	0.00
27	s	Decachlorobiphenyl		1.060	0.820	22.6#	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:35
Operator : PEST11:peg
Sample   : wg1976509-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:27:26 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:27:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.27#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.67#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.20#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.32#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.20#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.33#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.57#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.96#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.19#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.85#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.01#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.88#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.90#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:35
Operator : PEST11:peg
Sample : wg1976509-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:27:26 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:27:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.187	1.260	317.0E6	202.0E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.515	1.707	682.3E6	410.7E6	51.780M4	45.644M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		103.56%	91.29%
27)	s	Decachlorobi	6.118	6.754	626.5E6	331.4E6	42.477M4	38.691M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		84.95%	77.38%
		Target Compounds						
3)	t	Hexachlorobe	1.715	2.008	756.4E6	436.3E6	42.422M4	43.586M4
4)	t	alpha-BHC	1.809	2.097	1082.9E6	607.7E6	58.464M4	46.439M4
5)	t	gamma-BHC (l	1.999	2.366	967.8E6	545.0E6	54.689M4	43.824
6)	t	beta-BHC	2.053	2.430	407.7E6	234.0E6	51.210M4	45.834M3
7)	t	delta-BHC	2.174	2.682	952.9E6	538.1E6	54.686M4	43.740M4
8)	t	Heptachlor	2.328	2.740	973.2E6	533.6E6	58.095M4	41.340
9)	t	Aldrin	2.558	3.042	920.6E6	504.7E6	58.866M4	43.534M4
10)	t	Alachlor	2.676	2.936	127.6E6	77137443	43.694M4	52.179M4
11)	t	Chlorpyrifos	2.765	3.275	430.9E6	255.0E6	57.607M4	44.912M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:35
Operator : PEST11:peg
Sample : wg1976509-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:27:26 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:27:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.077	3.631	828.3E6	465.0E6	55.093M4	40.379M4
13)	t	gamma-Chlord	3.196	3.844	885.5E6	483.5E6	64.835M4	45.625M3
14)	t	alpha-Chlord	3.325	4.012	873.0E6	474.4E6	56.599M3	40.611
15)	t	4,4'-DDE	3.423	4.230	873.5E6	467.7E6	57.809M4	43.114M4
16)	t	Endosulfan I	3.454	4.074	790.7E6	440.0E6	55.860M4	40.887
17)	t	Dieldrin	3.704	4.390	903.6E6	496.9E6	62.772M4	46.339M4
18)	t	Endrin	3.950	4.705	848.1E6	470.5E6	58.010M4	43.240
19)	t	4,4'-DDD	4.071	4.845	711.9E6	397.5E6	60.537M4	45.394M4
20)	t	Endosulfan I	4.204	4.916	771.0E6	423.9E6	57.789M4	43.235M4
21)	t	4,4'-DDT	4.389	5.132	775.6E6	422.8E6	57.785	41.855M3
22)	t	Endrin Aldeh	4.649	5.224	573.4E6	318.5E6	51.005	42.156M4
23)	t	Methoxychlor	4.909	5.718	413.3E6	221.5E6	55.060	38.926M4
24)	t	Mirex	4.950	5.837	662.7E6	338.3E6	55.730	46.152M3
25)	t	Endosulfan S	5.056	5.461	751.3E6	405.6E6	58.675M4	41.865M4
26)	t	Endrin Keton	5.290	5.878	832.2E6	466.8E6	55.461M4	45.831M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:35
Operator : PEST11:peg
Sample : wg1976509-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:27:26 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:27:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

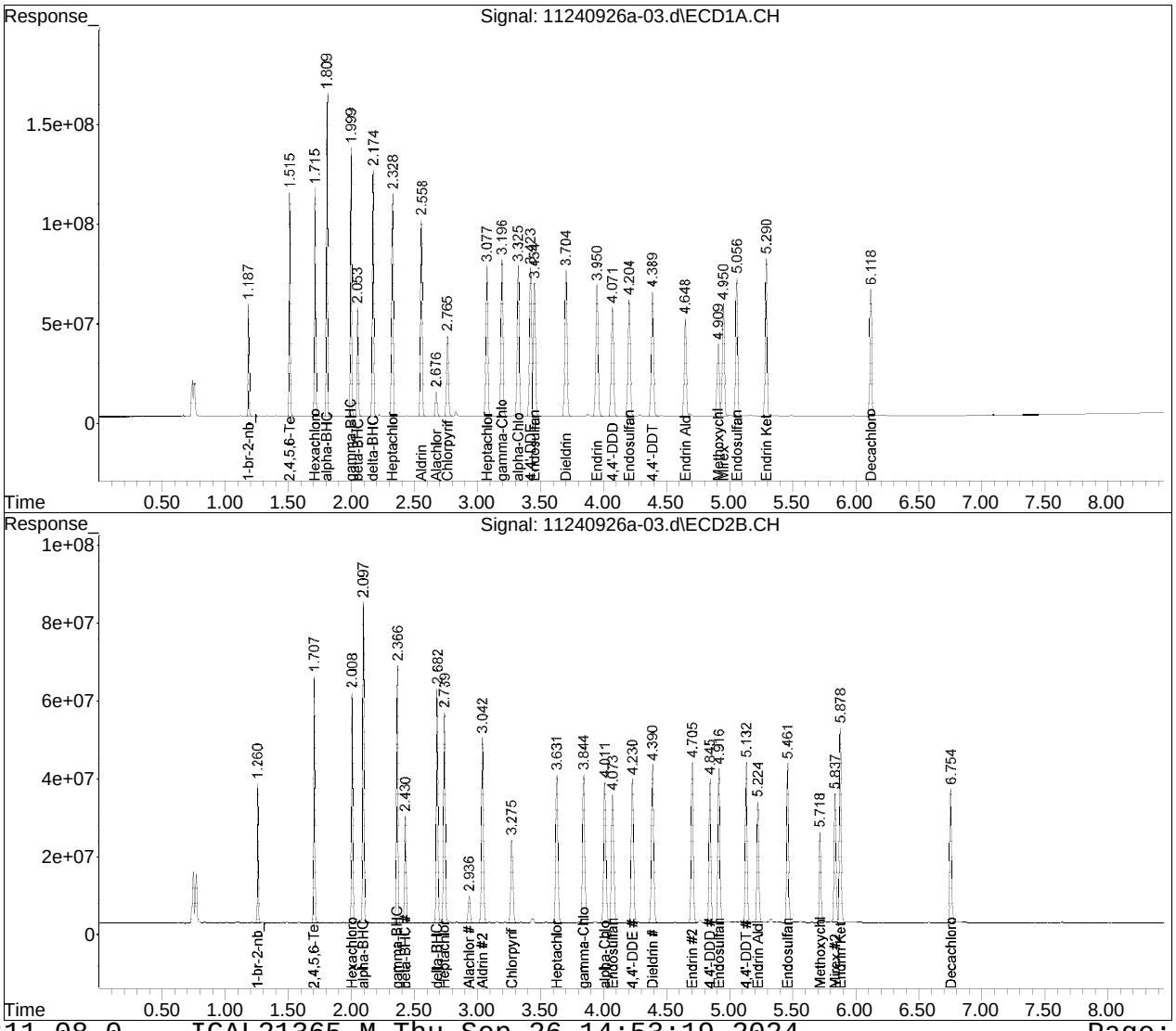
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:35
Operator : PEST11:peg
Sample : wg1976509-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:27:26 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:27:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

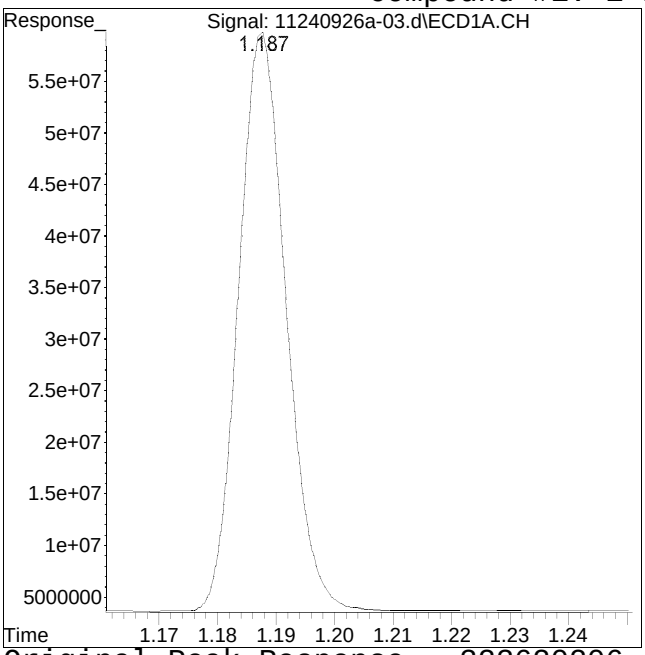
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

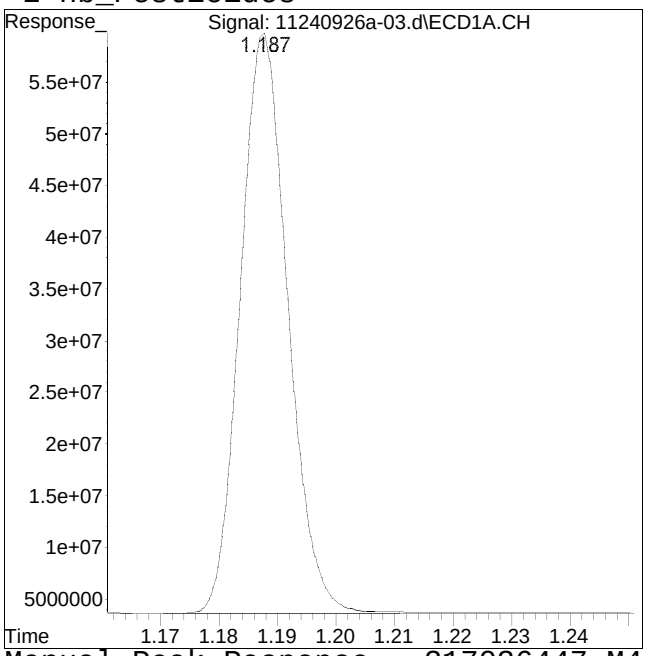


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #1: 1-br-2-nb_Pesticides



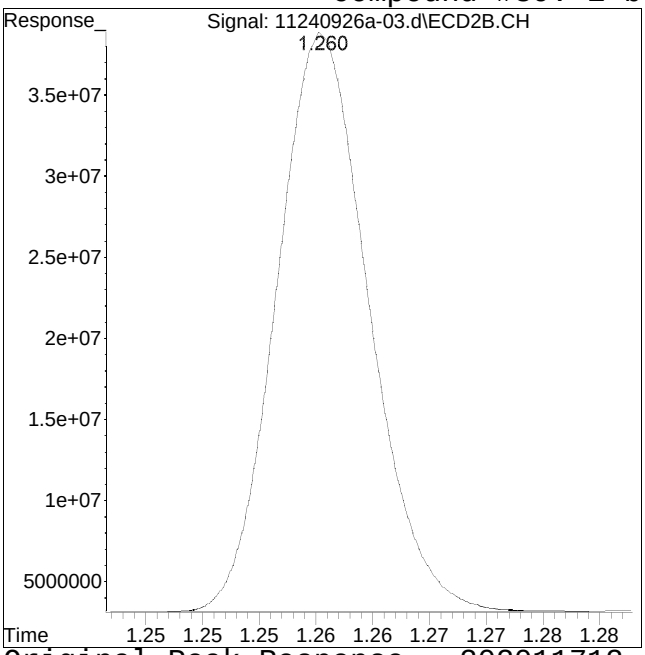


Original Peak Response = 323620206 Manual Peak Response = 317036447 M4
M4 = Poor automated baseline construction.

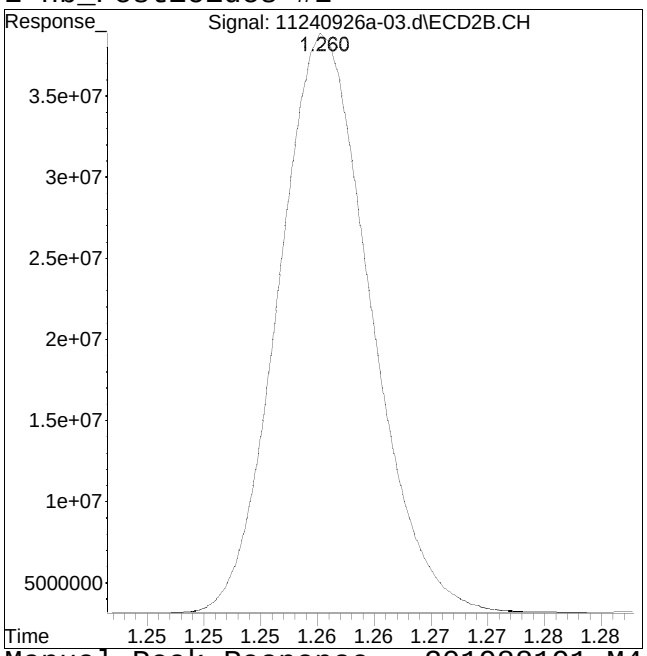
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 202011712



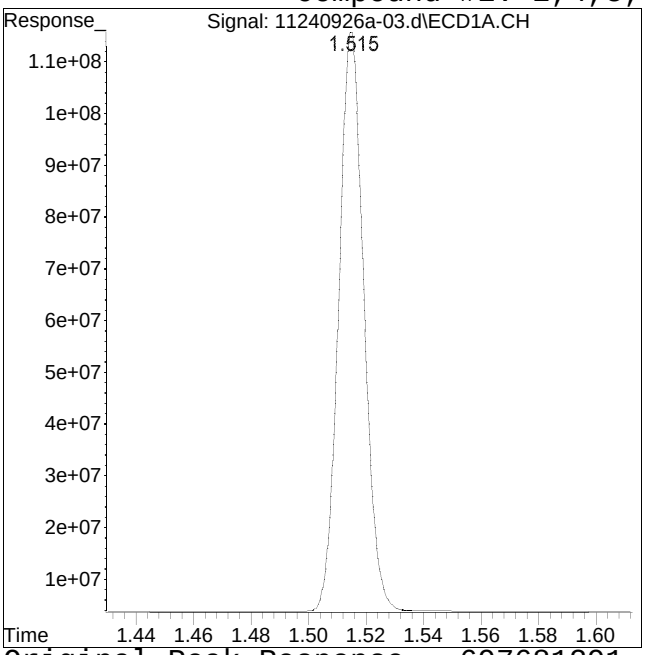
Manual Peak Response = 201988191 M4

M4 = Poor automated baseline construction.

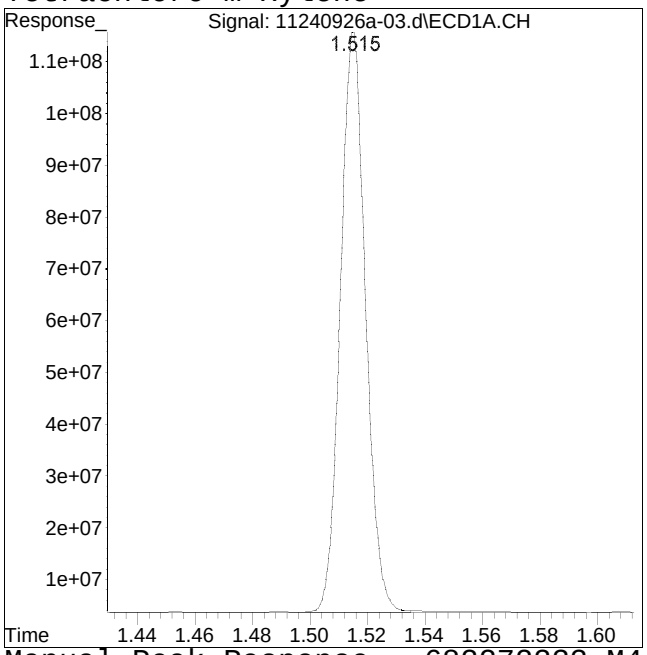
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 697681291



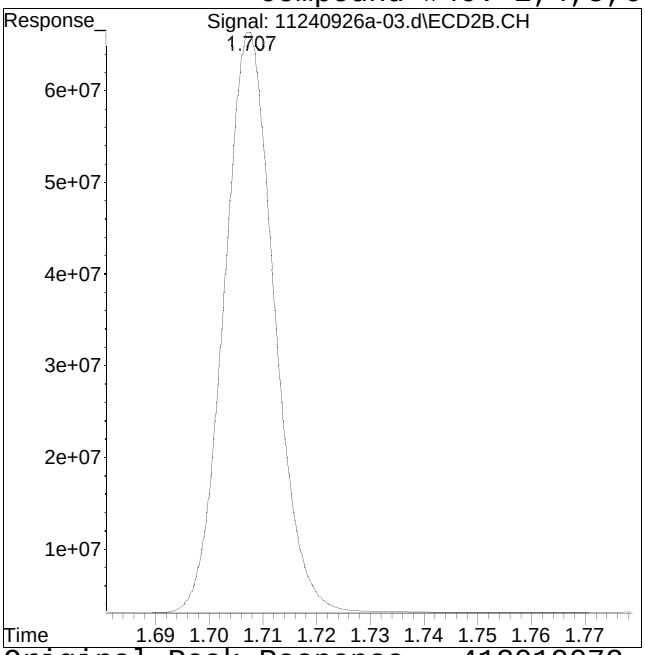
Manual Peak Response = 682272333 M4

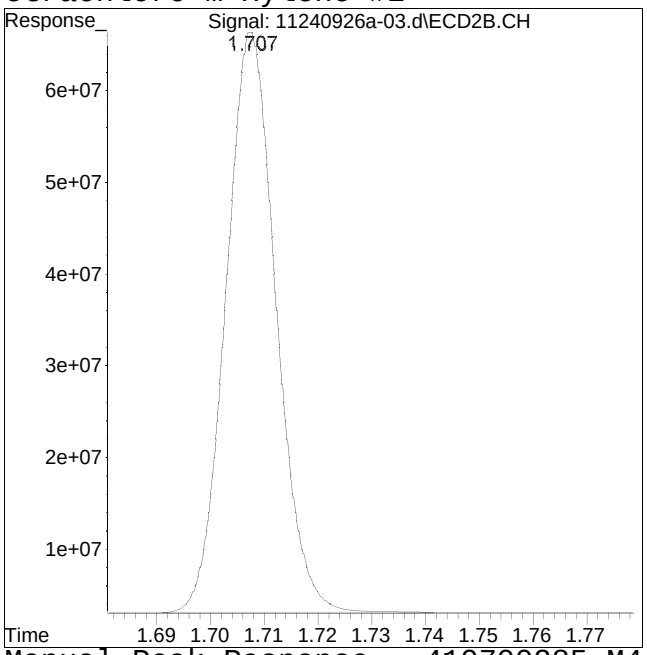
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



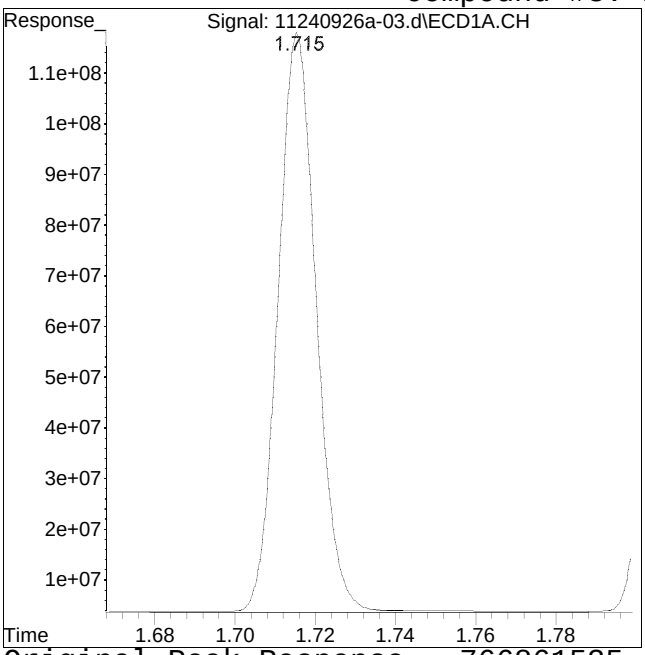


Original Peak Response = 412019072 Manual Peak Response = 410700285 M4
M4 = Poor automated baseline construction.

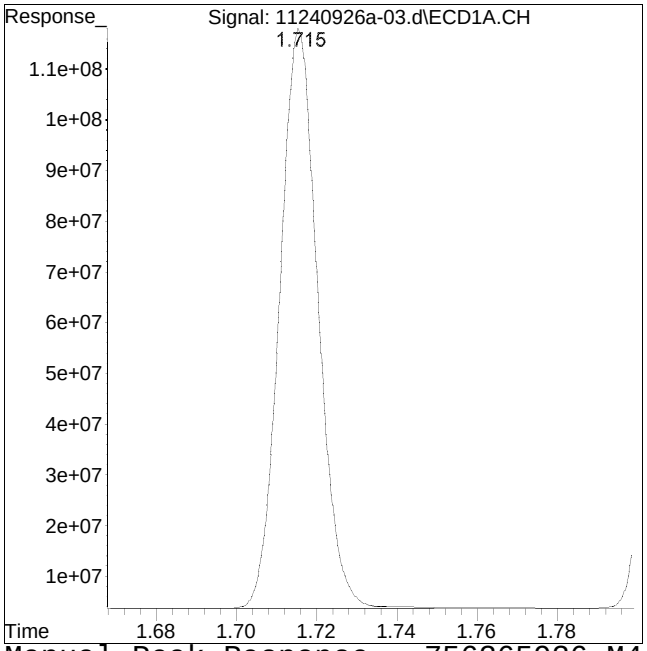
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #3: Hexachlorobenzene



Original Peak Response = 766861535



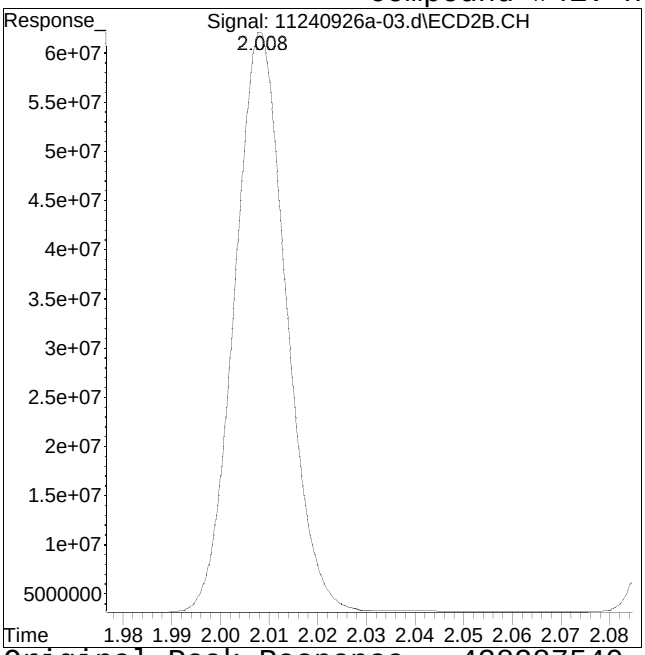
Manual Peak Response = 756365936 M4

M4 = Poor automated baseline construction.

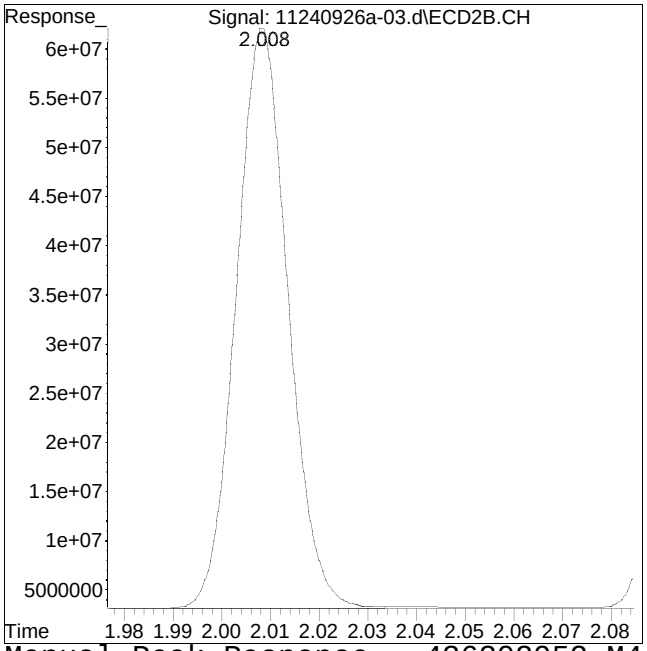
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 438287540



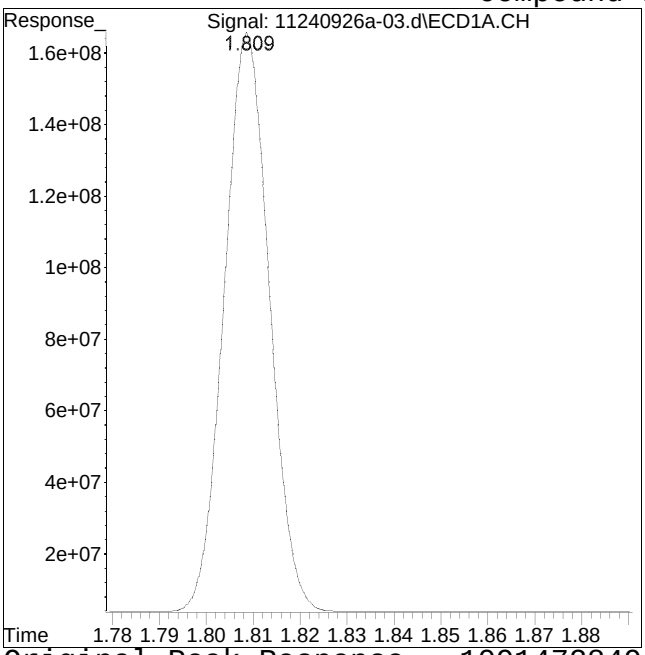
Manual Peak Response = 436302952 M4

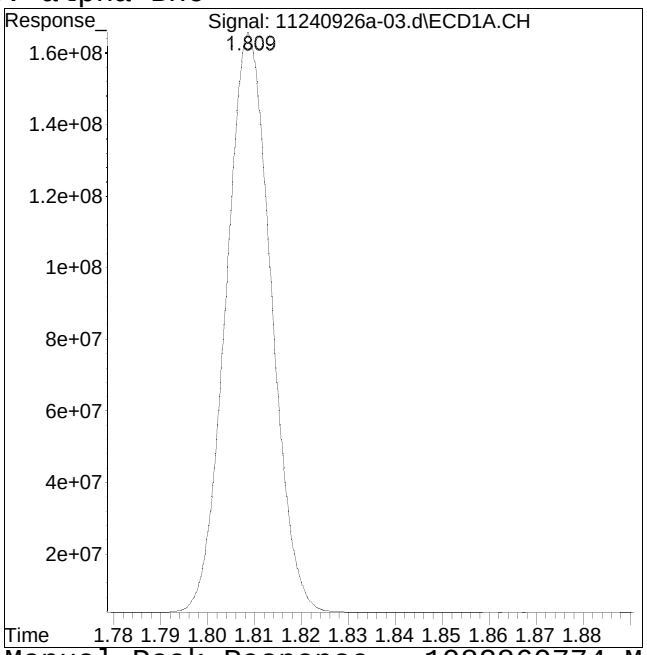
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #4: alpha-BHC



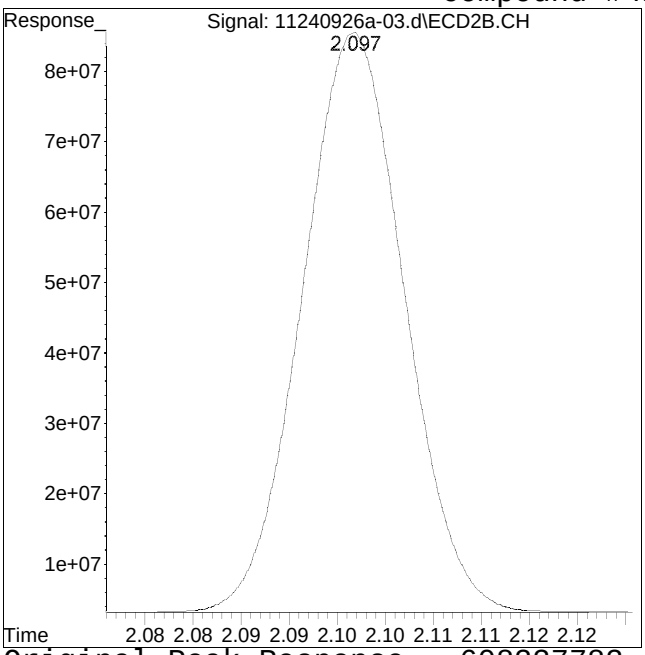


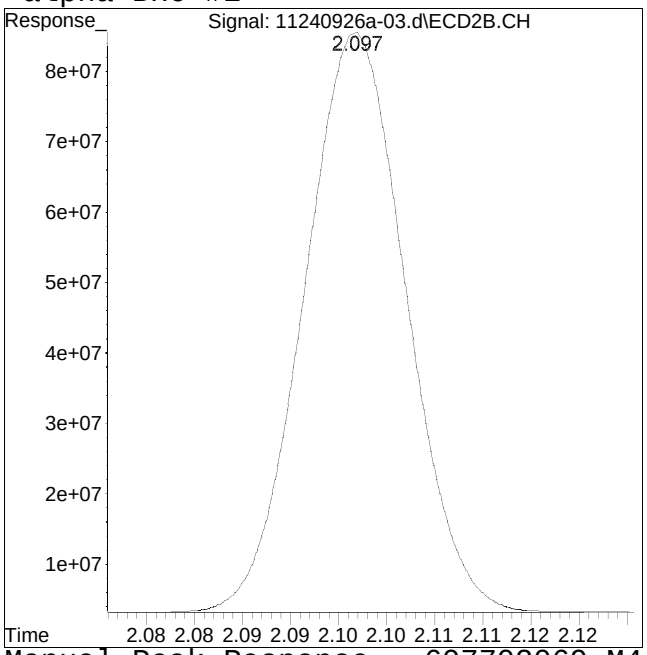
Original Peak Response = 1091472849 Manual Peak Response = 1082860774 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #42: alpha-BHC #2



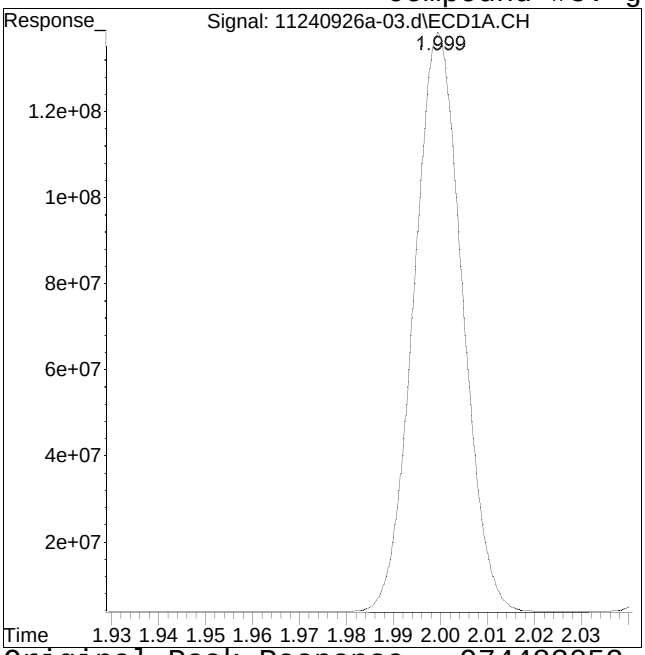


Original Peak Response = 608337783 Manual Peak Response = 607702069 M4
M4 = Poor automated baseline construction.

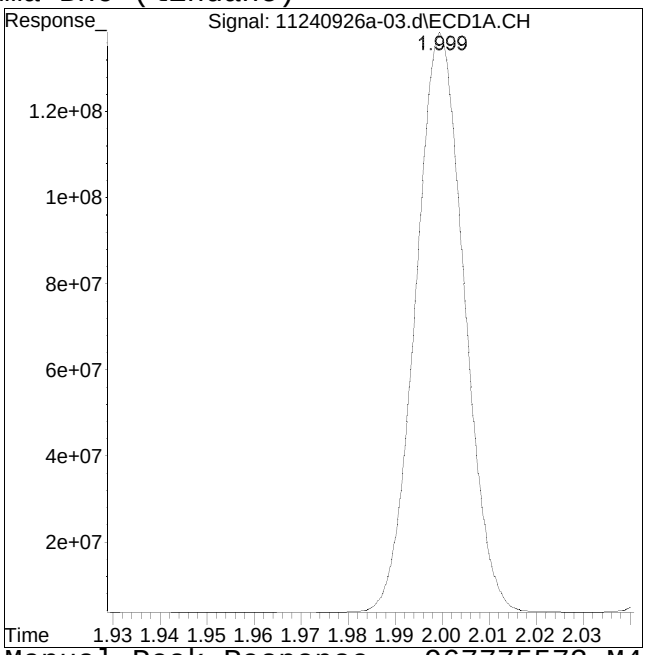
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 974483052



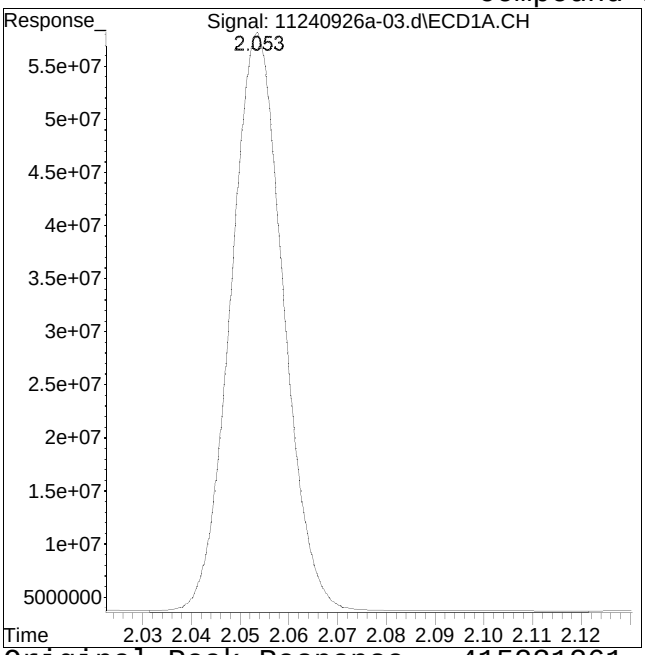
Manual Peak Response = 967775573 M4

M4 = Poor automated baseline construction.

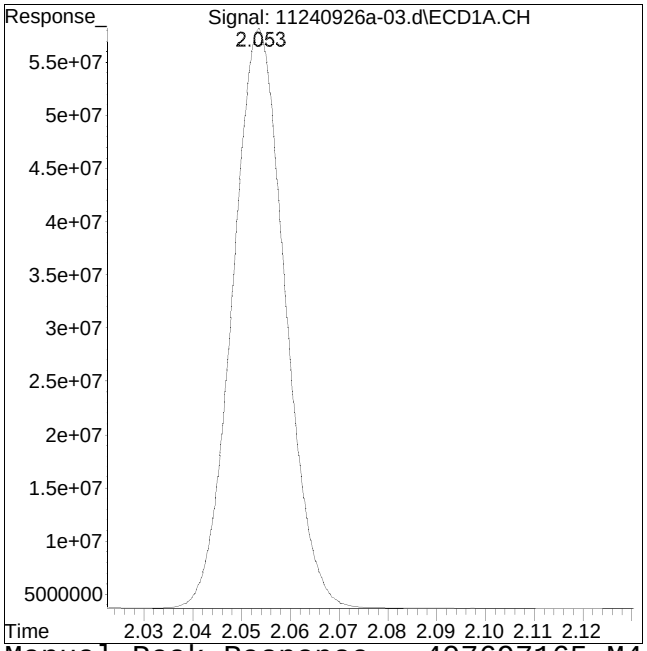
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #6: beta-BHC



Original Peak Response = 415231261



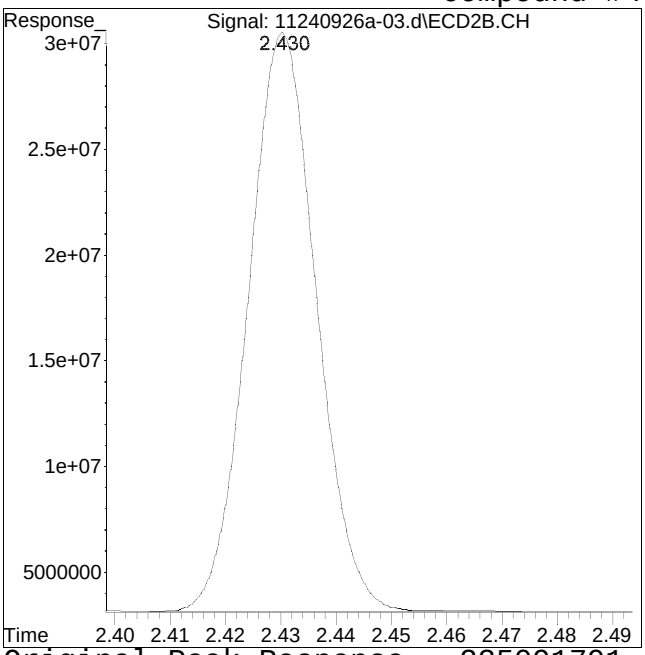
Manual Peak Response = 407697165 M4

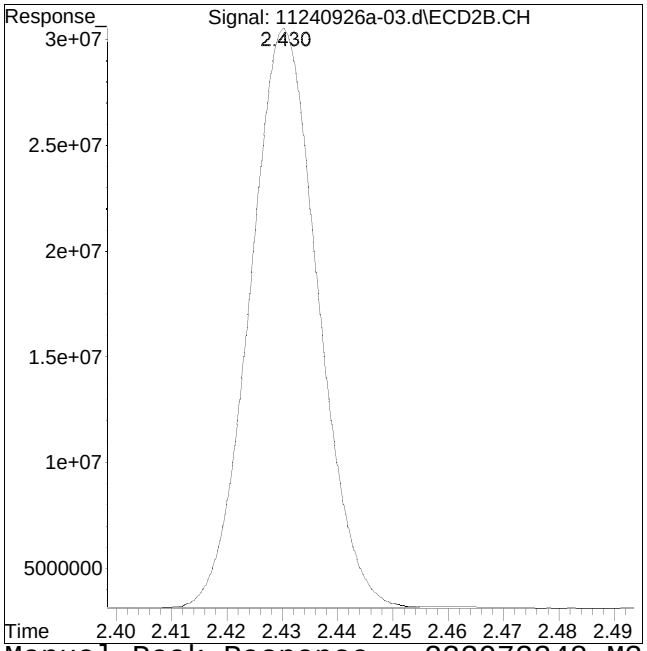
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #44: beta-BHC #2



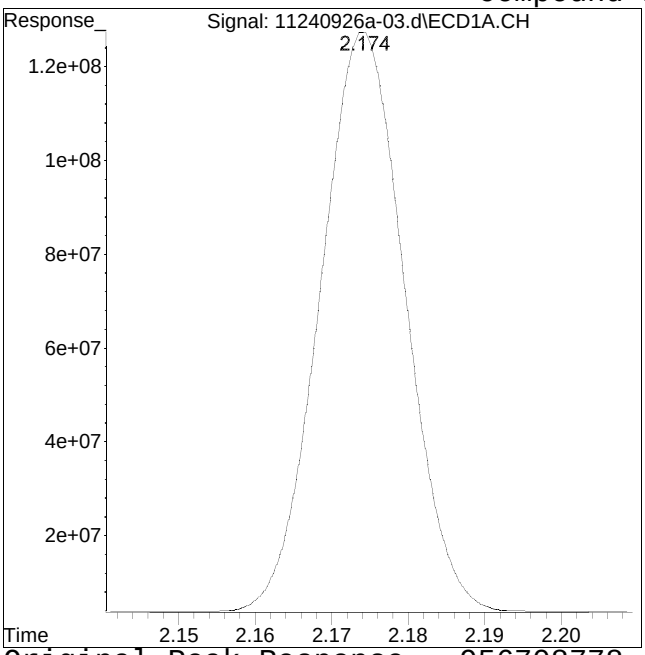


Original Peak Response = 235091791 Manual Peak Response = 233973348 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

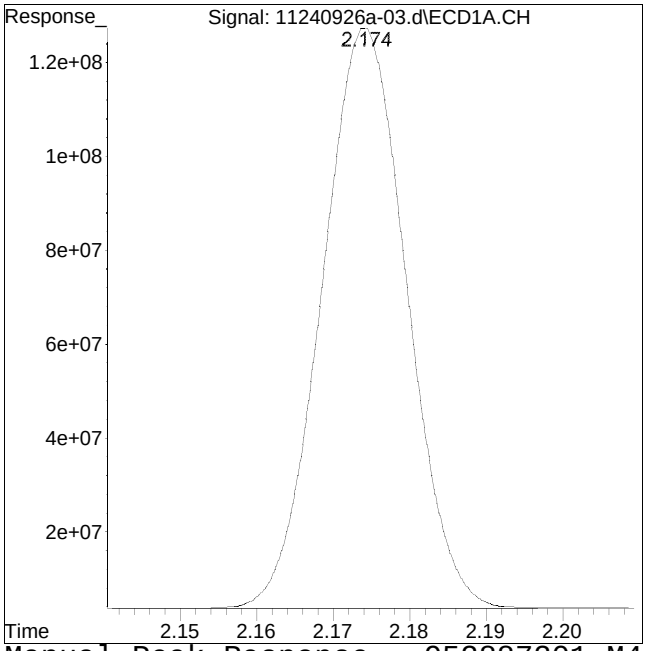
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #7: delta-BHC



Original Peak Response = 956708778



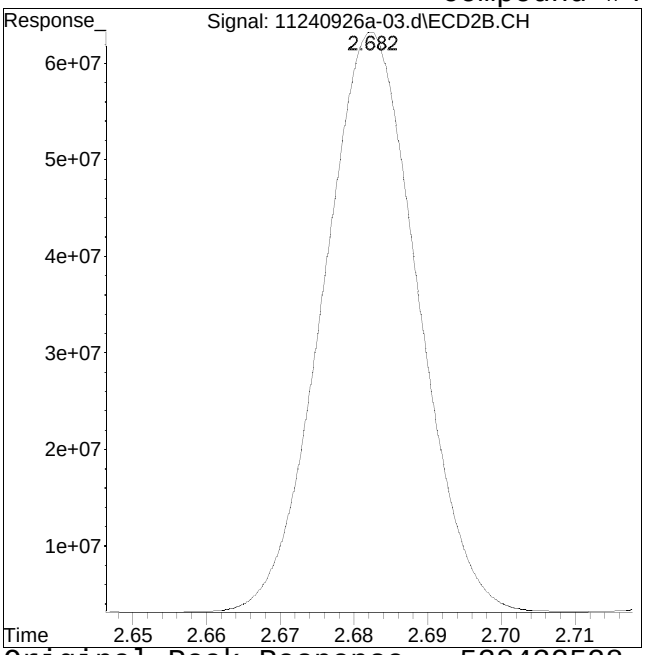
Manual Peak Response = 952887201 M4

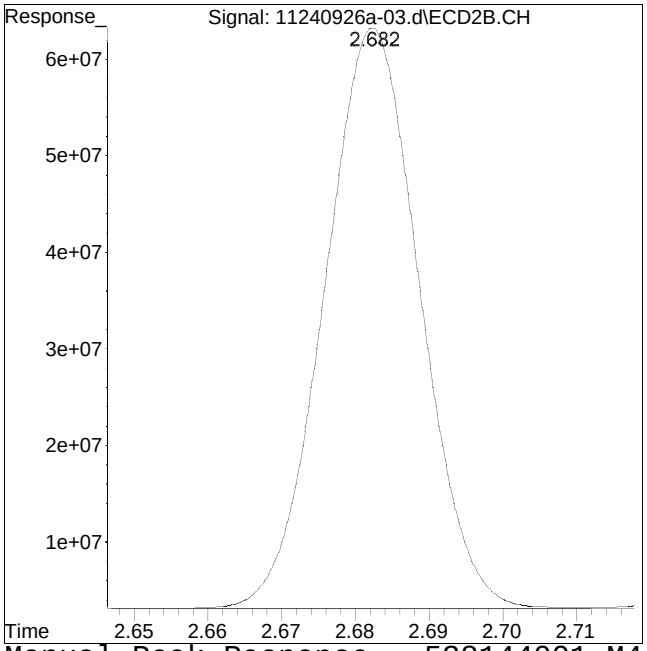
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #45: delta-BHC #2



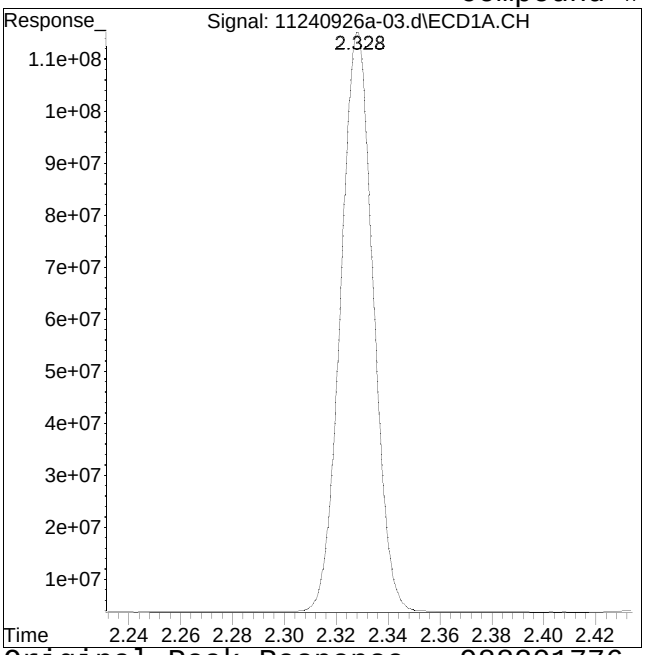


Original Peak Response = 538432528 Manual Peak Response = 538144001 M4
M4 = Poor automated baseline construction.

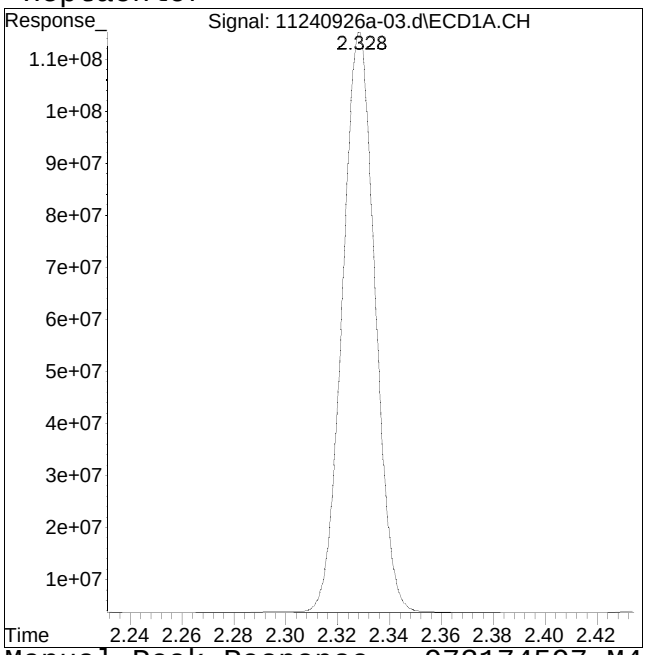
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #8: Heptachlor



Original Peak Response = 988201776



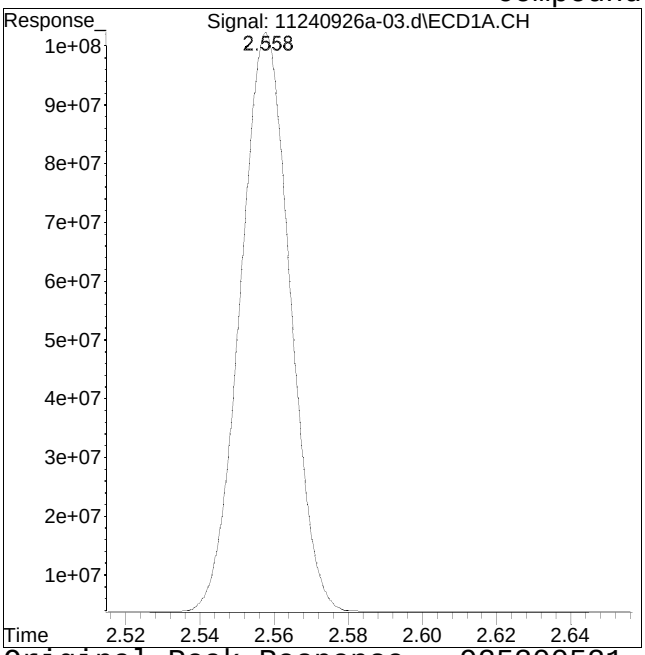
Manual Peak Response = 973174597 M4

M4 = Poor automated baseline construction.

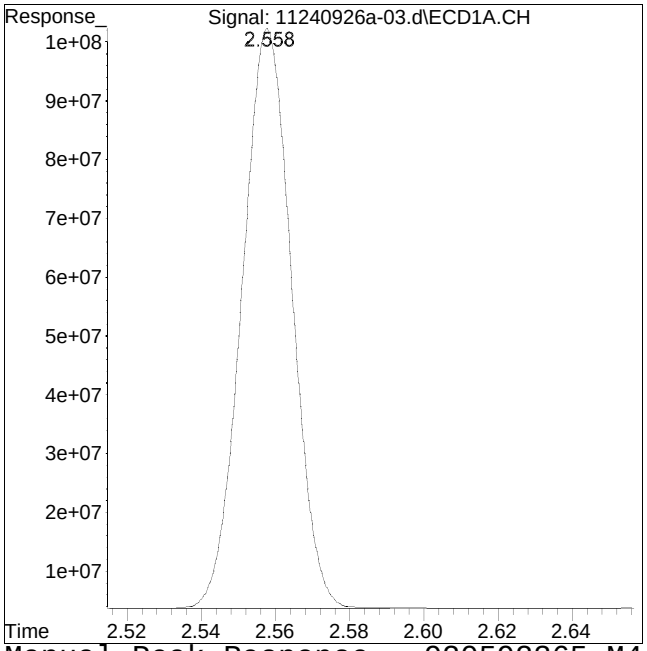
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #9: Aldrin



Original Peak Response = 925300521



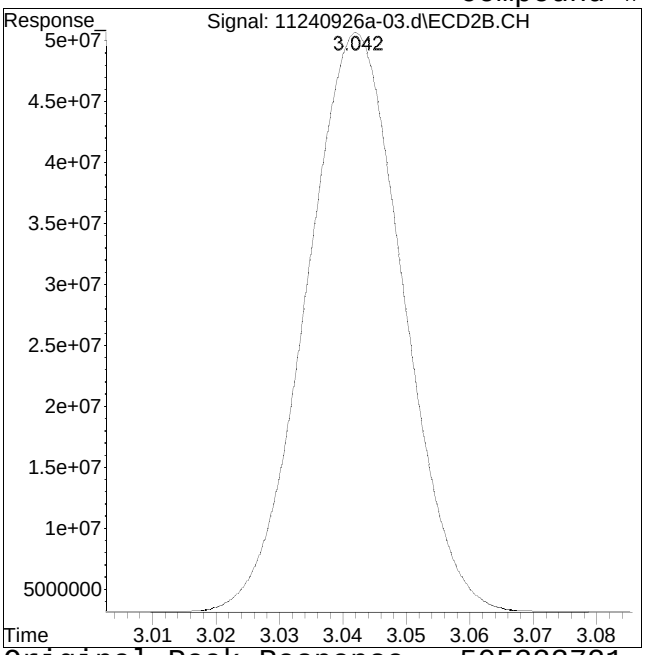
Manual Peak Response = 920592365 M4

M4 = Poor automated baseline construction.

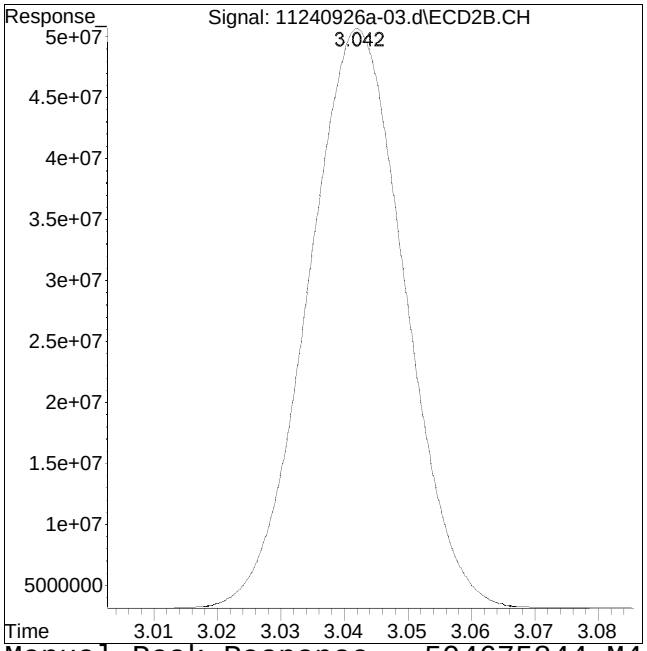
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #47: Aldrin #2



Original Peak Response = 505323721



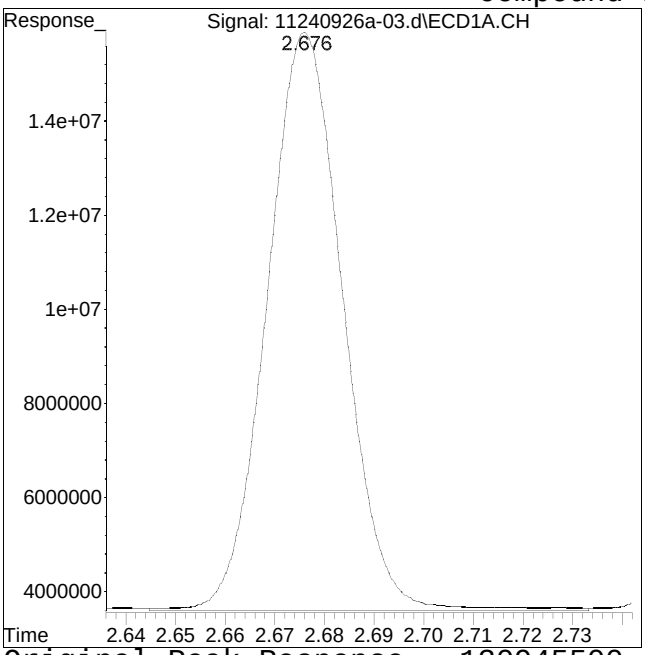
Manual Peak Response = 504675844 M4

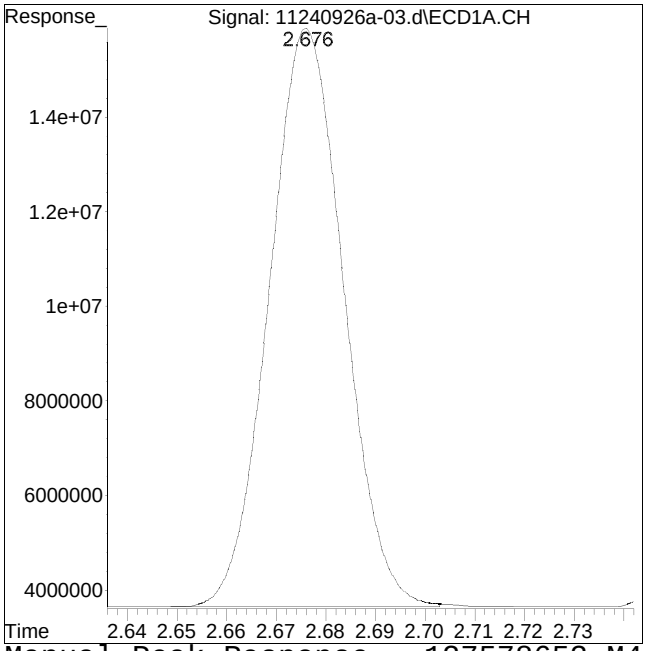
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #10: Alachlor



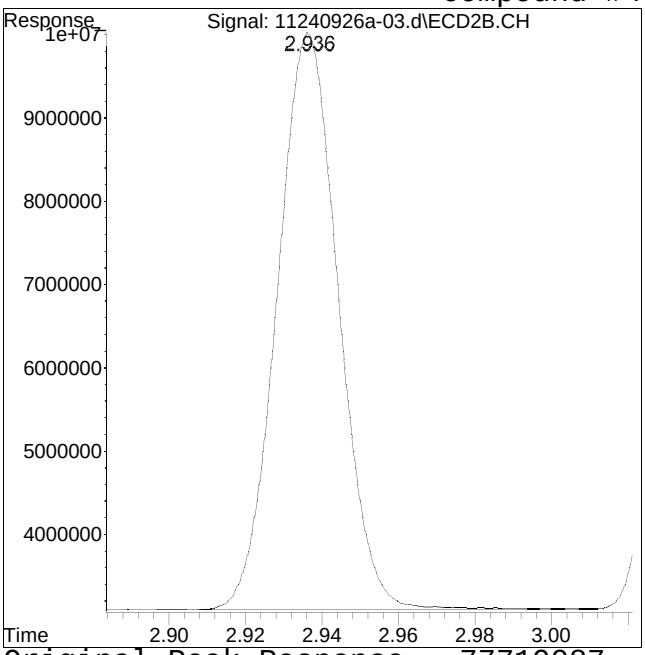


Original Peak Response = 130945500 Manual Peak Response = 127578653 M4
M4 = Poor automated baseline construction.

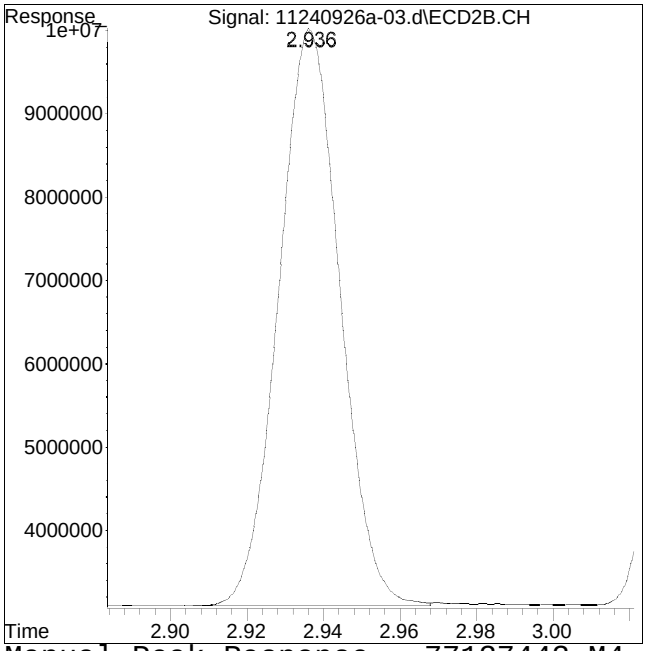
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #48: Alachlor #2



Original Peak Response = 77719087



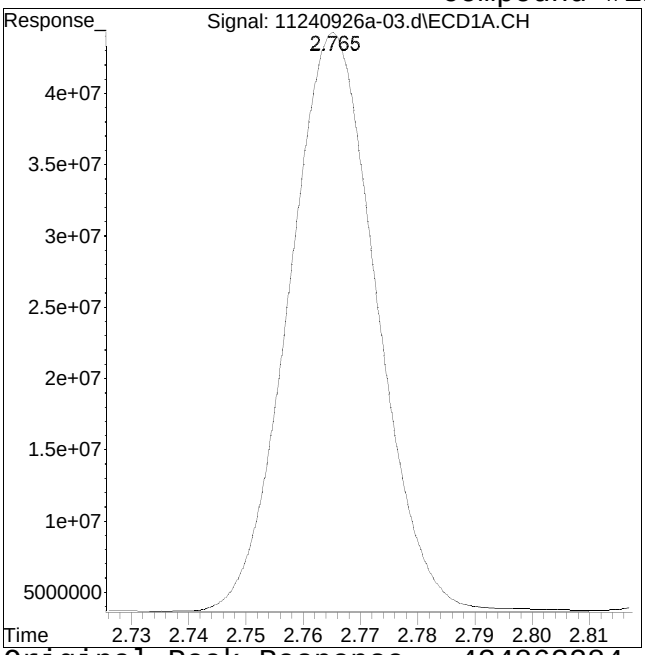
Manual Peak Response = 77137443 M4

M4 = Poor automated baseline construction.

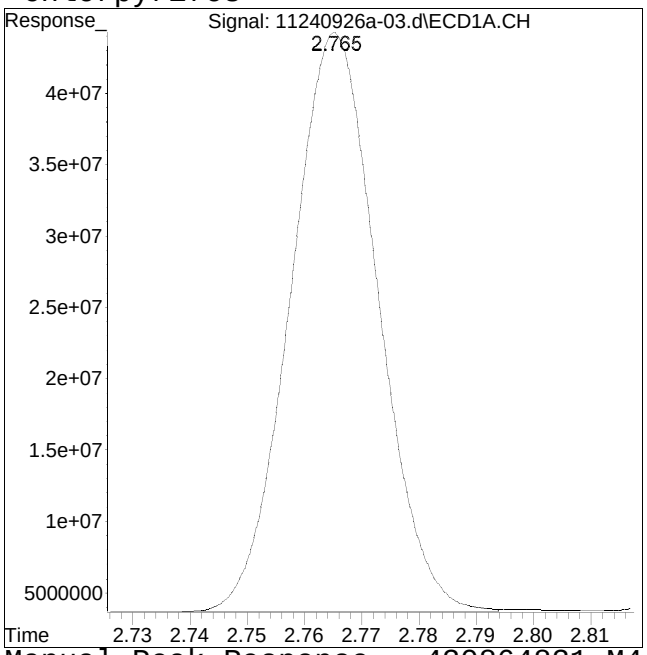
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #11: Chlorpyrifos



Original Peak Response = 434863384



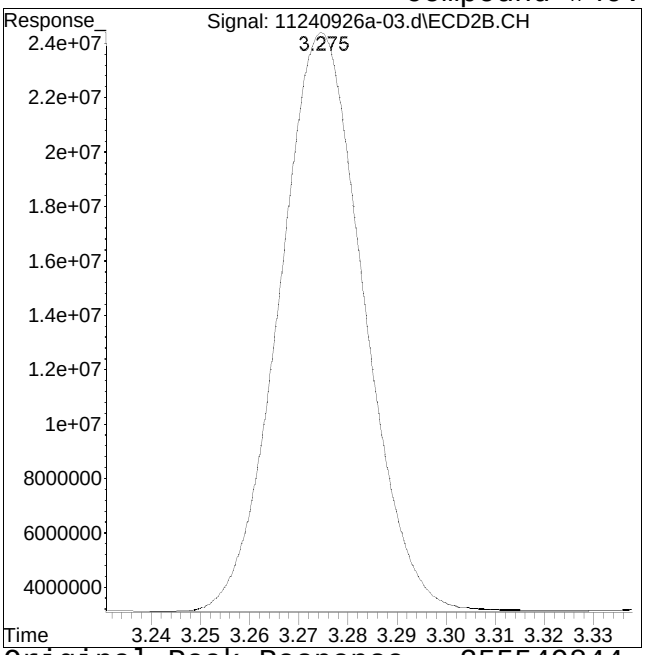
Manual Peak Response = 430864831 M4

M4 = Poor automated baseline construction.

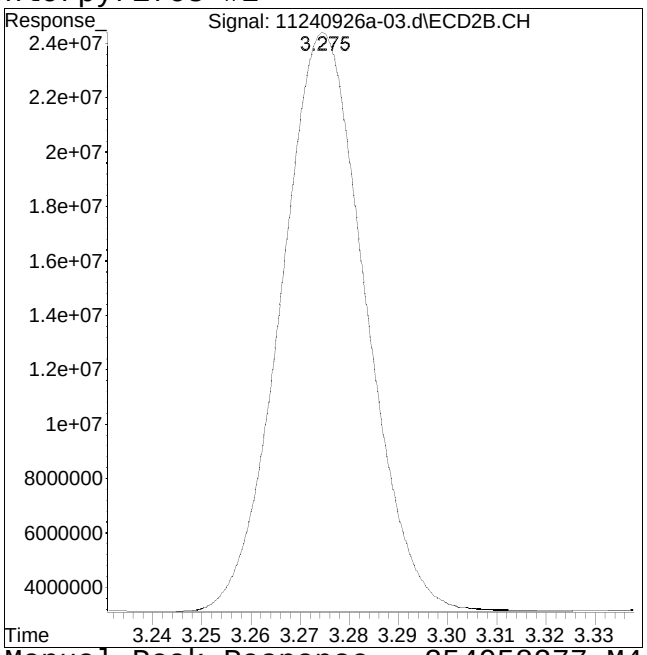
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 255549844



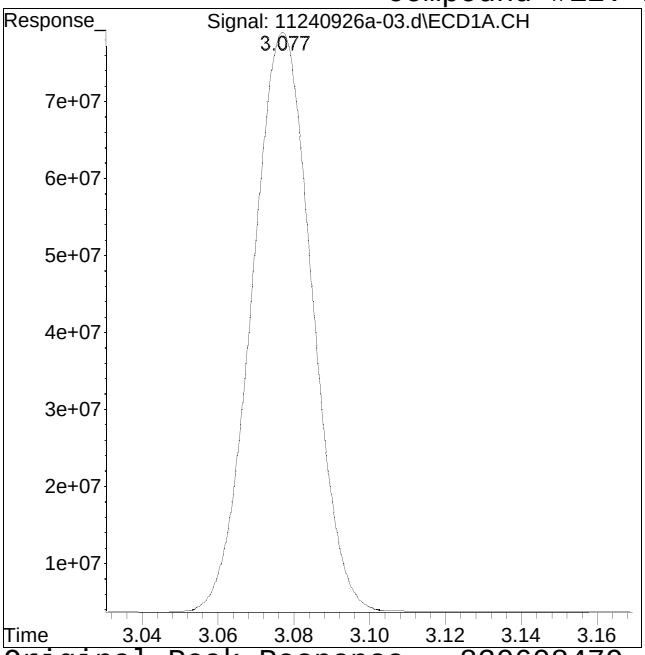
Manual Peak Response = 254958277 M4

M4 = Poor automated baseline construction.

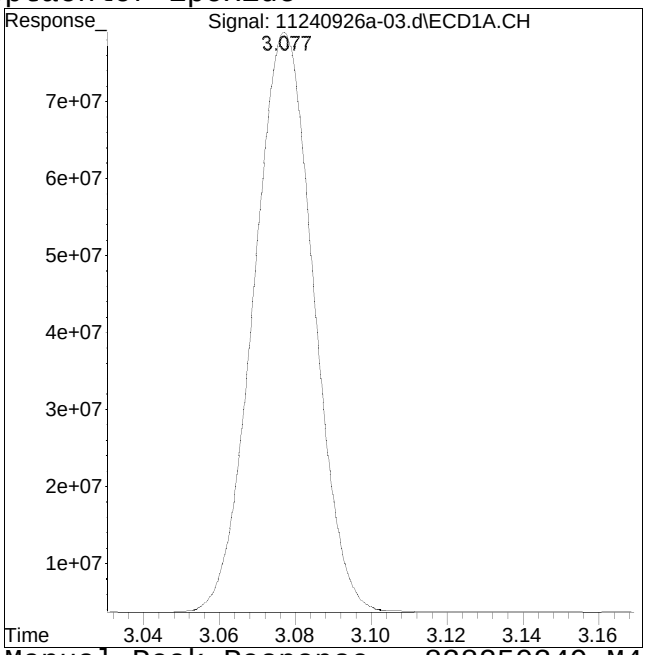
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 830608479



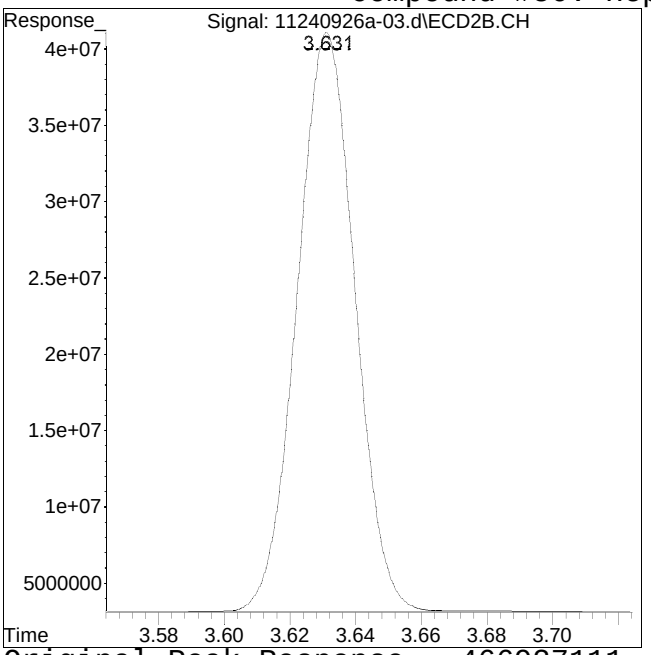
Manual Peak Response = 828250349 M4

M4 = Poor automated baseline construction.

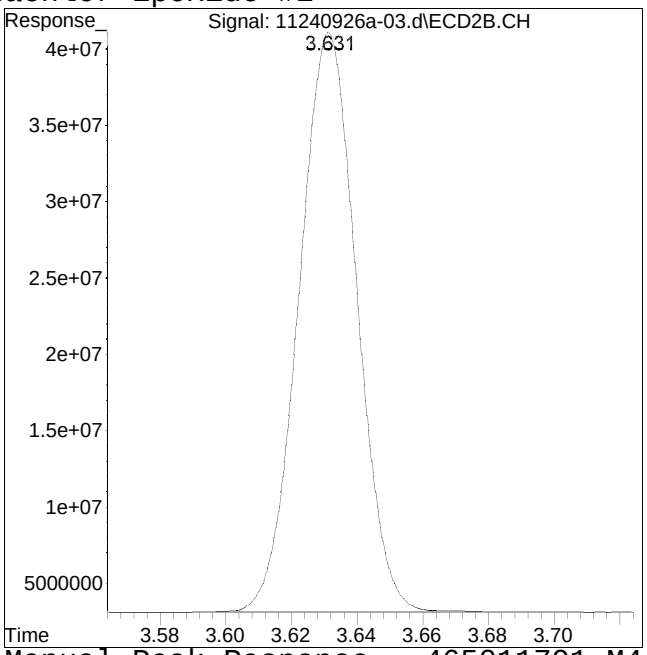
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 466927111



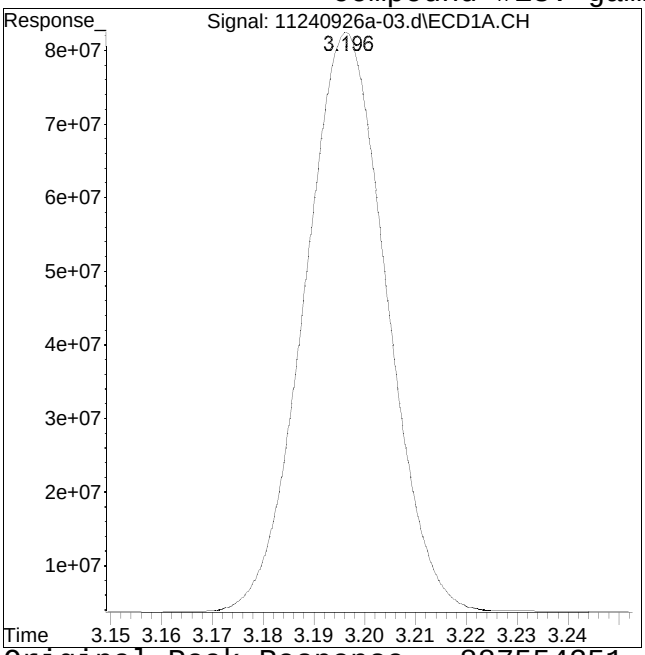
Manual Peak Response = 465011791 M4

M4 = Poor automated baseline construction.

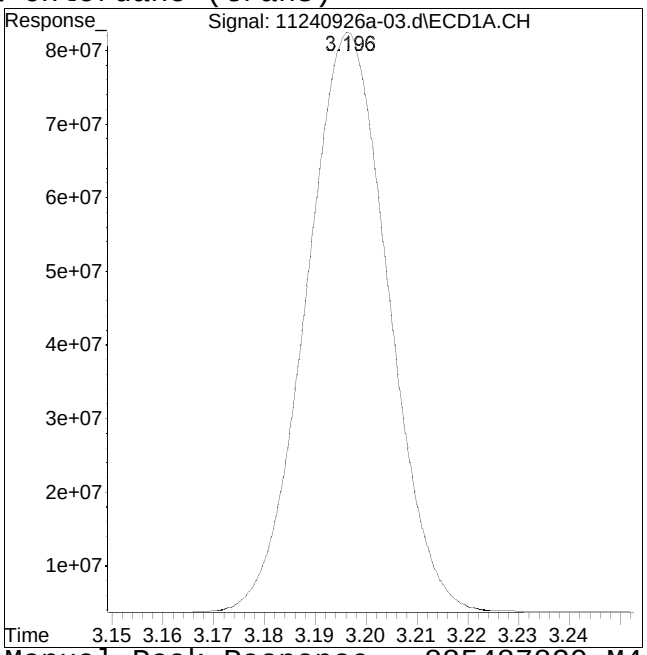
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 887554351



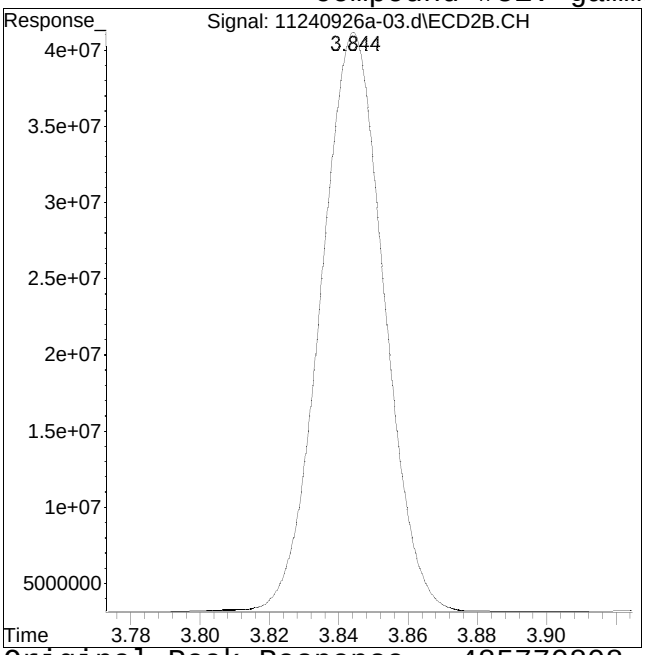
Manual Peak Response = 885487820 M4

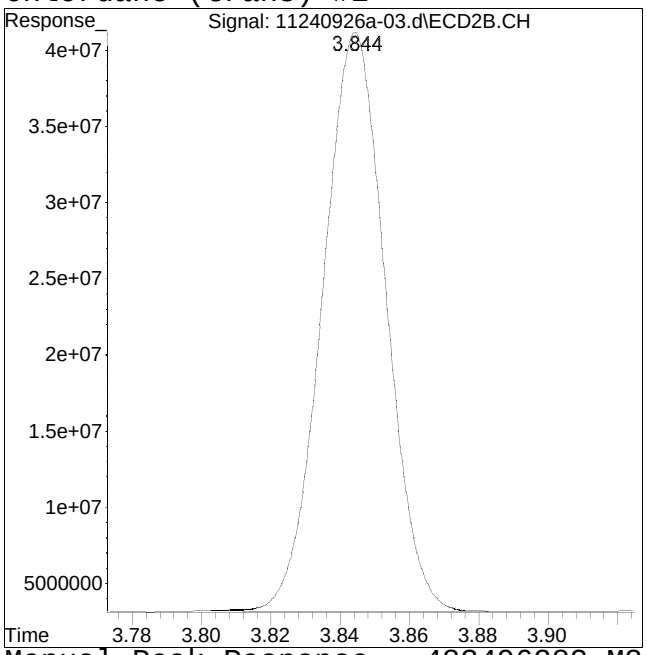
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #51: gamma-Chlordane (trans) #2



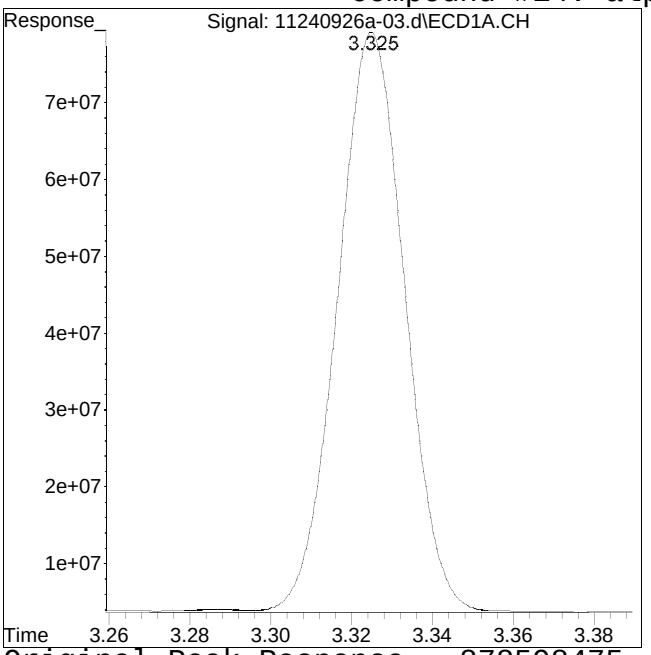


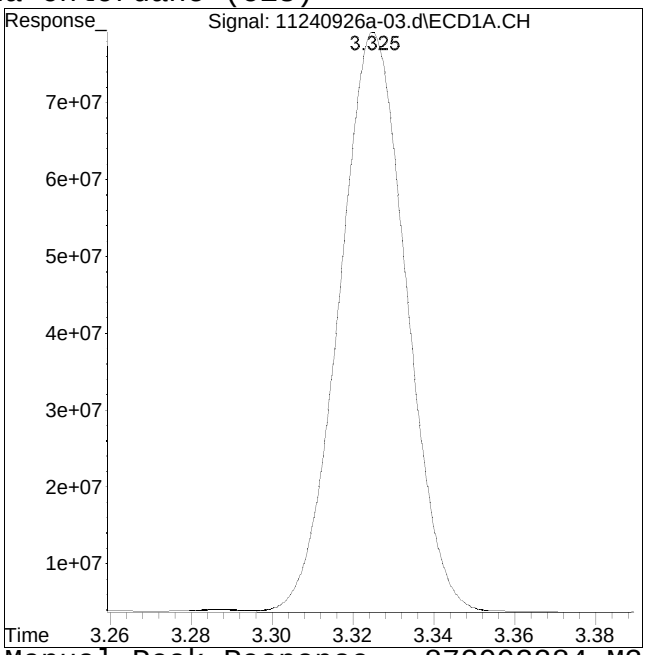
Original Peak Response = 485770808 Manual Peak Response = 483496282 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #14: alpha-Chlordane (cis)



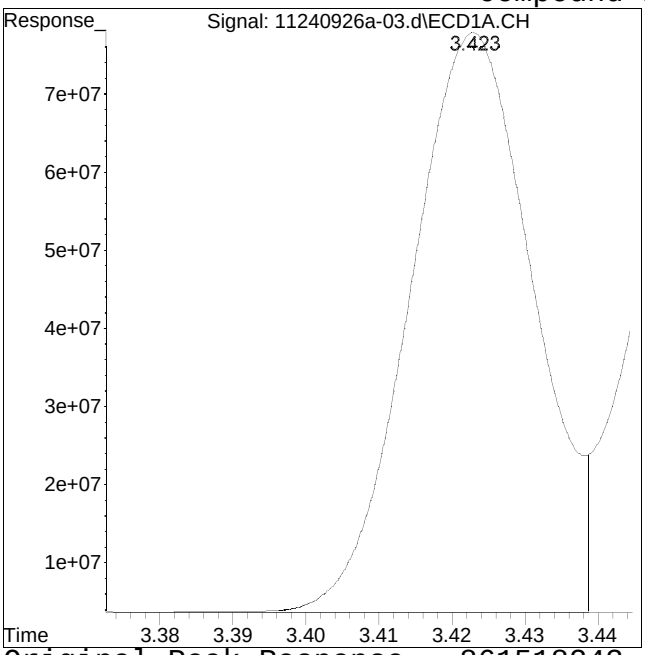


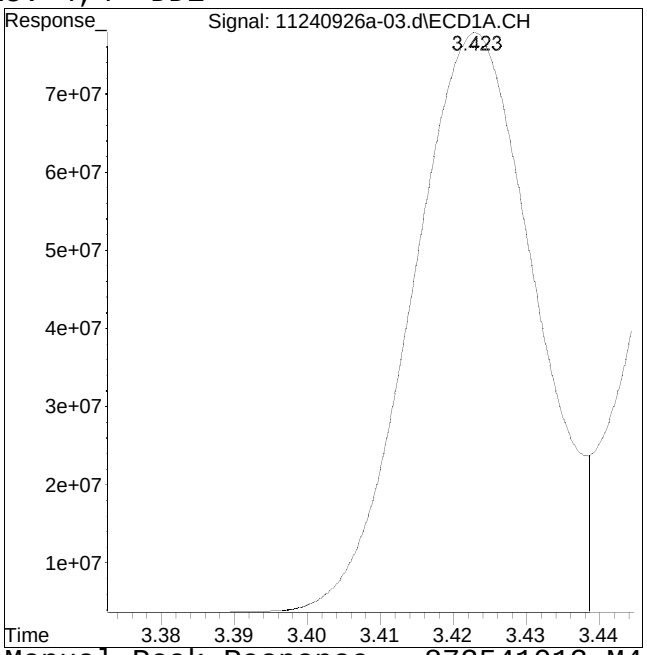
Original Peak Response = 878598475 Manual Peak Response = 872992284 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #15: 4,4'-DDE



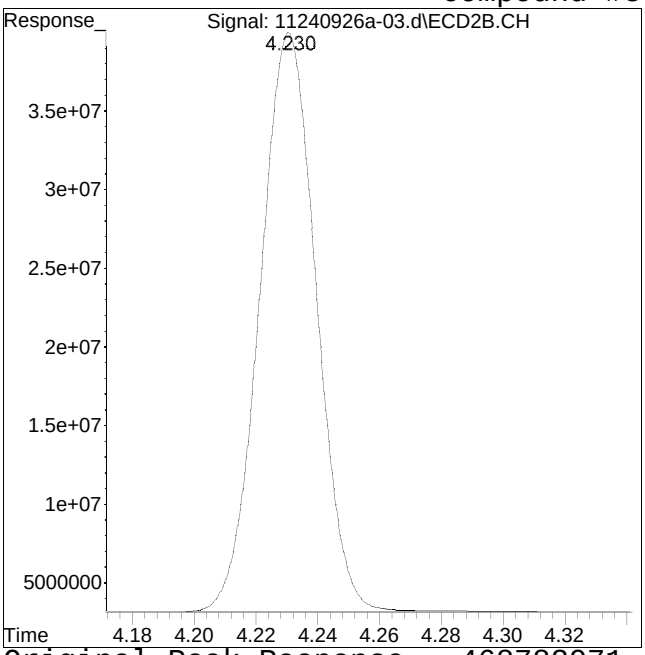


Original Peak Response = 861518243 Manual Peak Response = 873541013 M4
M4 = Poor automated baseline construction.

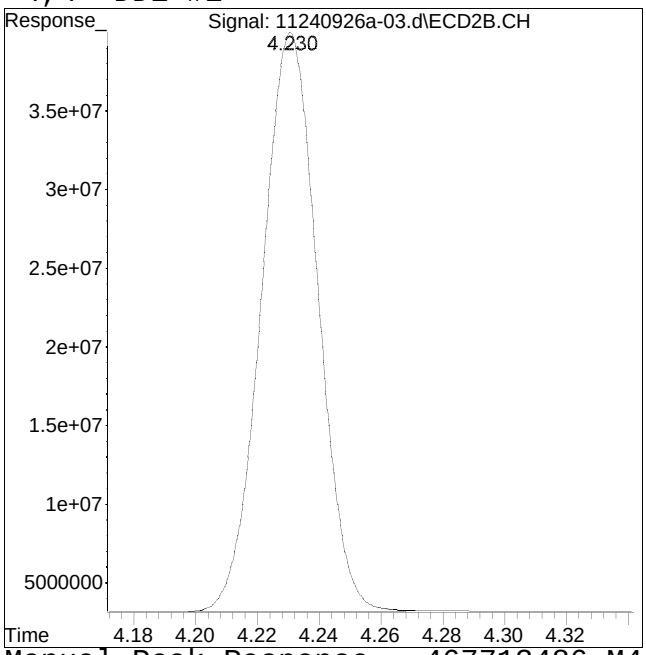
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 468782971



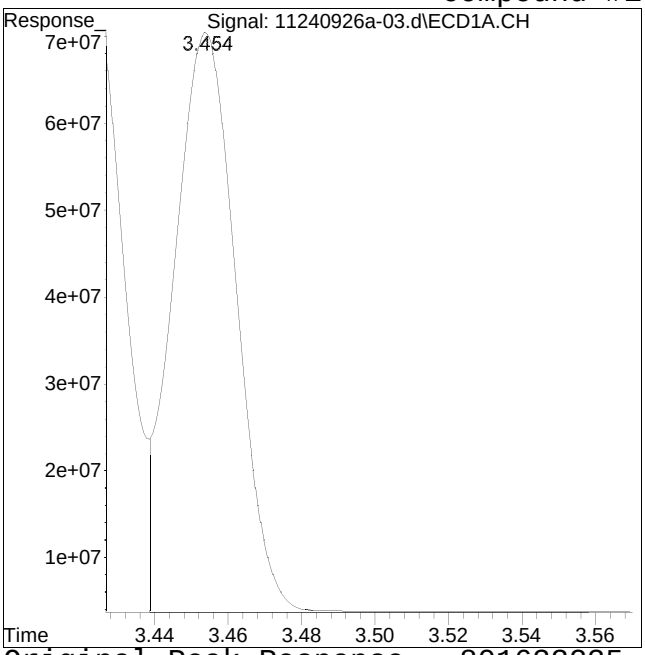
Manual Peak Response = 467713486 M4

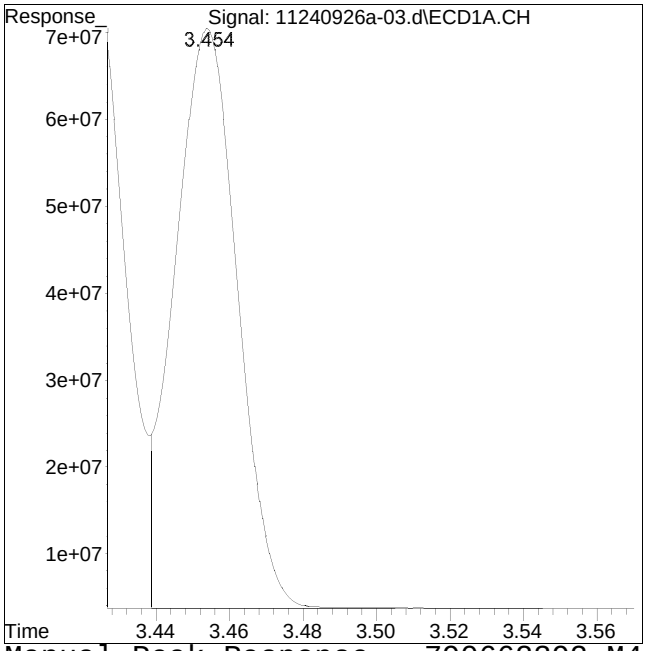
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #16: Endosulfan I



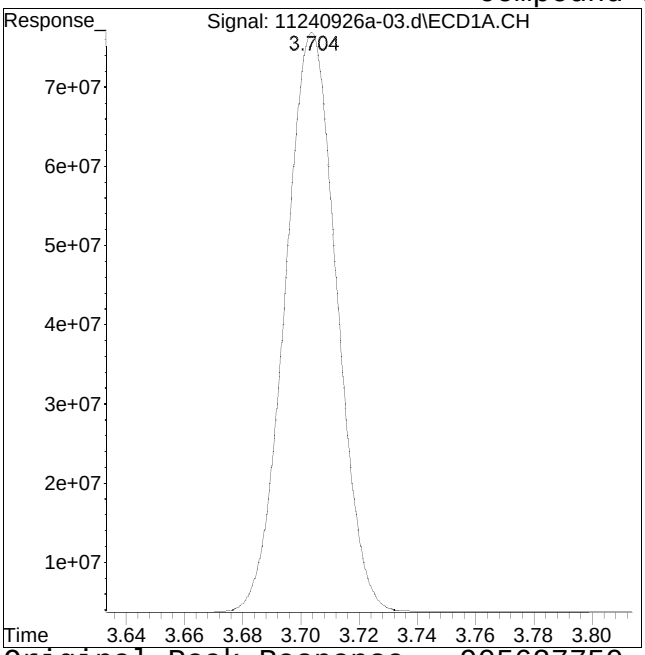


Original Peak Response = 801633235 Manual Peak Response = 790662392 M4
M4 = Poor automated baseline construction.

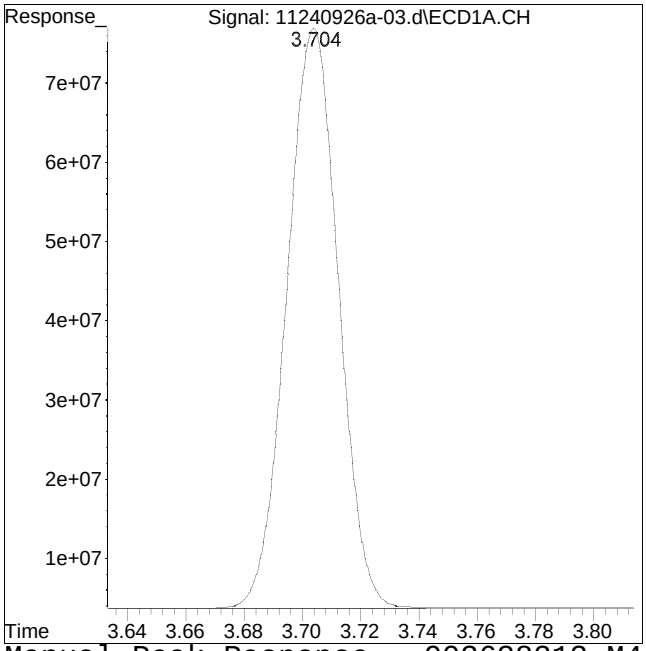
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #17: Dieldrin



Original Peak Response = 905627750



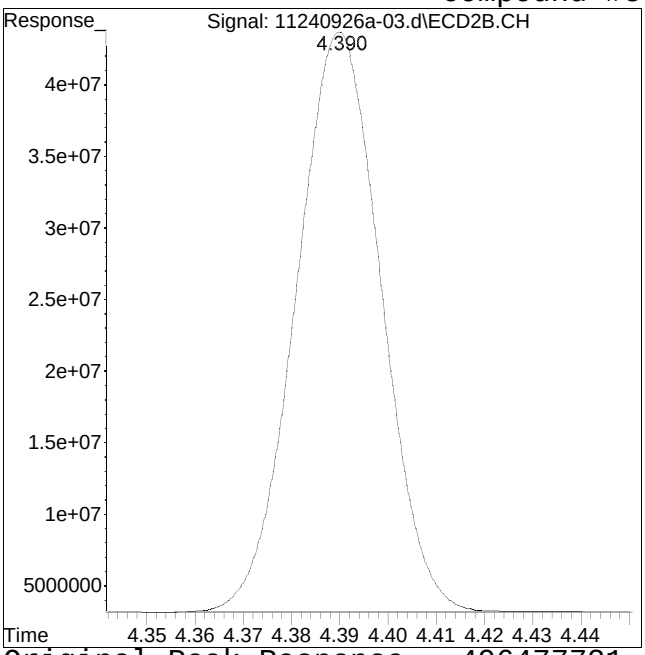
Manual Peak Response = 903638213 M4

M4 = Poor automated baseline construction.

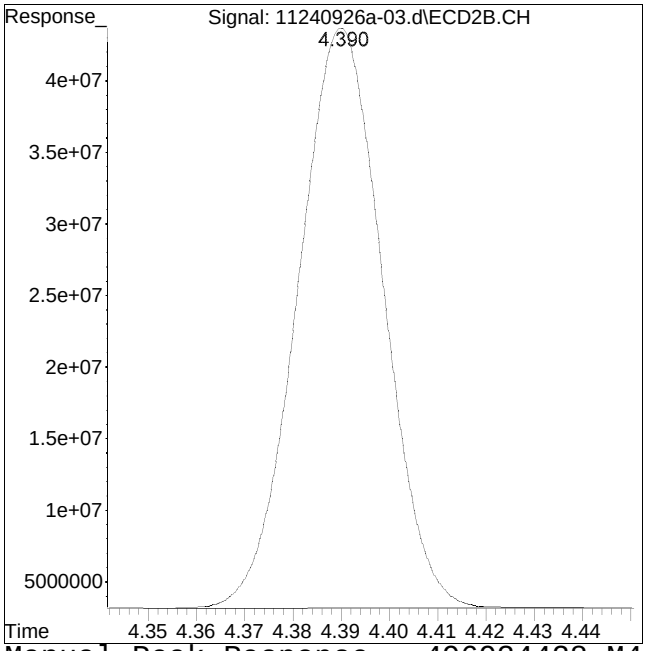
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #55: Dieldrin #2



Original Peak Response = 496477721



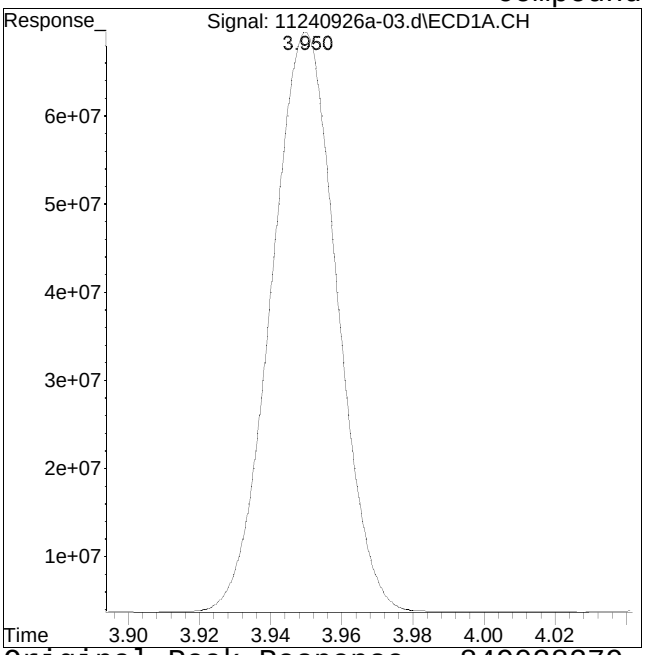
Manual Peak Response = 496934428 M4

M4 = Poor automated baseline construction.

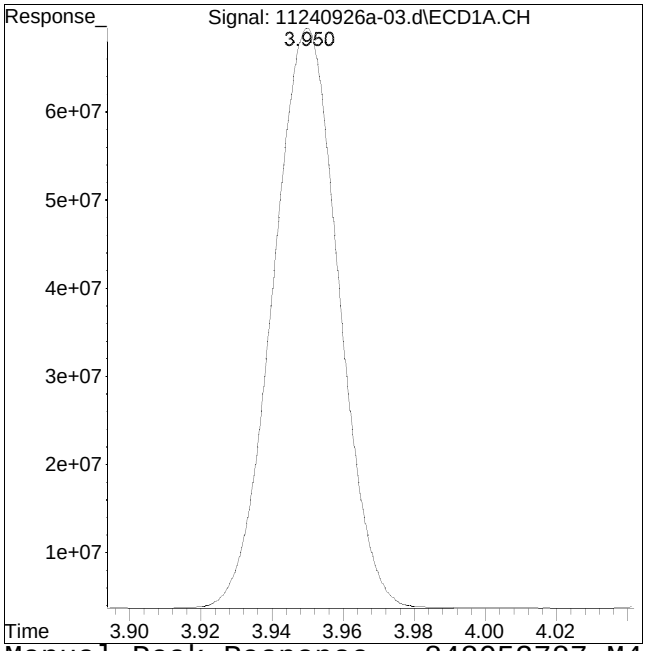
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #18: Endrin



Original Peak Response = 849038379



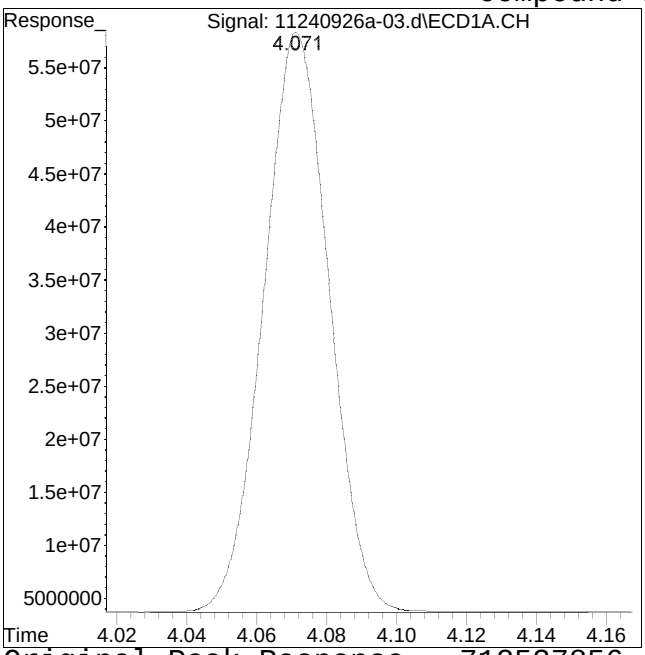
Manual Peak Response = 848053787 M4

M4 = Poor automated baseline construction.

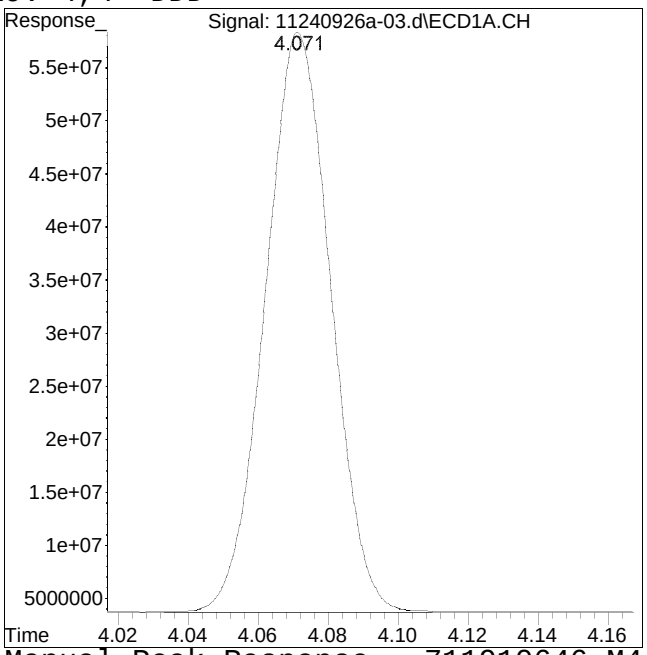
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #19: 4,4'-DDD



Original Peak Response = 712537856



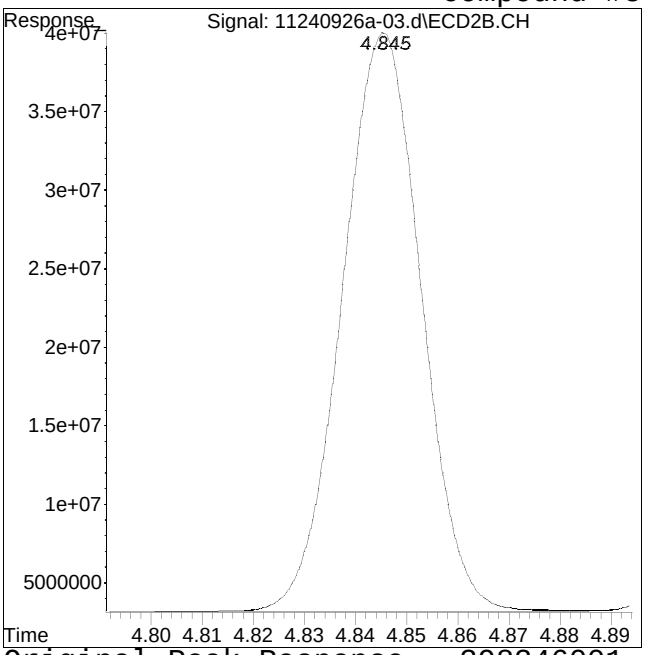
Manual Peak Response = 711910646 M4

M4 = Poor automated baseline construction.

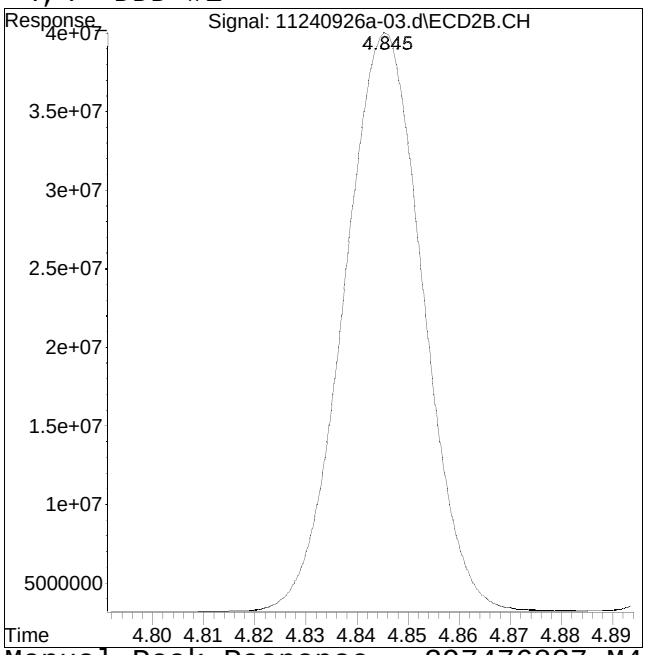
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 398346001

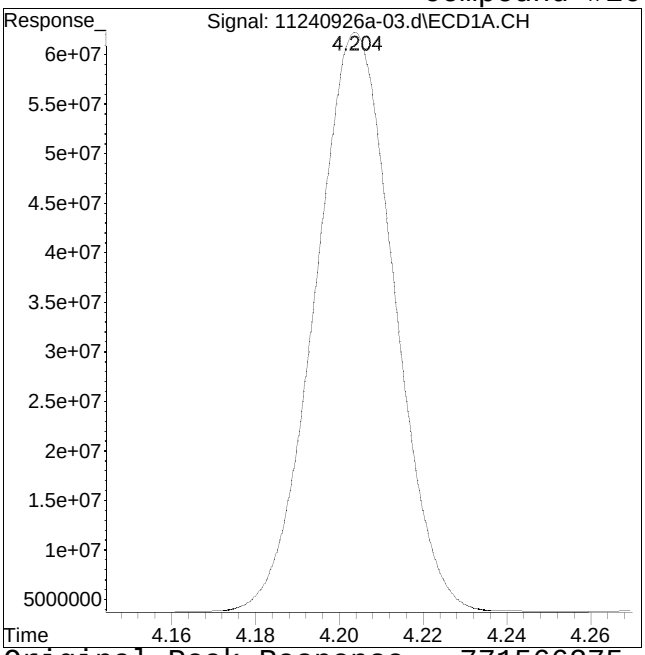


Manual Peak Response = 397476837 M4
M4 = Poor automated baseline construction.

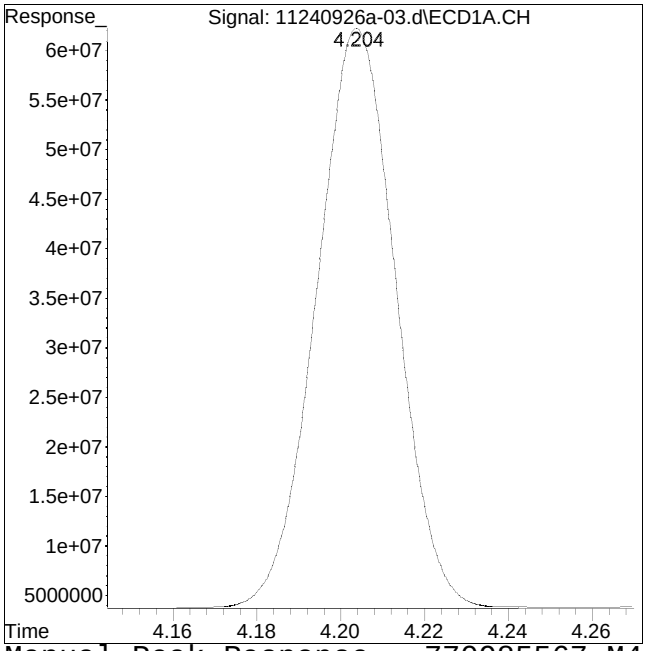
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #20: Endosulfan II



Original Peak Response = 771566275



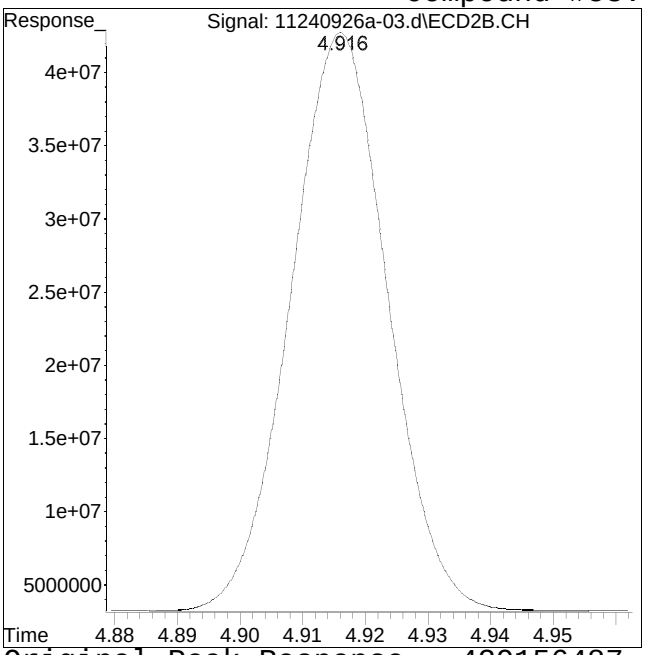
Manual Peak Response = 770985567 M4

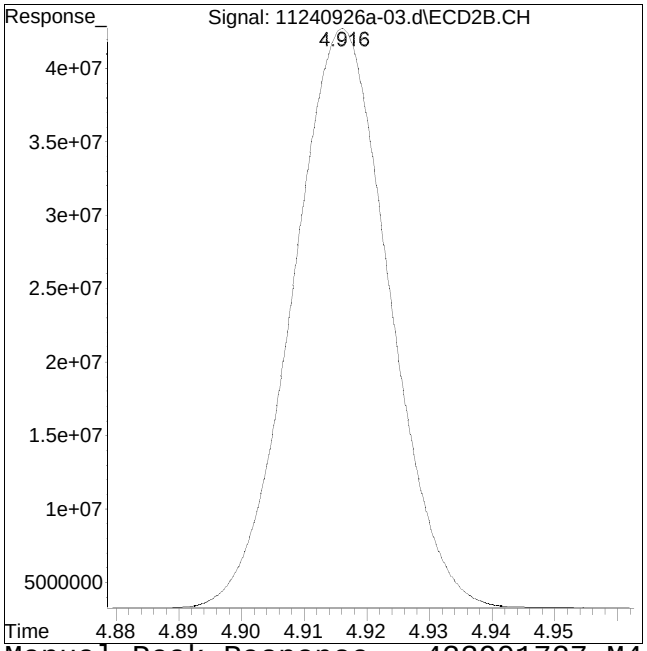
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #58: Endosulfan II #2



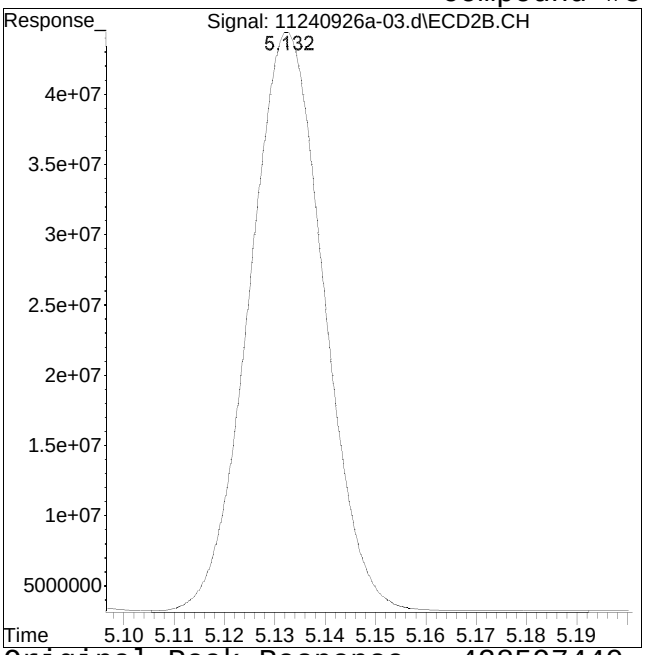


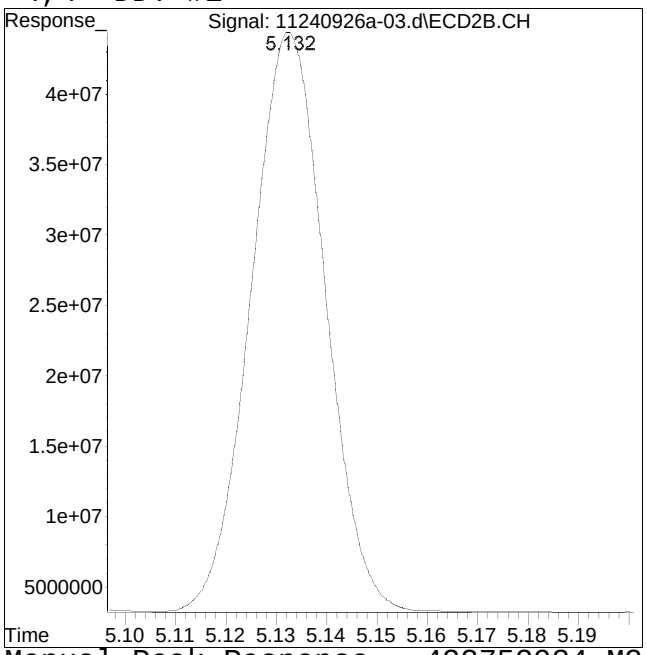
Original Peak Response = 429156487 Manual Peak Response = 423901727 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #59: 4,4'-DDT #2



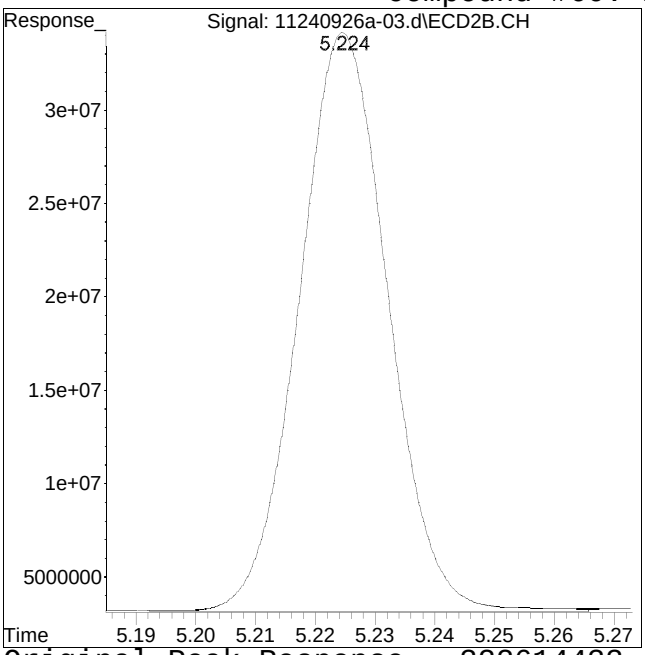


Original Peak Response = 428597440 Manual Peak Response = 422752934 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

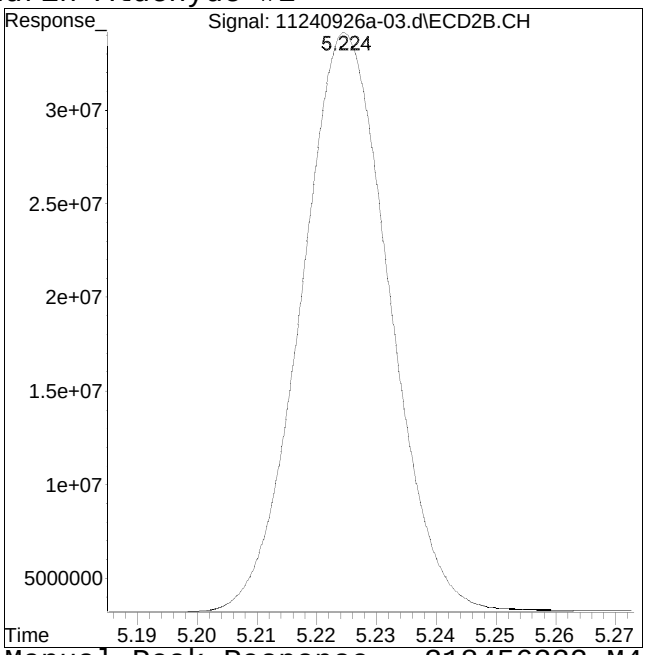
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 322614433

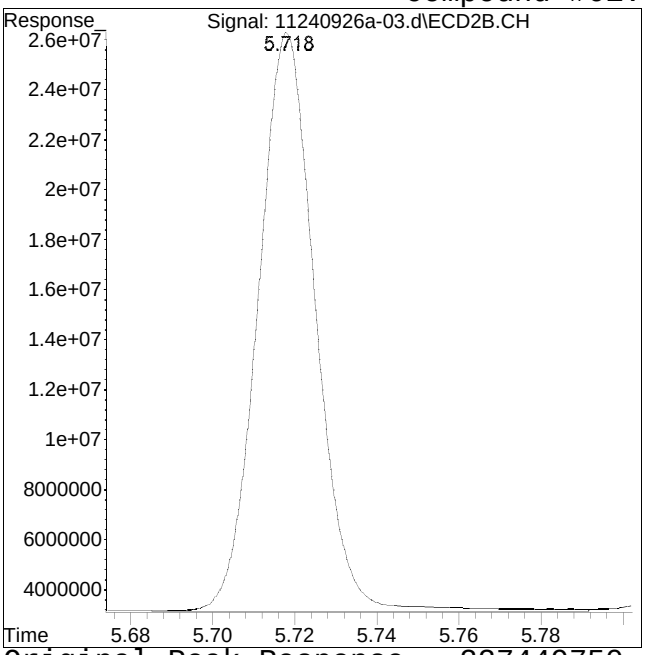


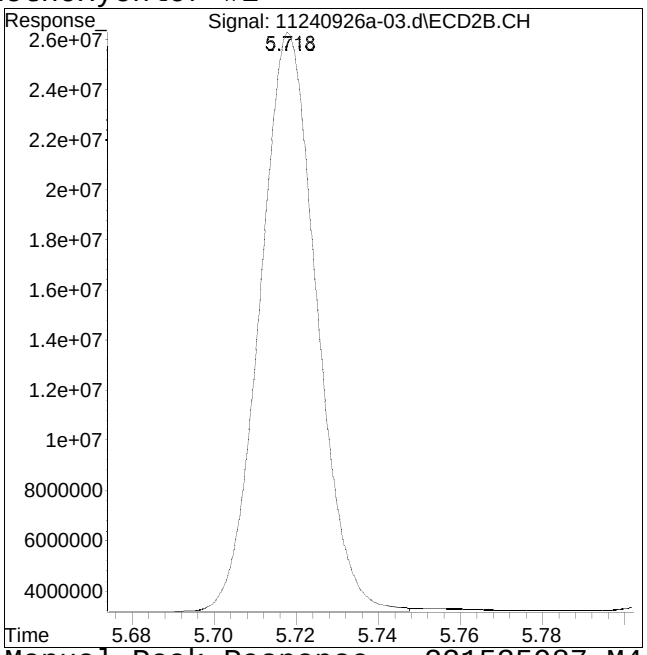
Manual Peak Response = 318456232 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #61: Methoxychlor #2



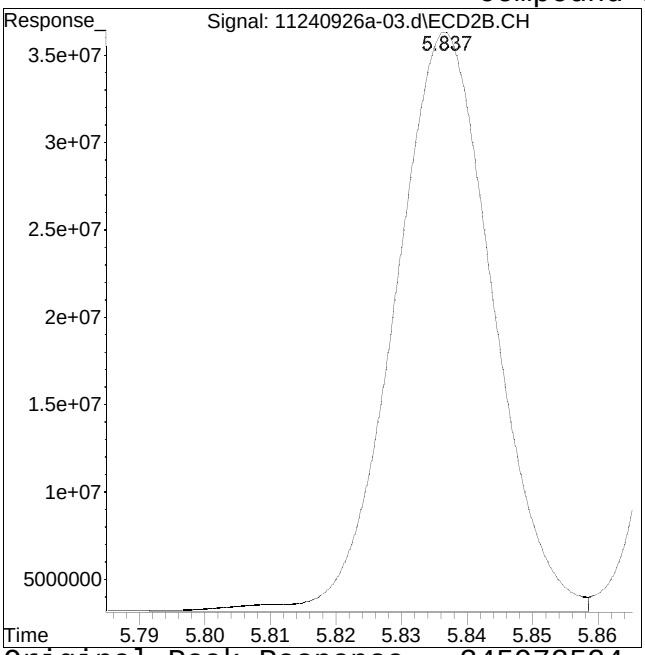


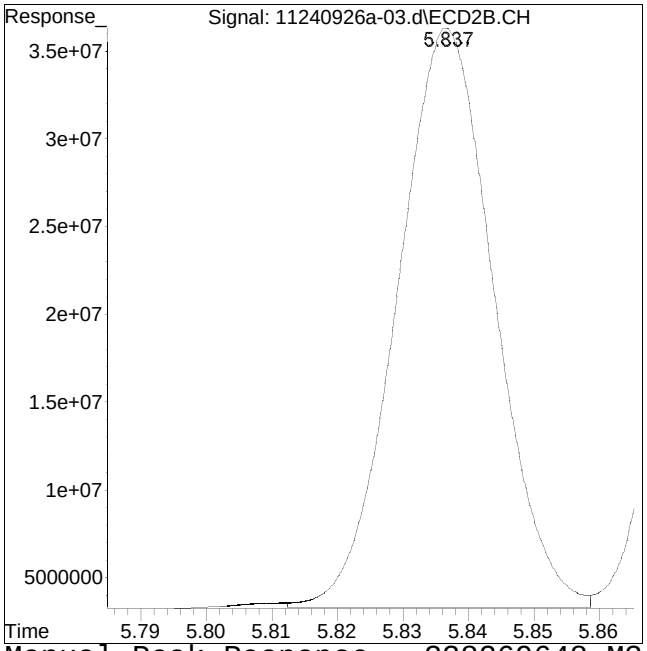
Original Peak Response = 227449750 Manual Peak Response = 221535987 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #62: Mirex #2



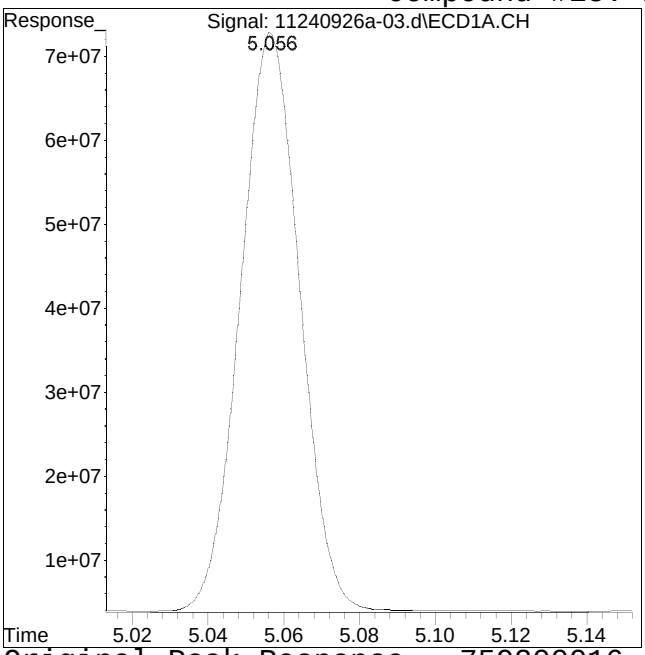


Original Peak Response = 345972524 Manual Peak Response = 338269648 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

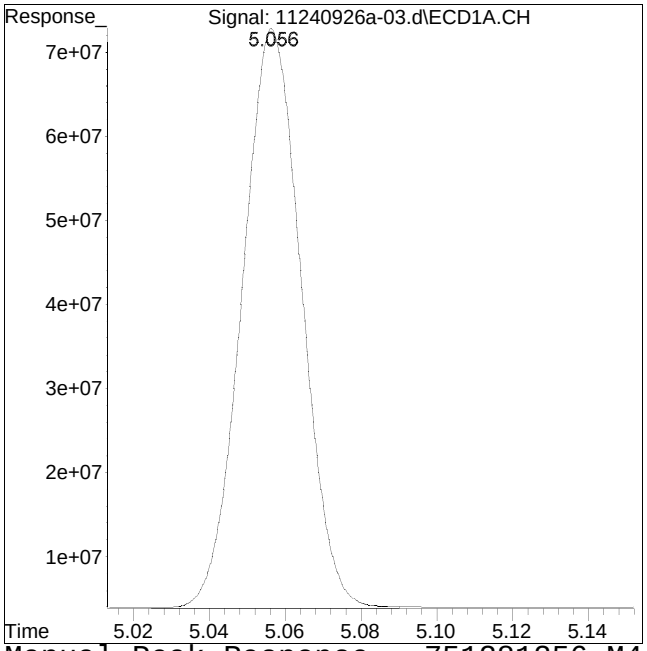
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 759200016



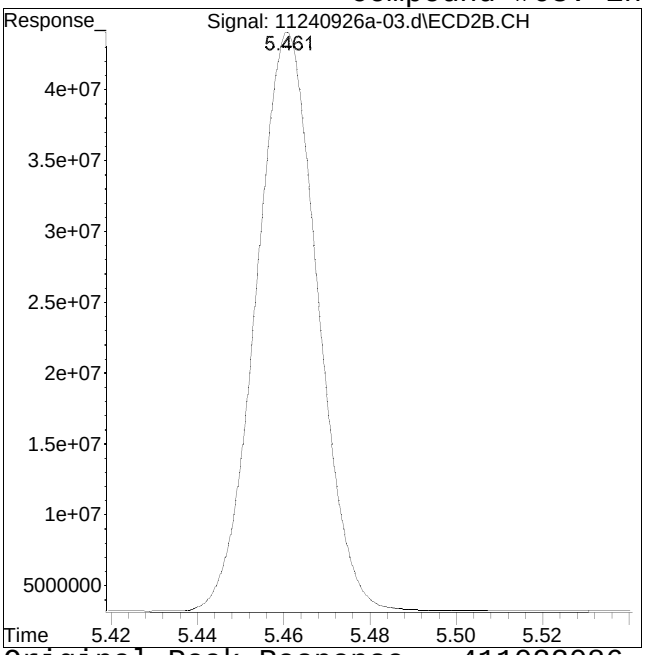
Manual Peak Response = 751281256 M4

M4 = Poor automated baseline construction.

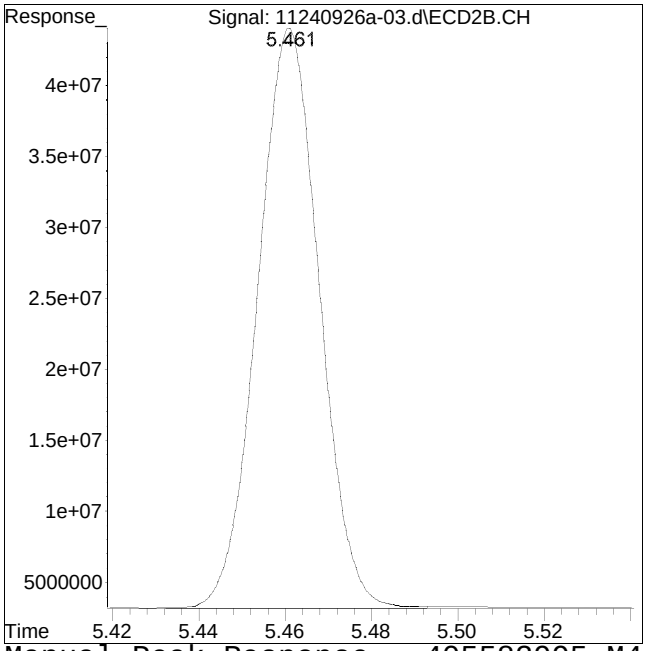
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 411022086



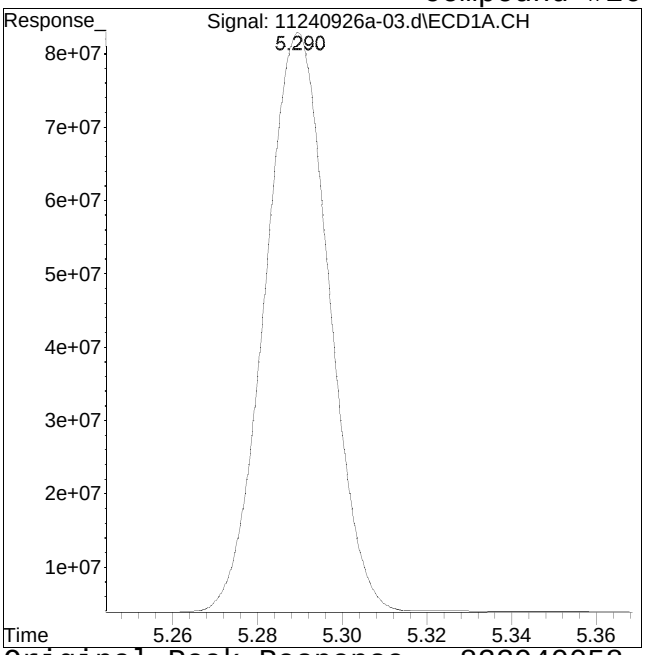
Manual Peak Response = 405583995 M4

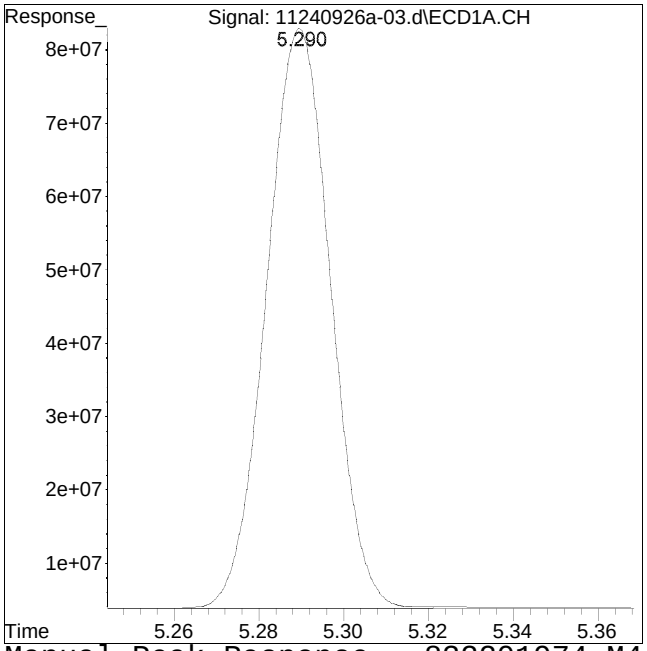
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #26: Endrin Ketone



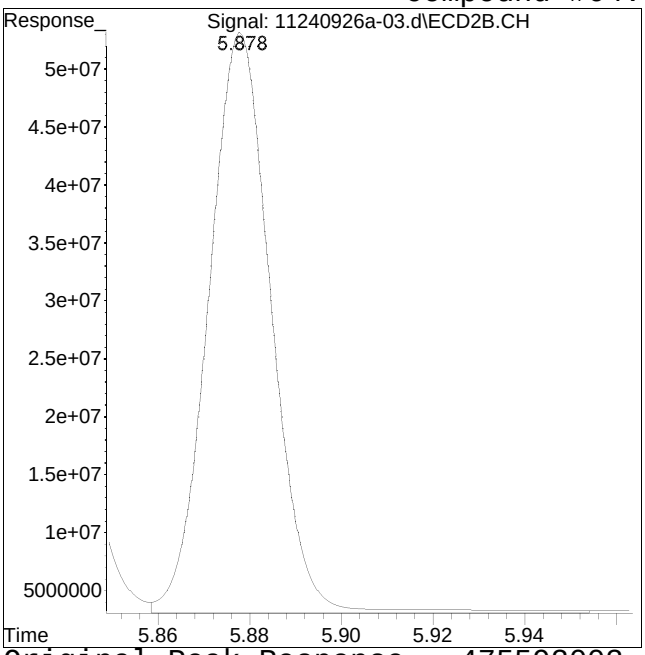


Original Peak Response = 833940058 Manual Peak Response = 832201974 M4
M4 = Poor automated baseline construction.

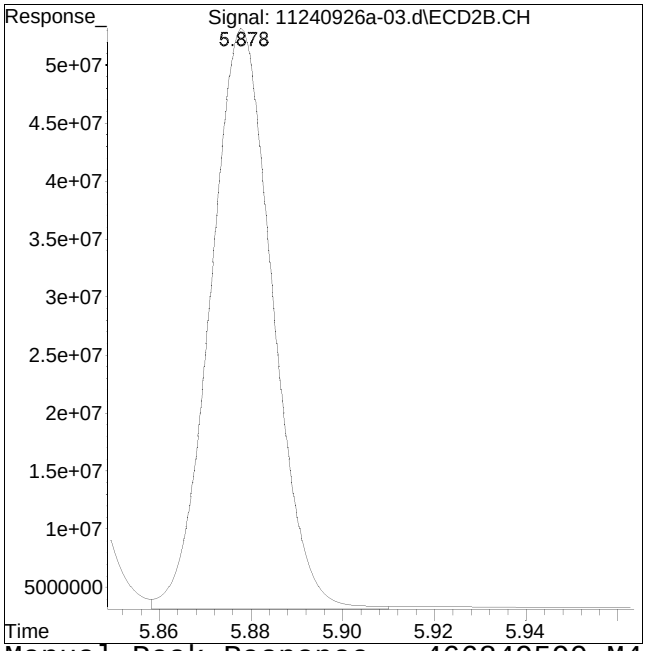
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #64: Endrin Ketone #2



Original Peak Response = 475592003



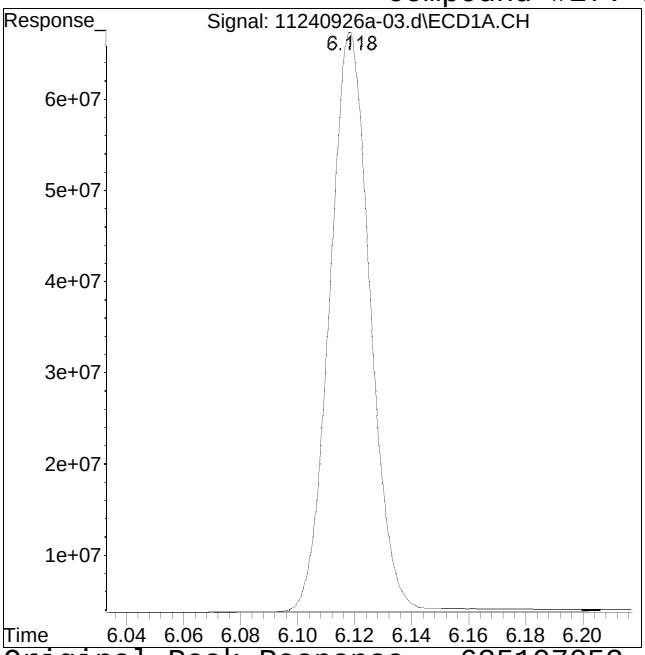
Manual Peak Response = 466849590 M4

M4 = Poor automated baseline construction.

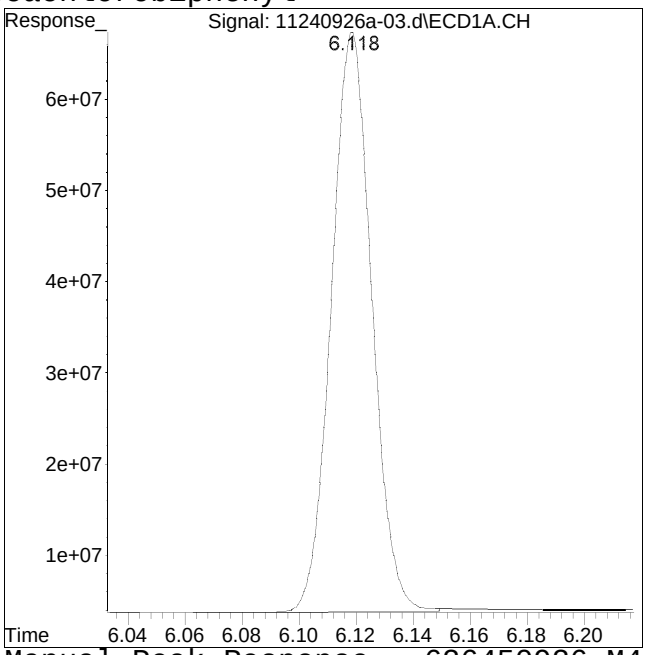
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 635107053



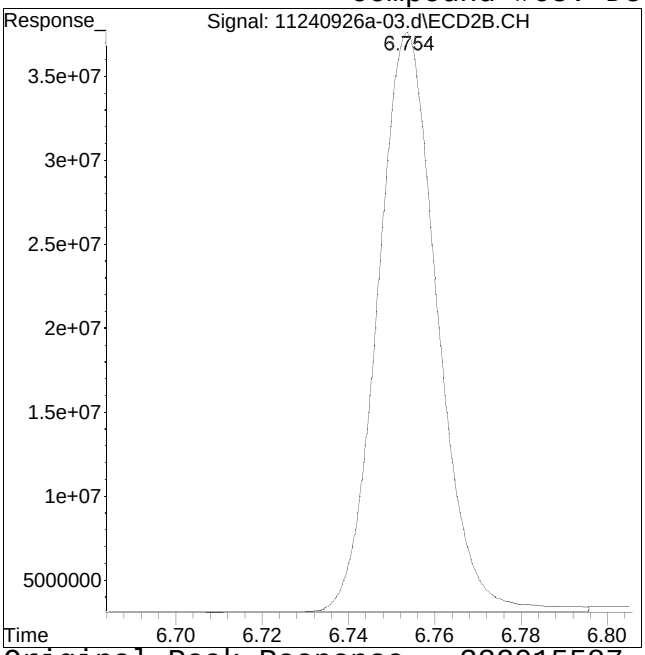
Manual Peak Response = 626450926 M4

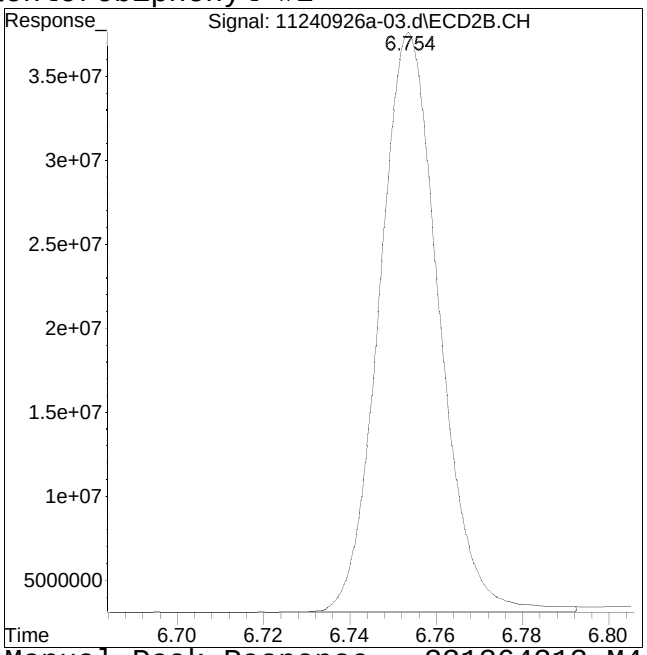
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-03.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:35 Instrument : Pest 11
Sample : wg1976509-1,42,,pest11675 Quant Date : 9/26/2024 7:27 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 332015587 Manual Peak Response = 331364313 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:46
Operator : PEST11:peg
Sample   : wg1976509-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:29:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:29:28 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	130	0.00
29	l1	chlordane-1		*1000.000	1122.487	-12.2	142	0.00
30	l1	chlordane-3		*1000.000	1148.829	-14.9	140	0.00
31	l1	chlordane-4		*1000.000	1169.496	-16.9	145	0.00
32	l1	chlordane-5		*1000.000	1318.894	-31.9#	162	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	112	0.00
29	l1	chlordane-1		*1000.000	859.373	14.1	90	0.00
30	l1	chlordane-3		*1000.000	898.978	10.1	90	0.00
31	l1	chlordane-4		*1000.000	816.087	18.4	85	0.00
32	l1	chlordane-5		*1000.000	808.853	19.1	85	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.51#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.72#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.05#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.17#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.33#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.56#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.68#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.77#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.08#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.20#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:46
Operator : PEST11:peg
Sample   : wg1976509-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:29:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:29:28 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.32#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.42#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.45#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.70#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.95#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.07#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.20#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.39#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.65#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.91#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.06#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.29#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.12#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.20#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.33#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.57#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.96#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.71#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.01#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.10#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.37#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.43#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:46
Operator : PEST11:peg
Sample   : wg1976509-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:29:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:29:28 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.74#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.04#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.94#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.27#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.63#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.84#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.01#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.23#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.07#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.39#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.71#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.85#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.92#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.22#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.72#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.84#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.46#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.88#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.88#
35	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-4.90#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:46
Operator : PEST11:peg
Sample : wg1976509-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:29:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:29:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.188	1.261	288.7E6	206.6E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:46
Operator : PEST11:peg
Sample : wg1976509-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:29:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:29:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.269	2.613	471.8E6	264.4E6	1122.487	859.373	
30) l1	chlordane-3	2.666	3.191	561.0E6	304.1E6	1148.829	898.978	
31) l1	chlordane-4	3.197	3.845	2101.6E6	1053.5E6	1169.496	816.087	
32) l1	chlordane-5	3.318	4.014	3637.7E6	802.2E6	1318.894	808.853	
Sum	chlordane-1			6772.2E6	2424.2E6	N.D.	N.D.	D
Average	chlordane-1					1189.927	845.823	
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

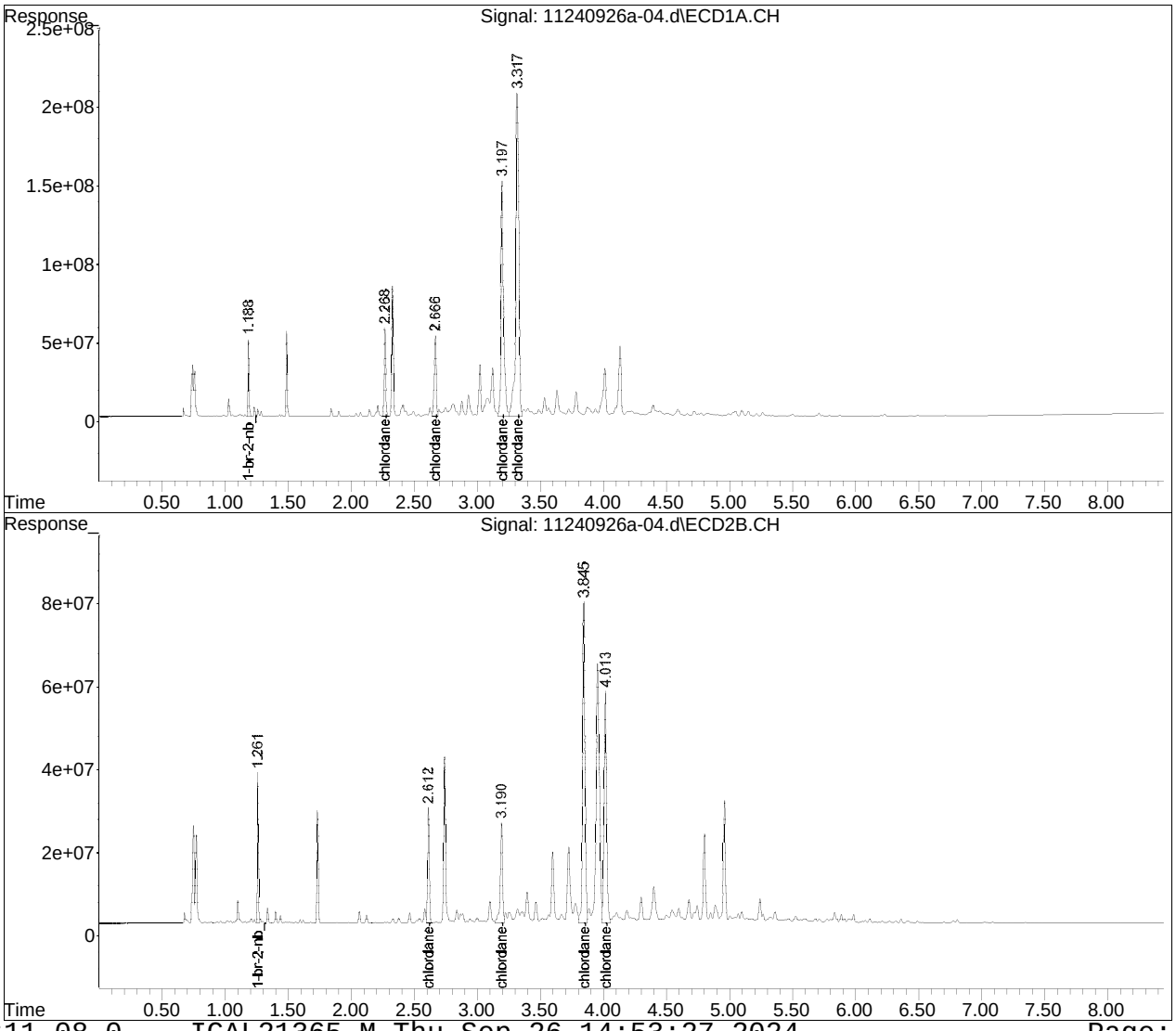
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:46
Operator : PEST11:peg
Sample : wg1976509-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:29:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:29:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

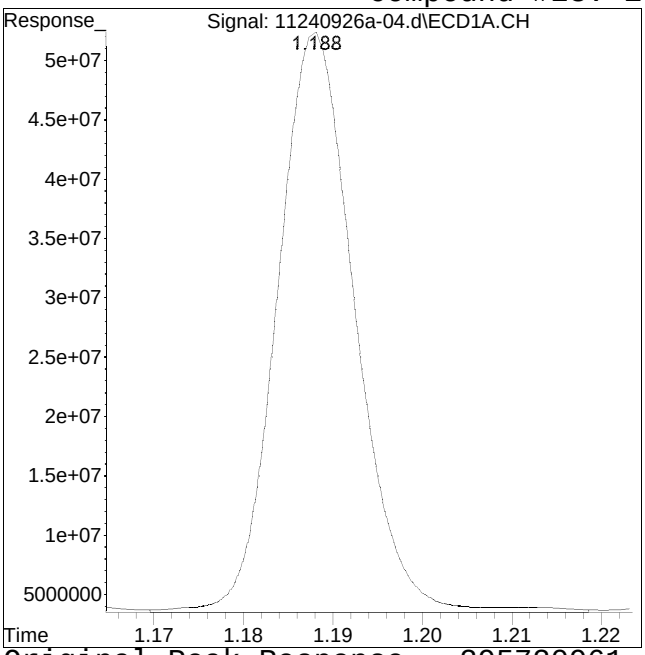
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

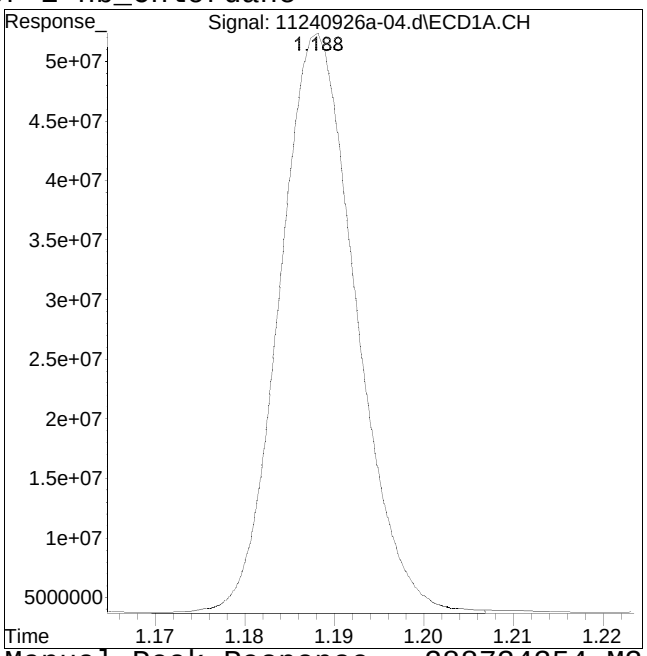


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-04.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:46 Instrument : Pest 11
Sample : wg1976509-2,42,,chlor11816Quant Date : 9/26/2024 7:29 am

Compound #28: 1-br-2-nb_Chlordane



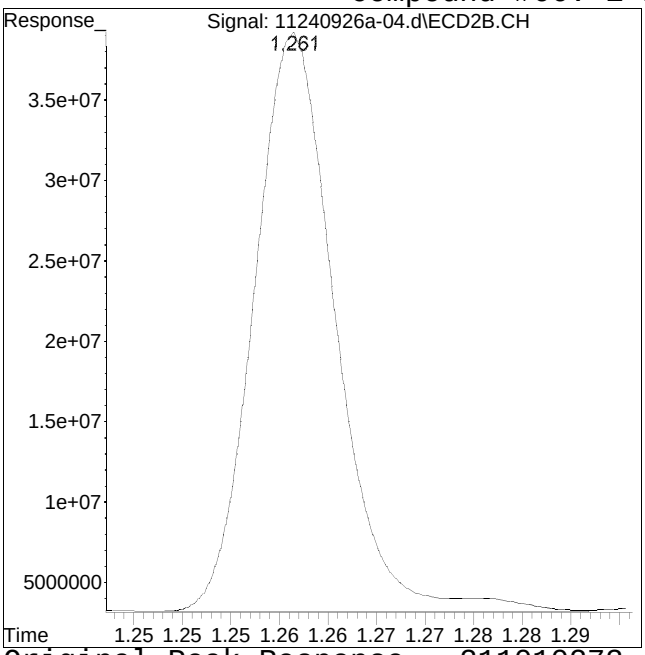


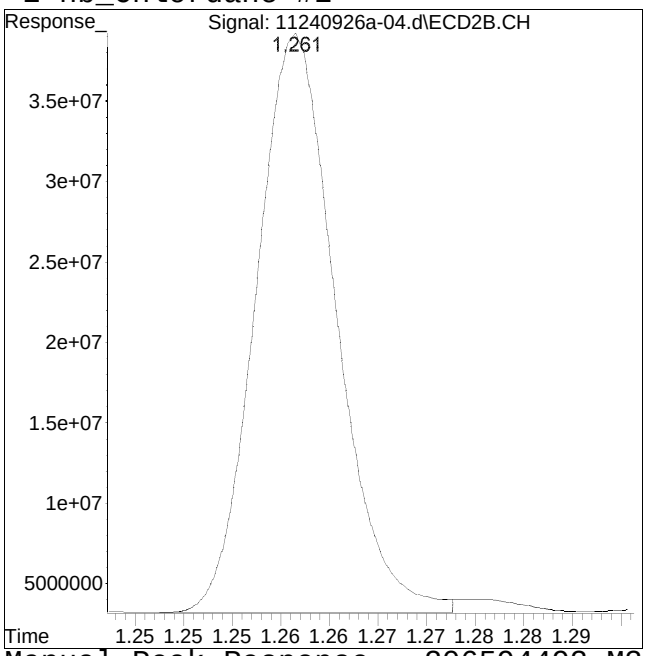
Original Peak Response = 295720961 Manual Peak Response = 288734354 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926a-04.d
Date Inj'd : 9/26/2024 6:46
Sample : wg1976509-2,42,,chlor11816
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 9/26/2024 7:29 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 211010273 Manual Peak Response = 206594492 M3

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

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:58
Operator : PEST11:peg
Sample   : wg1976509-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:32:49 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:26 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	158	0.00
34	l2	toxaphene-2		*2000.000	2291.973	-14.6	175	0.00
35	l2	toxaphene-3		*2000.000	2160.660	-8.0	165	0.00
36	l2	toxaphene-4		*2000.000	1718.193	14.1	134	0.00
37	l2	toxaphene-5		*2000.000	2067.464	-3.4	159	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	121	0.00
34	l2	toxaphene-2		*2000.000	1731.856	13.4	104	0.00
35	l2	toxaphene-3		*2000.000	1821.914	8.9	109	0.00
36	l2	toxaphene-4		*2000.000	1678.420	16.1	101	0.00
37	l2	toxaphene-5		*2000.000	1772.124	11.4	106	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.51#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.72#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.05#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.17#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.33#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.56#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.68#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.77#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.08#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.20#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:58
Operator : PEST11:peg
Sample   : wg1976509-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:32:49 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:26 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.32#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.42#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.45#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.70#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.95#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.07#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.20#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.39#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.65#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.91#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.06#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.29#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.12#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.27#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.67#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.20#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.32#

Signal #2

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.71#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.01#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.10#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.37#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.43#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024   6:58
Operator : PEST11:peg
Sample   : wg1976509-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1976509,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:32:49 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:26 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.74#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.04#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.94#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.27#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.63#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.84#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.01#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.23#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.07#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.39#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.71#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.85#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.92#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.22#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.72#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.84#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.46#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.88#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.19#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.85#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.01#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:58
Operator : PEST11:peg
Sample : wg1976509-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:32:49 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.188	1.261	344.5E6	210.5E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:58
Operator : PEST11:peg
Sample : wg1976509-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:32:49 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.196	4.876	1757.5E6	343.5E6	2291.973	1731.856
35) l2	toxaphene-3	4.329	4.903	1294.4E6	534.6E6	2160.660M3	1821.914
36) l2	toxaphene-4	4.574	5.235	1036.3E6	591.2E6	1718.193	1678.420
37) l2	toxaphene-5	4.961	5.650	1131.6E6	575.1E6	2067.464	1772.124
Sum	toxaphene-2			5219.8E6	2044.3E6	8238.291	7004.314
Average	toxaphene-2					2059.573	1751.079

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			5219.8E6	2044.3E6	8238.291	7004.314
Average	toxaphene-2					2059.573	1751.079

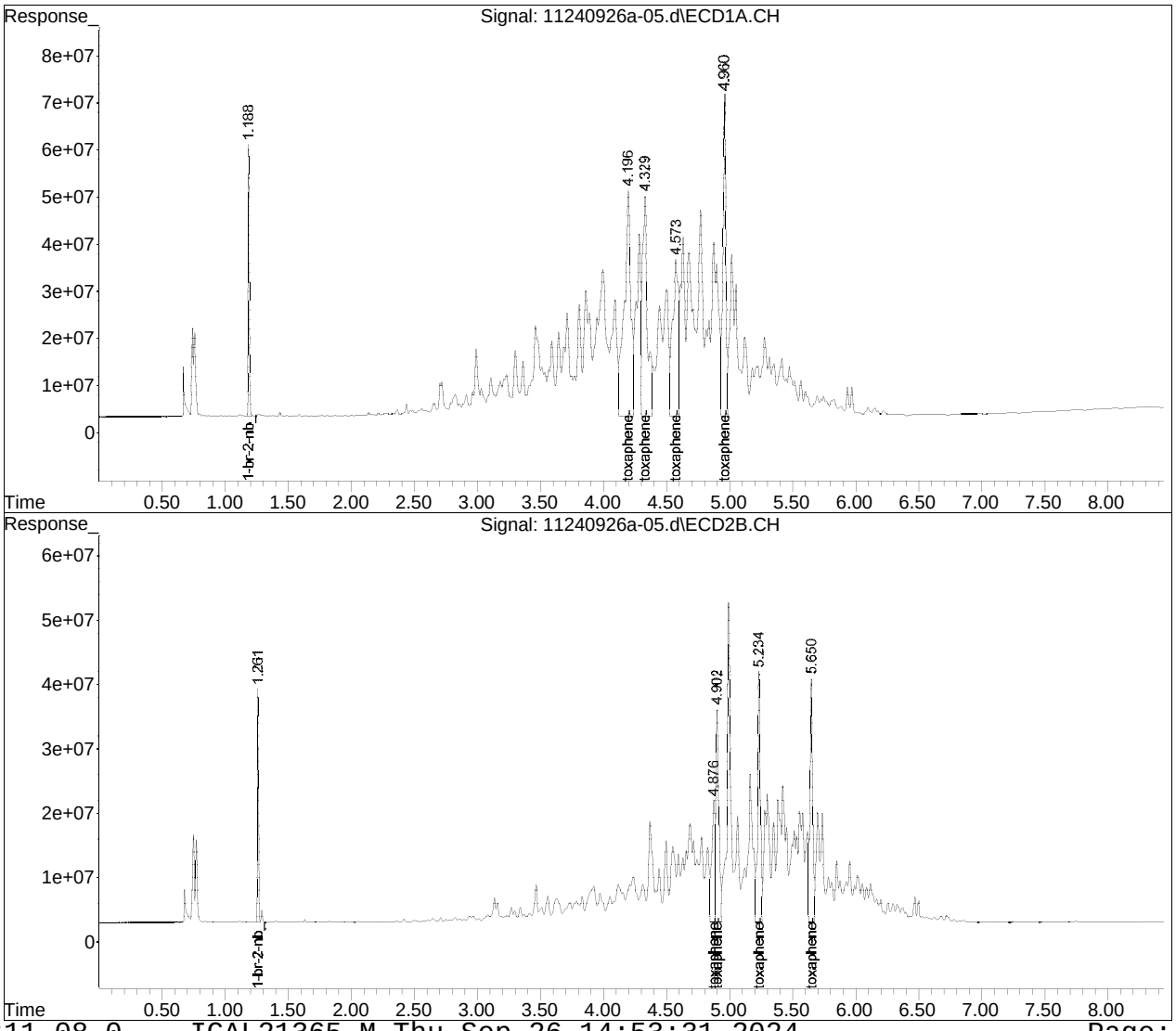
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:58
Operator : PEST11:peg
Sample : wg1976509-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:32:49 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

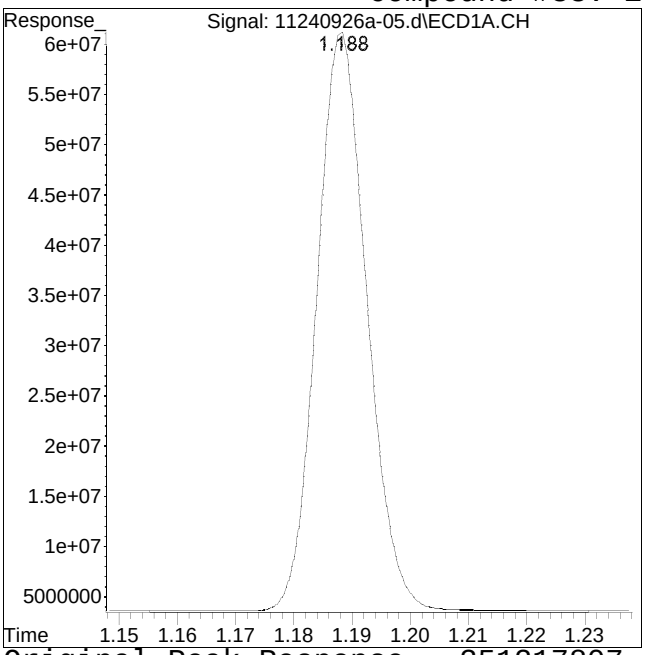
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

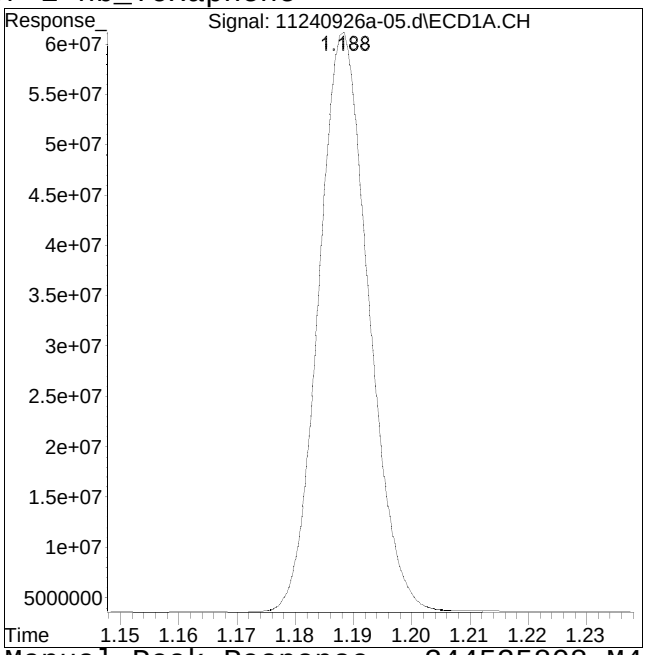


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-05.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:58 Instrument : Pest 11
Sample : wg1976509-3,42,,tox11668 Quant Date : 9/26/2024 7:32 am

Compound #33: 1-br-2-nb_Toxaphene



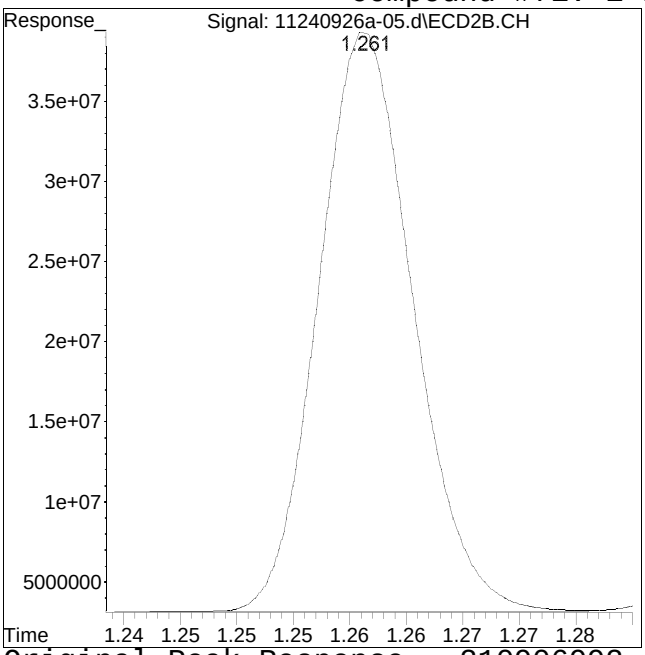


Original Peak Response = 351217807 Manual Peak Response = 344535808 M4
M4 = Poor automated baseline construction.

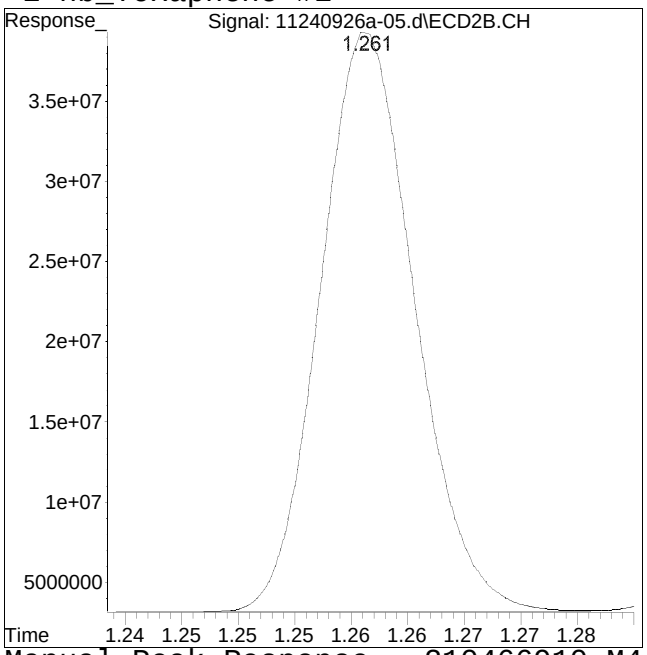
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-05.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:58 Instrument : Pest 11
Sample : wg1976509-3,42,,tox11668 Quant Date : 9/26/2024 7:32 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 210906992



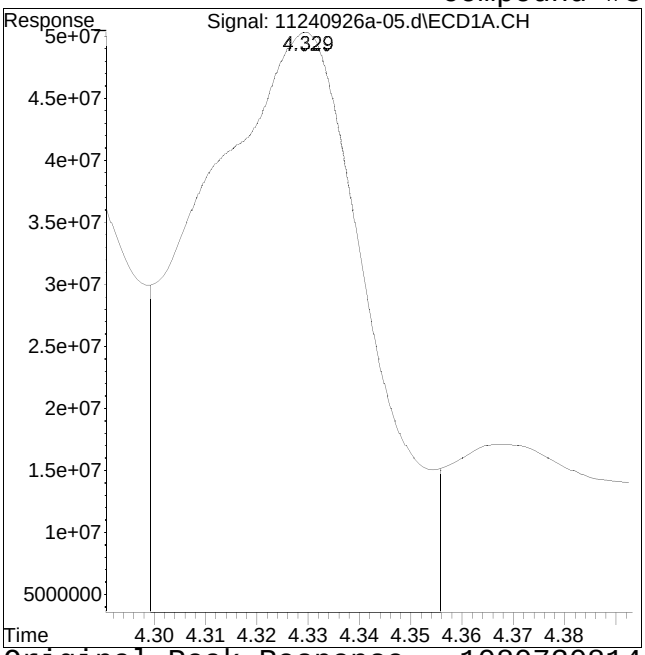
Manual Peak Response = 210466910 M4

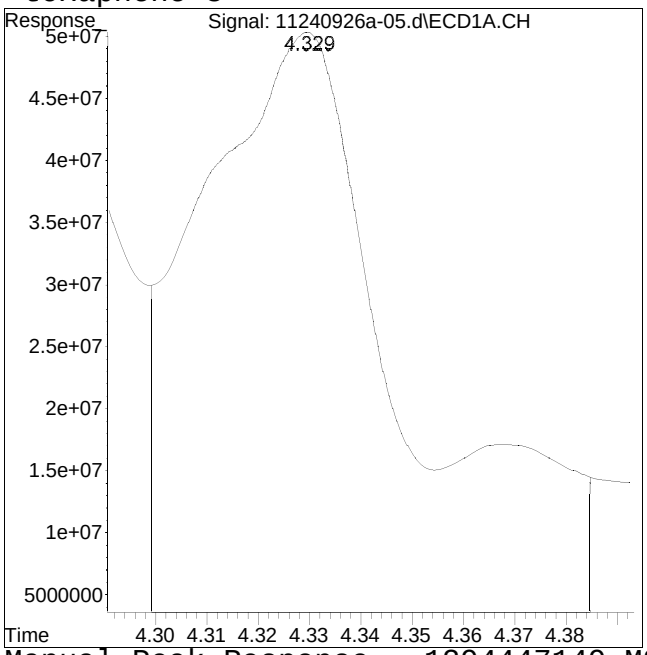
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-05.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:58 Instrument : Pest 11
Sample : wg1976509-3,42,,tox11668 Quant Date : 9/26/2024 7:32 am

Compound #35: toxaphene-3





Original Peak Response = 1080730814 Manual Peak Response = 1294447149 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:23
Operator : PEST11:jag
Sample   : wg1976911-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:05:10 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	144	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.976	6.1	131	0.00
3	t	Hexachlorobenzene		1.406	1.070	23.9#	112	0.00
4	t	alpha-BHC		1.461	1.514	-3.6	135	0.00
5	t	gamma-BHC (lindane)		1.395	1.350	3.2	130	0.00
6	t	beta-BHC		0.628	0.568	9.6	131	0.00
7	t	delta-BHC		1.374	1.306	4.9	125	0.00
8	t	Heptachlor		1.321	1.282	3.0	132	0.00
9	t	Aldrin		1.233	1.203	2.4	131	0.00
10	t	Alachlor		0.230	0.166	27.8#	103	0.00
11	t	Chlorpyrifos		0.590	0.575	2.5	150	0.00
12	t	Heptachlor Epoxide		1.185	1.085	8.4	127	0.00
13	t	gamma-Chlordane (trans)		1.077	1.123	-4.3	146	0.00
14	t	alpha-Chlordane (cis)		1.216	1.115	8.3	128	0.00
15	t	4,4'-DDE		1.192	1.097	8.0	126	0.00
16	t	Endosulfan I		1.116	1.030	7.7	128	0.00
17	t	Dieldrin		1.135	1.163	-2.5	139	0.00
18	t	Endrin		1.153	1.107	4.0	130	0.00
19	t	4,4'-DDD		0.927	0.921	0.6	135	0.00
20	t	Endosulfan II		1.052	1.006	4.4	132	0.00
21	t	4,4'-DDT		1.058	1.007	4.8	130	0.00
22	t	Endrin Aldehyde		0.886	0.753	15.0	120	0.00
23	t	Methoxychlor		0.592	0.560	5.4	139	0.00
24	t	Mirex		0.938	0.857	8.6	137	0.00
25	t	Endosulfan Sulfate		1.010	0.992	1.8	141	0.00
26	t	Endrin Ketone		1.183	1.108	6.3	130	0.00
27	s	Decachlorobiphenyl		1.163	0.868	25.4#	118	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:23
Operator : PEST11:jag
Sample   : wg1976911-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:05:10 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	112	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.933	16.2	94	0.00
3	t	Hexachlorobenzene		1.239	0.980	20.9#	94	0.00
4	t	alpha-BHC		1.620	1.370	15.4	89	0.00
5	t	gamma-BHC (lindane)		1.539	1.216	21.0#	87	0.00
6	t	beta-BHC	*	50.000	40.582	18.8	88	0.00
7	t	delta-BHC		1.523	1.185	22.2#	84	0.00
8	t	Heptachlor		1.598	1.157	27.6#	82	0.00
9	t	Aldrin		1.435	1.077	24.9#	82	0.00
10	t	Alachlor	*	50.000	43.467	13.1	89	0.00
11	t	Chlorpyrifos	*	50.000	38.767	22.5#	82	0.00
12	t	Heptachlor Epoxide		1.425	0.990	30.5#	80	0.00
13	t	gamma-Chlordane (trans)		1.312	1.020	22.3#	91	0.00
14	t	alpha-Chlordane (cis)		1.446	0.999	30.9#	81	0.00
15	t	4,4'-DDE		1.343	0.979	27.1#	80	0.00
16	t	Endosulfan I		1.332	0.932	30.0#	81	0.00
17	t	Dieldrin		1.327	1.054	20.6#	89	0.00
18	t	Endrin		1.347	1.003	25.5#	83	0.00
19	t	4,4'-DDD		1.084	0.839	22.6#	86	0.00
20	t	Endosulfan II		1.214	0.905	25.5#	86	0.00
21	t	4,4'-DDT		1.250	0.902	27.8#	81	0.00
22	t	Endrin Aldehyde	*	50.000	36.426	27.1#	79	0.00
23	t	Methoxychlor		0.704	0.493	30.0#	86	0.00
24	t	Mirex	*	50.000	38.884	22.2#	84	0.00
25	t	Endosulfan Sulfate		1.199	0.869	27.5#	86	0.00
26	t	Endrin Ketone		1.261	1.001	20.6#	91	0.00
27	s	Decachlorobiphenyl		1.060	0.741	30.1#	87	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:23
Operator : PEST11:jag
Sample   : wg1976911-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:05:10 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.27#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.66#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.20#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.32#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.19#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.33#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.57#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.96#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.19#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.84#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.01#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.87#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.90#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:23
Operator : PEST11:jag
Sample : wg1976911-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:05:10 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.186	1.260	331.3E6	205.9E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.513	1.706	646.5E6	384.3E6	46.956M4	41.893M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		93.91%	83.79%
27)	s	Decachlorobi	6.115	6.749	575.3E6	305.2E6	37.329M4	34.953M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		74.66%	69.91%
		Target Compounds						
3)	t	Hexachlorobe	1.713	2.006	709.2E6	403.8E6	38.067M4	39.561M4
4)	t	alpha-BHC	1.807	2.095	1003.1E6	564.1E6	51.827M4	42.279M4
5)	t	gamma-BHC (l	1.998	2.364	894.8E6	500.9E6	48.386	39.509M4
6)	t	beta-BHC	2.051	2.428	376.1E6	211.6E6	45.204M4	40.582M4
7)	t	delta-BHC	2.172	2.680	865.3E6	488.2E6	47.520	38.915M4
8)	t	Heptachlor	2.325	2.737	849.1E6	476.5E6	48.509M4	36.209M4
9)	t	Aldrin	2.555	3.039	797.3E6	443.8E6	48.787M4	37.548M4
10)	t	Alachlor	2.673	2.934	110.1E6	65959757	36.094M4	43.467M4
11)	t	Chlorpyrifos	2.762	3.272	380.9E6	225.6E6	48.740M4	38.767M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:23
Operator : PEST11:jag
Sample : wg1976911-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:05:10 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.074	3.628	719.0E6	407.6E6	45.765M4	34.716M4
13)	t	gamma-Chlord	3.193	3.841	744.0E6	420.3E6	52.132	38.901M4
14)	t	alpha-Chlord	3.321	4.009	738.6E6	411.6E6	45.824M4	34.555M4
15)	t	4,4'-DDE	3.419	4.227	726.9E6	403.3E6	46.032	36.459M4
16)	t	Endosulfan I	3.450	4.070	682.2E6	384.0E6	46.123M4	34.998M4
17)	t	Dieldrin	3.700	4.387	770.8E6	434.0E6	51.238M4	39.691M4
18)	t	Endrin	3.946	4.702	733.8E6	413.0E6	48.033M4	37.226M4
19)	t	4,4'-DDD	4.067	4.842	610.3E6	345.7E6	49.663M4	38.728M4
20)	t	Endosulfan I	4.200	4.914	666.6E6	372.6E6	47.813M4	37.270M4
21)	t	4,4'-DDT	4.385	5.130	666.9E6	371.7E6	47.548M4	36.090M4
22)	t	Endrin Aldeh	4.645	5.222	498.9E6	281.0E6	42.470	36.426M4
23)	t	Methoxychlor	4.905	5.716	371.2E6	203.1E6	47.319M4	34.996M4
24)	t	Mirex	4.946	5.834	567.9E6	292.0E6	45.701M4	38.884M4
25)	t	Endosulfan S	5.054	5.458	657.3E6	357.8E6	49.128M4	36.226M4
26)	t	Endrin Keton	5.286	5.876	734.1E6	412.3E6	46.820M4	39.695M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:23
Operator : PEST11:jag
Sample : wg1976911-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:05:10 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

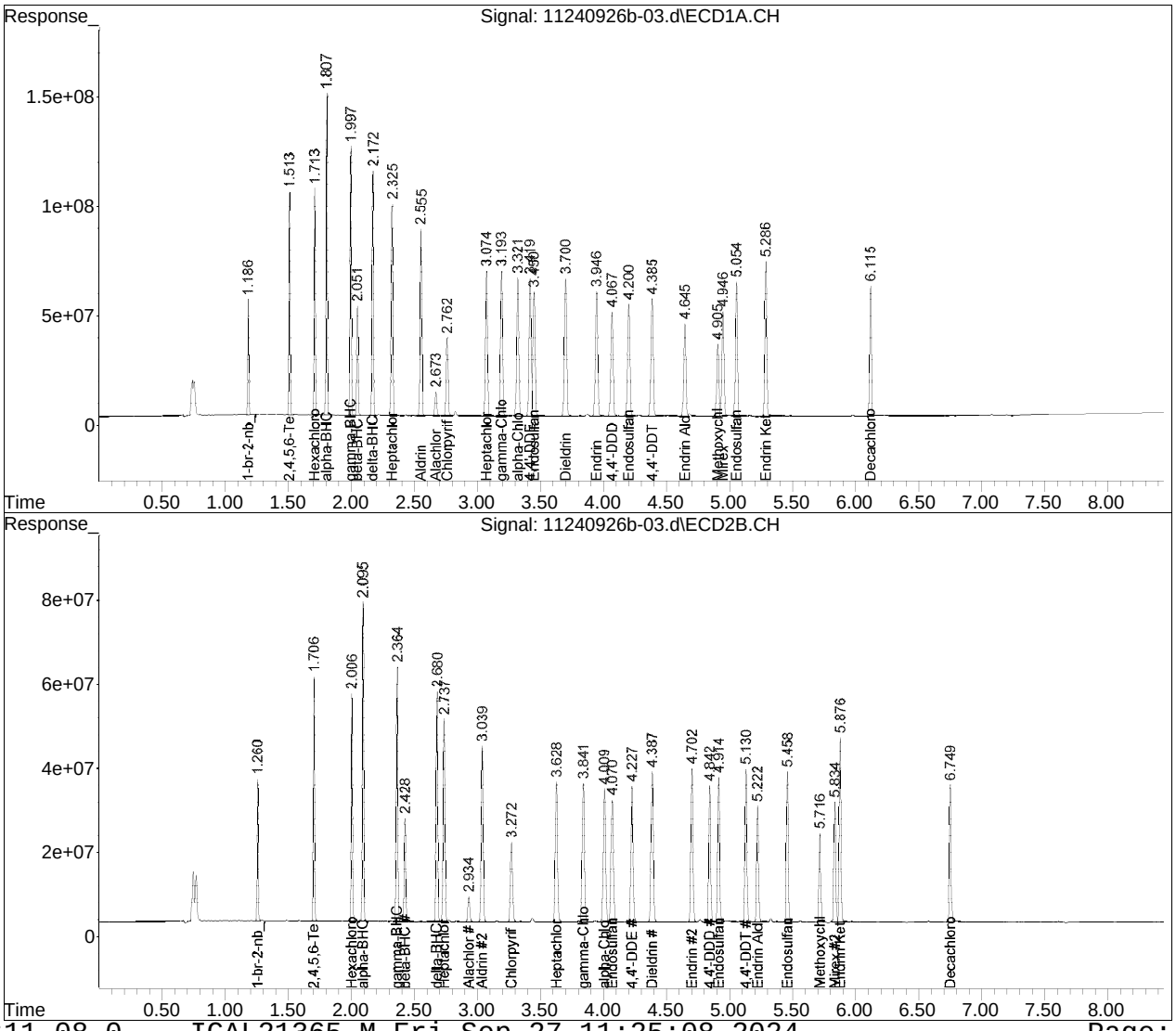
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:23
Operator : PEST11:jag
Sample : wg1976911-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:05:10 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

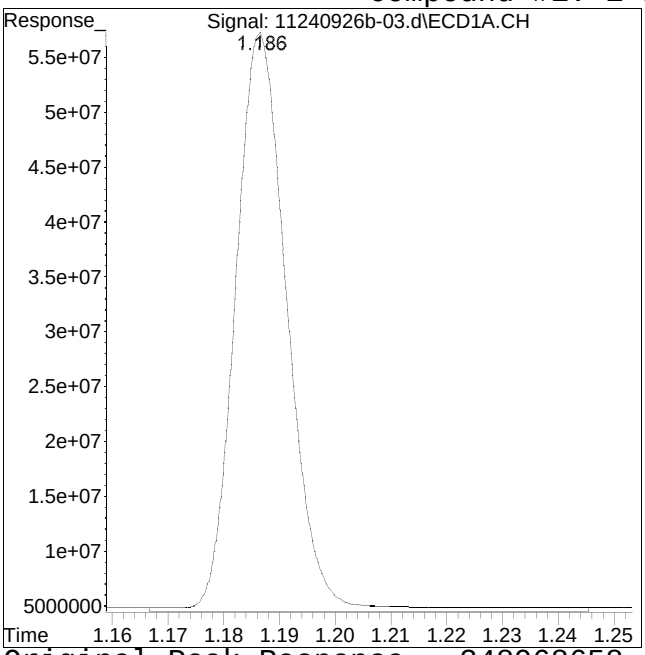
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



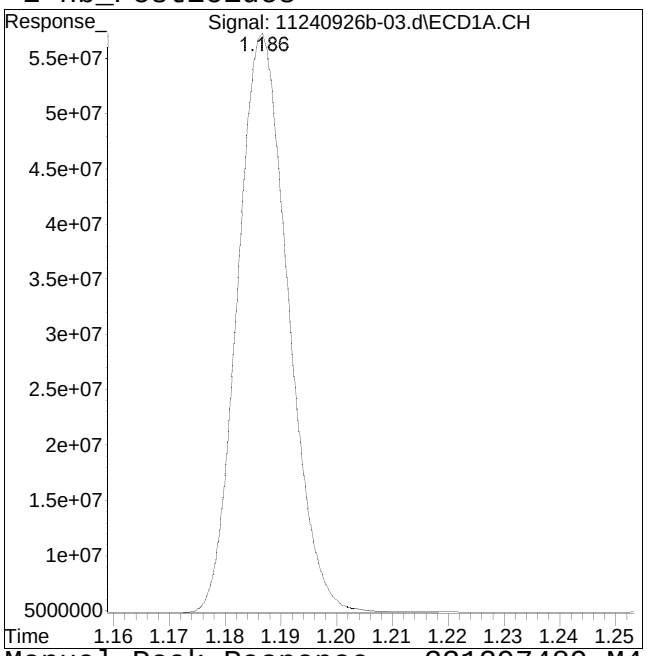
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 348968658



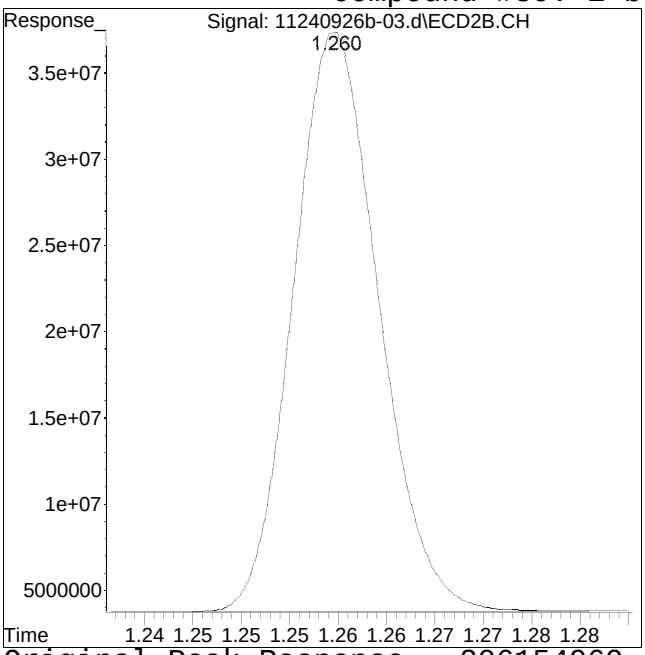
Manual Peak Response = 331297489 M4

M4 = Poor automated baseline construction.

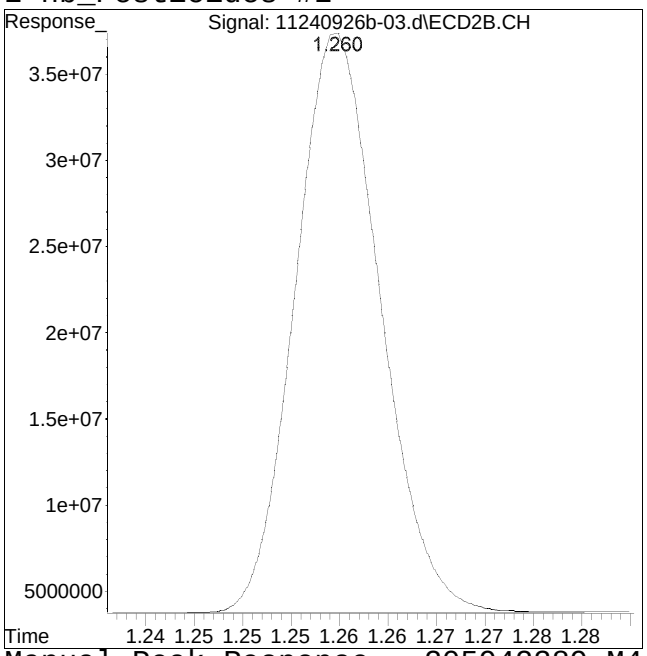
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 206154969



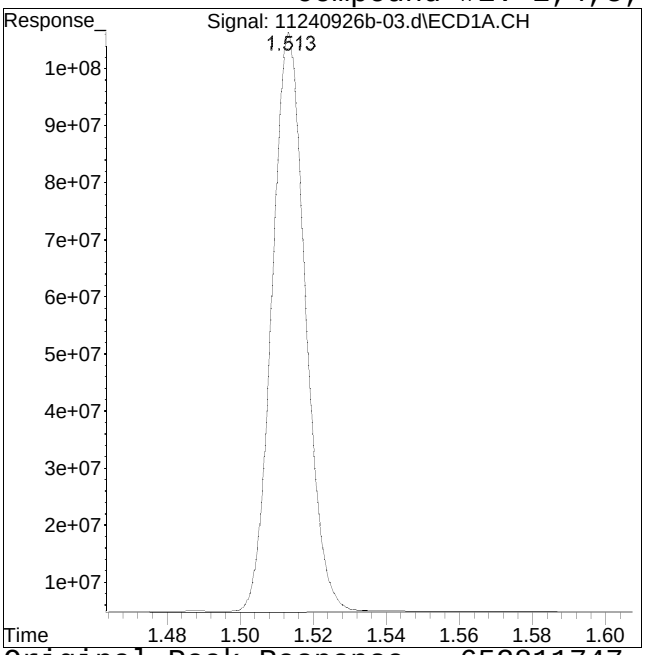
Manual Peak Response = 205942389 M4

M4 = Poor automated baseline construction.

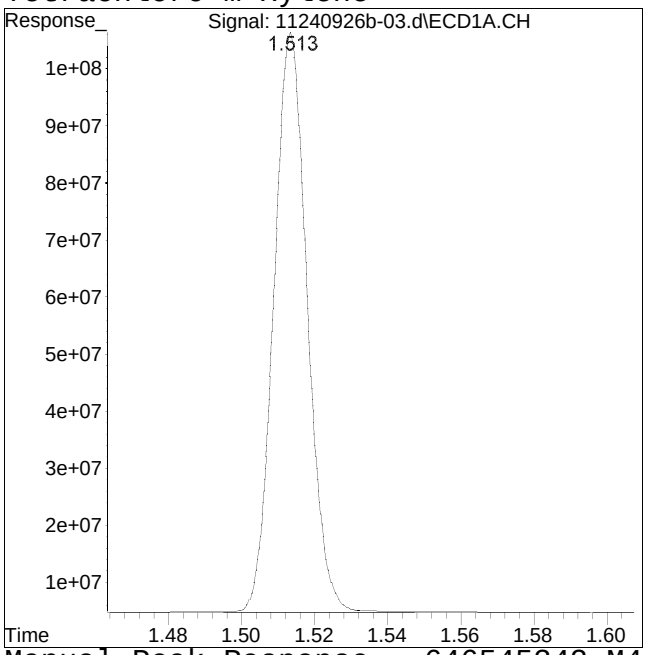
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 652811747



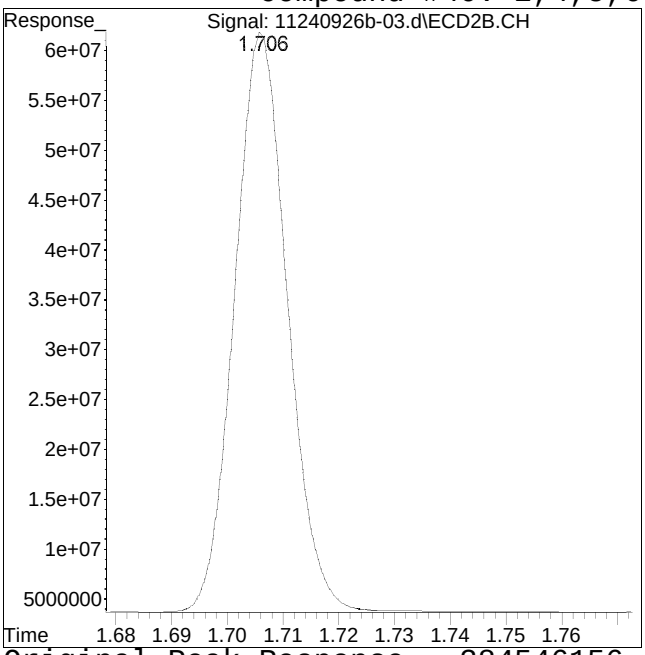
Manual Peak Response = 646545342 M4

M4 = Poor automated baseline construction.

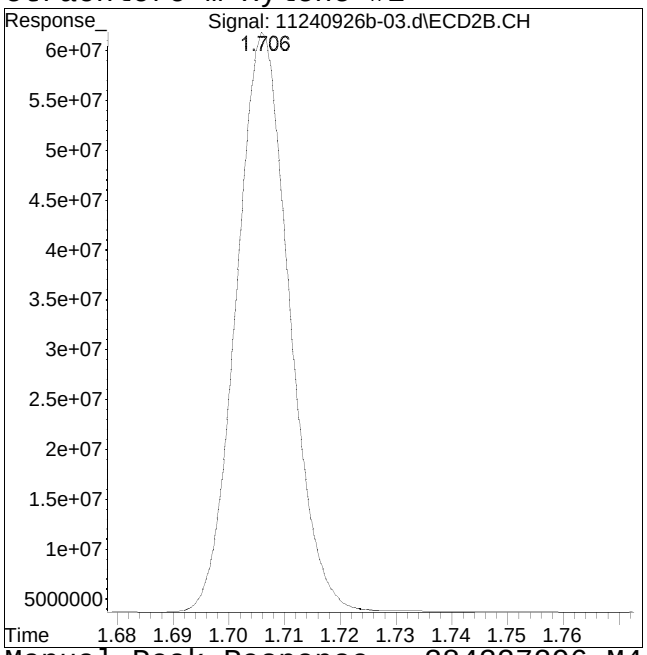
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 384546156



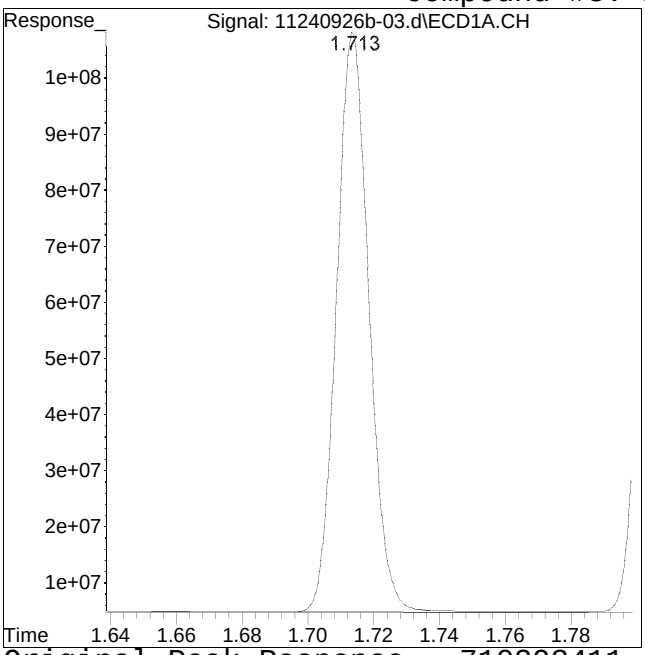
Manual Peak Response = 384327296 M4

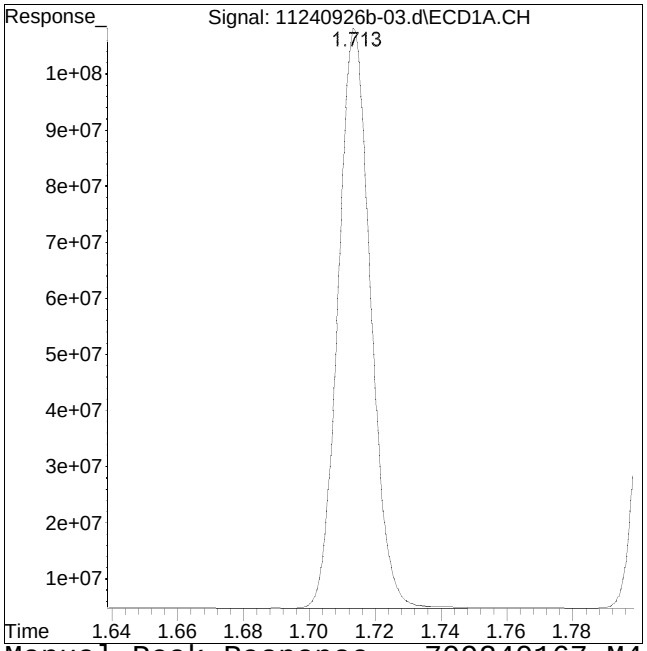
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #3: Hexachlorobenzene



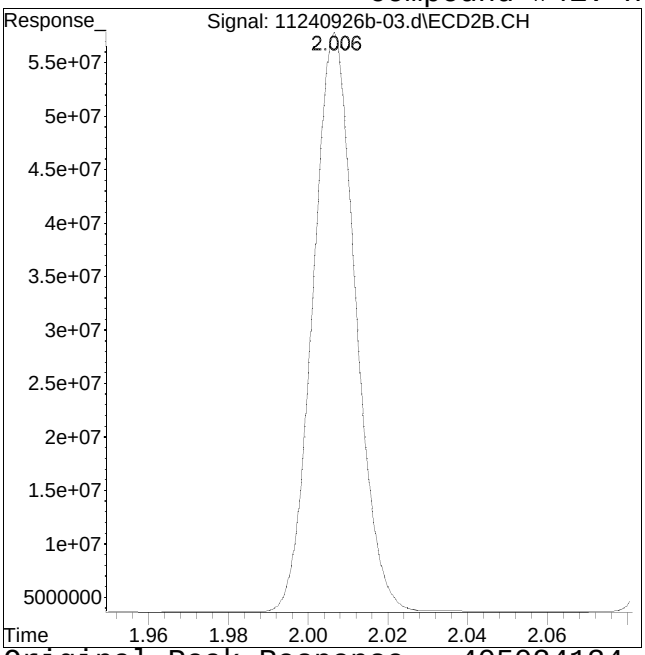


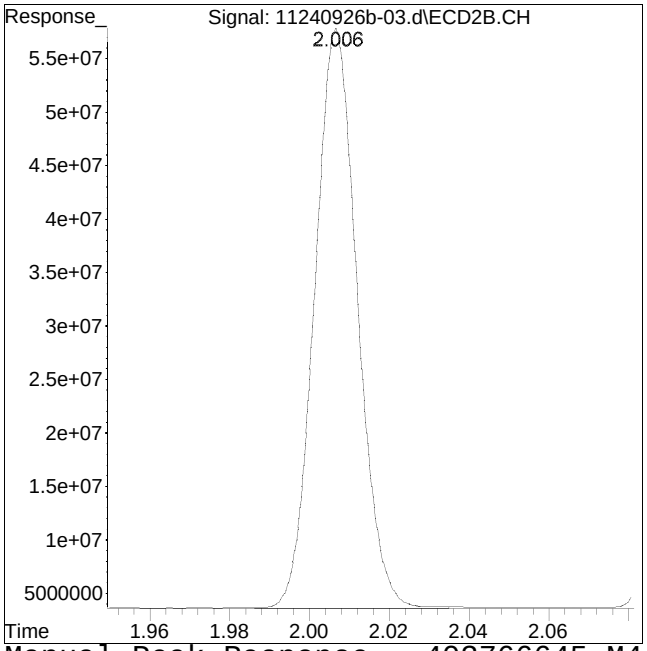
Original Peak Response = 710393411 Manual Peak Response = 709240167 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #41: Hexachlorobenzene #2



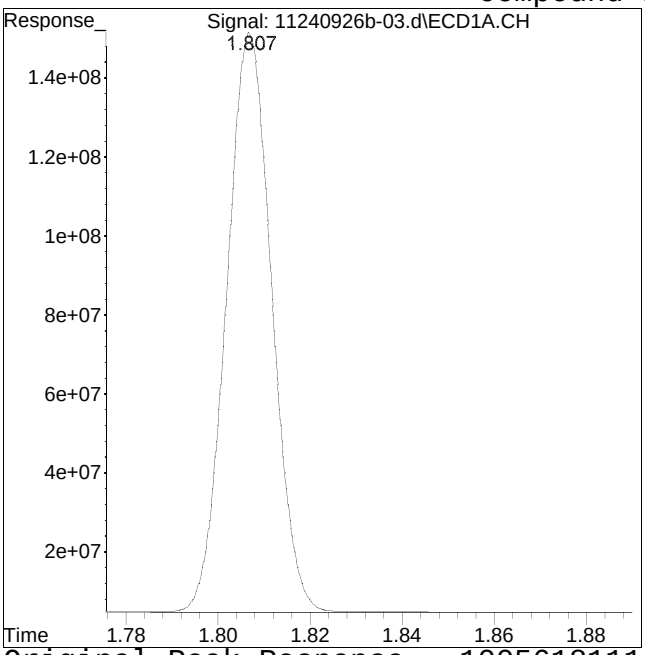


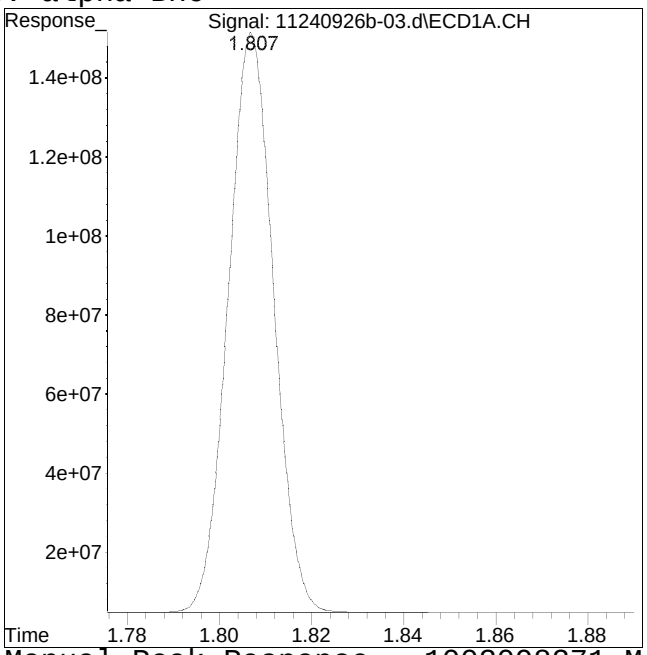
Original Peak Response = 405024134 Manual Peak Response = 403766645 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #4: alpha-BHC



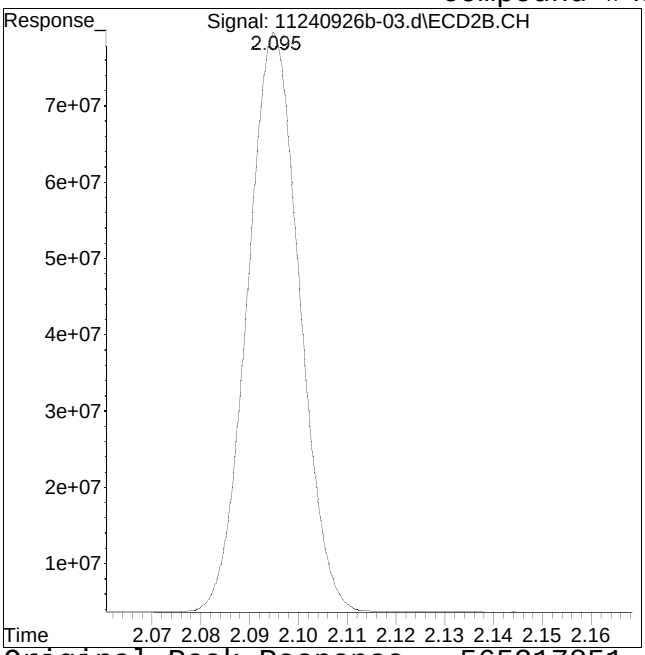


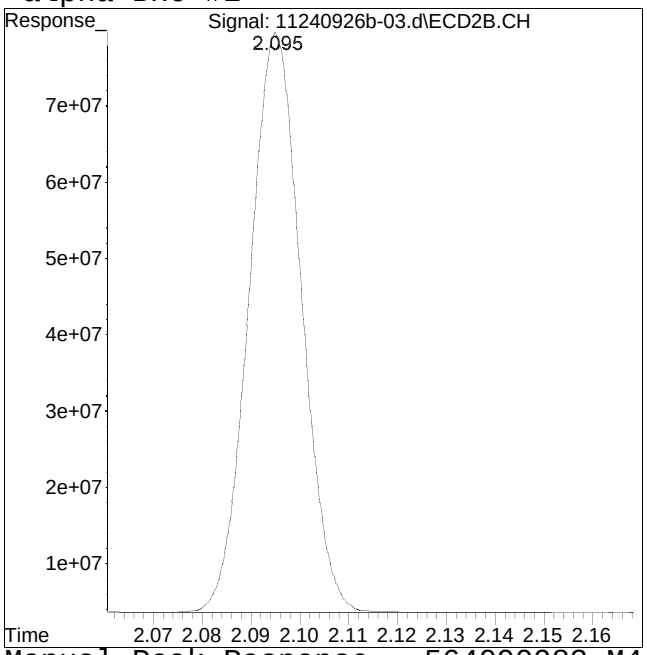
Original Peak Response = 1005618111 Manual Peak Response = 1003098271 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #42: alpha-BHC #2



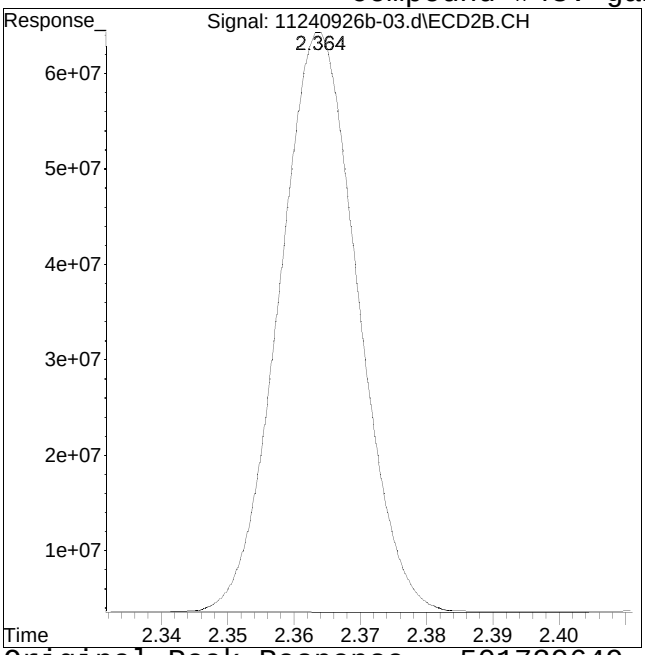


Original Peak Response = 565317851 Manual Peak Response = 564090983 M4
M4 = Poor automated baseline construction.

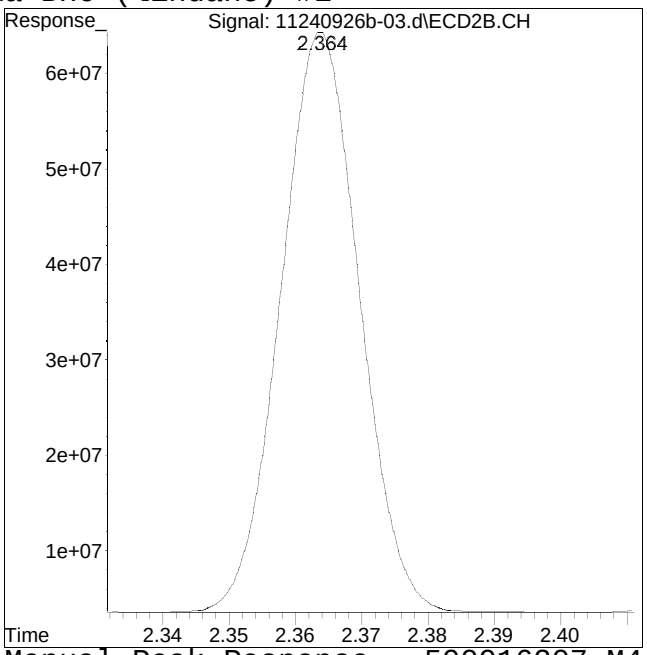
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 501739649



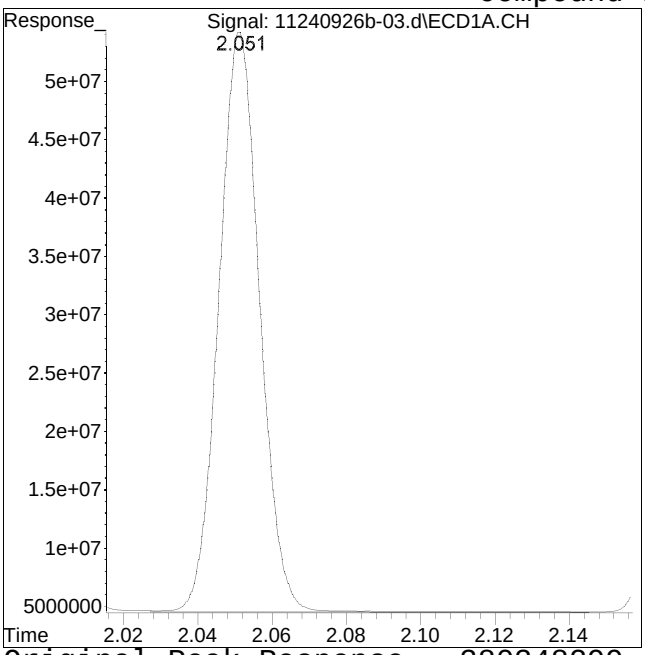
Manual Peak Response = 500916207 M4

M4 = Poor automated baseline construction.

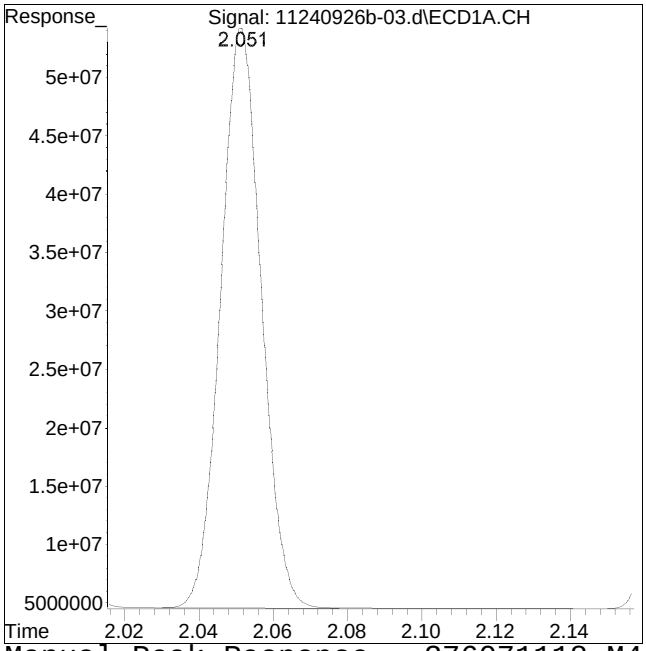
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #6: beta-BHC



Original Peak Response = 380348299



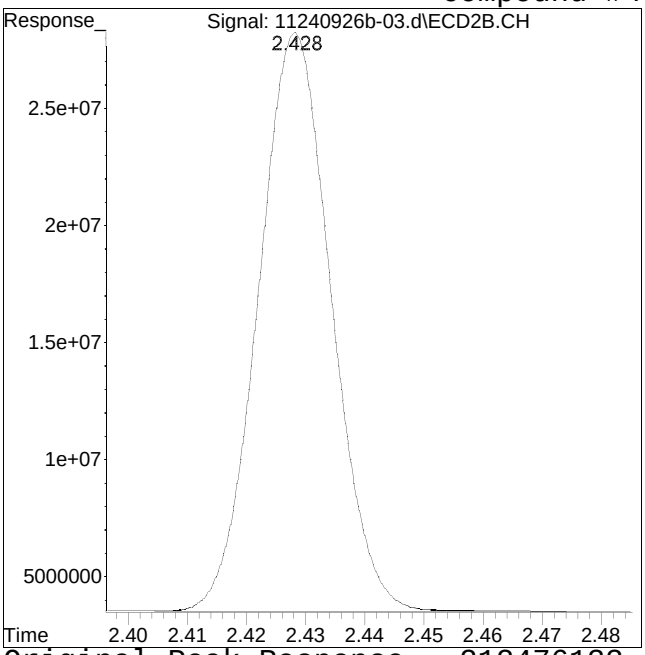
Manual Peak Response = 376071118 M4

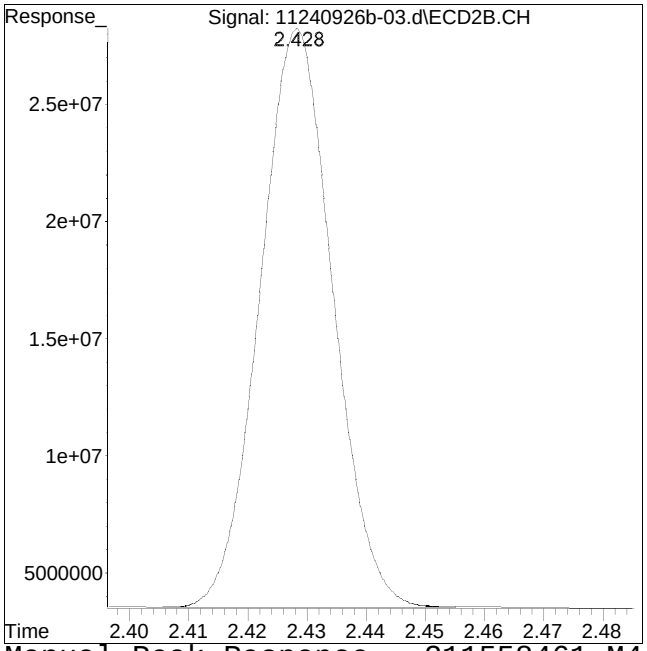
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #44: beta-BHC #2



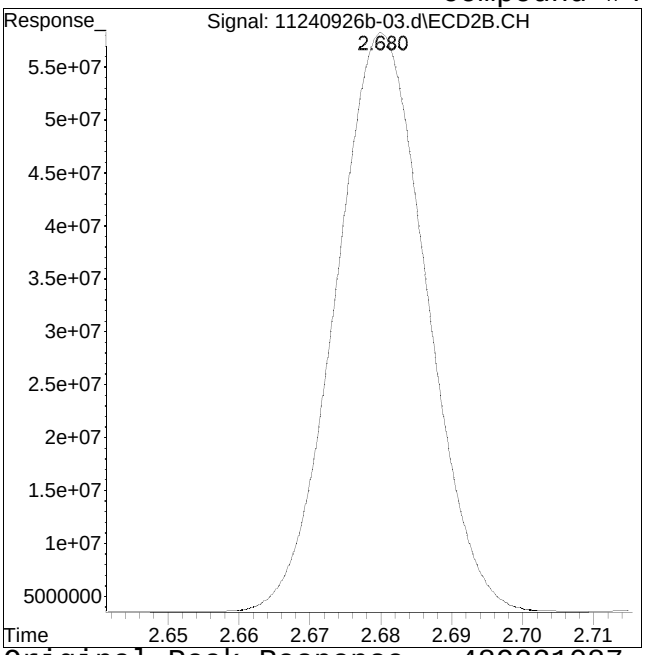


Original Peak Response = 212476133 Manual Peak Response = 211558461 M4
M4 = Poor automated baseline construction.

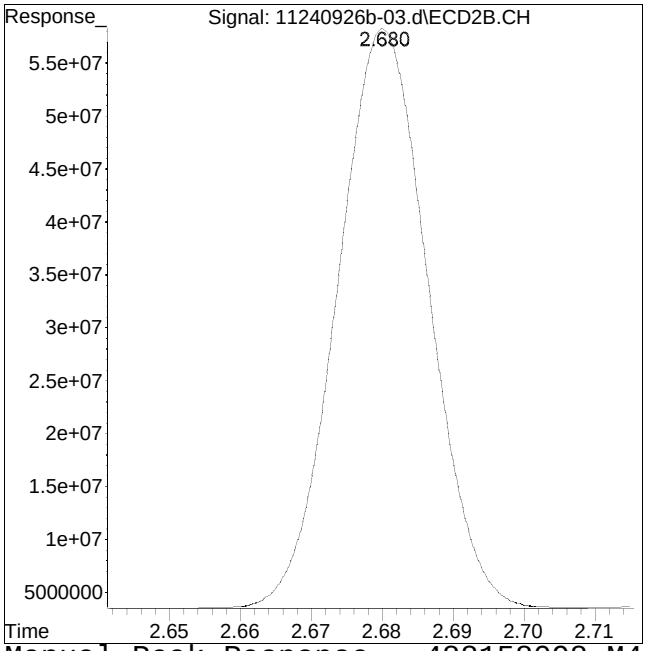
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #45: delta-BHC #2



Original Peak Response = 489221087



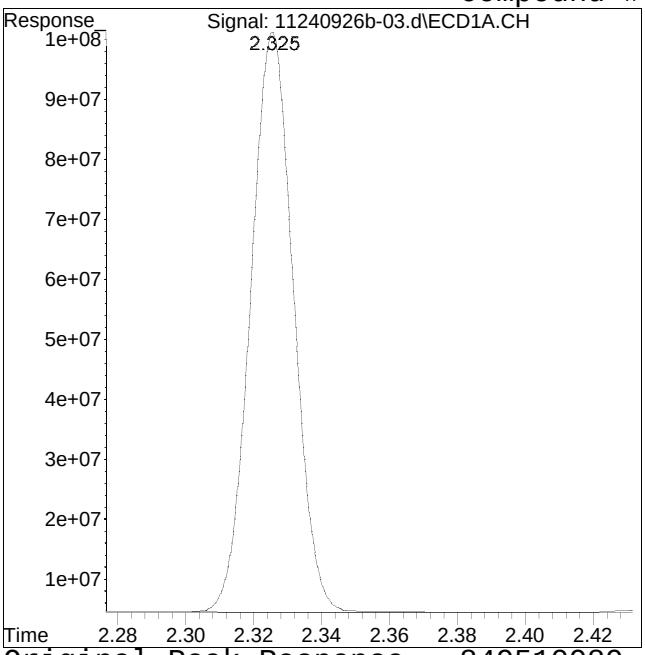
Manual Peak Response = 488158098 M4

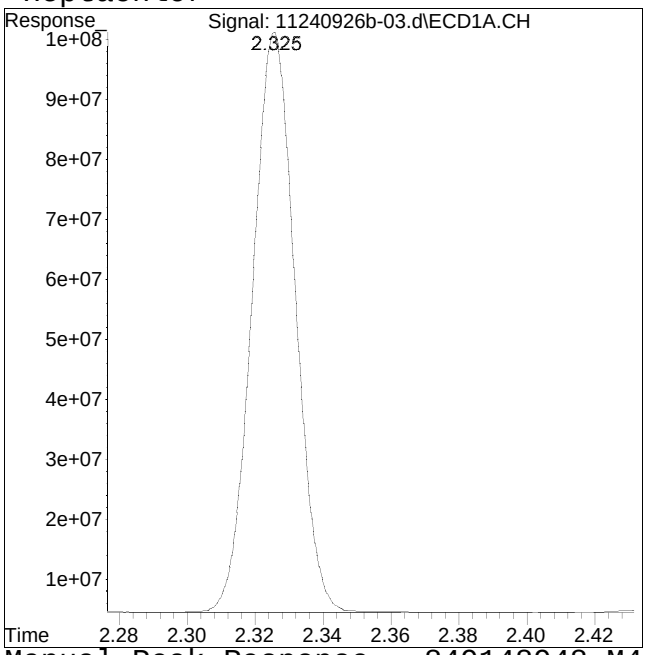
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #8: Heptachlor



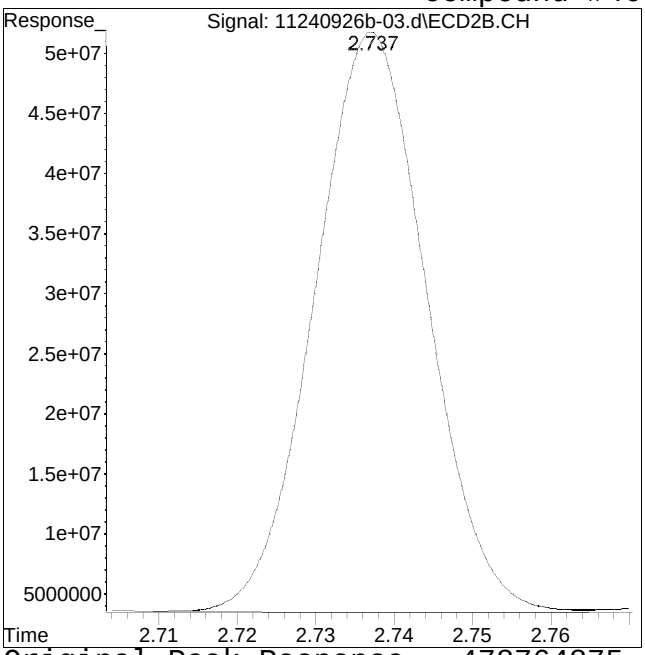


Original Peak Response = 849510989 Manual Peak Response = 849148948 M4
M4 = Poor automated baseline construction.

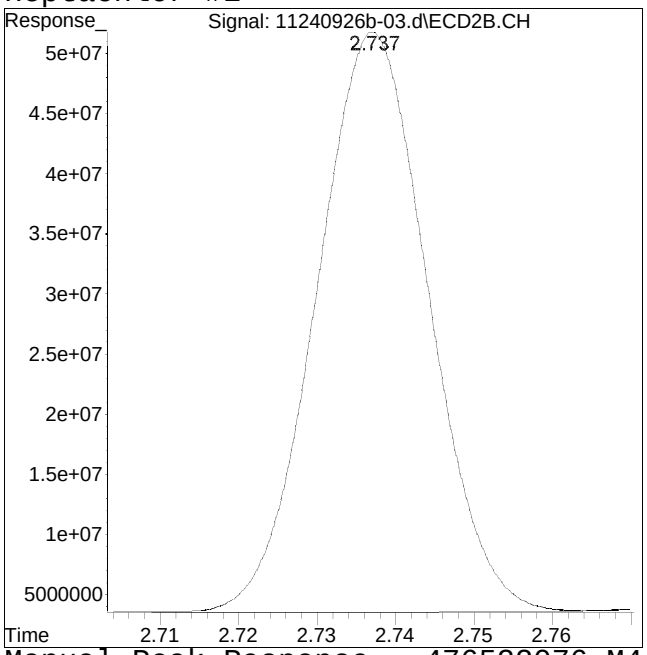
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #46: Heptachlor #2



Original Peak Response = 478764875

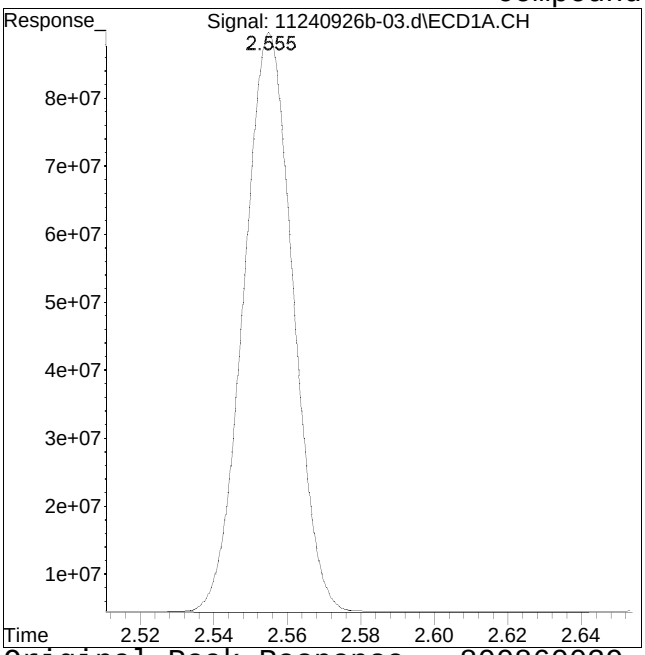


Manual Peak Response = 476522076 M4
M4 = Poor automated baseline construction.

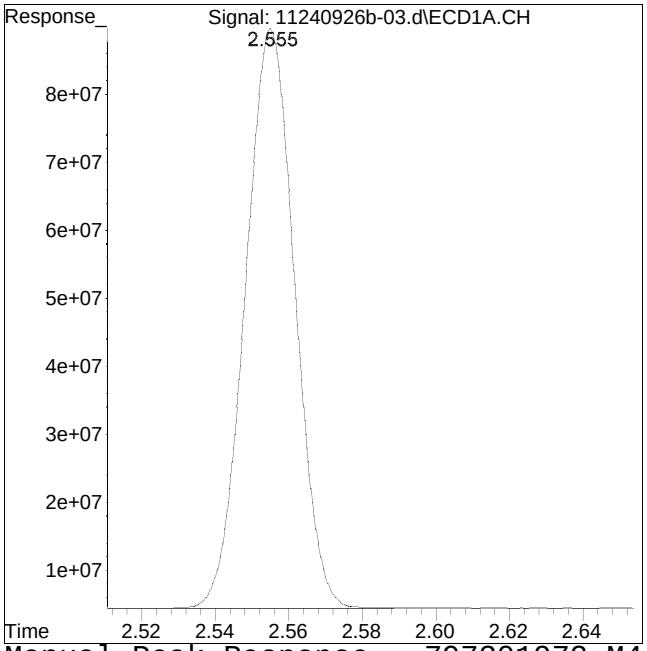
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #9: Aldrin



Original Peak Response = 800860039

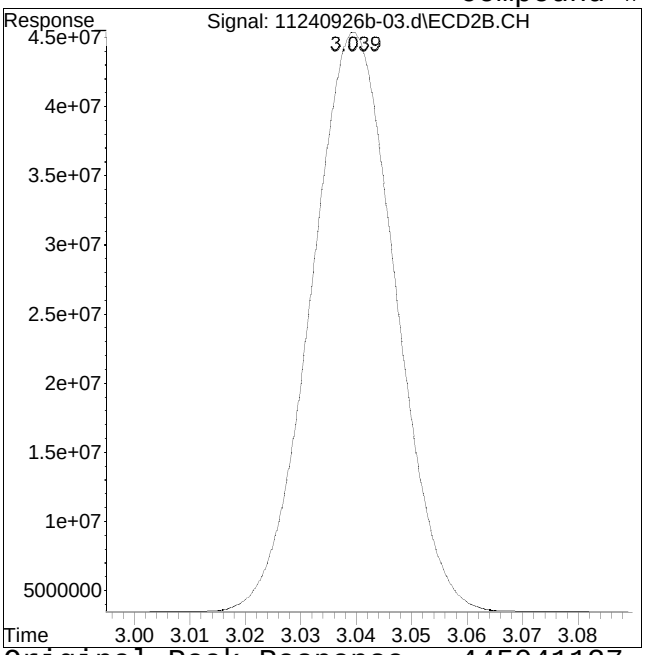


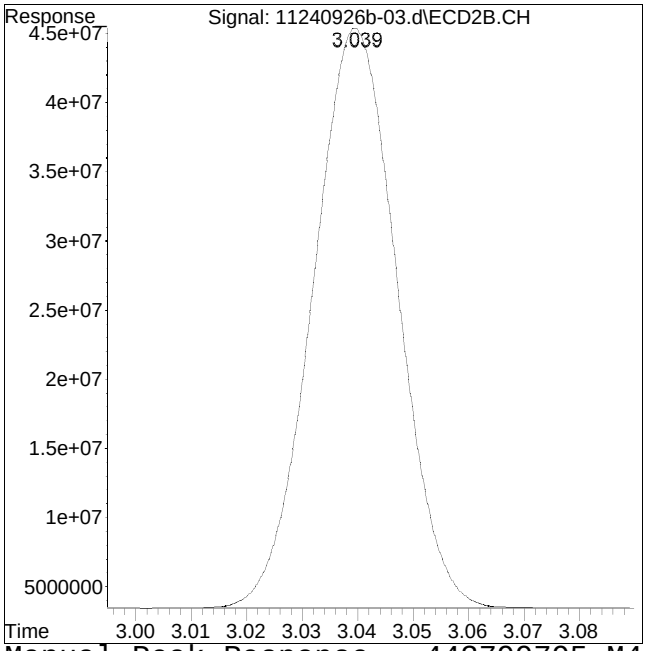
Manual Peak Response = 797301972 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #47: Aldrin #2



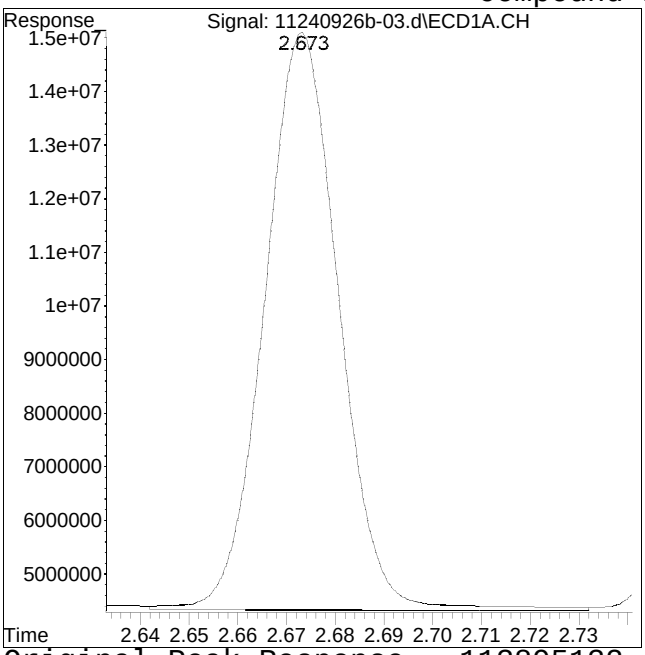


Original Peak Response = 445041127 Manual Peak Response = 443799795 M4
M4 = Poor automated baseline construction.

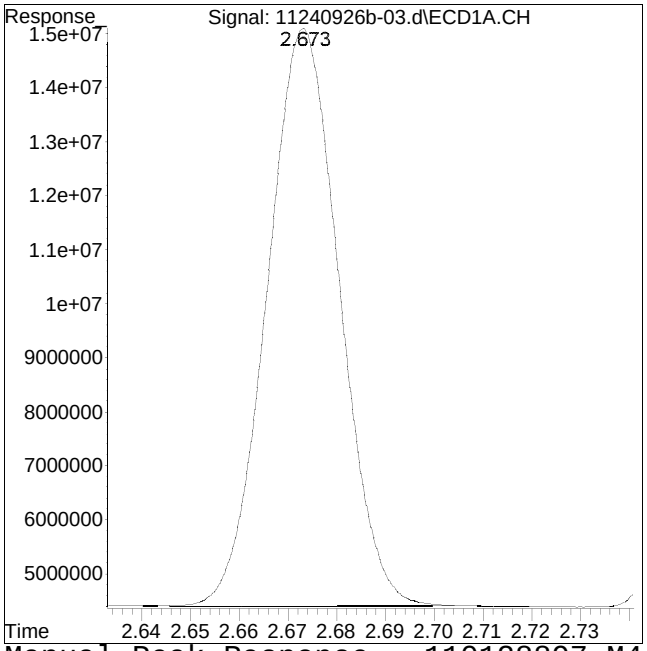
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #10: Alachlor



Original Peak Response = 113895132



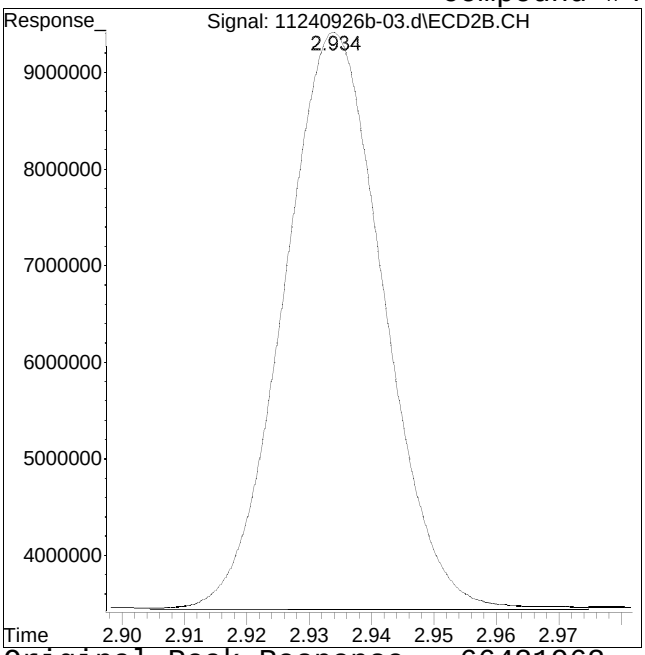
Manual Peak Response = 110128897 M4

M4 = Poor automated baseline construction.

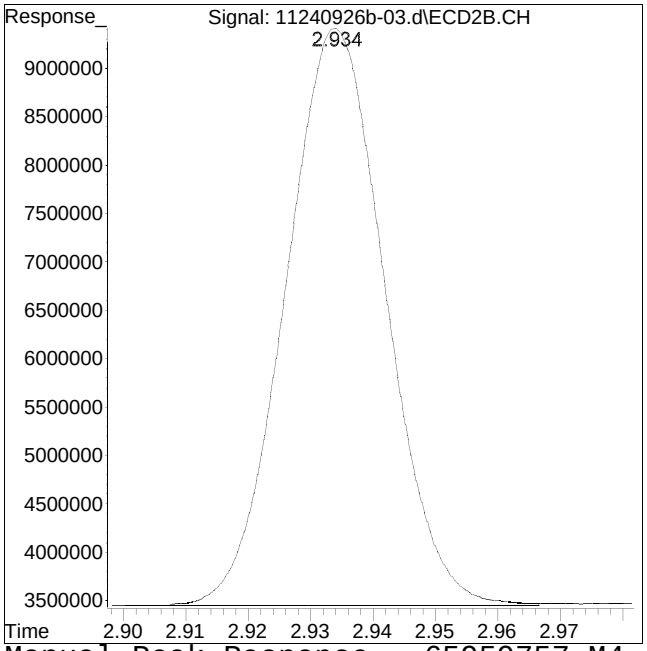
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #48: Alachlor #2



Original Peak Response = 66421962



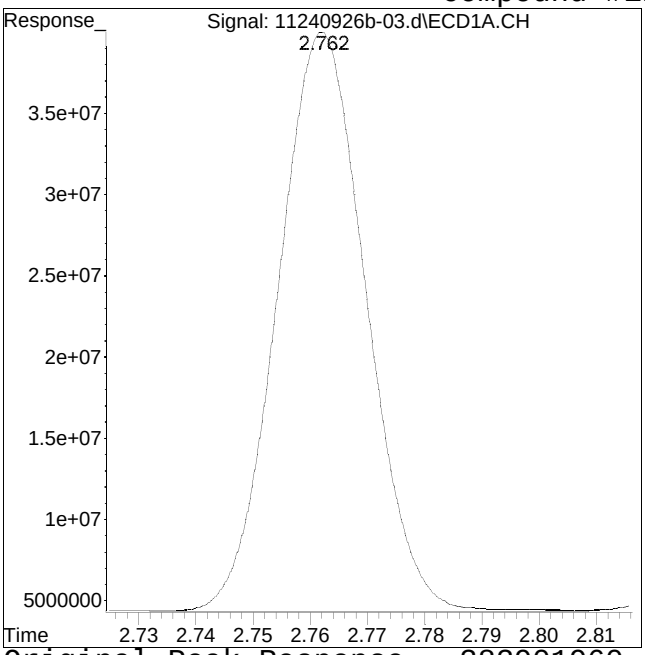
Manual Peak Response = 65959757 M4

M4 = Poor automated baseline construction.

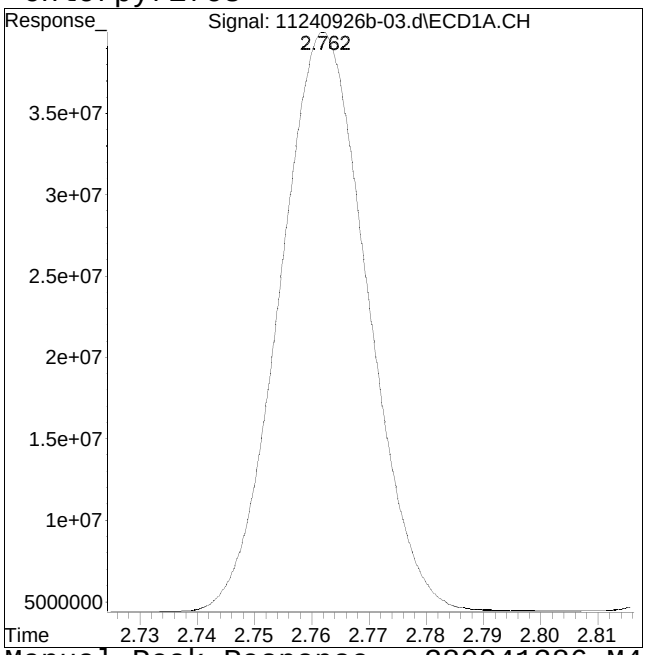
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #11: Chlorpyrifos



Original Peak Response = 383901960



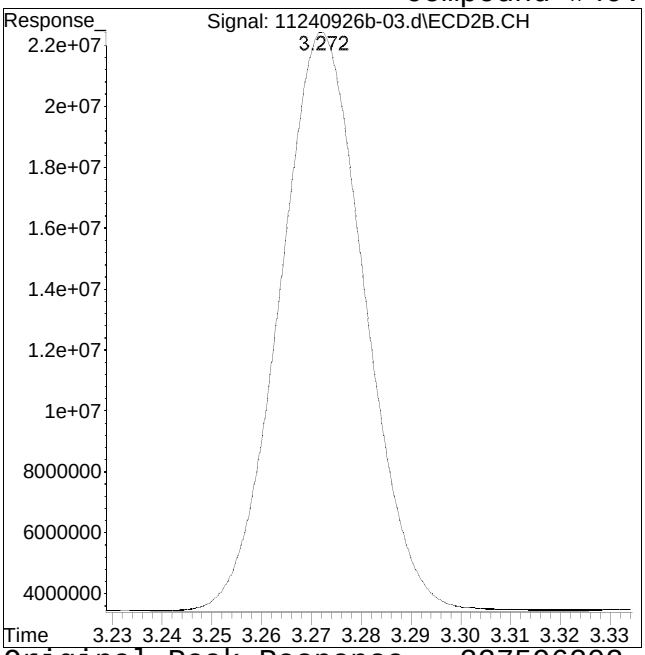
Manual Peak Response = 380941386 M4

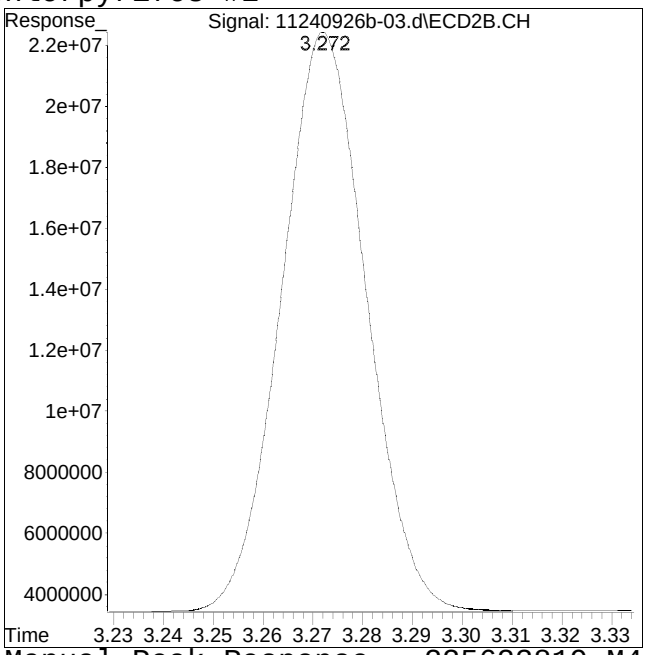
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #49: Chlorpyrifos #2



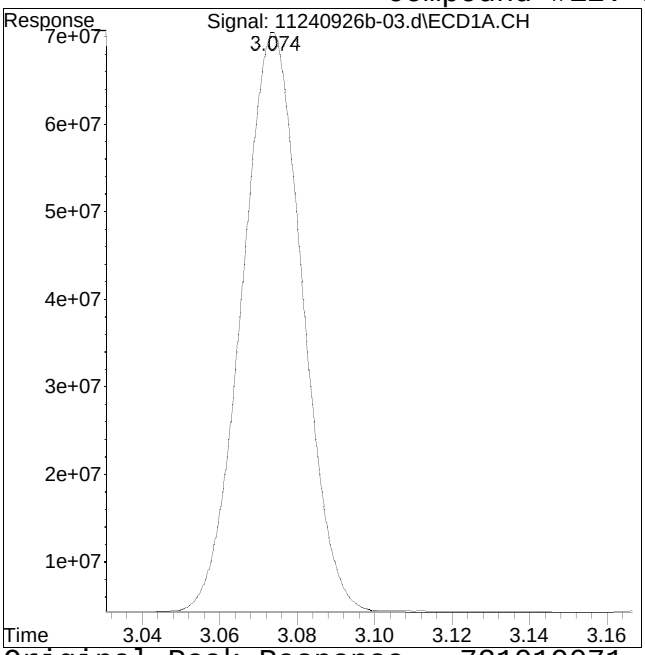


Original Peak Response = 227596202 Manual Peak Response = 225623819 M4
M4 = Poor automated baseline construction.

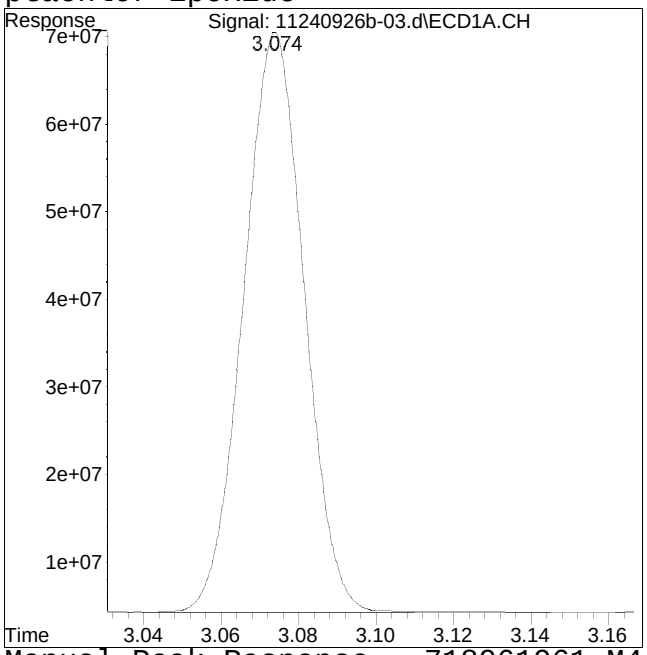
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 721019071



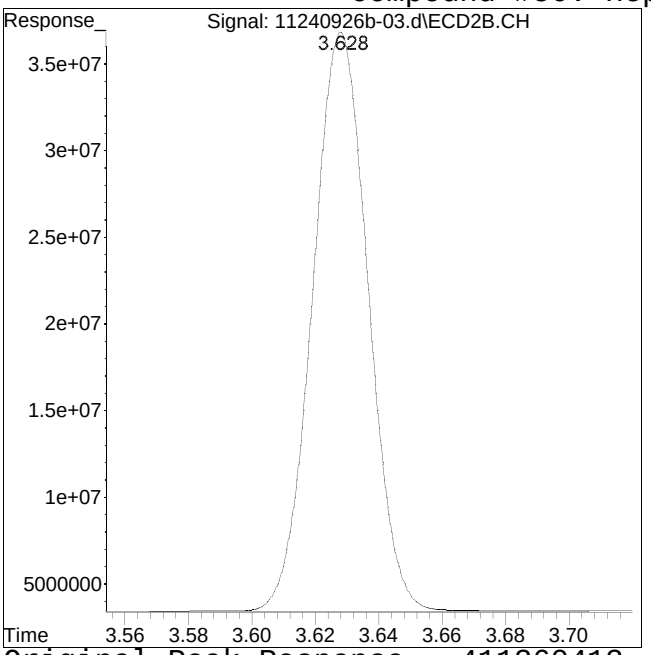
Manual Peak Response = 718961961 M4

M4 = Poor automated baseline construction.

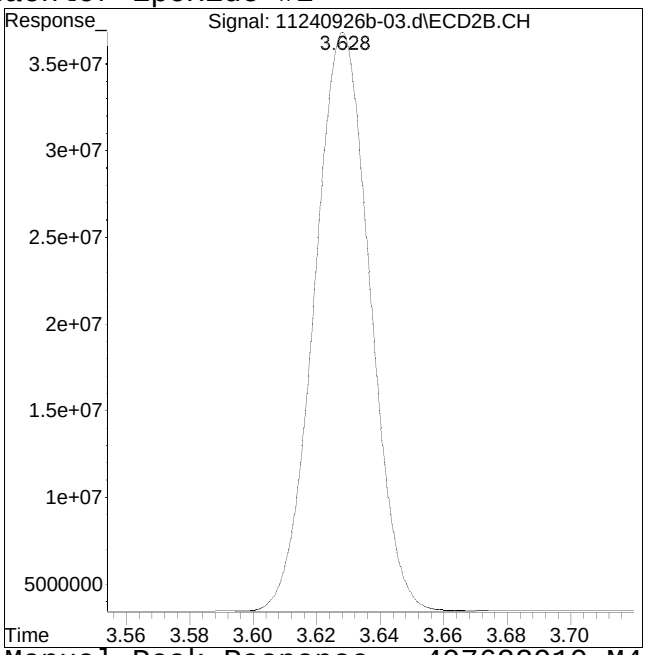
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 411360413



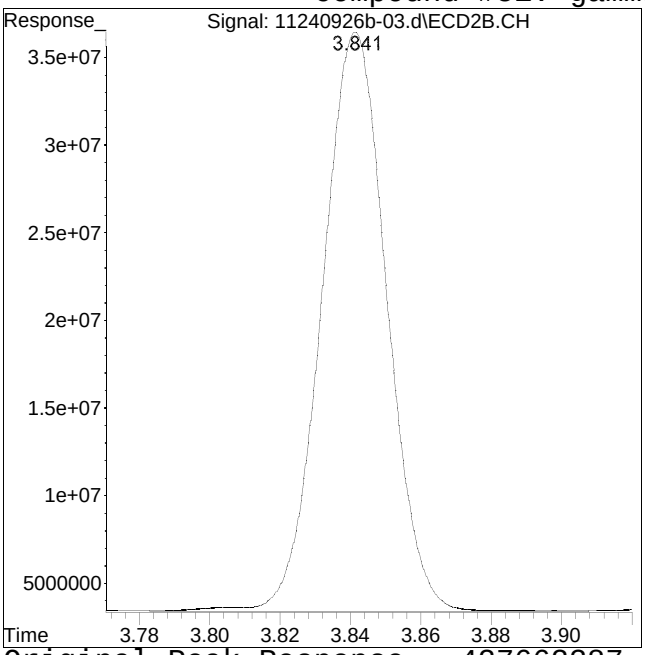
Manual Peak Response = 407622910 M4

M4 = Poor automated baseline construction.

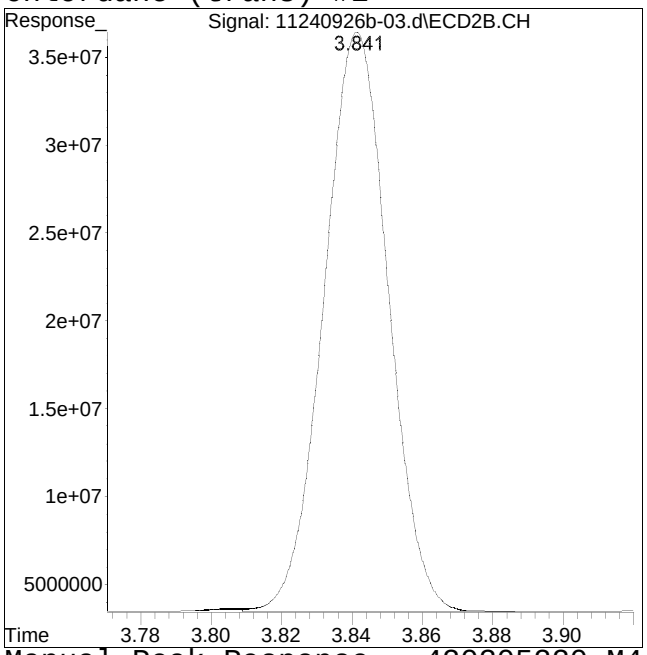
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 427662387



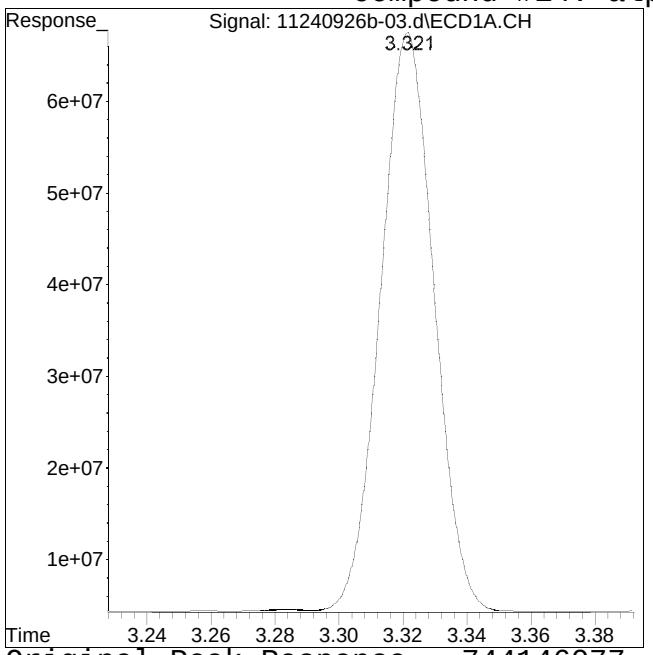
Manual Peak Response = 420305220 M4

M4 = Poor automated baseline construction.

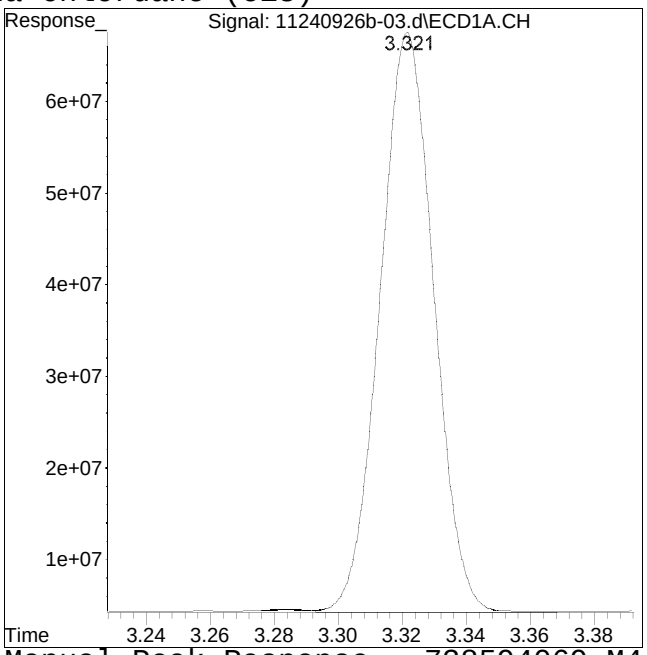
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 744146077



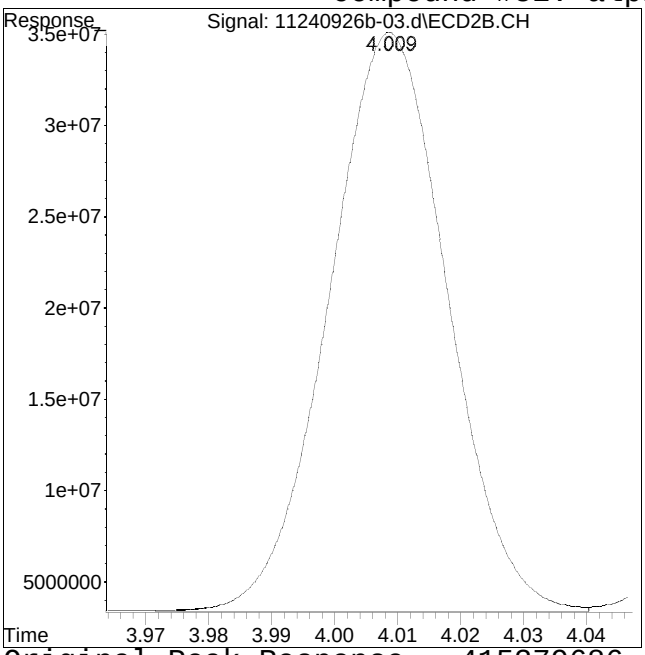
Manual Peak Response = 738594069 M4

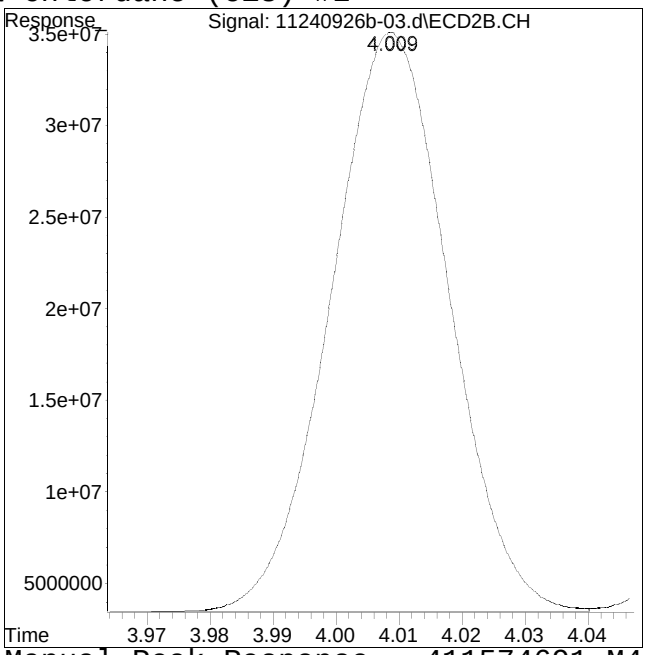
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #52: alpha-Chlordane (cis) #2



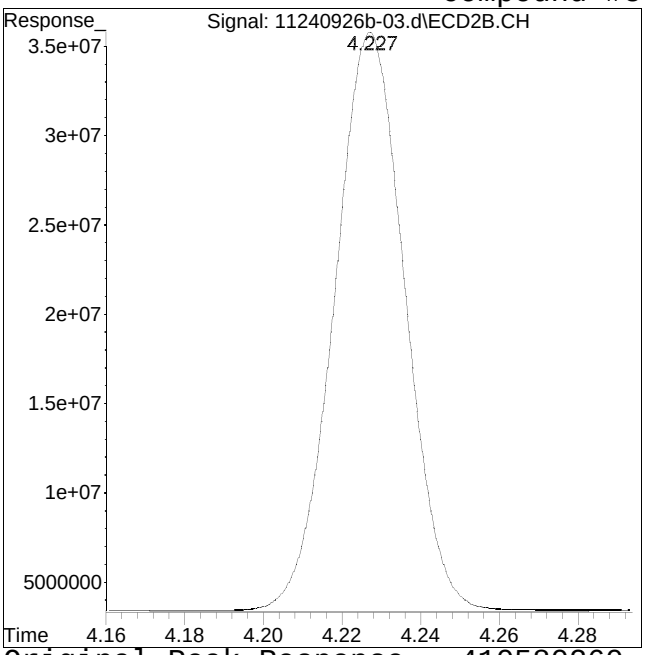


Original Peak Response = 415379686 Manual Peak Response = 411574691 M4
M4 = Poor automated baseline construction.

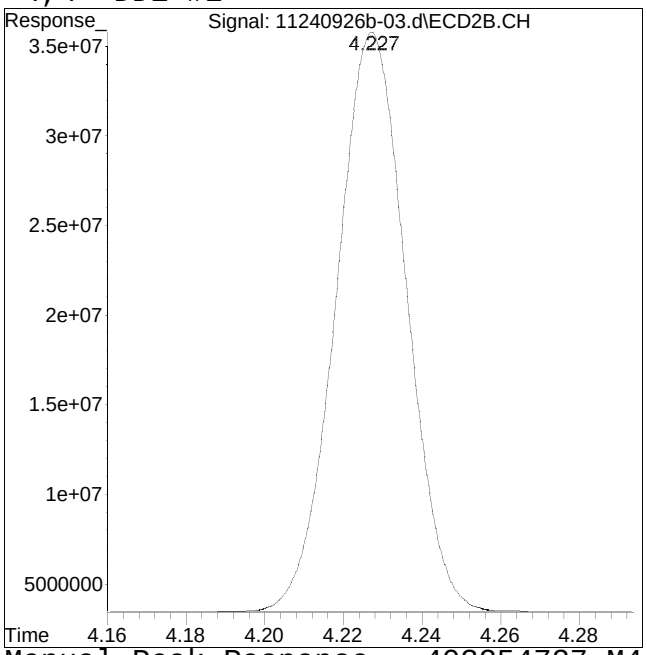
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 410580260



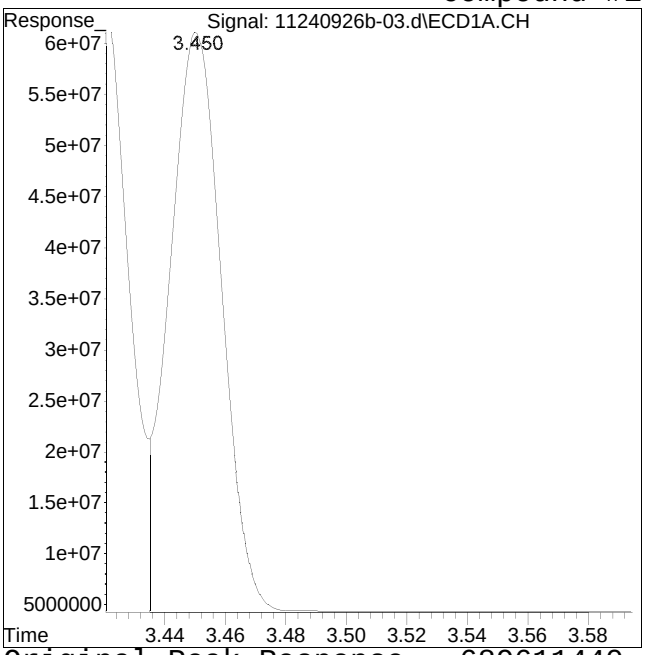
Manual Peak Response = 403254727 M4

M4 = Poor automated baseline construction.

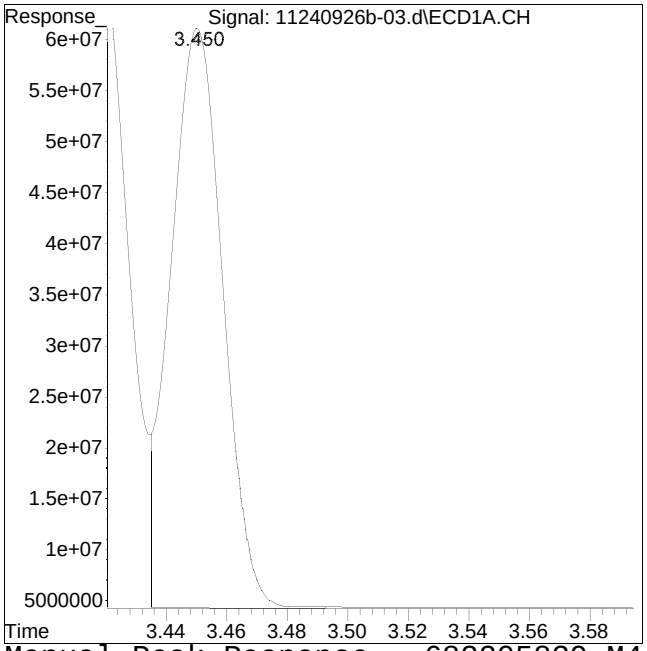
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #16: Endosulfan I



Original Peak Response = 689611440



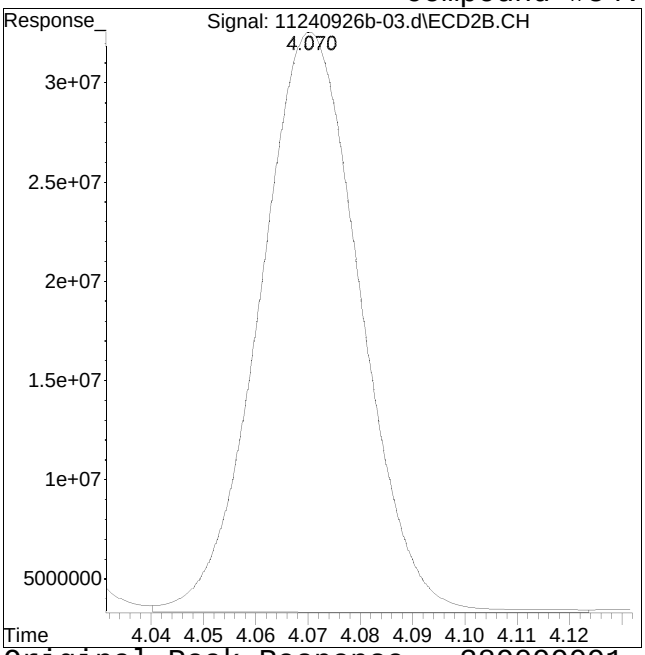
Manual Peak Response = 682205839 M4

M4 = Poor automated baseline construction.

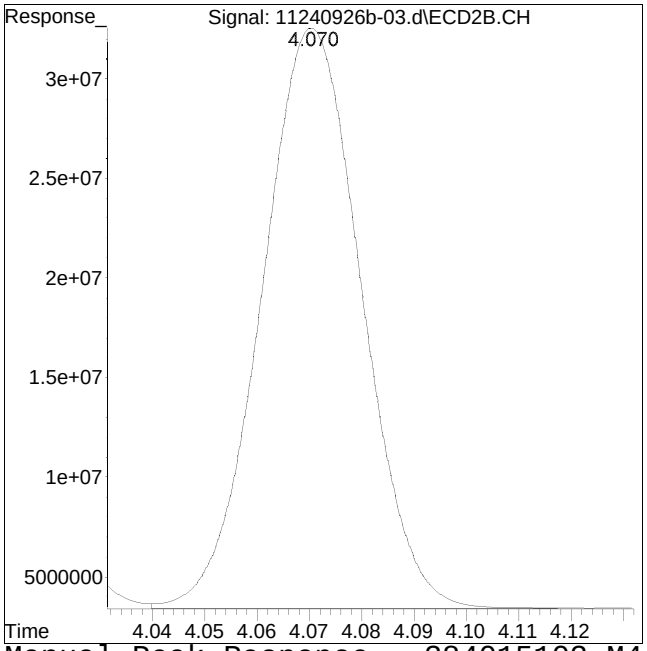
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #54: Endosulfan I #2



Original Peak Response = 389099991



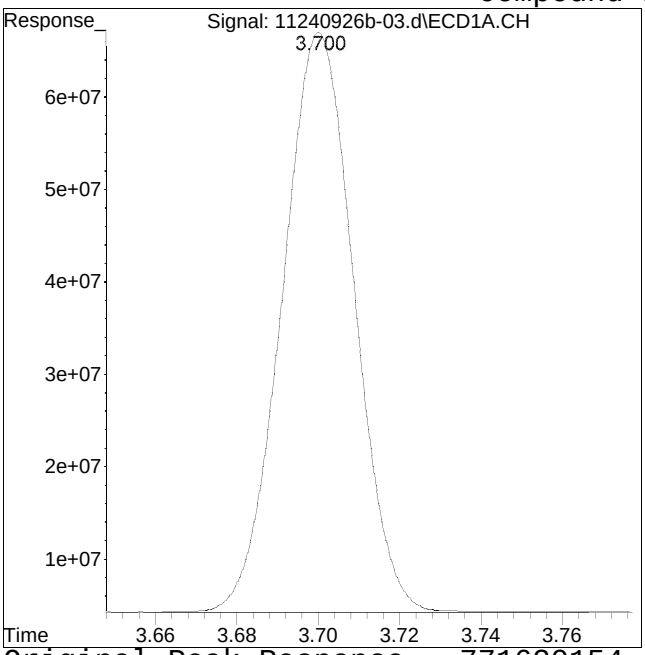
Manual Peak Response = 384015103 M4

M4 = Poor automated baseline construction.

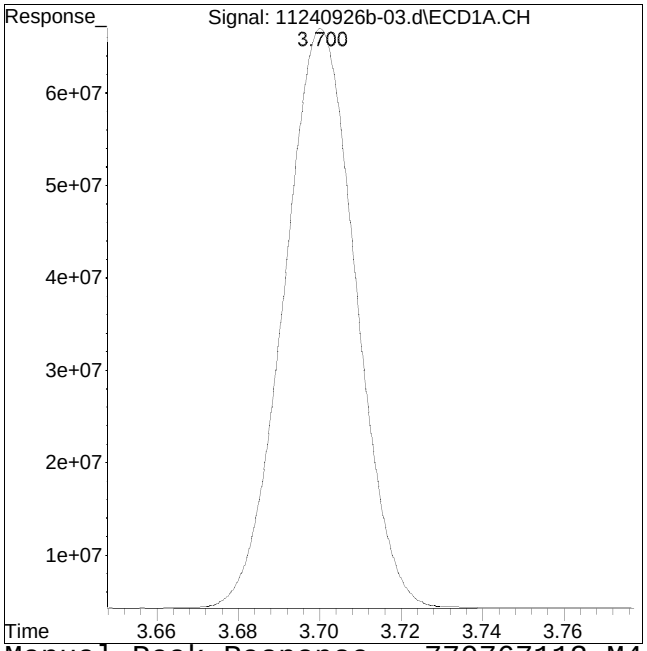
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #17: Dieldrin



Original Peak Response = 771620154



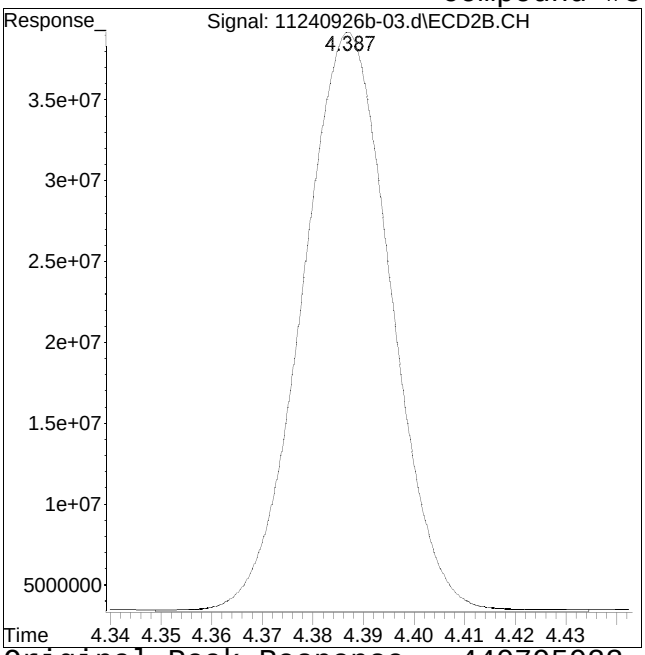
Manual Peak Response = 770767113 M4

M4 = Poor automated baseline construction.

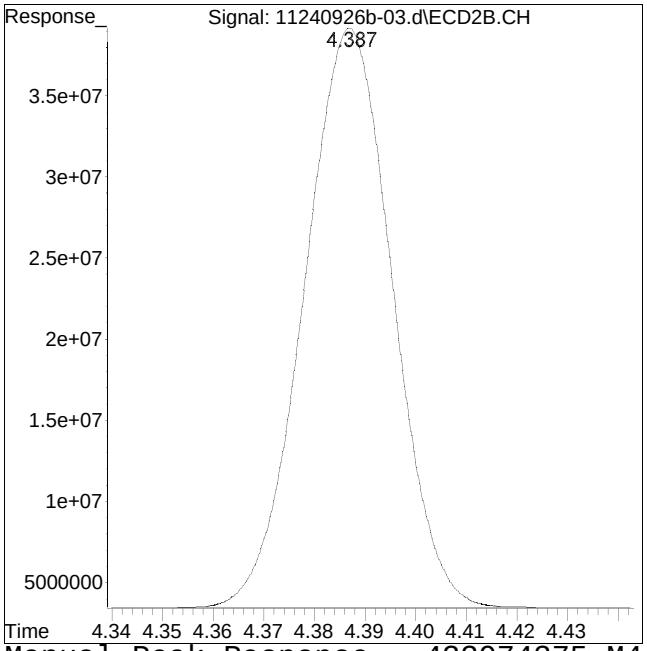
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #55: Dieldrin #2



Original Peak Response = 440795923



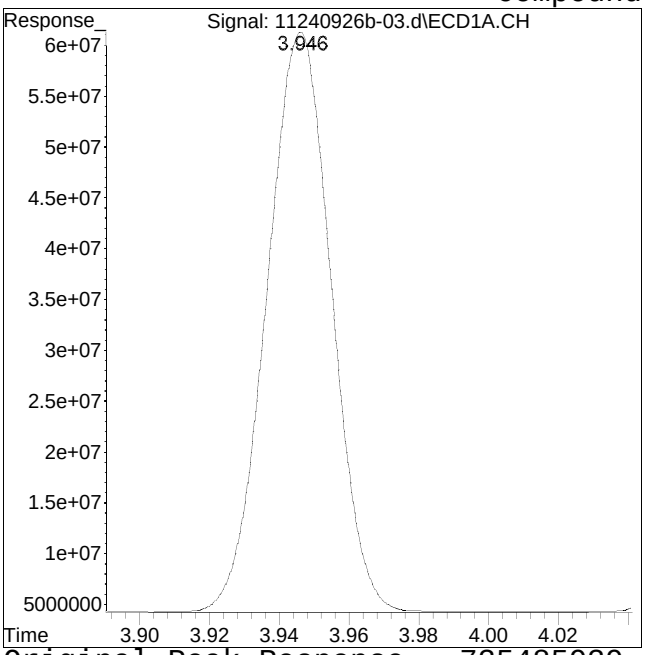
Manual Peak Response = 433974375 M4

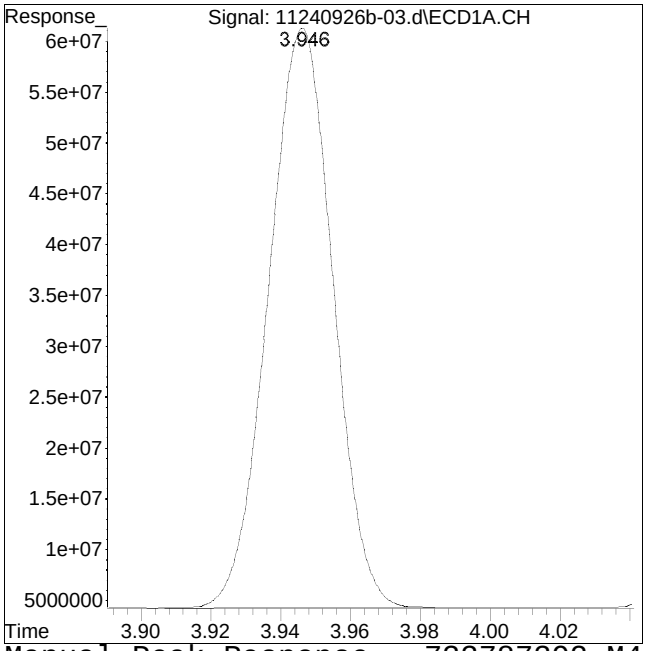
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #18: Endrin



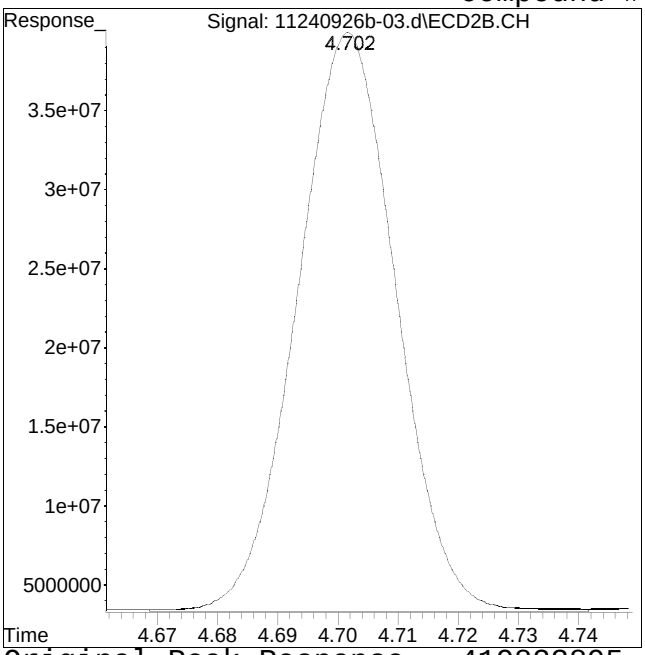


Original Peak Response = 735485939 Manual Peak Response = 733787392 M4
M4 = Poor automated baseline construction.

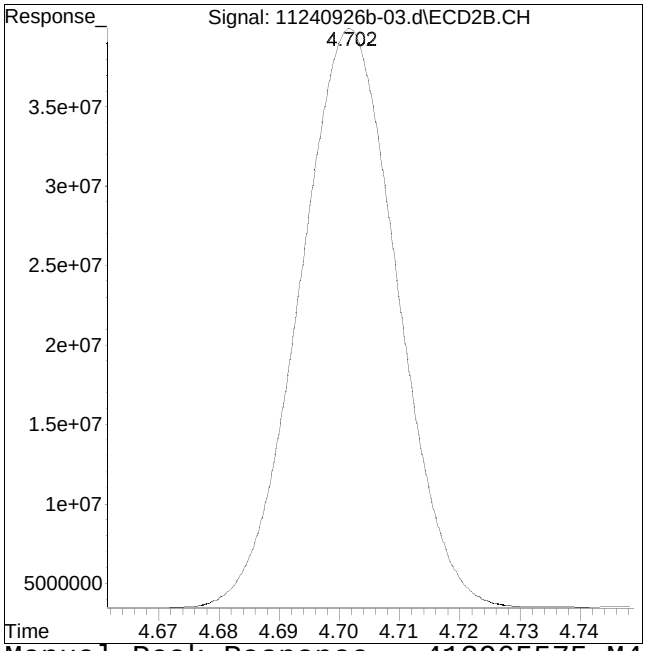
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #56: Endrin #2



Original Peak Response = 419823895



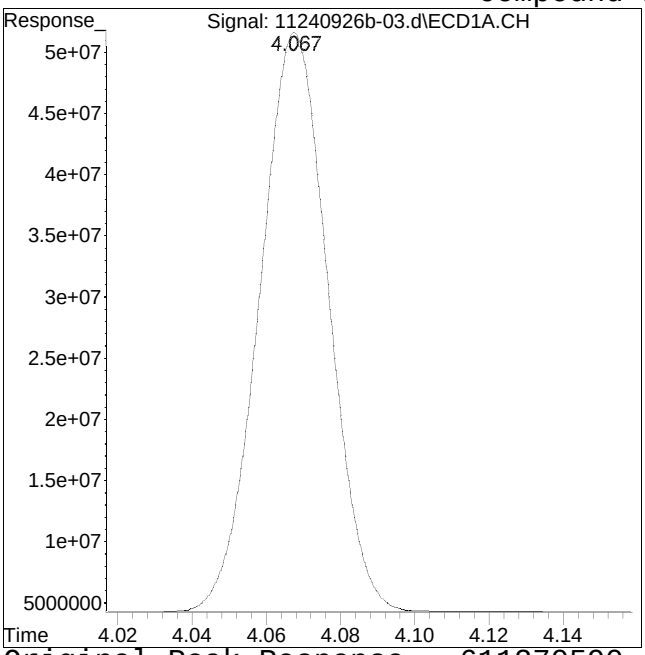
Manual Peak Response = 412965575 M4

M4 = Poor automated baseline construction.

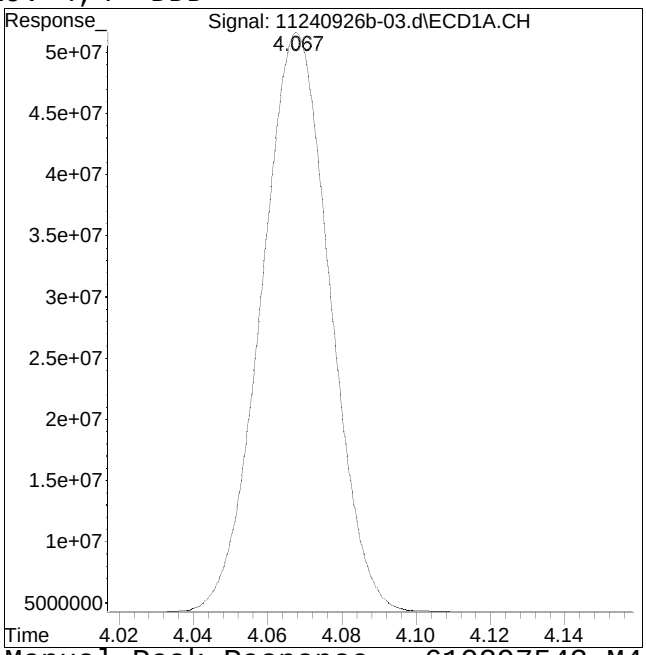
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #19: 4,4'-DDD



Original Peak Response = 611270590



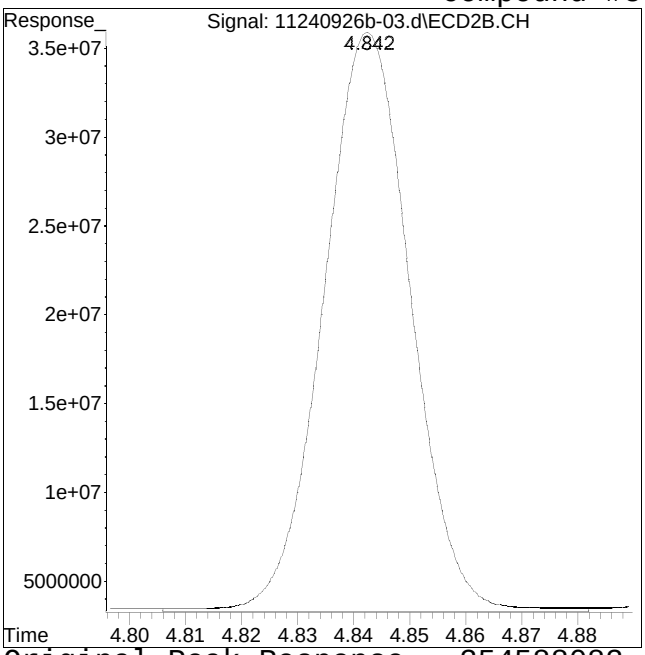
Manual Peak Response = 610297543 M4

M4 = Poor automated baseline construction.

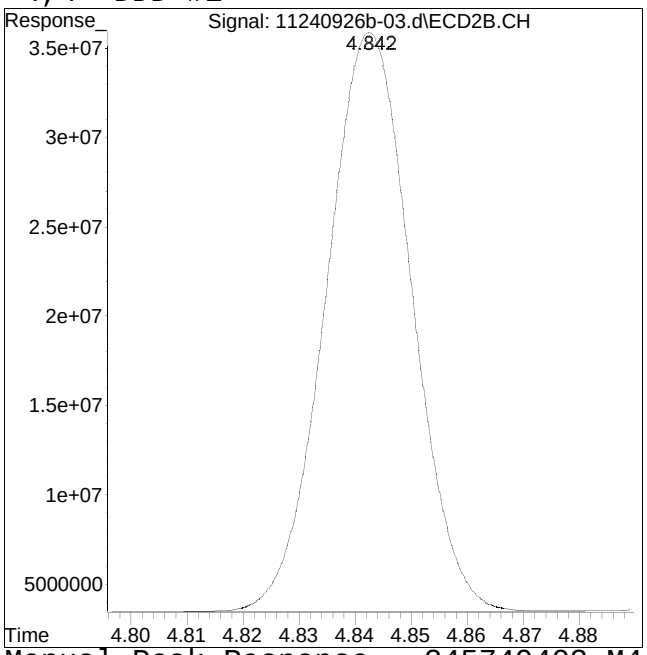
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 354588083



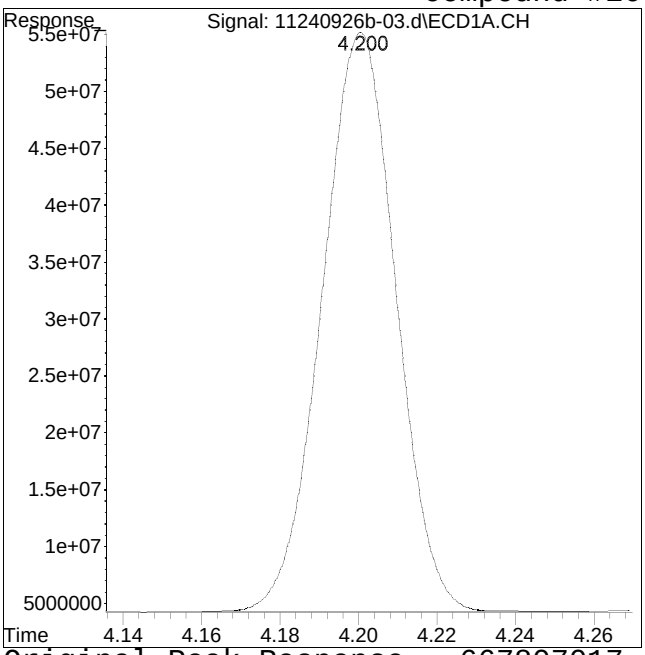
Manual Peak Response = 345749403 M4

M4 = Poor automated baseline construction.

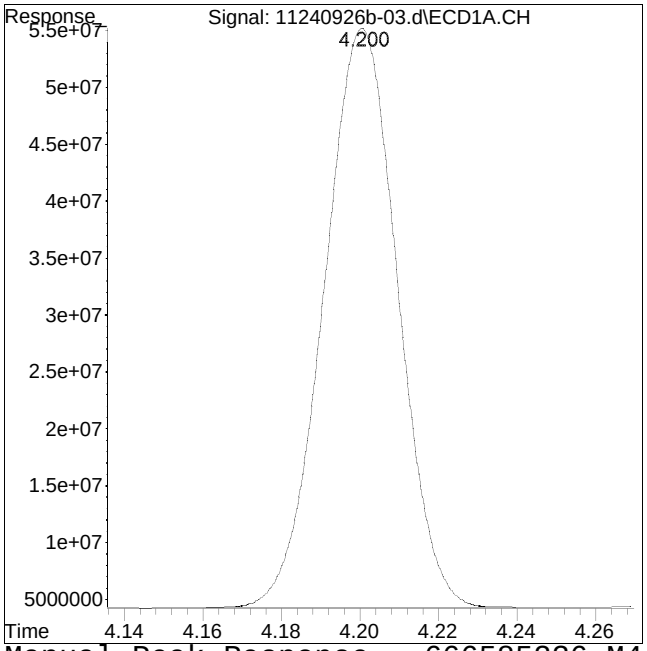
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #20: Endosulfan II



Original Peak Response = 667807017



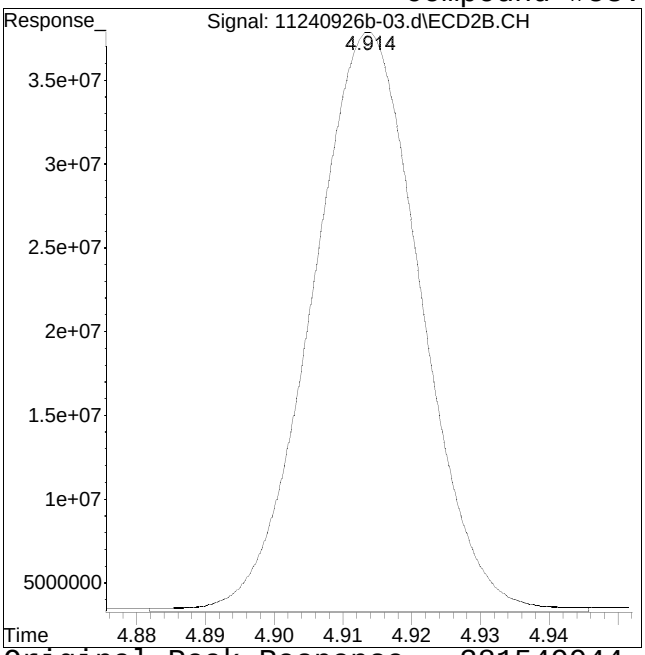
Manual Peak Response = 666585236 M4

M4 = Poor automated baseline construction.

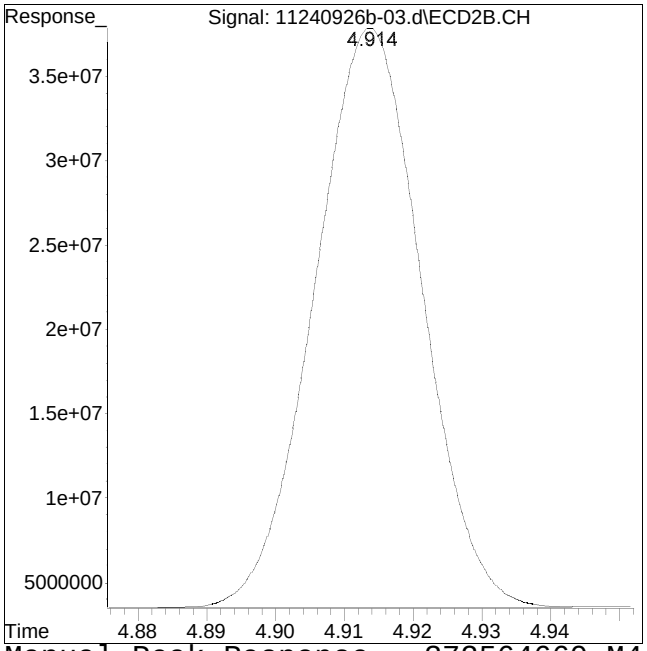
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #58: Endosulfan II #2



Original Peak Response = 381549944



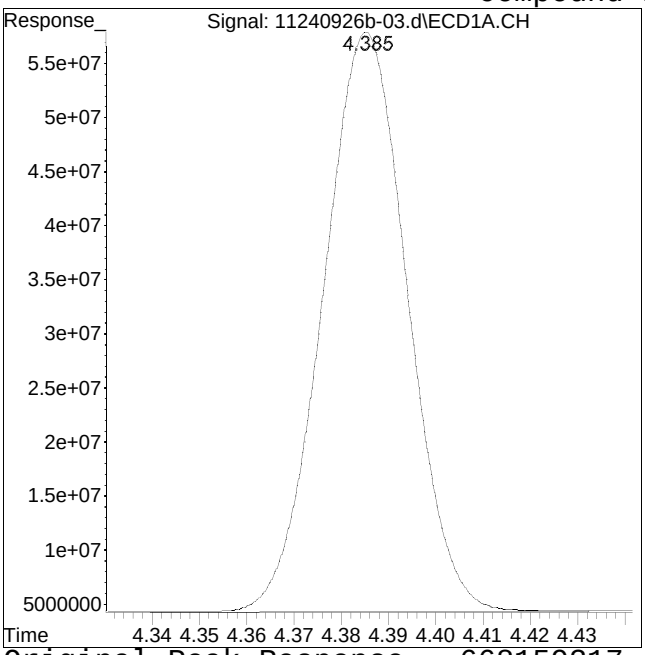
Manual Peak Response = 372564660 M4

M4 = Poor automated baseline construction.

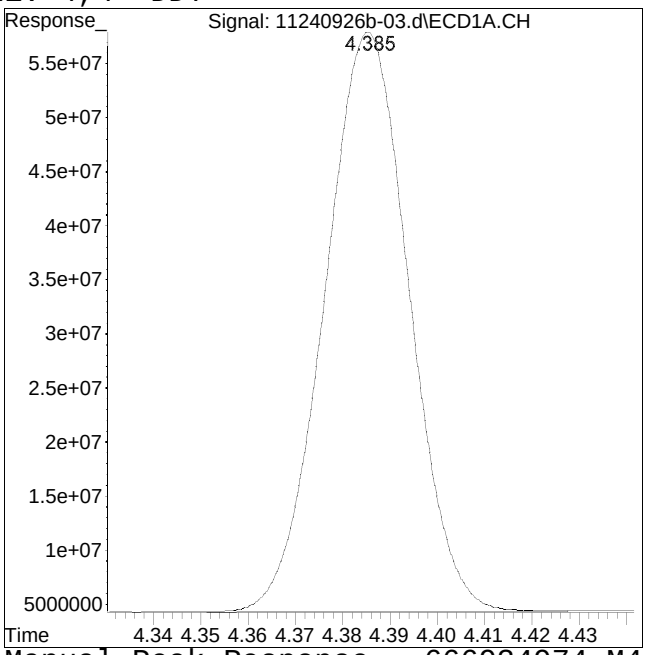
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #21: 4,4'-DDT



Original Peak Response = 668159317



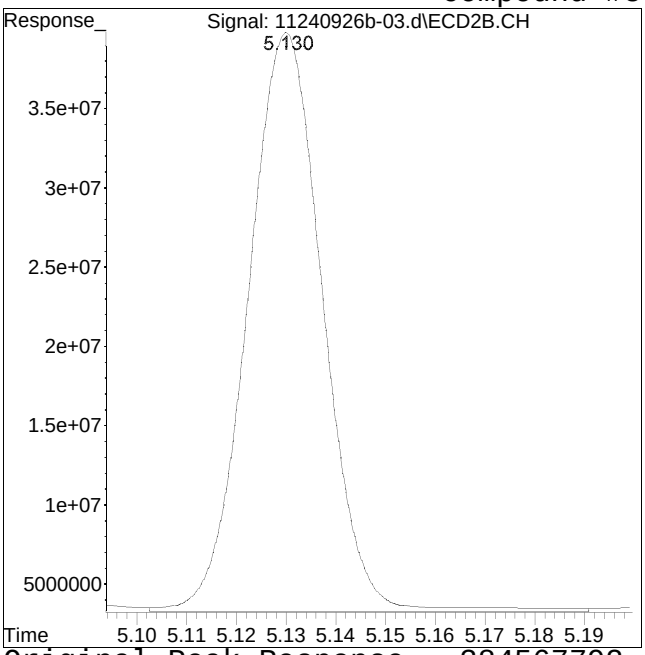
Manual Peak Response = 666934974 M4

M4 = Poor automated baseline construction.

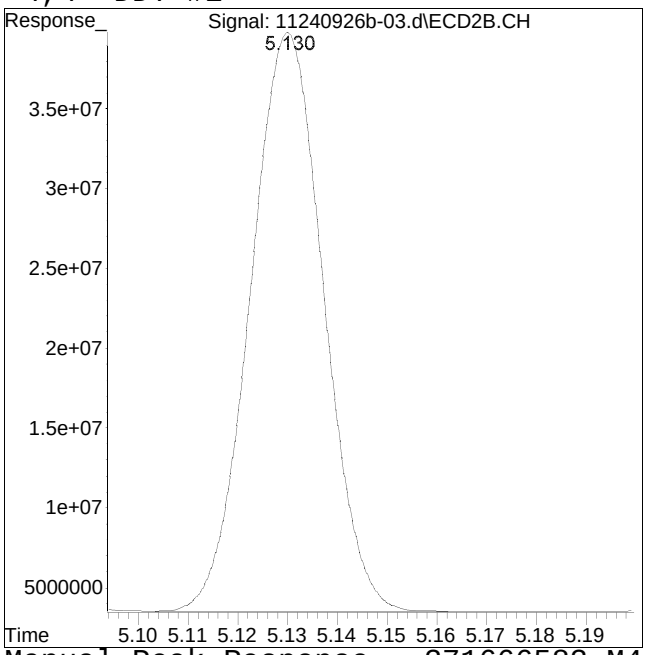
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 384567792



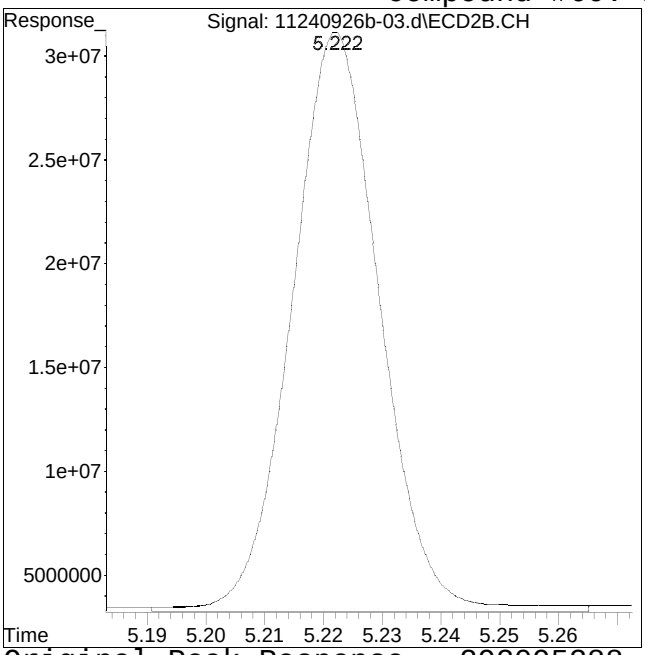
Manual Peak Response = 371666583 M4

M4 = Poor automated baseline construction.

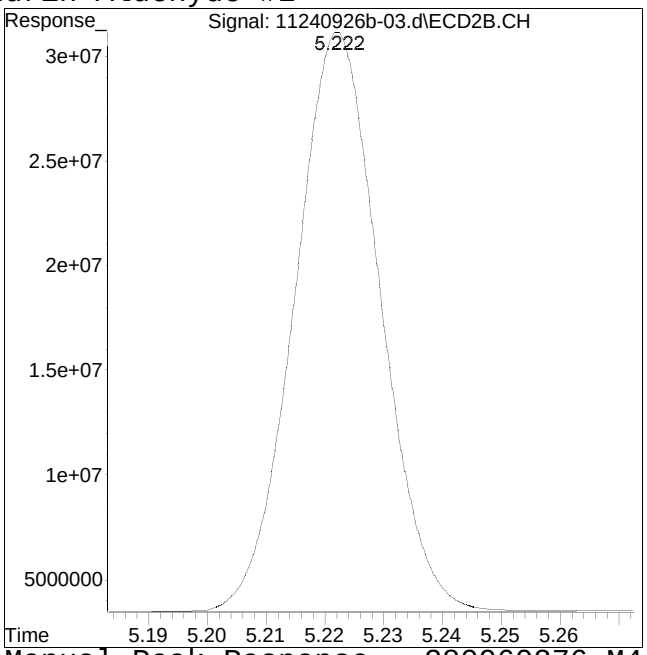
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 292095388



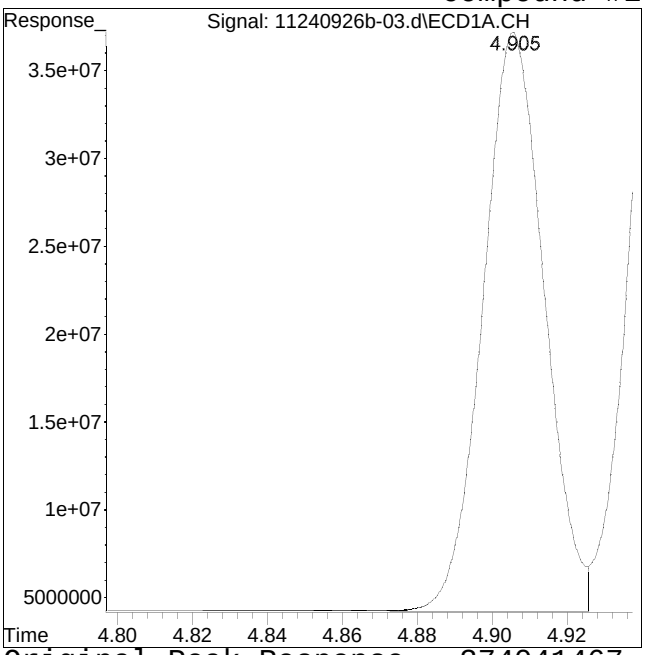
Manual Peak Response = 280960276 M4

M4 = Poor automated baseline construction.

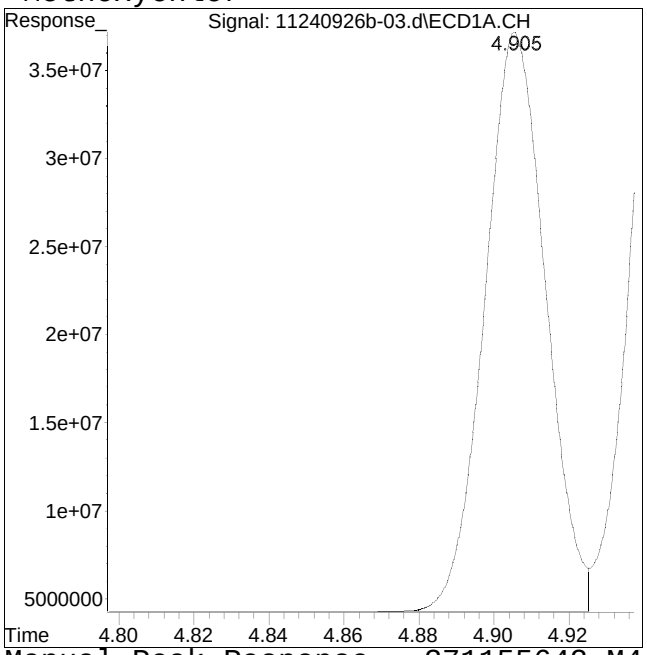
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #23: Methoxychlor



Original Peak Response = 374041467

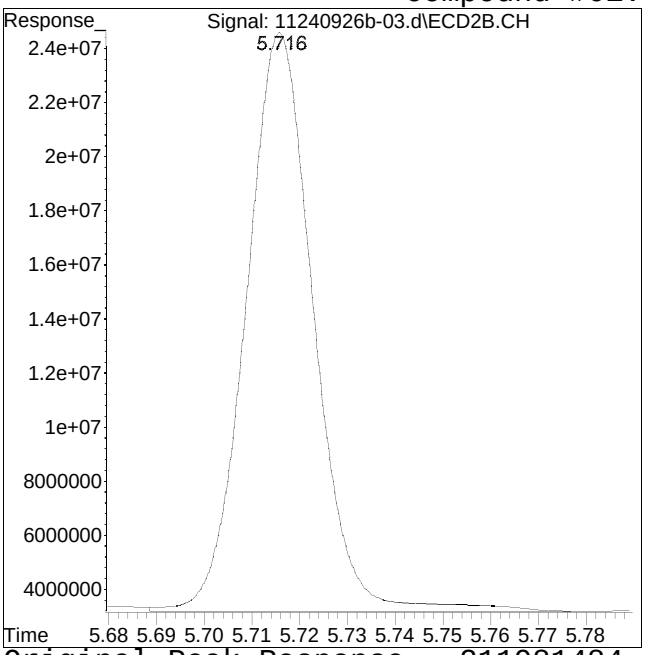


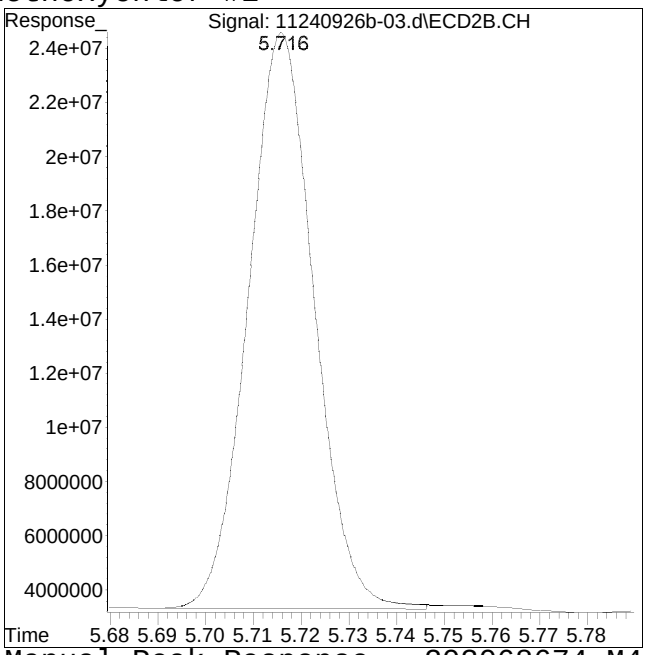
Manual Peak Response = 371155642 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #61: Methoxychlor #2



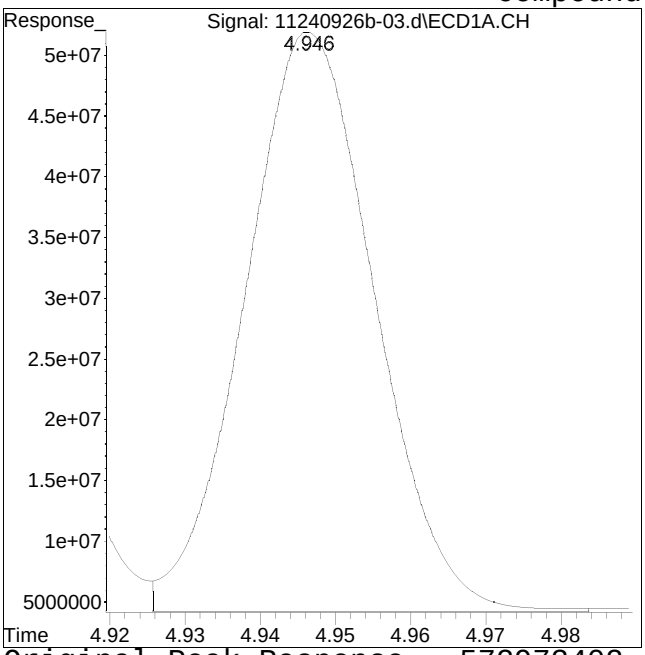


Original Peak Response = 211981484 Manual Peak Response = 203068674 M4
M4 = Poor automated baseline construction.

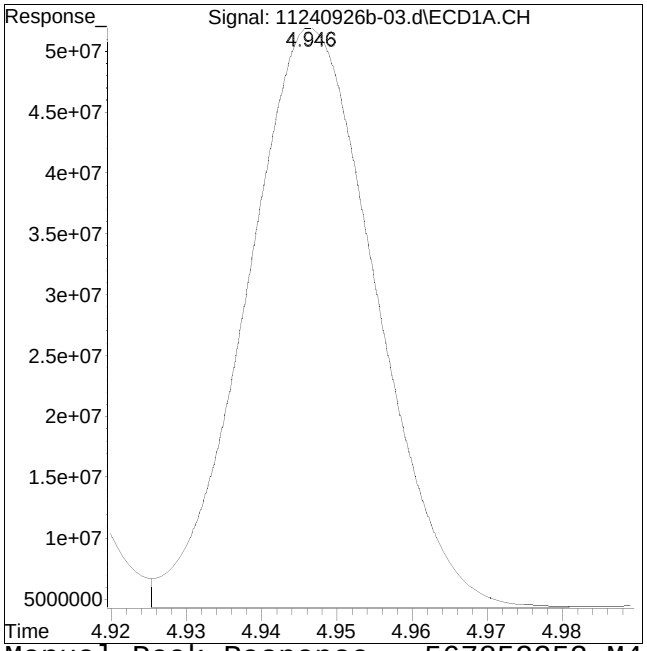
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #24: Mirex



Original Peak Response = 572973402



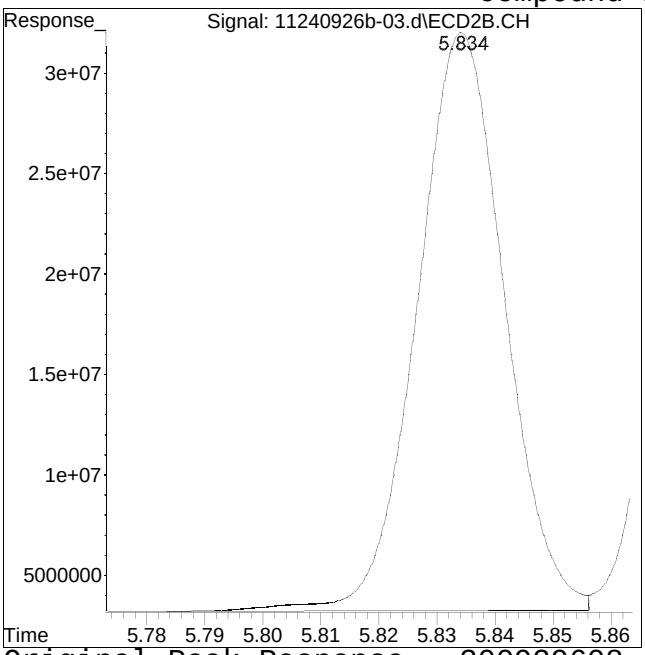
Manual Peak Response = 567852253 M4

M4 = Poor automated baseline construction.

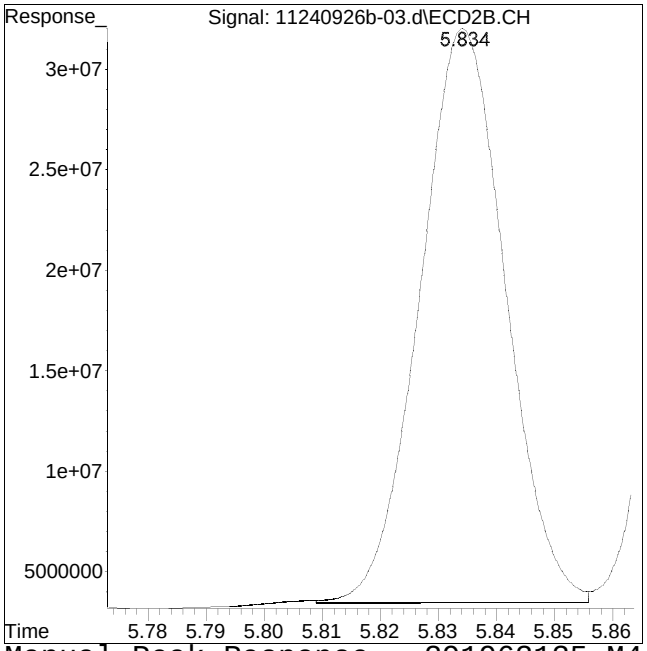
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #62: Mirex #2



Original Peak Response = 300929608



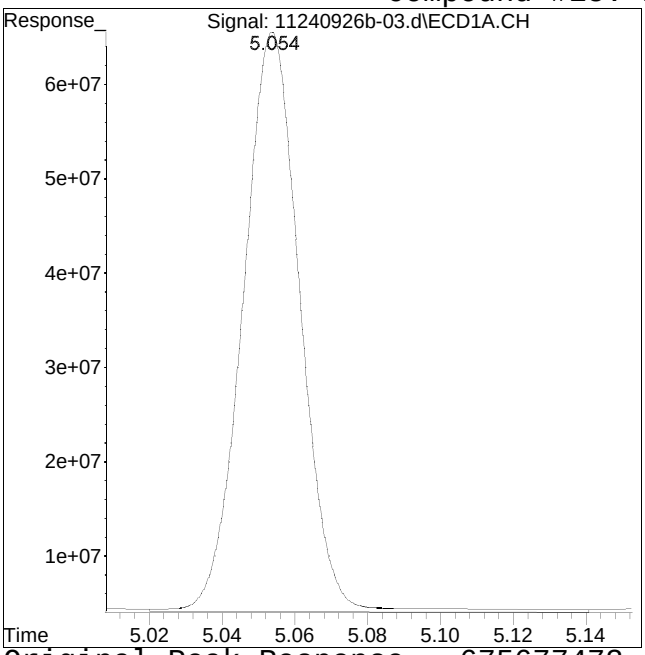
Manual Peak Response = 291963135 M4

M4 = Poor automated baseline construction.

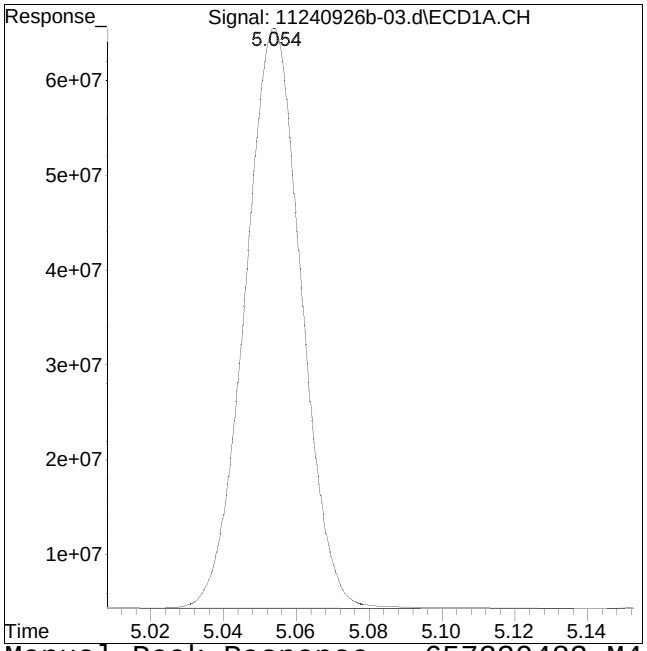
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 675677473



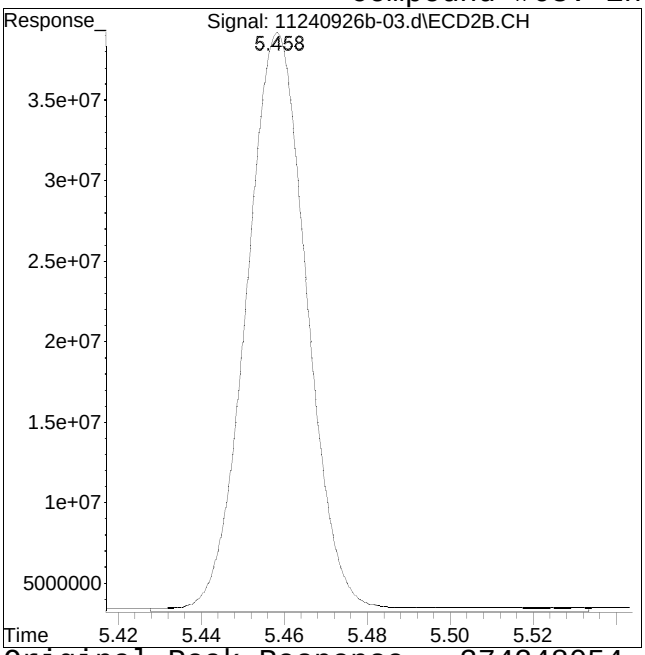
Manual Peak Response = 657330483 M4

M4 = Poor automated baseline construction.

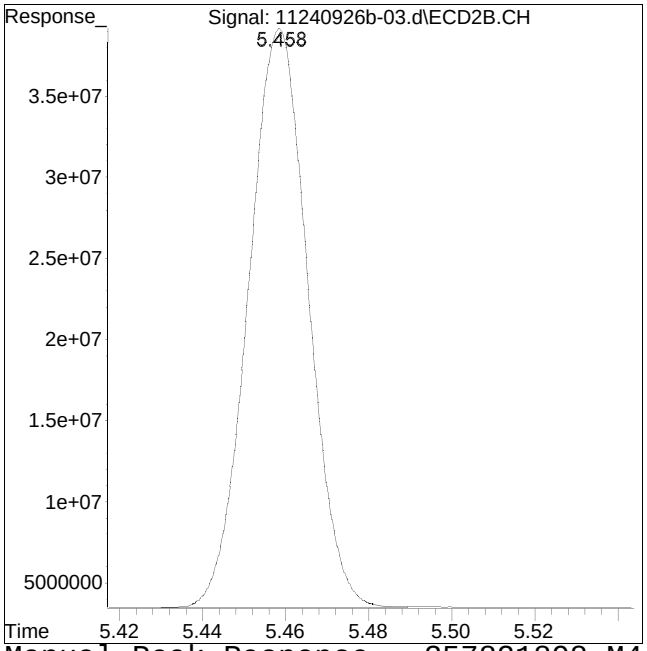
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 374248054



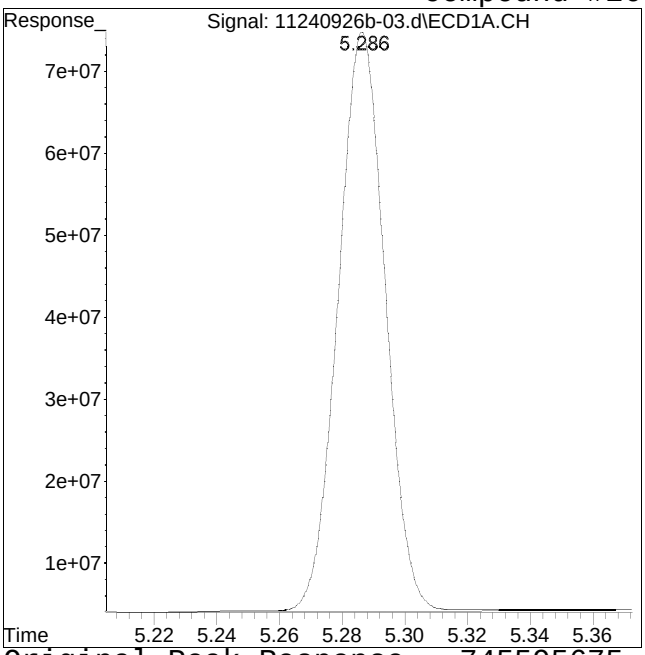
Manual Peak Response = 357821898 M4

M4 = Poor automated baseline construction.

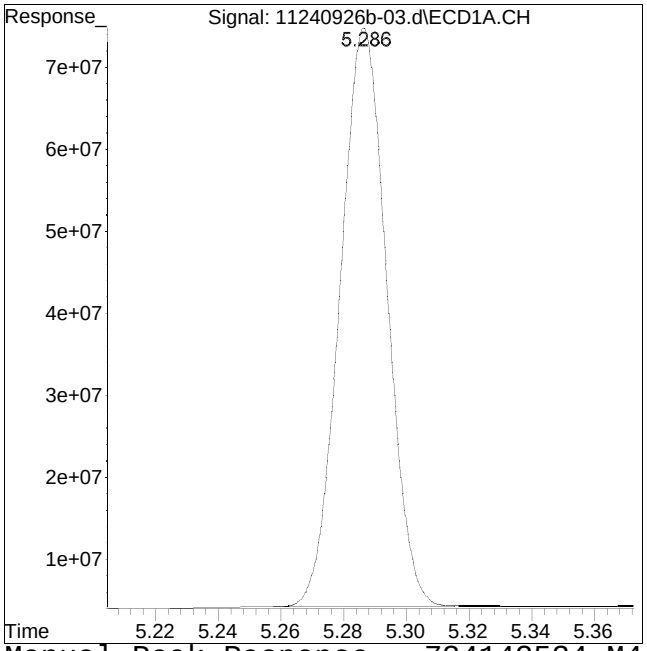
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #26: Endrin Ketone



Original Peak Response = 745595675



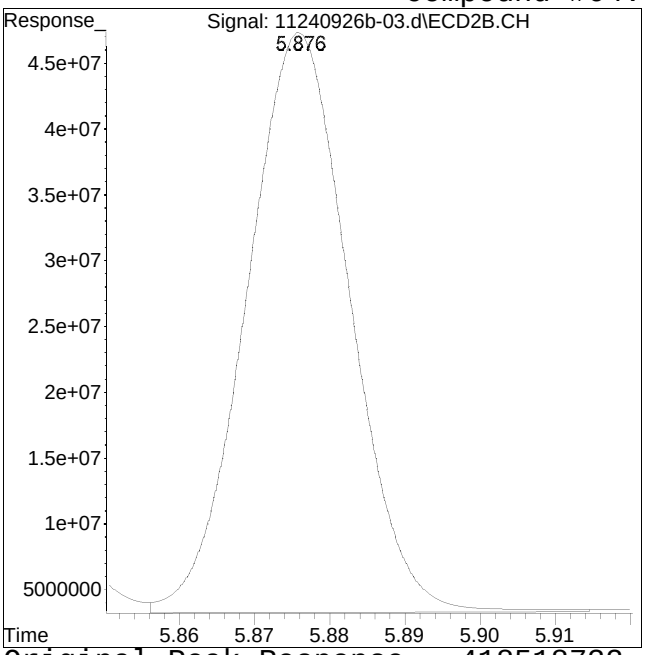
Manual Peak Response = 734143534 M4

M4 = Poor automated baseline construction.

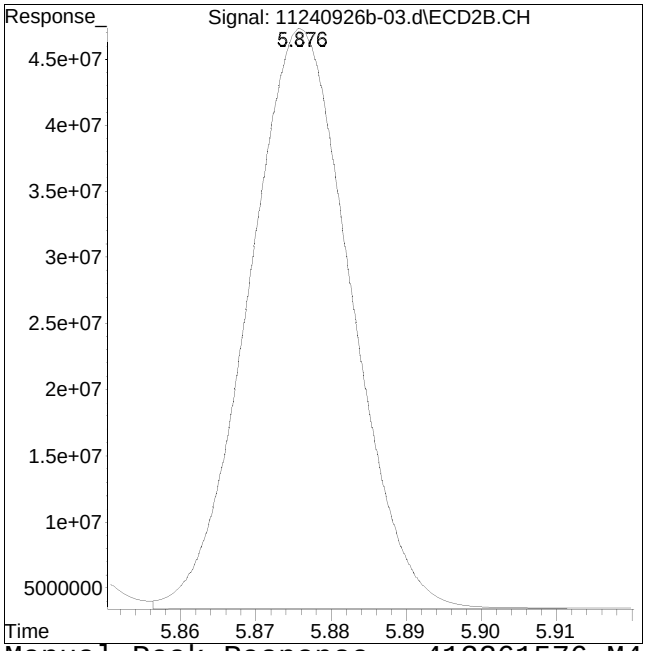
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 418518732



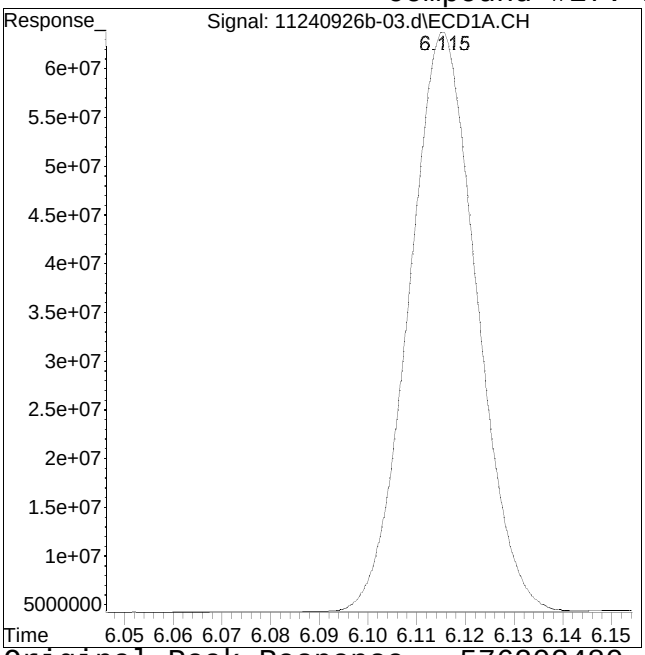
Manual Peak Response = 412261576 M4

M4 = Poor automated baseline construction.

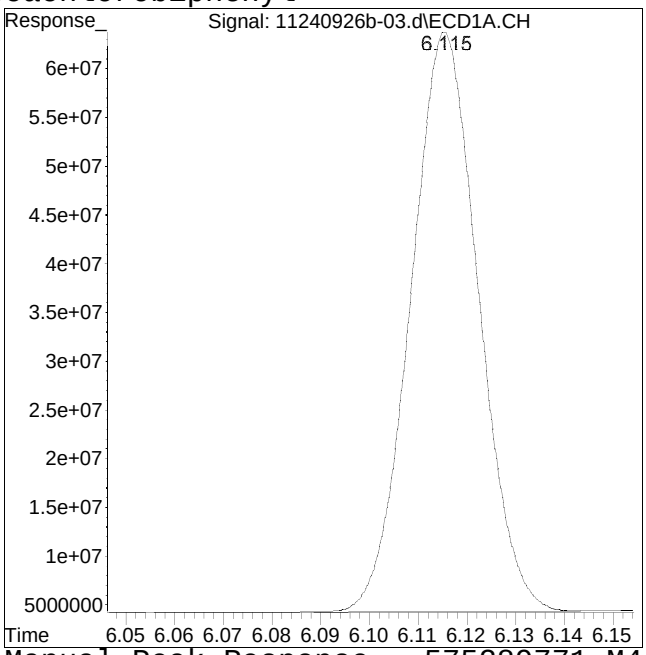
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 576202480



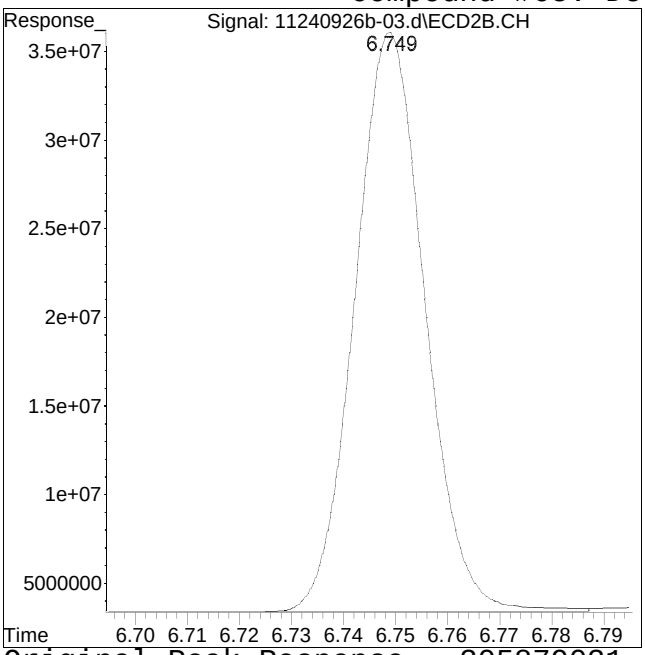
Manual Peak Response = 575289771 M4

M4 = Poor automated baseline construction.

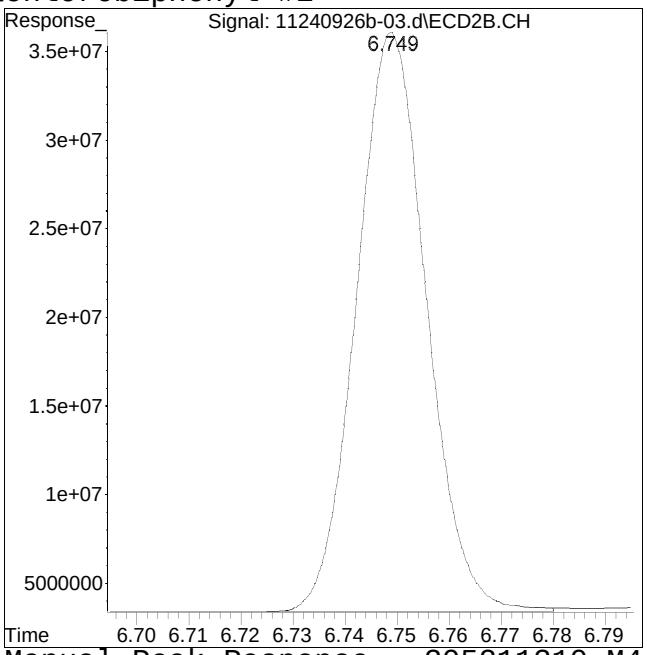
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-03.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:23 Instrument : Pest 11
Sample : wg1976911-1,42,,pest11675 Quant Date : 9/26/2024 10:05 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 305879031



Manual Peak Response = 305211310 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:35
Operator : PEST11:jag
Sample   : wg1976911-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:42 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	149	0.00
29	l1	chlordane-1		*1000.000	966.913	3.3	140	0.00
30	l1	chlordane-3		*1000.000	990.175	1.0	138	0.00
31	l1	chlordane-4		*1000.000	972.658	2.7	138	0.00
32	l1	chlordane-5		*1000.000	1102.274	-10.2	156	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	112	0.00
29	l1	chlordane-1		*1000.000	795.070	20.5#	84	0.00
30	l1	chlordane-3		*1000.000	836.244	16.4	85	0.00
31	l1	chlordane-4		*1000.000	762.294	23.8#	80	0.00
32	l1	chlordane-5		*1000.000	754.335	24.6#	79	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.51#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.71#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.05#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.17#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.33#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.55#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.67#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.76#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.07#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.19#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:35
Operator : PEST11:jag
Sample   : wg1976911-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:42 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.32#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.42#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.45#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.70#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.95#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.07#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.20#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.39#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.65#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.91#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.05#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.29#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.12#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.19#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.33#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.57#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.96#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.71#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.01#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.09#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.36#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.43#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:35
Operator : PEST11:jag
Sample   : wg1976911-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:42 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.74#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.04#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.93#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.27#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.63#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.84#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.01#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.23#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.07#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.39#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.70#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.84#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.91#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.22#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.72#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.83#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.46#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.88#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.87#
35	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-4.90#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:35
Operator : PEST11:jag
Sample : wg1976911-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:42 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.188	1.261	331.1E6	207.8E6	25.000M4	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:35
Operator : PEST11:jag
Sample : wg1976911-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:42 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.268	2.611	466.1E6	246.2E6	966.913	795.070	
30) l1	chlordane-3	2.665	3.188	554.8E6	284.9E6	990.175	836.244	
31) l1	chlordane-4	3.195	3.843	2004.7E6	990.3E6	972.658	762.294	
32) l1	chlordane-5	3.316	4.011	3486.8E6	753.0E6	1102.274	754.335	
Sum	chlordane-1			6512.5E6	2274.4E6	N.D.	N.D.	D
Average	chlordane-1					1008.005	786.986	
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

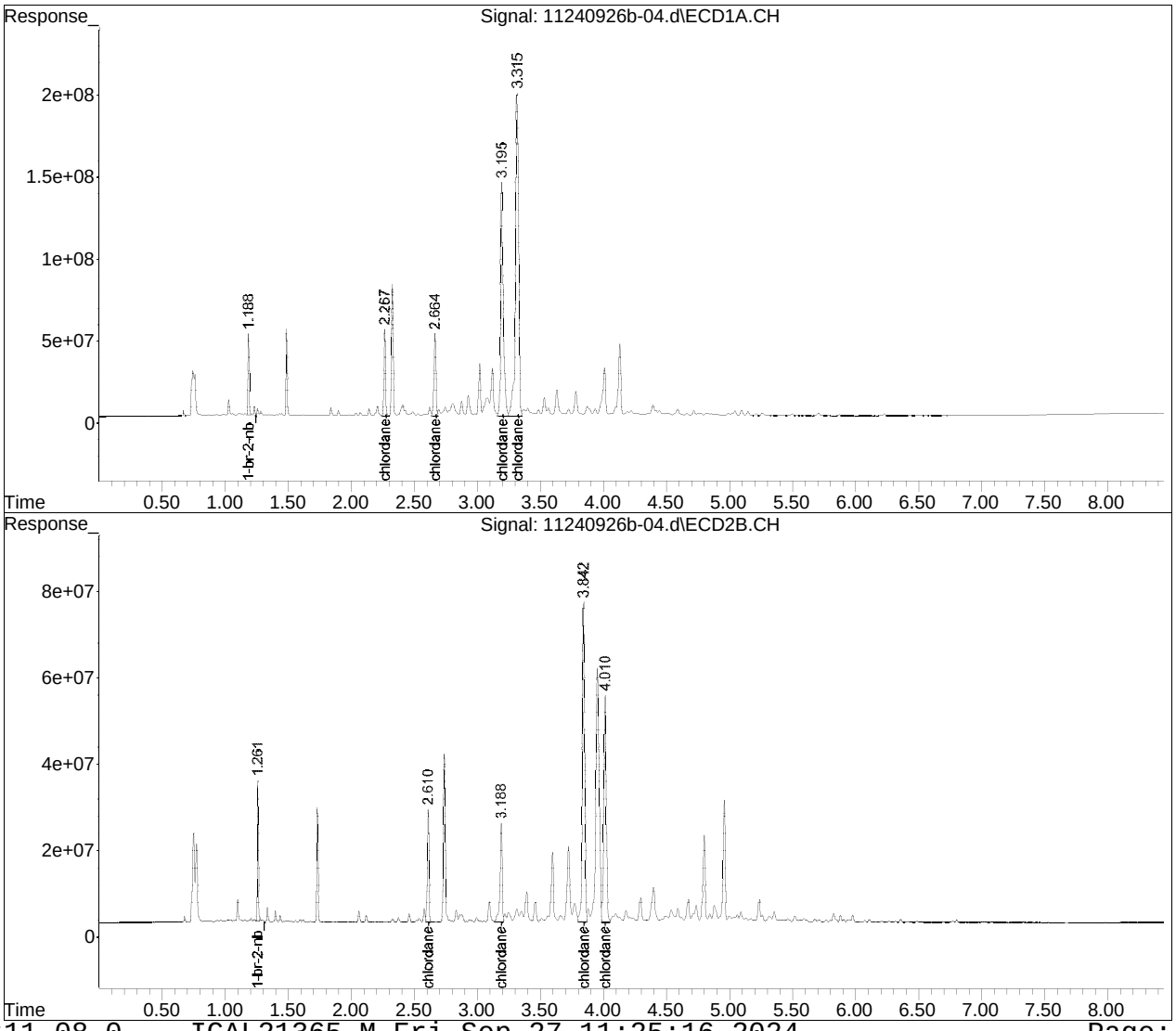
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:35
Operator : PEST11:jag
Sample : wg1976911-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:05:42 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

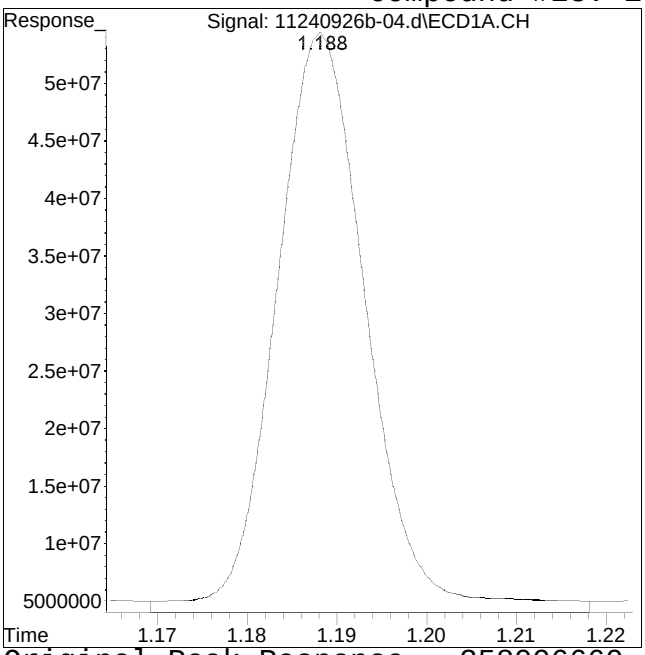
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

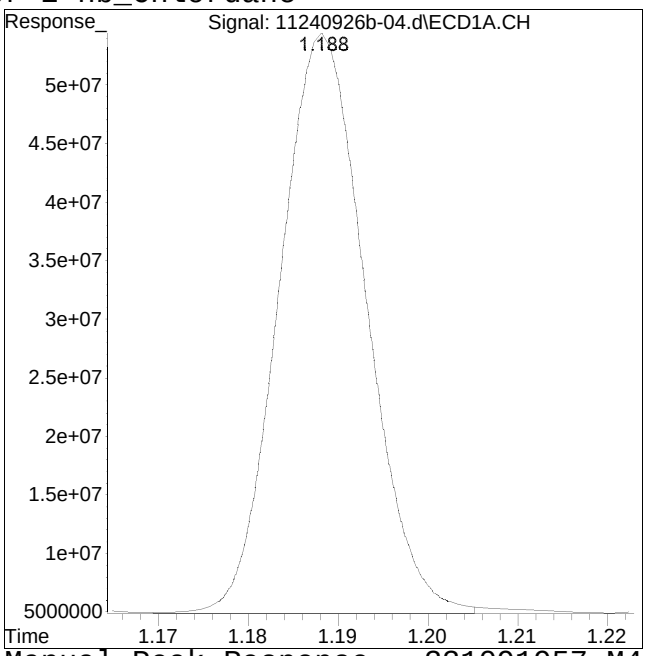


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-04.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:35 Instrument : Pest 11
Sample : wg1976911-2,42,,chlor11816Quant Date : 9/26/2024 10:06 pm

Compound #28: 1-br-2-nb_Chlordane



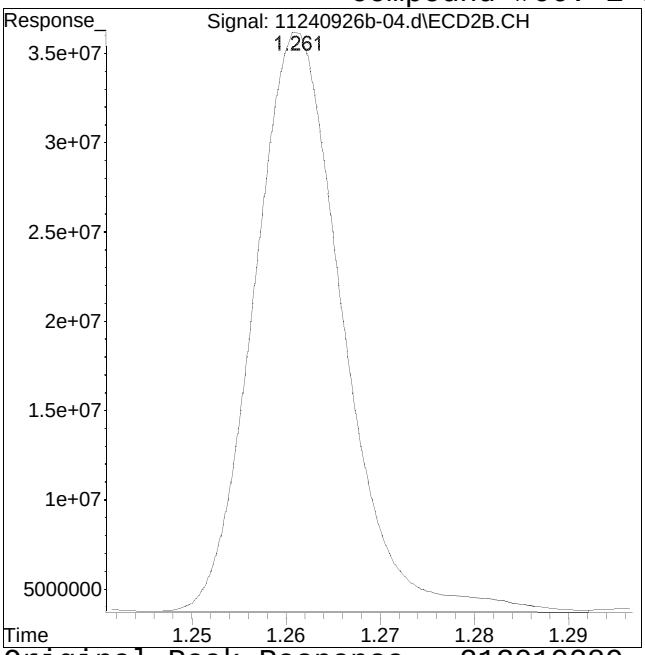


Original Peak Response = 358006660 Manual Peak Response = 331091957 M4
M4 = Poor automated baseline construction.

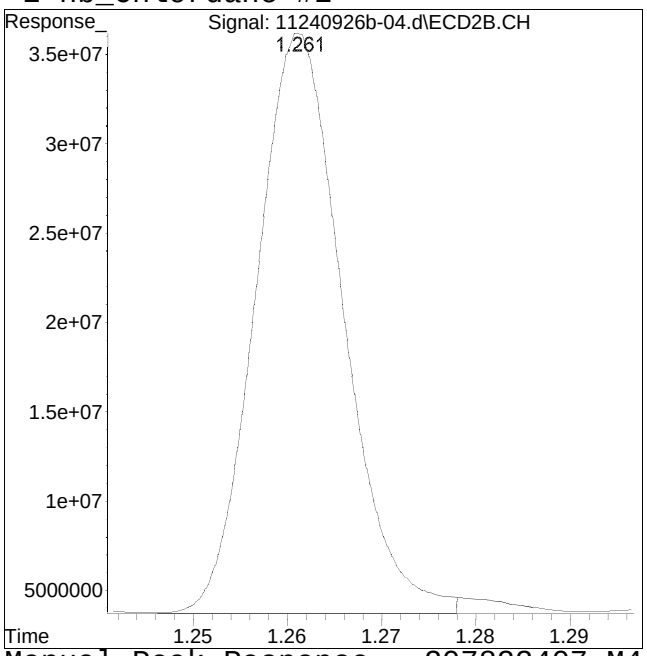
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-04.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:35 Instrument : Pest 11
Sample : wg1976911-2,42,,chlor11816Quant Date : 9/26/2024 10:06 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 212019289



Manual Peak Response = 207823407 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:47
Operator : PEST11:jag
Sample   : wg1976911-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:08:56 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:50 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	171	0.00
34	l2	toxaphene-2		*2000.000	1613.334	19.3	134	0.00
35	l2	toxaphene-3		*2000.000	1903.286	4.8	158	0.00
36	l2	toxaphene-4		*2000.000	1795.359	10.2	152	0.00
37	l2	toxaphene-5		*2000.000	2174.086	-8.7	181	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	126	0.00
34	l2	toxaphene-2		*2000.000	1794.689	10.3	113	0.00
35	l2	toxaphene-3		*2000.000	1898.058	5.1	118	0.00
36	l2	toxaphene-4		*2000.000	1749.029	12.5	110	0.00
37	l2	toxaphene-5		*2000.000	1848.866	7.6	116	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.51#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.71#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.05#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.17#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.33#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.55#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.67#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.76#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.07#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.19#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:47
Operator : PEST11:jag
Sample   : wg1976911-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:08:56 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:50 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.32#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.42#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.45#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.70#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.95#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.07#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.20#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.39#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.65#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.91#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.05#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.29#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.12#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.27#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.66#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.20#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.32#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.71#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.01#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.09#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.36#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.43#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Sep 2024 20:47
Operator : PEST11:jag
Sample   : wg1976911-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1976911,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:08:56 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:50 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.74#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.04#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.93#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.27#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.63#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.84#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.01#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.23#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.07#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.39#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.70#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.84#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.91#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.22#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.72#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.83#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.46#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.88#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.19#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.84#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.01#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:47
Operator : PEST11:jag
Sample : wg1976911-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:08:56 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.189	1.262	373.7E6	219.9E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:47
Operator : PEST11:jag
Sample : wg1976911-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:08:56 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.194	4.874	1339.9E6	371.9E6	1613.334M3	1794.689
35) l2	toxaphene-3	4.327	4.901	1236.2E6	581.8E6	1903.286	1898.058
36) l2	toxaphene-4	4.573	5.233	1174.7E6	643.6E6	1795.359	1749.029
37) l2	toxaphene-5	4.959	5.649	1290.5E6	626.8E6	2174.086	1848.866
Sum	toxaphene-2			5041.3E6	2224.0E6	7486.065	7290.641
Average	toxaphene-2					1871.516	1822.660

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			5041.3E6	2224.0E6	7486.065	7290.641
Average	toxaphene-2					1871.516	1822.660

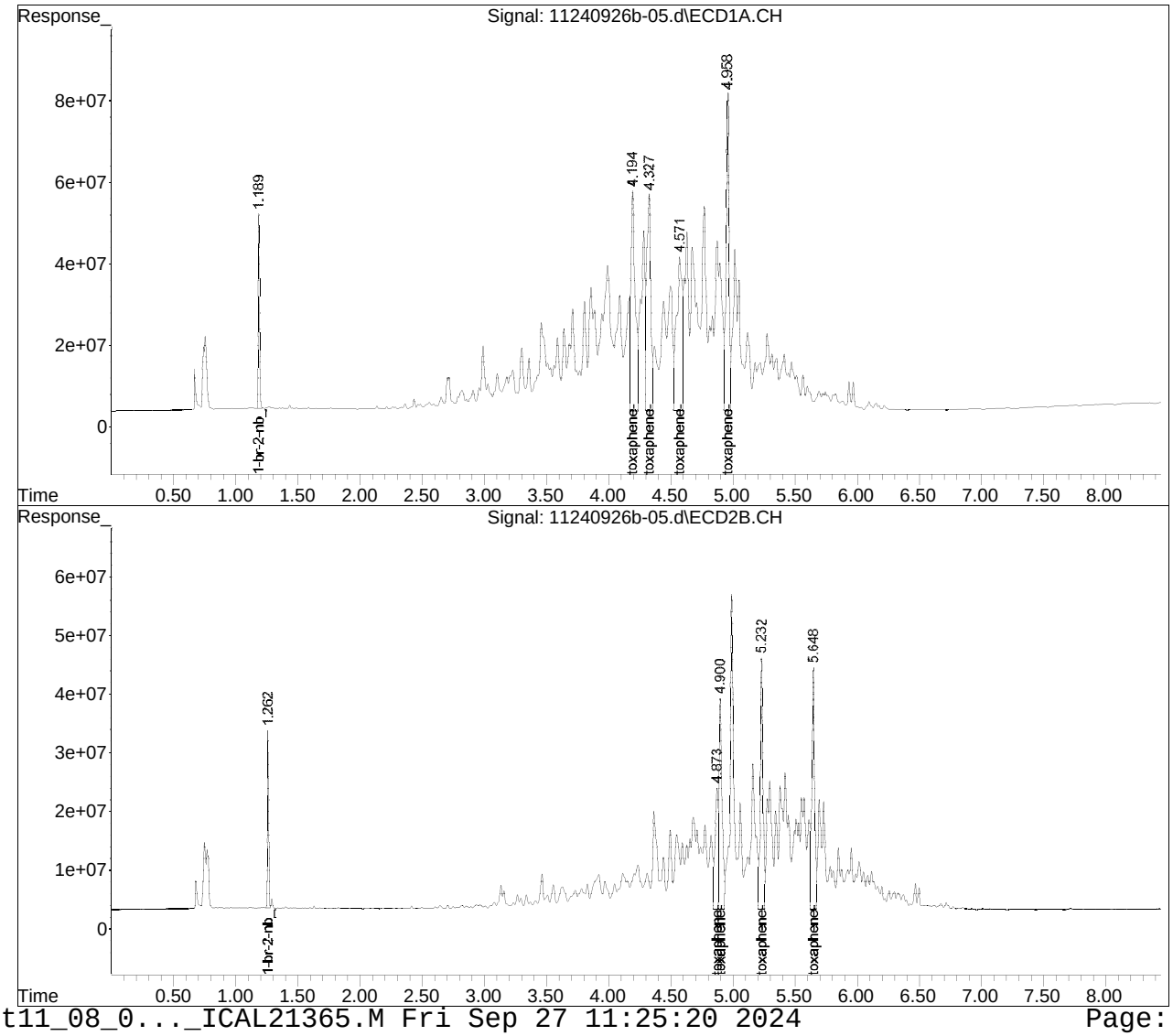
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:47
Operator : PEST11:jag
Sample : wg1976911-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 22:08:56 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 22:08:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

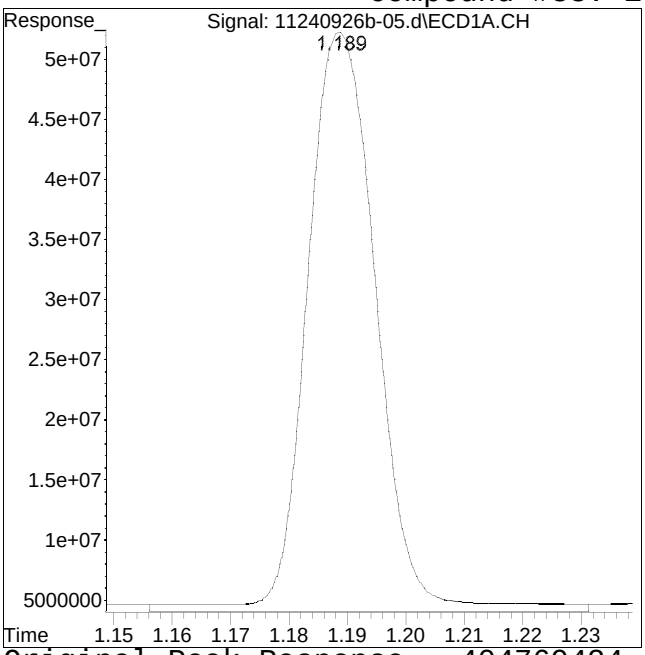
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

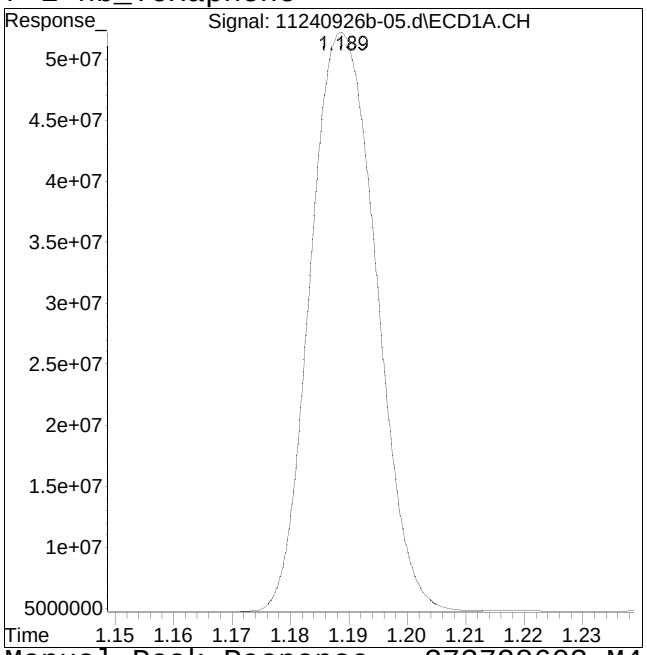


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-05.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:47 Instrument : Pest 11
Sample : wg1976911-3,42,,tox11668 Quant Date : 9/26/2024 10:08 pm

Compound #33: 1-br-2-nb_Toxaphene



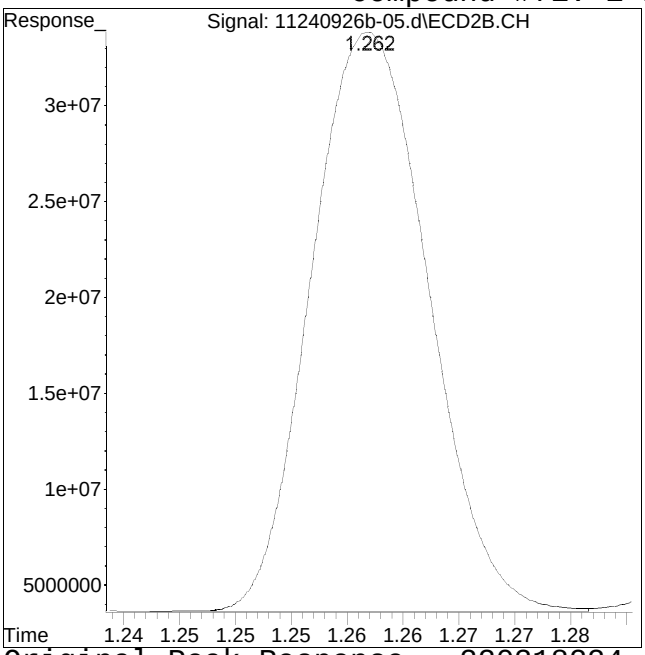


Original Peak Response = 404769424 Manual Peak Response = 373728603 M4
M4 = Poor automated baseline construction.

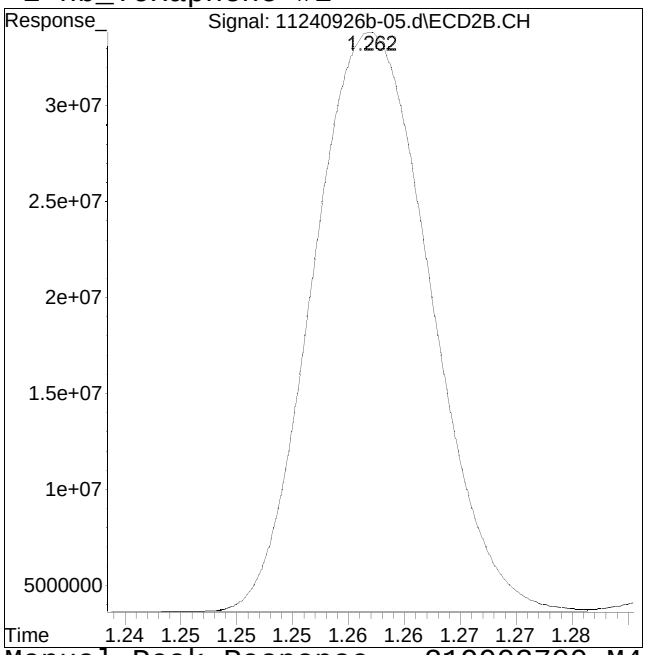
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-05.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:47 Instrument : Pest 11
Sample : wg1976911-3,42,,tox11668 Quant Date : 9/26/2024 10:08 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 220318224



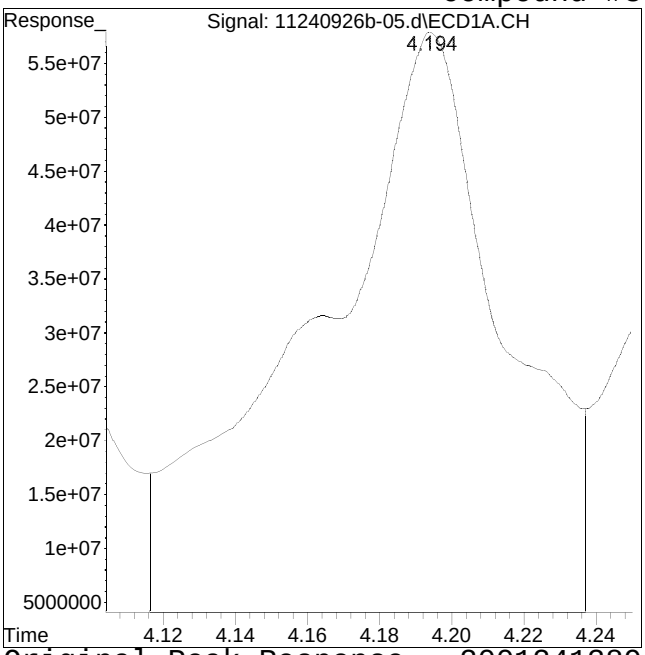
Manual Peak Response = 219903790 M4

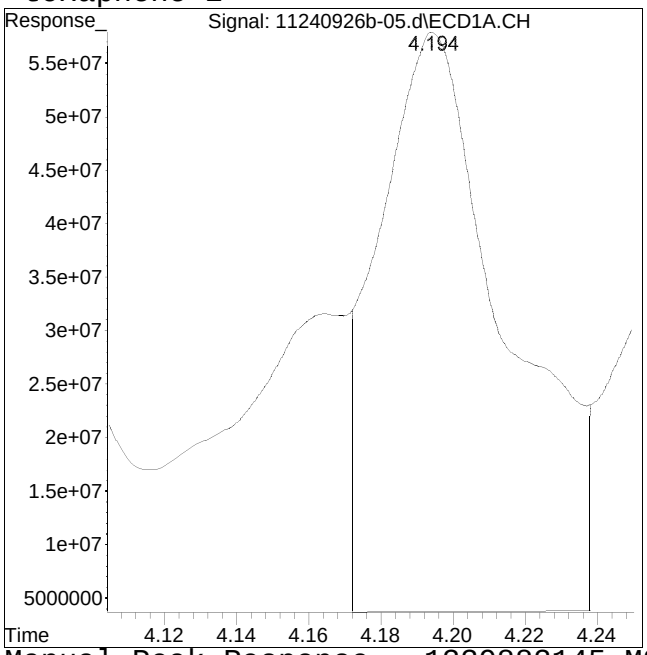
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-05.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:47 Instrument : Pest 11
Sample : wg1976911-3,42,,tox11668 Quant Date : 9/26/2024 10:08 pm

Compound #34: toxaphene-2





Original Peak Response = 2001241389 Manual Peak Response = 1339883145 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 06:22
Operator : pest20:akm
Sample   : wg1977952-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:36:03 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:35:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	112	0.00
29	l1	chlordane-1	*	1000.000	975.431	2.5	107	0.00
30	l1	chlordane-3	*	1000.000	986.344	1.4	107	0.00
31	l1	chlordane-4	*	1000.000	1026.325	-2.6	112	0.00
32	l1	chlordane-5	*	1000.000	1130.981	-13.1	122	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	114	0.00
29	l1	chlordane-1	*	1000.000	1061.537	-6.2	116	0.00
30	l1	chlordane-3	*	1000.000	1044.243	-4.4	113	0.00
31	l1	chlordane-4	*	1000.000	1076.767	-7.7	117	0.00
32	l1	chlordane-5	*	1000.000	1078.557	-7.9	117	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.89#
2	s	2,4,5,6-Tetrachloro-m-xylen	*	50.000	0.000	100.0#	0	-2.36#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.63#
4		alpha-BHC		1.586	0.000	100.0#	0#	-2.76#
5		gamma-BHC (lindane)		1.529	0.000	100.0#	0#	-3.00#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.07#
7		delta-BHC		1.478	0.000	100.0#	0#	-3.22#
8		Heptachlor		1.494	0.000	100.0#	0#	-3.41#
9		Aldrin		1.394	0.000	100.0#	0#	-3.68#
10		Alachlor	*	50.000	0.000	100.0#	0	-3.83#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.93#
12		Heptachlor Epoxide		1.349	0.000	100.0#	0#	-4.29#
13		gamma-Chlordane (trans)	*	50.000	0.000	100.0#	0	-4.43#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 06:22
Operator : pest20:akm
Sample   : wg1977952-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:36:03 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:35:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.58#
15		4,4'-DDE		1.333	0.000	100.0#	0#	-4.68#
16		Endosulfan I		1.261	0.000	100.0#	0#	-4.73#
17		Dieldrin		1.315	0.000	100.0#	0#	-5.00#
18		Endrin		1.292	0.000	100.0#	0#	-5.24#
19		4,4'-DDD		1.086	0.000	100.0#	0#	-5.34#
20		Endosulfan II		1.175	0.000	100.0#	0#	-5.47#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.62#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.87#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.08#
24		Mirex	*	50.000	0.000	100.0#	0	-6.15#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-6.25#
26		Endrin Ketone		1.275	0.000	100.0#	0#	-6.47#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.26#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.89#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.46#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.98#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-6.08#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-6.16#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.95#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.223	0.000	100.0#	0#	-2.55#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.92#
4		alpha-BHC		1.533	0.000	100.0#	0#	-3.04#
5		gamma-BHC (lindane)		1.477	0.000	100.0#	0#	-3.36#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.43#
7		delta-BHC		1.443	0.000	100.0#	0#	-3.73#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 06:22
Operator : pest20:akm
Sample   : wg1977952-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:36:03 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:35:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.403	0.000	100.0#	0#	-3.79#
9		Aldrin		1.268	0.000	100.0#	0#	-4.14#
10		Alachlor	*	50.000	0.000	100.0#	0	-4.02#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.40#
12		Heptachlor Epoxide		1.268	0.000	100.0#	0#	-4.80#
13		gamma-Chlordane (trans)		1.090	0.000	100.0#	0#	-5.02#
14		alpha-Chlordane (cis)		1.237	0.000	100.0#	0#	-5.18#
15		4,4'-DDE		1.193	0.000	100.0#	0#	-5.37#
16		Endosulfan I		1.153	0.000	100.0#	0#	-5.24#
17		Dieldrin		1.161	0.000	100.0#	0#	-5.52#
18		Endrin		1.185	0.000	100.0#	0#	-5.81#
19		4,4'-DDD		0.979	0.000	100.0#	0#	-5.92#
20		Endosulfan II		1.098	0.000	100.0#	0#	-6.00#
21		4,4'-DDT		1.110	0.000	100.0#	0#	-6.20#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.29#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.75#
24		Mirex	*	50.000	0.000	100.0#	0	-6.90#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-6.52#
26		Endrin Ketone		1.192	0.000	100.0#	0#	-6.93#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.82#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.96#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.97#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-6.00#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-6.31#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-6.72#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 06:22
Operator : pest20:akm
Sample : wg1977952-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:36:03 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:35:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.891	1.946	59131597	101.4E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 06:22
Operator : pest20:akm
Sample : wg1977952-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:36:03 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:35:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.334	3.645	91199464	146.6E6	975.431	1061.537
30)	l1	chlordane-3	3.813	4.303	111.9E6	169.8E6	986.344	1044.243M3
31)	l1	chlordane-4	4.429	5.018	397.6E6	573.2E6	1026.325	1076.767
32)	l1	chlordane-5	4.564	5.180	676.0E6	449.1E6	1130.981	1078.557
	Sum	chlordane-1			1276.7E6	1338.7E6	N.D.	N.D. D
Average		chlordane-1					1029.771	1065.276
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

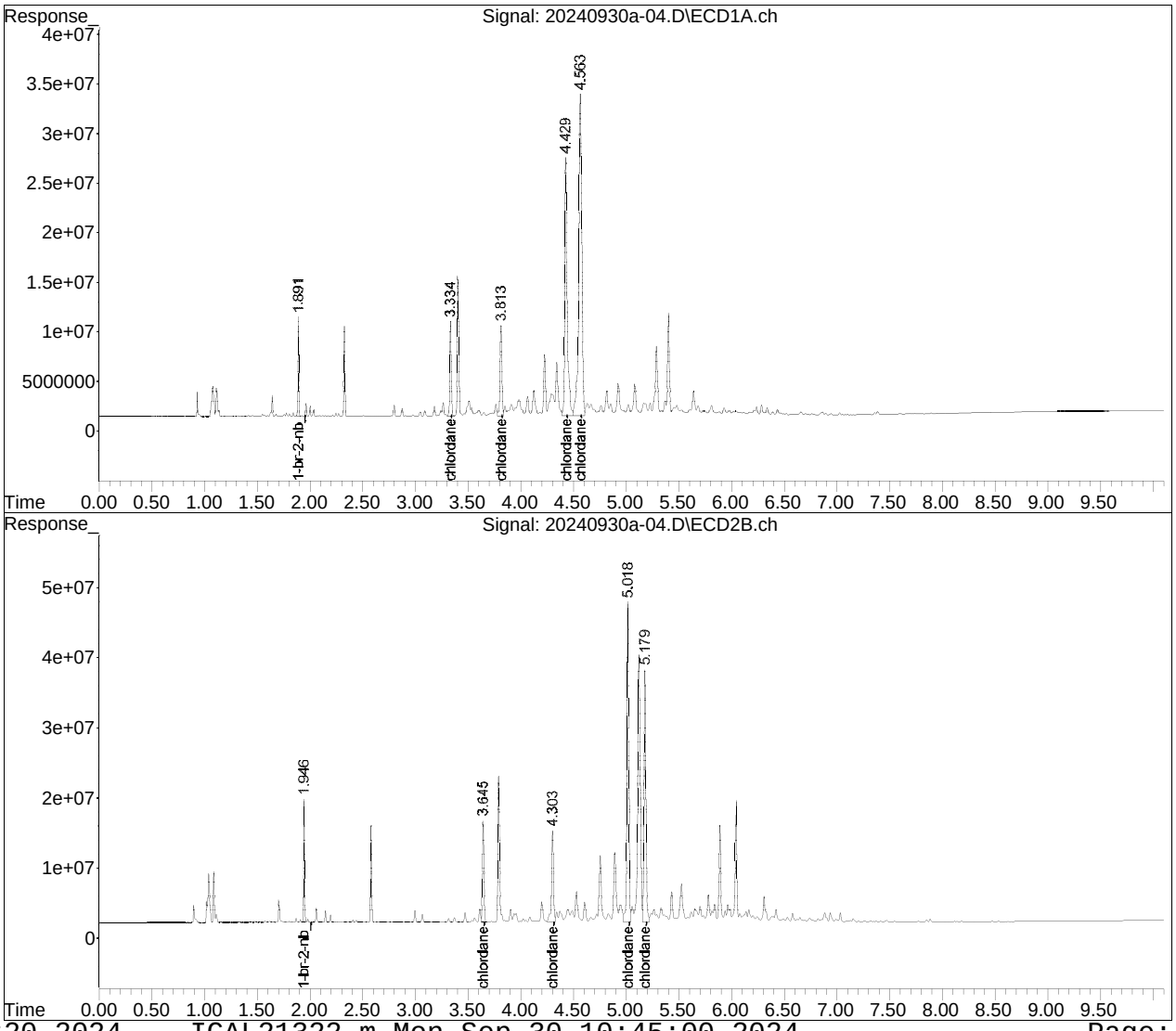
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 06:22
Operator : pest20:akm
Sample : wg1977952-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:36:03 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:35:56 2024
Response via : Initial Calibration
Integrator: ChemStation

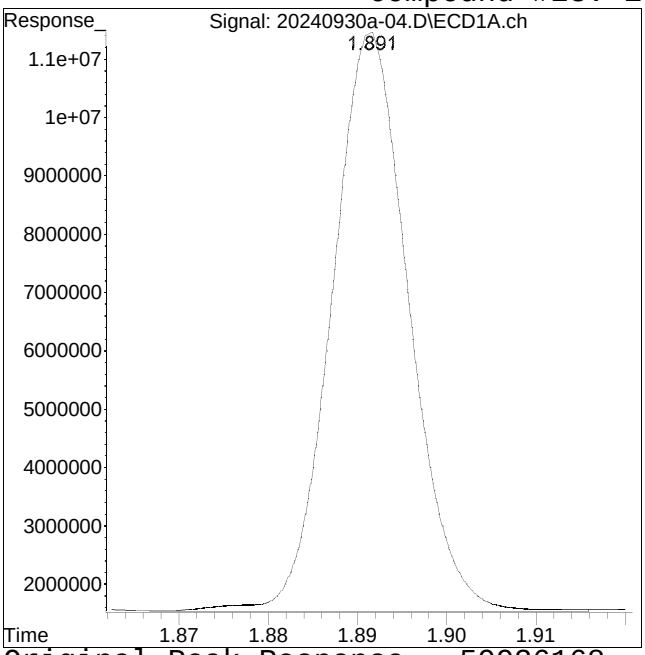
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

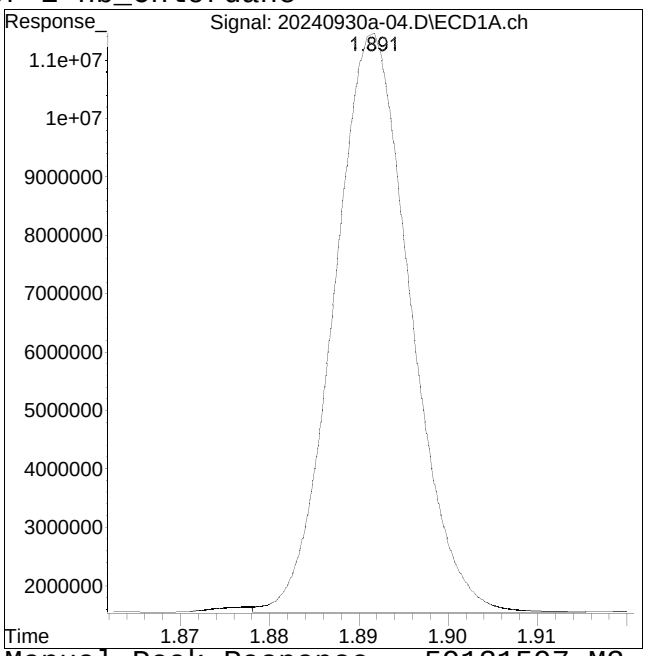


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930Q
Data File : 20240930a-04.D
Date Inj'd : 9/30/2024 6:22
Sample : wg1977952-2,42,,chlor11816
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:akm
Instrument : PEST 20
Quant Date : 9/30/2024 6:36 am

Compound #28: 1-br-2-nb_Chlordane





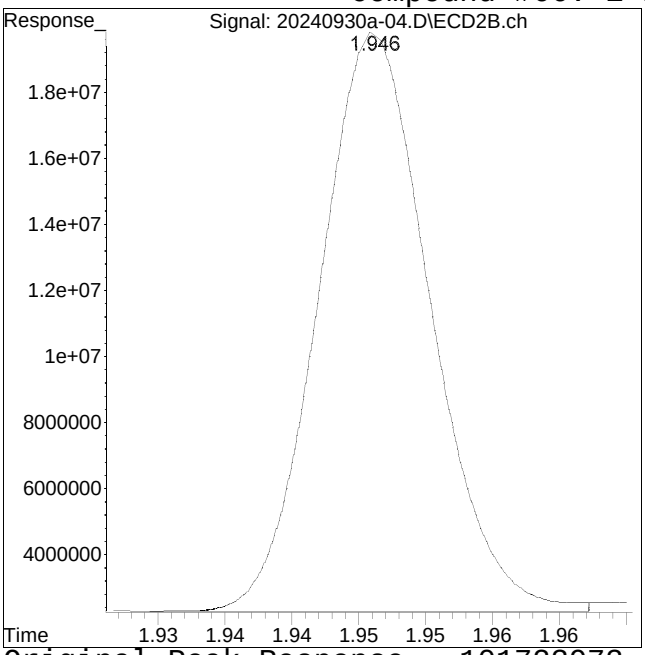
Original Peak Response = 59936168 Manual Peak Response = 59131597 M3

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

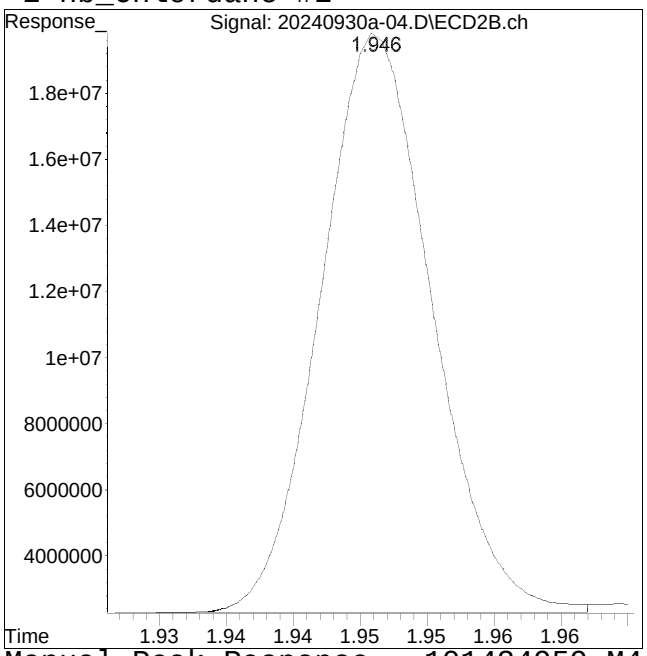
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930Q
Data File : 20240930a-04.D
Date Inj'd : 9/30/2024 6:22
Sample : wg1977952-2,42,,chlor11816
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:akm
Instrument : PEST 20
Quant Date : 9/30/2024 6:36 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 101723973



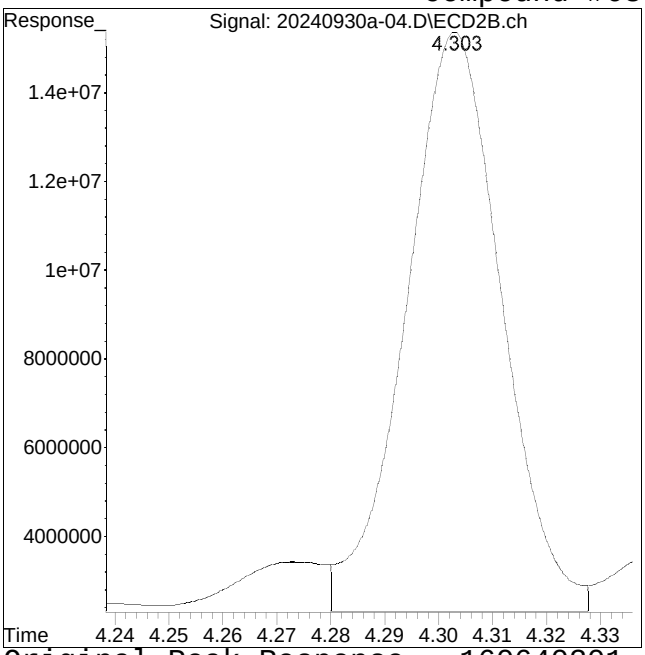
Manual Peak Response = 101424959 M4

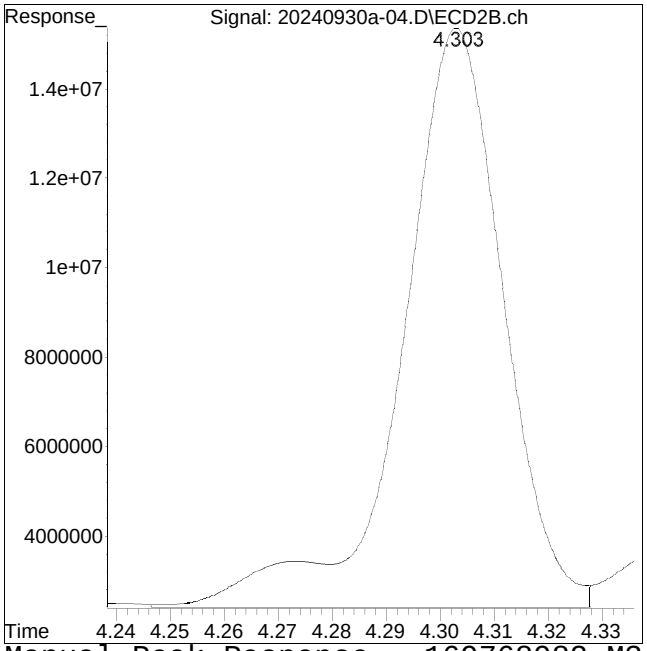
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930Q
Data File : 20240930a-04.D
Date Inj'd : 9/30/2024 6:22
Sample : wg1977952-2,42,,chlor11816
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:akm
Instrument : PEST 20
Quant Date : 9/30/2024 6:36 am

Compound #68: chlordane-3 #2





Original Peak Response = 160640301 Manual Peak Response = 169768982 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 06:35
Operator : pest20:akm
Sample   : wg1977952-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 07:48:13 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	113	0.00
34	l2	toxaphene-1		*2000.000	2391.103	-19.6	124	0.00
35	l2	toxaphene-2		*2000.000	2576.354	-28.8#	135	0.00
36	l2	toxaphene-4		*2000.000	2295.034	-14.8	121	0.00
37	l2	toxaphene-5		*2000.000	2497.921	-24.9#	133	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	122	0.00
34	l2	toxaphene-1		*2000.000	2441.197	-22.1#	144	0.00
35	l2	toxaphene-2		*2000.000	2377.158	-18.9	142	0.00
36	l2	toxaphene-4		*2000.000	2199.455	-10.0	131	0.00
37	l2	toxaphene-5		*2000.000	2364.322	-18.2	142	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.89#
2	s	2,4,5,6-Tetrachloro-m-xylen	*	50.000	0.000	100.0#	0	-2.36#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.63#
4		alpha-BHC		1.586	0.000	100.0#	0#	-2.76#
5		gamma-BHC (lindane)		1.529	0.000	100.0#	0#	-3.00#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.07#
7		delta-BHC		1.478	0.000	100.0#	0#	-3.22#
8		Heptachlor		1.494	0.000	100.0#	0#	-3.41#
9		Aldrin		1.394	0.000	100.0#	0#	-3.68#
10		Alachlor	*	50.000	0.000	100.0#	0	-3.83#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.93#
12		Heptachlor Epoxide		1.349	0.000	100.0#	0#	-4.29#
13		gamma-Chlordane (trans)	*	50.000	0.000	100.0#	0	-4.43#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 06:35
Operator : pest20:akm
Sample   : wg1977952-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 07:48:13 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.58#
15		4,4'-DDE		1.333	0.000	100.0#	0#	-4.68#
16		Endosulfan I		1.261	0.000	100.0#	0#	-4.73#
17		Dieldrin		1.315	0.000	100.0#	0#	-5.00#
18		Endrin		1.292	0.000	100.0#	0#	-5.24#
19		4,4'-DDD		1.086	0.000	100.0#	0#	-5.34#
20		Endosulfan II		1.175	0.000	100.0#	0#	-5.47#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.62#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.87#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.08#
24		Mirex	*	50.000	0.000	100.0#	0	-6.15#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-6.25#
26		Endrin Ketone		1.275	0.000	100.0#	0#	-6.47#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.26#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.89#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.33#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.81#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.43#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.56#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.95#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.223	0.000	100.0#	0#	-2.55#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.92#
4		alpha-BHC		1.533	0.000	100.0#	0#	-3.04#
5		gamma-BHC (lindane)		1.477	0.000	100.0#	0#	-3.36#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.43#
7		delta-BHC		1.443	0.000	100.0#	0#	-3.73#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 06:35
Operator : pest20:akm
Sample   : wg1977952-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 07:48:13 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.403	0.000	100.0#	0#	-3.79#
9		Aldrin		1.268	0.000	100.0#	0#	-4.14#
10		Alachlor	*	50.000	0.000	100.0#	0	-4.02#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.40#
12		Heptachlor Epoxide		1.268	0.000	100.0#	0#	-4.80#
13		gamma-Chlordane (trans)		1.090	0.000	100.0#	0#	-5.02#
14		alpha-Chlordane (cis)		1.237	0.000	100.0#	0#	-5.18#
15		4,4'-DDE		1.193	0.000	100.0#	0#	-5.37#
16		Endosulfan I		1.153	0.000	100.0#	0#	-5.24#
17		Dieldrin		1.161	0.000	100.0#	0#	-5.52#
18		Endrin		1.185	0.000	100.0#	0#	-5.81#
19		4,4'-DDD		0.979	0.000	100.0#	0#	-5.92#
20		Endosulfan II		1.098	0.000	100.0#	0#	-6.00#
21		4,4'-DDT		1.110	0.000	100.0#	0#	-6.20#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.29#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.75#
24		Mirex	*	50.000	0.000	100.0#	0	-6.90#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-6.52#
26		Endrin Ketone		1.192	0.000	100.0#	0#	-6.93#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.82#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.95#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.65#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-4.30#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-5.02#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-5.18#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 06:35
Operator : pest20:akm
Sample : wg1977952-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 07:48:13 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.891	1.958	60773401	101.3E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 06:35
Operator : pest20:akm
Sample : wg1977952-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 07:48:13 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.460	5.974	227.9E6	209.7E6	2391.103M3	2441.197
35) l2	toxaphene-2	5.979	6.002	243.9E6	303.7E6	2576.354	2377.158
36) l2	toxaphene-4	6.075	6.313	140.8E6	325.5E6	2295.034M3	2199.455
37) l2	toxaphene-5	6.158	6.719	234.7E6	332.6E6	2497.921	2364.322
Sum	toxaphene-1			847.3E6	1171.5E6	9760.412	9382.131
Average	toxaphene-1					2440.103	2345.533

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			847.3E6	1171.5E6	9760.412	9382.131
Average	toxaphene-1					2440.103	2345.533

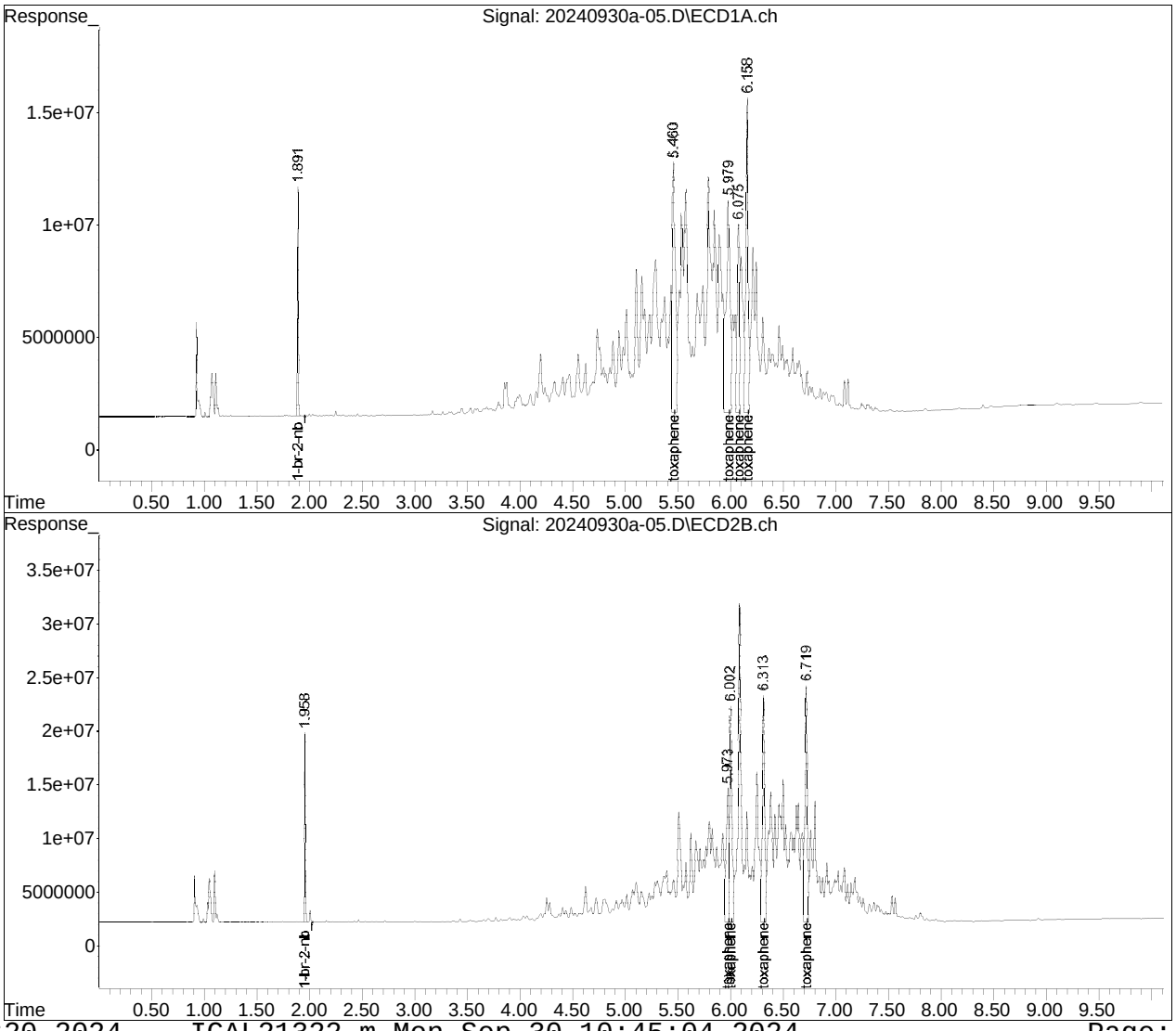
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 06:35
Operator : pest20:akm
Sample : wg1977952-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 07:48:13 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:05 2024
Response via : Initial Calibration
Integrator: ChemStation

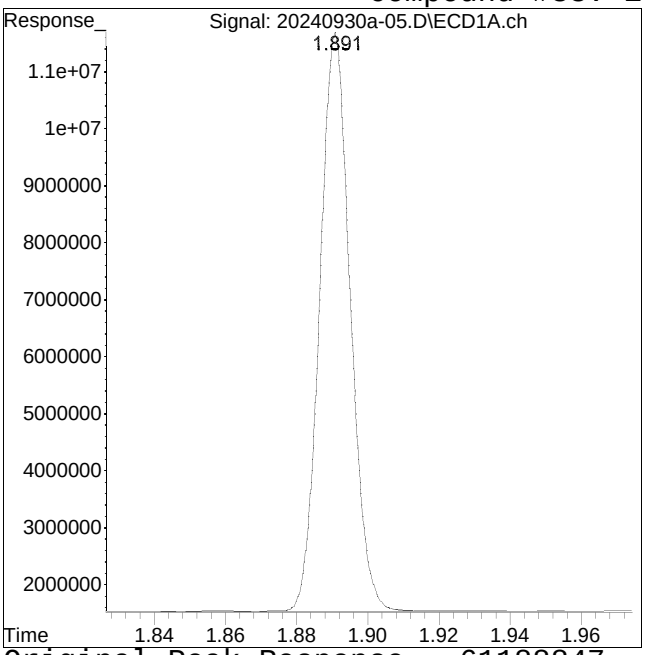
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



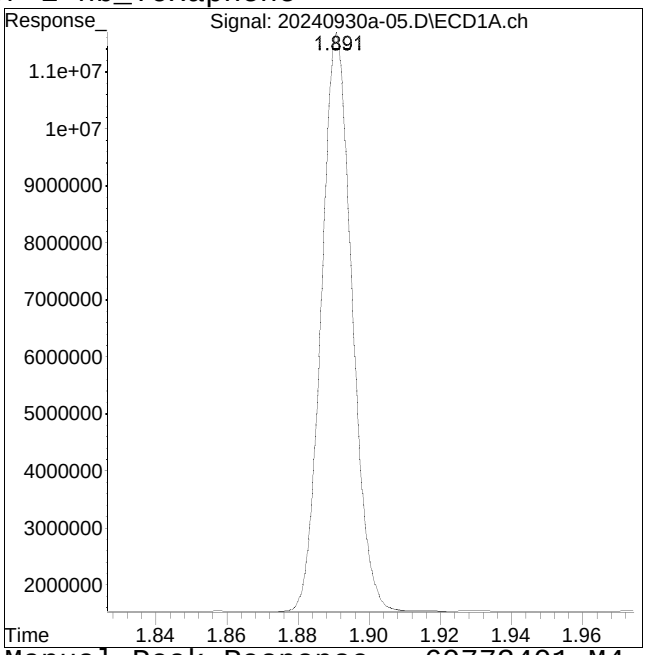
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-05.D Operator : pest20:akm
Date Inj'd : 9/30/2024 6:35 Instrument : PEST 20
Sample : wg1977952-3,42,,tox11668 Quant Date : 9/30/2024 7:48 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 61188847



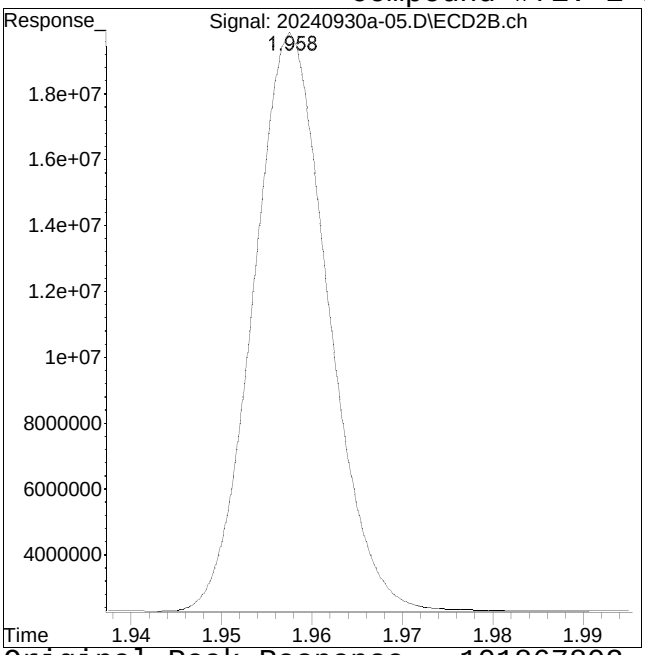
Manual Peak Response = 60773401 M4

M4 = Poor automated baseline construction.

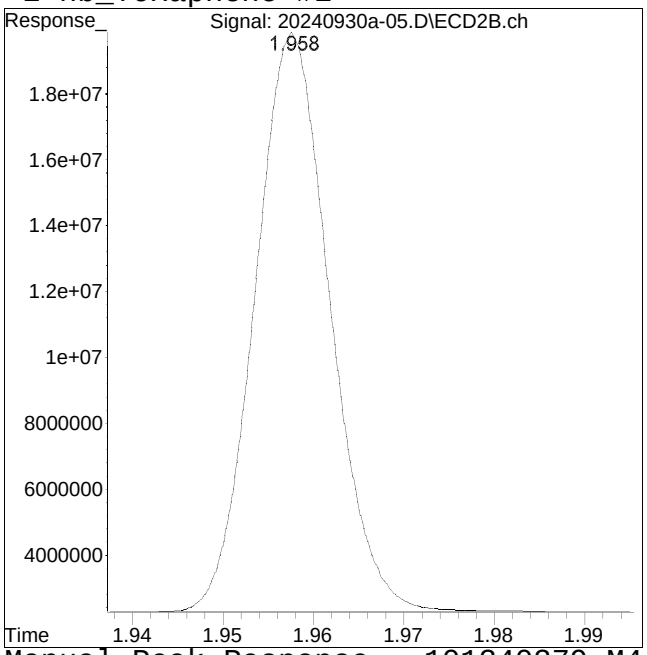
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-05.D Operator : pest20:akm
Date Inj'd : 9/30/2024 6:35 Instrument : PEST 20
Sample : wg1977952-3,42,,tox11668 Quant Date : 9/30/2024 7:48 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 101867802



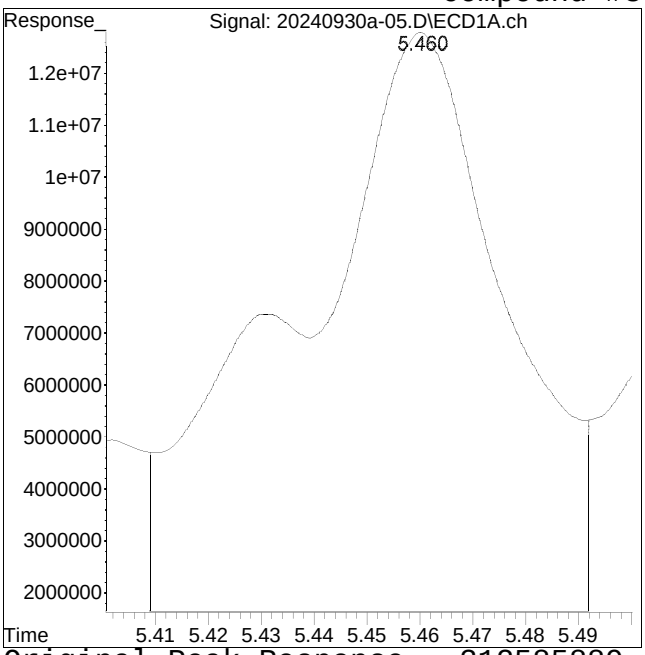
Manual Peak Response = 101340379 M4

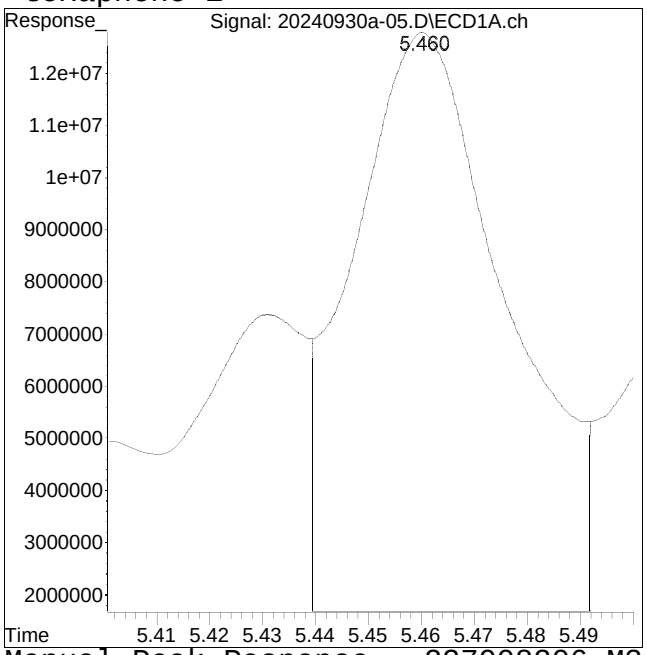
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-05.D Operator : pest20:akm
Date Inj'd : 9/30/2024 6:35 Instrument : PEST 20
Sample : wg1977952-3,42,,tox11668 Quant Date : 9/30/2024 7:48 am

Compound #34: toxaphene-1



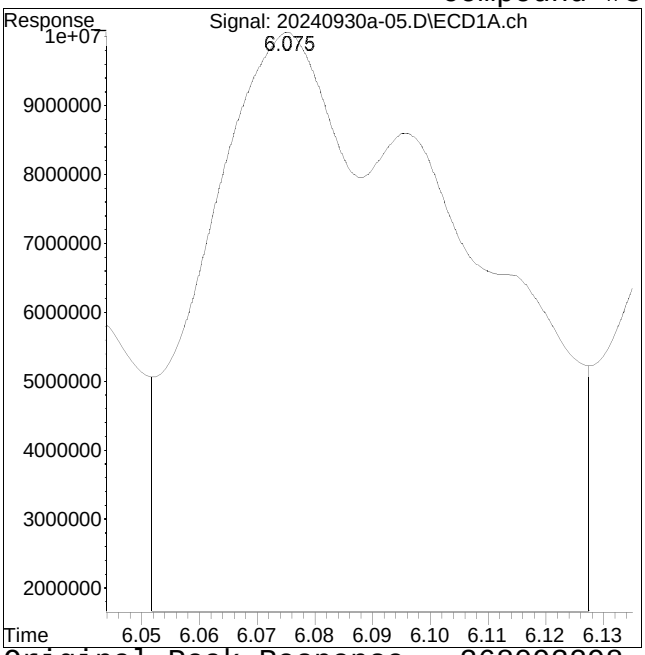


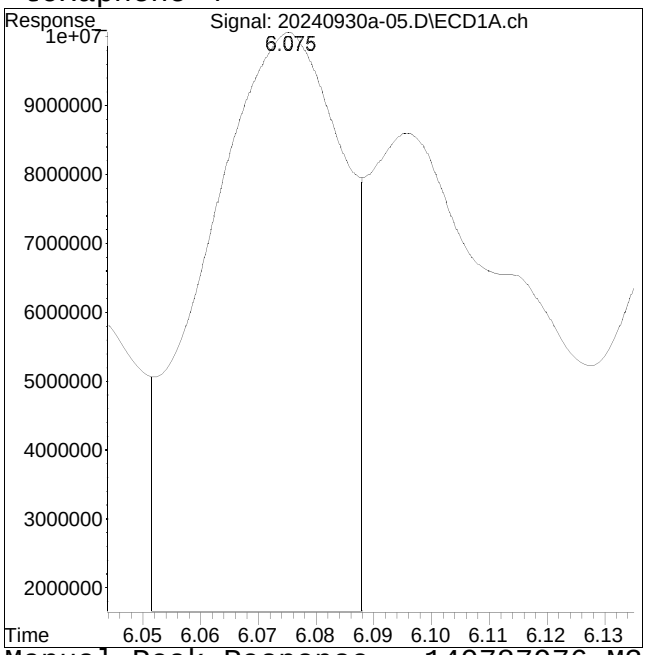
Original Peak Response = 312585889 Manual Peak Response = 227908206 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-05.D Operator : pest20:akm
Date Inj'd : 9/30/2024 6:35 Instrument : PEST 20
Sample : wg1977952-3,42,,tox11668 Quant Date : 9/30/2024 7:48 am

Compound #36: toxaphene-4





Original Peak Response = 268093298 Manual Peak Response = 140787976 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 07:49
Operator : pest20:akm
Sample   : wg1977952-4,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 11   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 08:14:19 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	131	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	*	50.000	50.345	-0.7	123	0.00
3		Hexachlorobenzene	*	50.000	49.941	0.1	121	0.00
4		alpha-BHC		1.586	1.445	8.9	122	0.00
5		gamma-BHC (lindane)		1.529	1.301	14.9	121	0.00
6		beta-BHC	*	50.000	49.269	1.5	120	0.00
7		delta-BHC		1.478	1.266	14.3	117	0.00
8		Heptachlor		1.494	1.353	9.4	130	0.00
9		Aldrin		1.394	1.305	6.4	130	0.00
10		Alachlor	*	50.000	56.859	-13.7	132	0.00
11		Chlorpyrifos	*	50.000	54.010	-8.0	129	0.00
12		Heptachlor Epoxide		1.349	1.219	9.6	130	0.00
13		gamma-Chlordane (trans)	*	50.000	58.627	-17.3	148	0.00
14		alpha-Chlordane (cis)	*	50.000	51.544	-3.1	129	0.00
15		4,4'-DDE		1.333	1.219	8.6	125	0.00
16		Endosulfan I		1.261	1.160	8.0	131	0.00
17		Dieldrin		1.315	1.307	0.6	142	0.00
18		Endrin		1.292	1.241	3.9	134	0.00
19		4,4'-DDD		1.086	1.039	4.3	133	0.00
20		Endosulfan II		1.175	1.084	7.7	132	0.00
21		4,4'-DDT	*	50.000	53.728	-7.5	134	0.00
22		Endrin Aldehyde	*	50.000	47.422	5.2	117	0.00
23		Methoxychlor	*	50.000	56.619	-13.2	132	0.00
24		Mirex	*	50.000	56.297	-12.6	134	0.00
25		Endosulfan Sulfate	*	50.000	52.922	-5.8	133	0.00
26		Endrin Ketone		1.275	1.247	2.2	140	0.00
27	s	Decachlorobiphenyl	*	50.000	51.585	-3.2	127	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 07:49
Operator : pest20:akm
Sample   : wg1977952-4,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 11   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 08:14:19 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	143	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.223	1.037	15.2	129	0.00
3		Hexachlorobenzene	*	50.000	47.939	4.1	131	0.00
4		alpha-BHC		1.533	1.388	9.5	129	0.00
5		gamma-BHC (lindane)		1.477	1.257	14.9	129	0.00
6		beta-BHC	*	50.000	46.004	8.0	126	0.00
7		delta-BHC		1.443	1.221	15.4	124	0.00
8		Heptachlor		1.403	1.240	11.6	136	0.00
9		Aldrin		1.268	1.181	6.9	138	0.00
10		Alachlor	*	50.000	52.465	-4.9	137	0.00
11		Chlorpyrifos	*	50.000	50.406	-0.8	135	0.00
12		Heptachlor Epoxide		1.268	1.117	11.9	136	0.00
13		gamma-Chlordane (trans)		1.090	1.137	-4.3	158#	0.00
14		alpha-Chlordane (cis)		1.237	1.115	9.9	139	0.00
15		4,4'-DDE		1.193	1.077	9.7	134	0.00
16		Endosulfan I		1.153	1.045	9.4	139	0.00
17		Dieldrin		1.161	1.177	-1.4	152#	0.00
18		Endrin		1.185	1.116	5.8	141	0.00
19		4,4'-DDD		0.979	0.920	6.0	140	0.00
20		Endosulfan II		1.098	0.990	9.8	139	0.00
21		4,4'-DDT		1.110	0.991	10.7	134	0.00
22		Endrin Aldehyde	*	50.000	44.400	11.2	124	0.00
23		Methoxychlor	*	50.000	51.237	-2.5	135	0.00
24		Mirex	*	50.000	52.390	-4.8	139	0.00
25		Endosulfan Sulfate	*	50.000	49.378	1.2	139	0.00
26		Endrin Ketone		1.192	1.141	4.3	146	0.00
27	s	Decachlorobiphenyl	*	50.000	45.593	8.8	125	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 30 Sep 2024 07:49
Operator : pest20:akm
Sample   : wg1977952-4,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977952,,ical21322
ALS Vial : 11   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 08:14:19 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.89#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.33#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.81#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.43#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.56#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.89#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.46#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.98#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-6.08#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-6.16#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.95#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.65#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-4.30#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-5.02#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-5.18#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.96#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.97#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-6.00#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-6.31#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-6.72#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 07:49
Operator : pest20:akm
Sample : wg1977952-4,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 08:14:19 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.892	1.947	66465495	115.1E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.365	2.550	146.6E6	238.7E6	50.345M4	42.386
	Spiked Amount 50.000	Range 30 - 150		Recovery =		100.69%	84.77%
27) s	Decachlorobi	7.264	7.823	147.7E6	187.6E6	51.585M4	45.593
	Spiked Amount 50.000	Range 30 - 150		Recovery =		103.17%	91.19%
	Target Compounds						
3)	Hexachlorobe	2.634	2.925	151.1E6	247.7E6	49.941M4	47.939
4)	alpha-BHC	2.758	3.037	192.0E6	319.5E6	45.551	45.263
5)	gamma-BHC (l	3.002	3.359	173.0E6	289.5E6	42.554	42.576
6)	beta-BHC	3.071	3.435	81588166	133.3E6	49.269	46.004
7)	delta-BHC	3.220	3.727	168.3E6	281.1E6	42.837	42.307
8)	Heptachlor	3.407	3.794	179.8E6	285.4E6	45.286	44.191
9)	Aldrin	3.684	4.138	173.5E6	271.8E6	46.809	46.549
10)	Alachlor	3.828	4.019	29234553	40819929	56.859	52.465
11)	Chlorpyrifos	3.929	4.398	83902076	137.9E6	54.010M4	50.406
12)	Heptachlor E	4.295	4.797	162.0E6	257.1E6	45.172	44.030
13)	gamma-Chlord	4.431	5.020	167.6E6	261.8E6	58.627	52.155
14)	alpha-Chlord	4.578	5.180	164.8E6	256.7E6	51.544M3	45.088
15)	4,4'-DDE	4.683	5.368	162.0E6	247.8E6	45.720	45.119
16)	Endosulfan I	4.728	5.239	154.2E6	240.5E6	46.000	45.328
17)	Dieldrin	5.001	5.520	173.8E6	270.8E6	49.703M4	50.676

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 07:49
Operator : pest20:akm
Sample : wg1977952-4,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 08:14:19 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	5.244	5.810	164.9E6	256.9E6	48.016	47.083
19)	4,4'-DDD	5.340	5.925	138.2E6	211.7E6	47.847M4	46.960
20)	Endosulfan I	5.470	6.004	144.0E6	227.8E6	46.111M3	45.082
21)	4,4'-DDT	5.617	6.197	151.0E6	228.1E6	53.728M4	44.652
22)	Endrin Aldeh	5.870	6.294	109.8E6	172.3E6	47.422	44.400M4
23)	Methoxychlor	6.078	6.752	85265120	126.8E6	56.619M4	51.237
24)	Mirex	6.149	6.900	131.0E6	190.5E6	56.297M4	52.390
25)	Endosulfan S	6.250	6.521	137.5E6	219.5E6	52.922M4	49.378
26)	Endrin Keton	6.475	6.933	165.8E6	262.7E6	48.903	47.875M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 07:49
Operator : pest20:akm
Sample : wg1977952-4,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 08:14:19 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

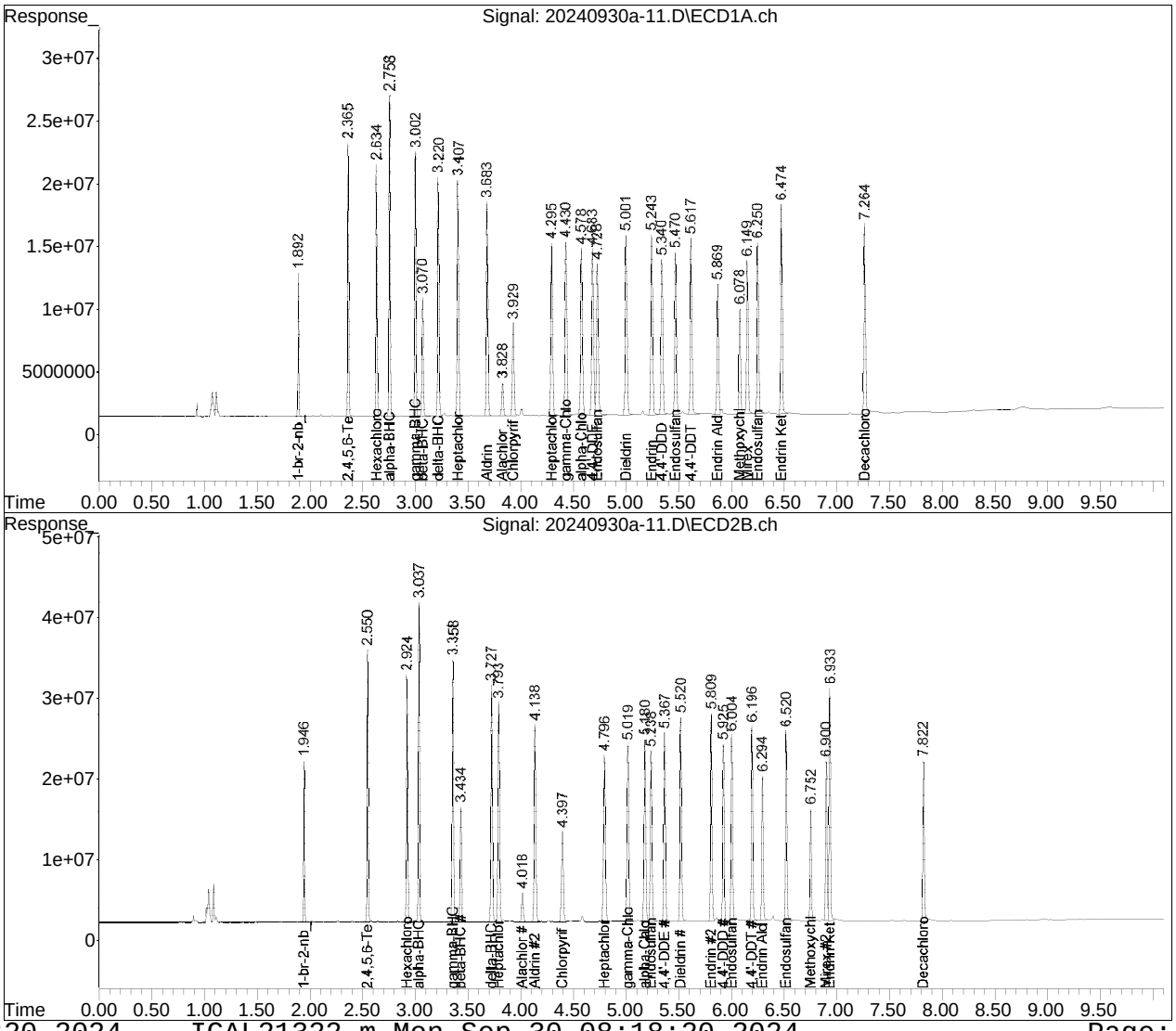
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 07:49
Operator : pest20:akm
Sample : wg1977952-4,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 08:14:19 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 07:48:02 2024
Response via : Initial Calibration
Integrator: ChemStation

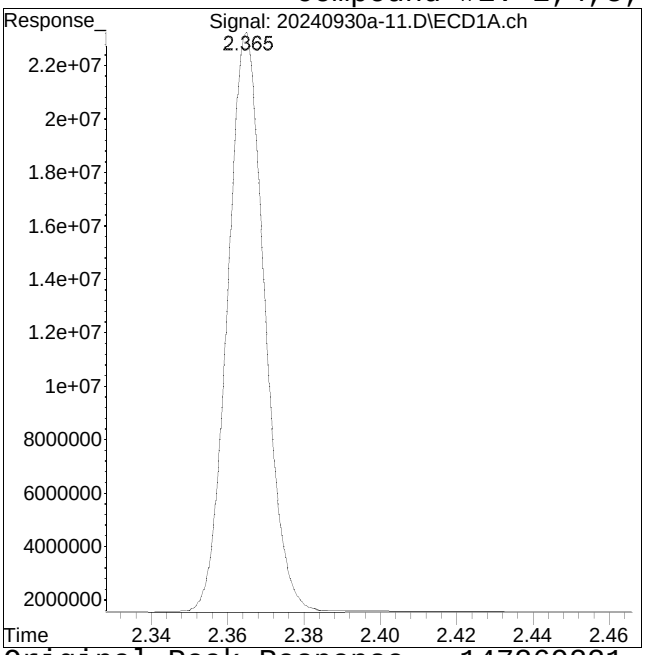
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



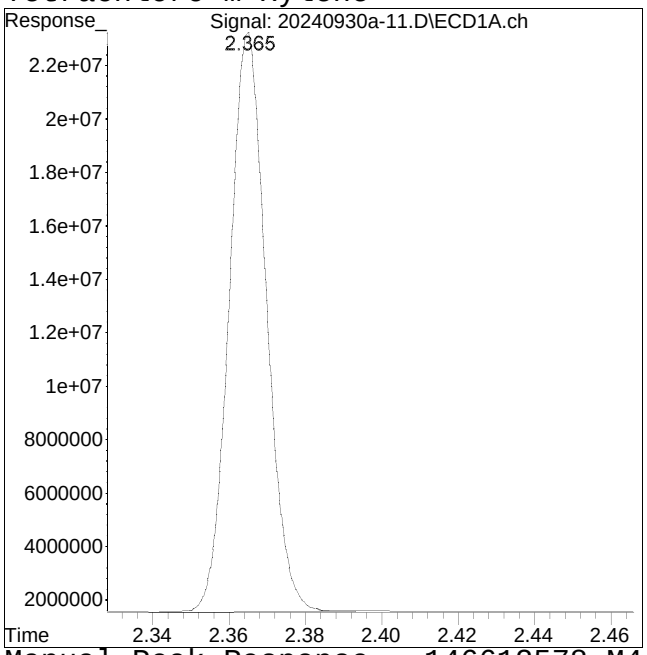
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 147269221



Manual Peak Response = 146612578 M4

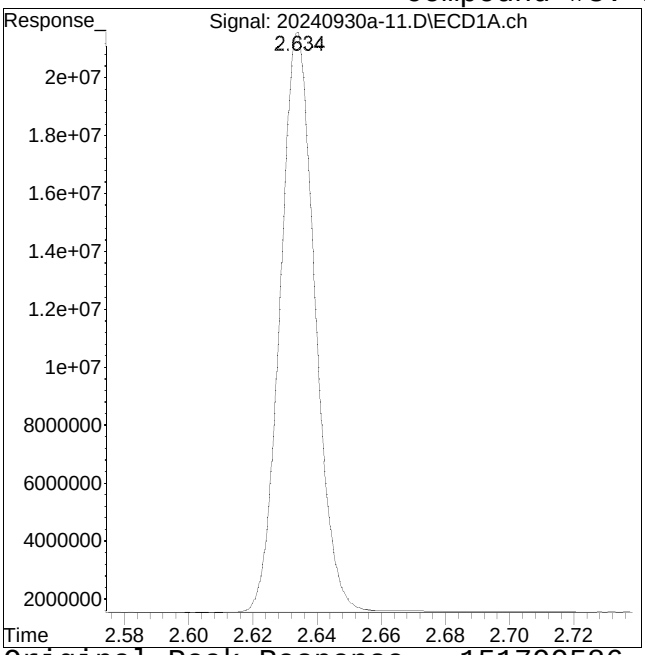
M4 = Poor automated baseline construction.

Manual Integration Report

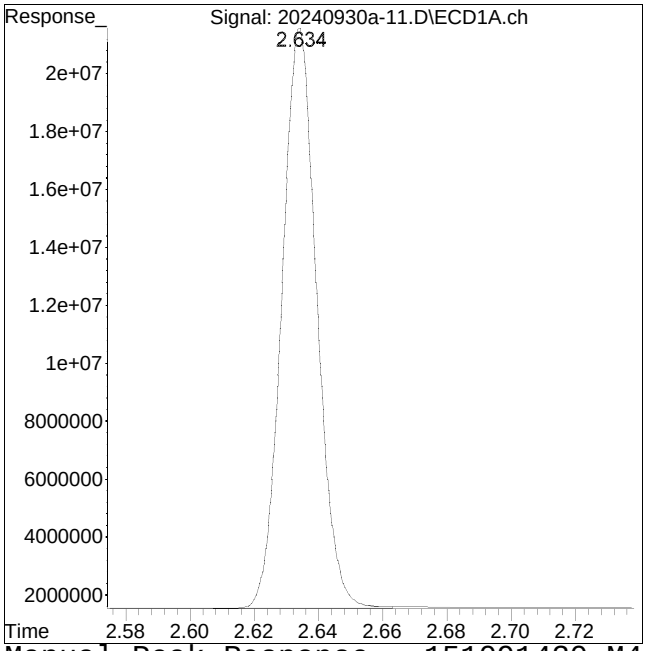
Data Path : I:\PEST\Pest20\2024\240930Q
Data File : 20240930a-11.D
Date Inj'd : 9/30/2024 7:49
Sample : wg1977952-4,42,,pest11675

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:akm
Instrument : PEST 20
Quant Date : 9/30/2024 8:14 am

Compound #3: Hexachlorobenzene



Original Peak Response = 151799586



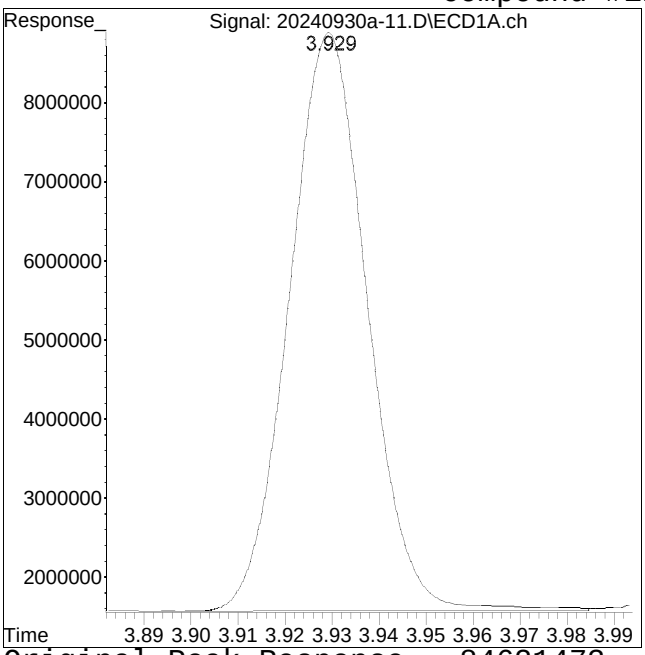
Manual Peak Response = 151091430 M4

M4 = Poor automated baseline construction.

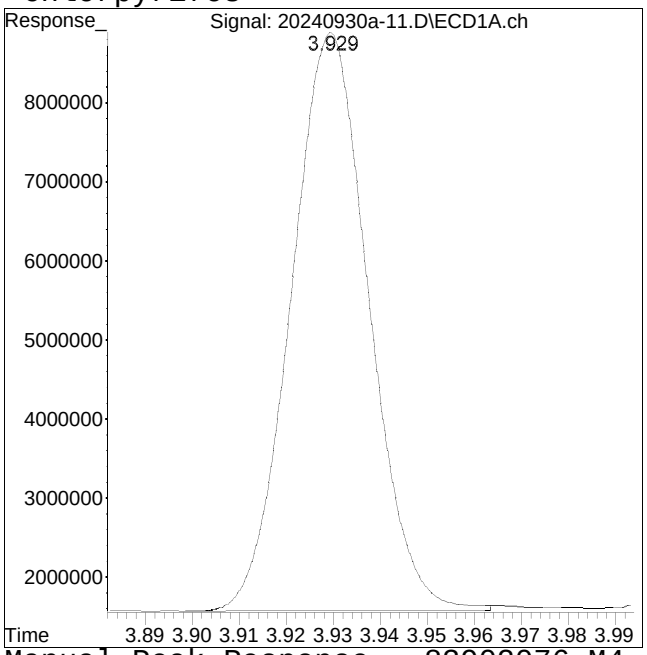
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #11: Chlorpyrifos



Original Peak Response = 84621473



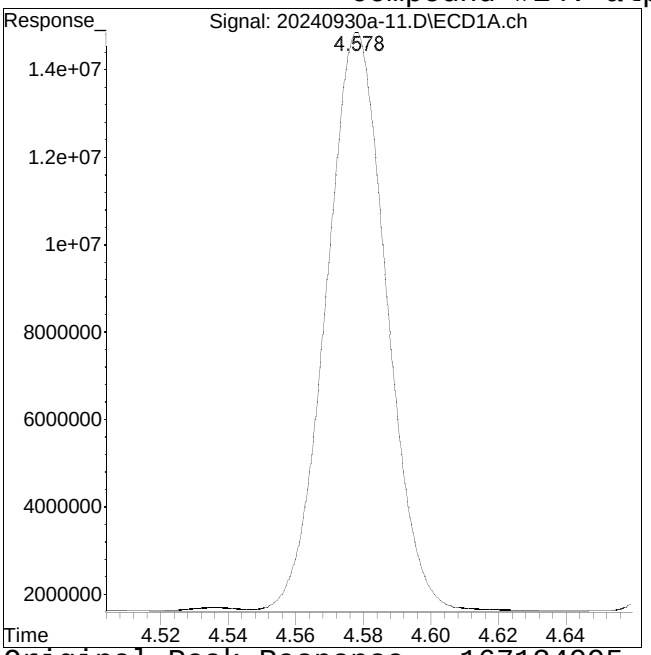
Manual Peak Response = 83902076 M4

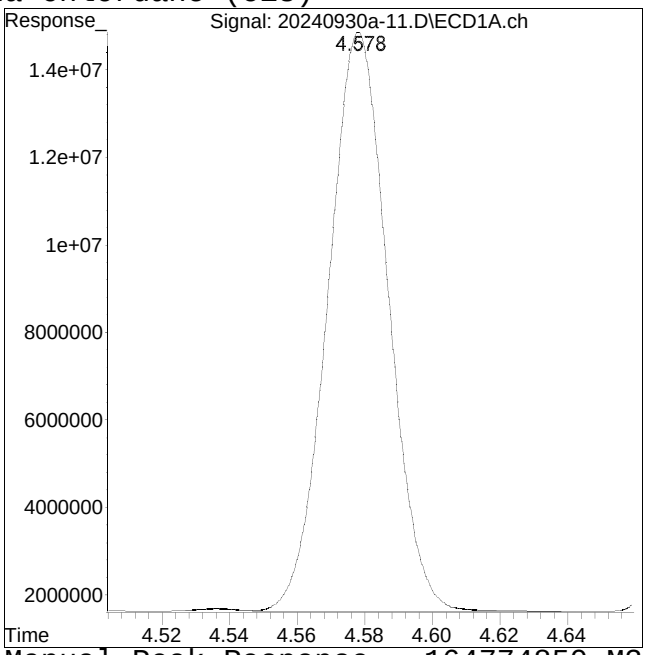
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #14: alpha-Chlordane (cis)



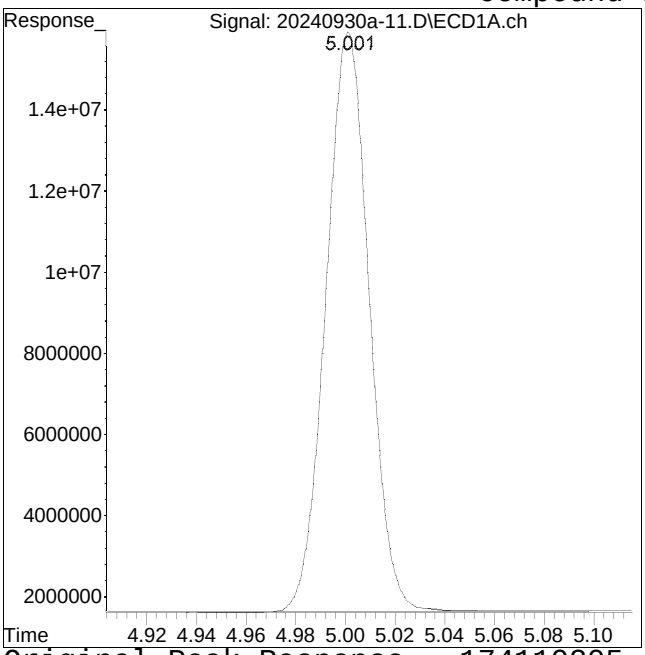


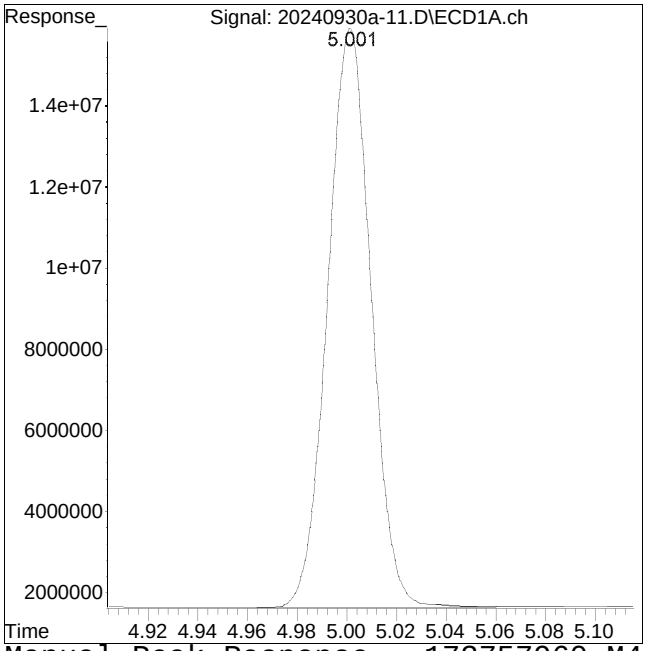
Original Peak Response = 167124995 Manual Peak Response = 164774850 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #17: Dieldrin



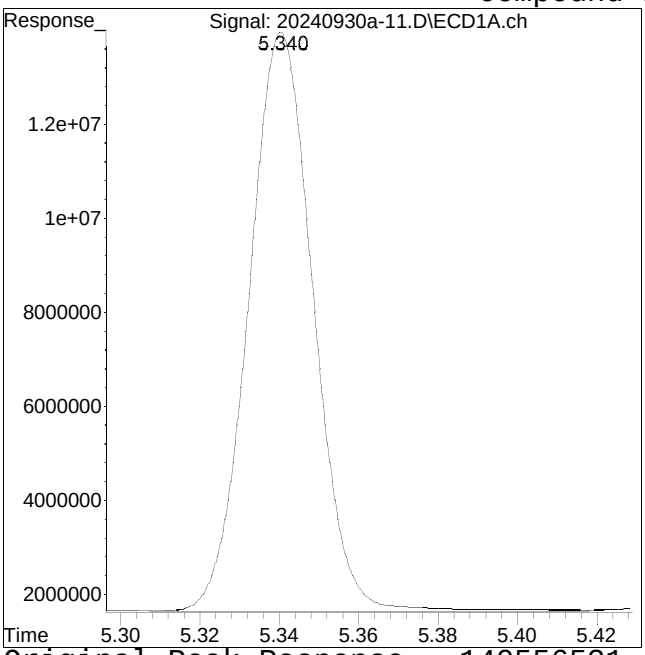


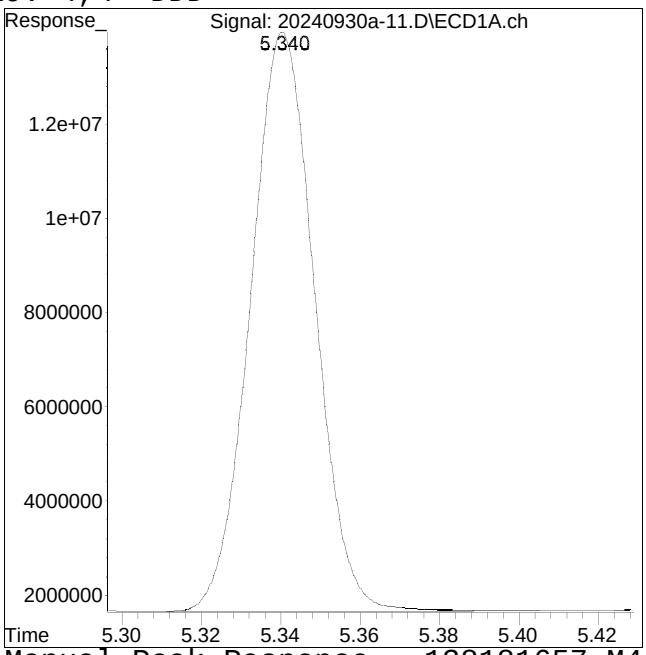
Original Peak Response = 174110205 Manual Peak Response = 173757960 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #19: 4,4'-DDD



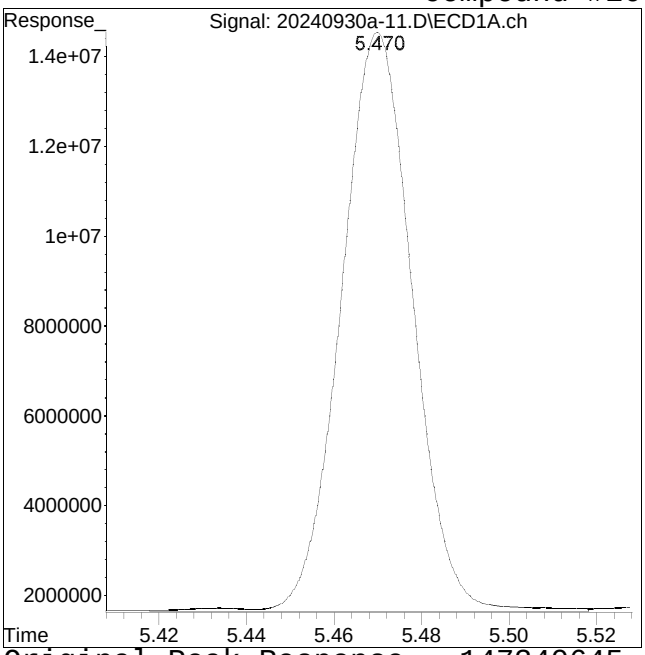


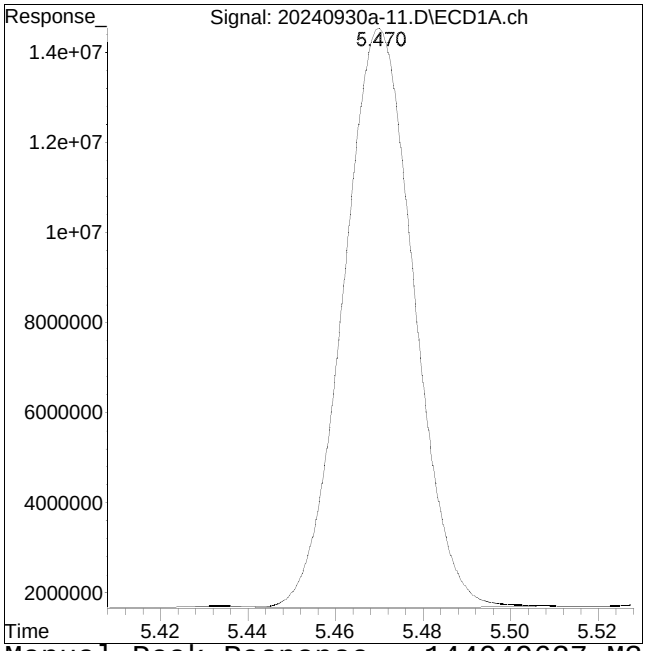
Original Peak Response = 140556531 Manual Peak Response = 138181657 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #20: Endosulfan II



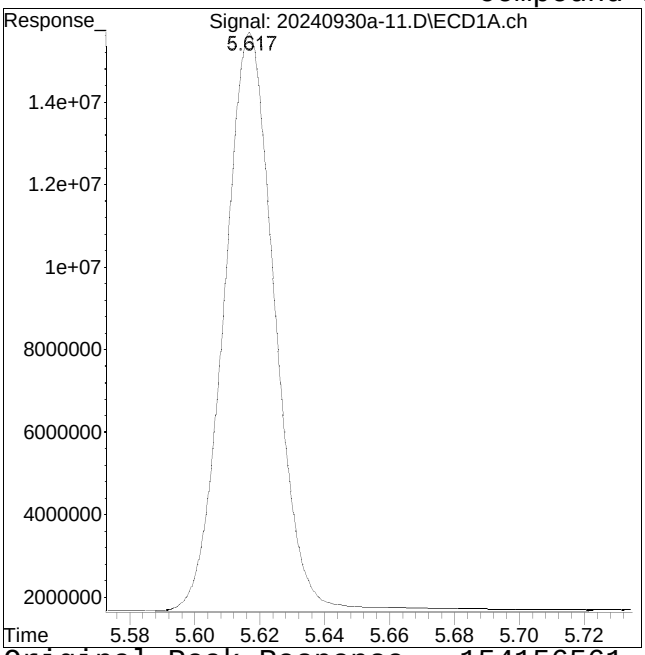


Original Peak Response = 147340645 Manual Peak Response = 144049637 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

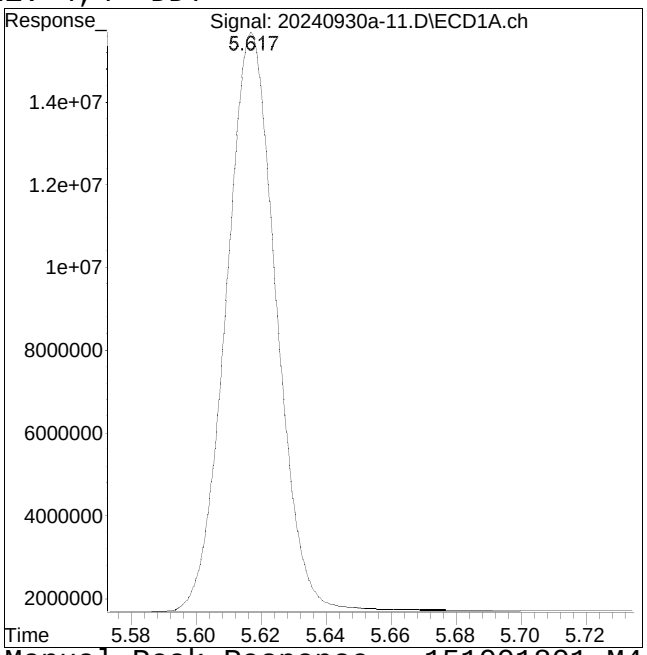
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #21: 4,4'-DDT



Original Peak Response = 154156561



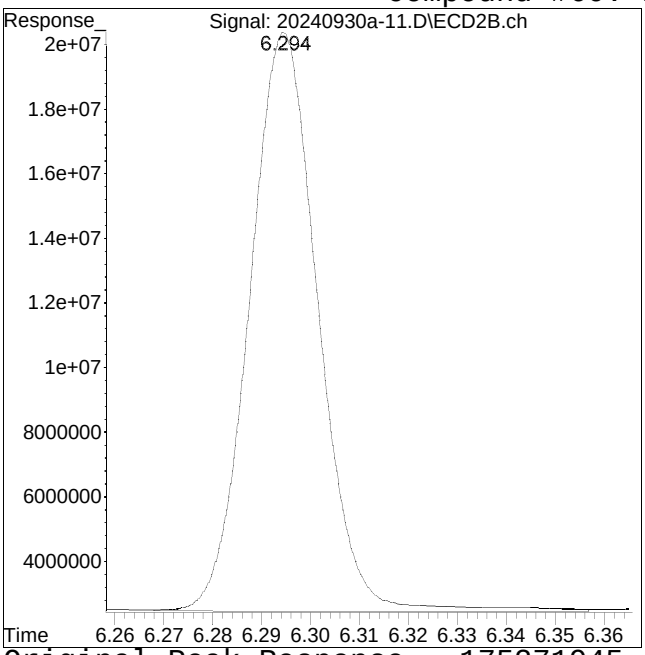
Manual Peak Response = 151001801 M4

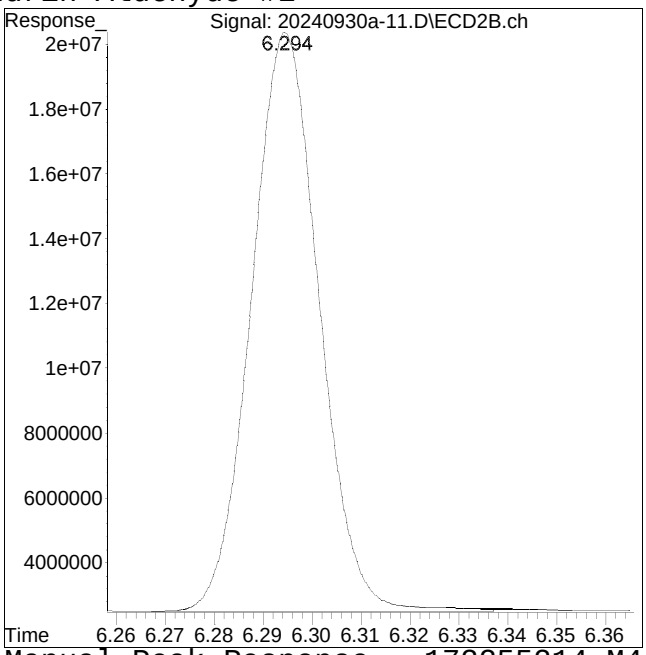
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #60: Endrin Aldehyde #2



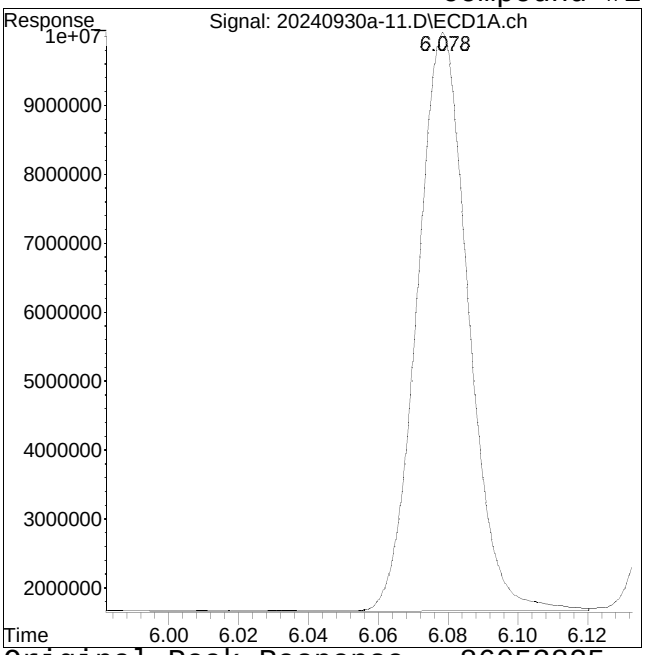


Original Peak Response = 175271945 Manual Peak Response = 172255214 M4
M4 = Poor automated baseline construction.

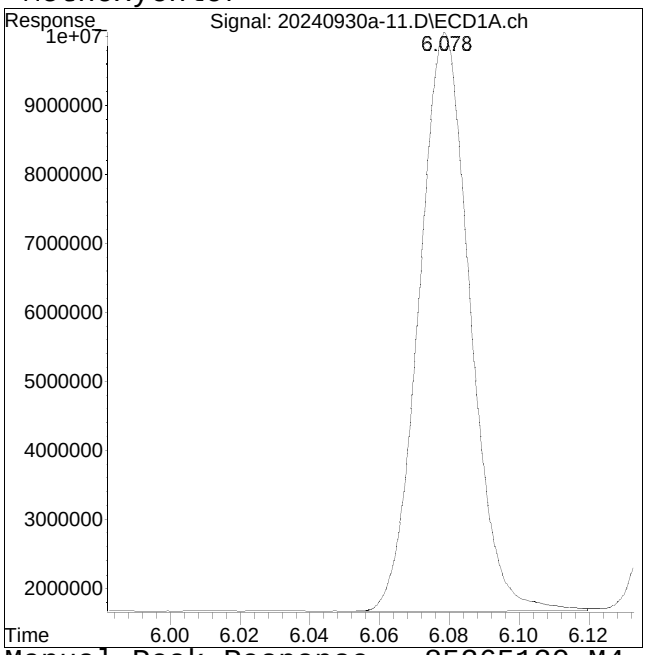
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #23: Methoxychlor



Original Peak Response = 86053825



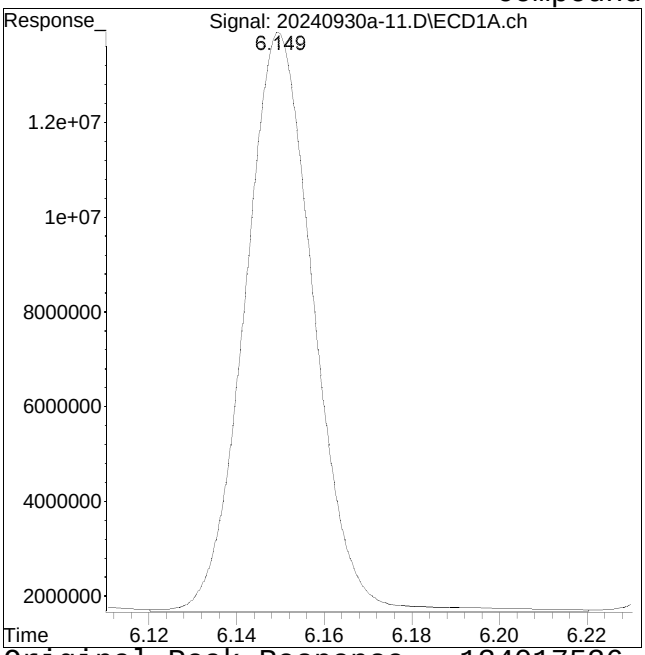
Manual Peak Response = 85265120 M4

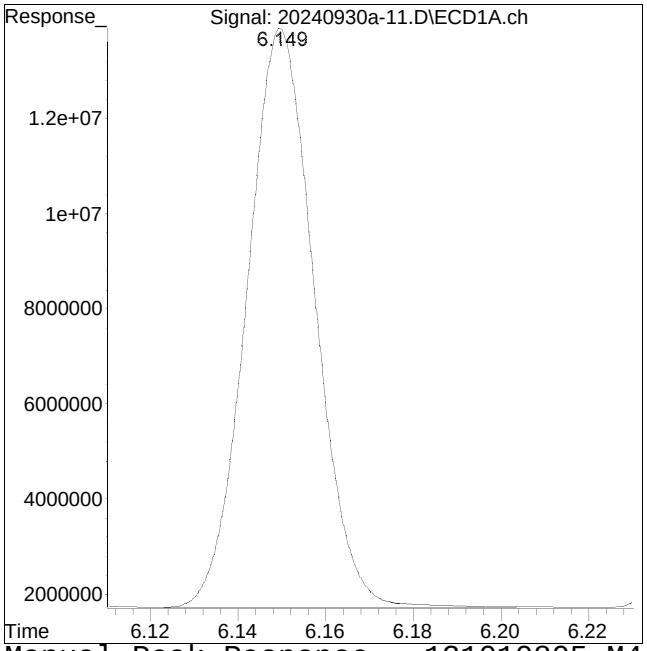
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #24: Mirex



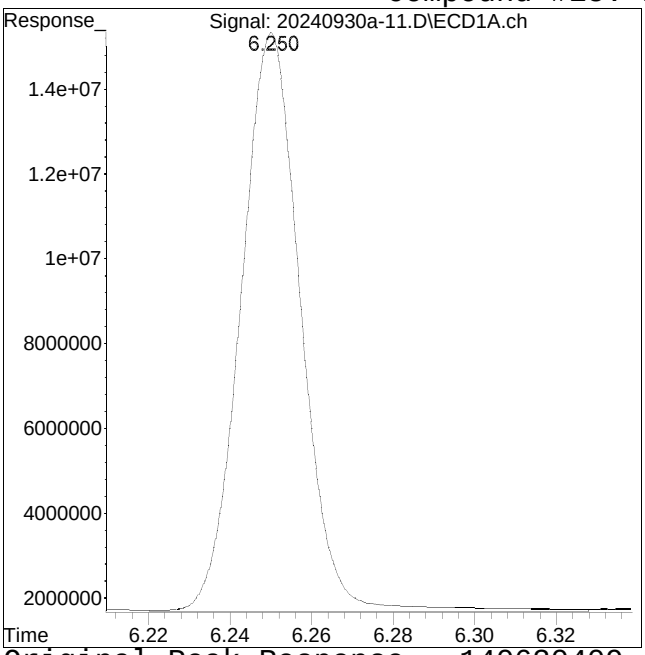


Original Peak Response = 134017536 Manual Peak Response = 131010805 M4
M4 = Poor automated baseline construction.

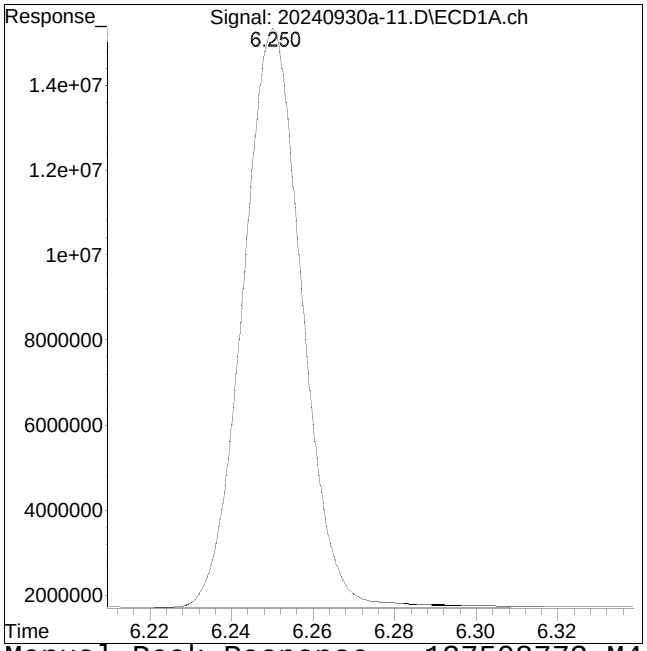
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 140630409



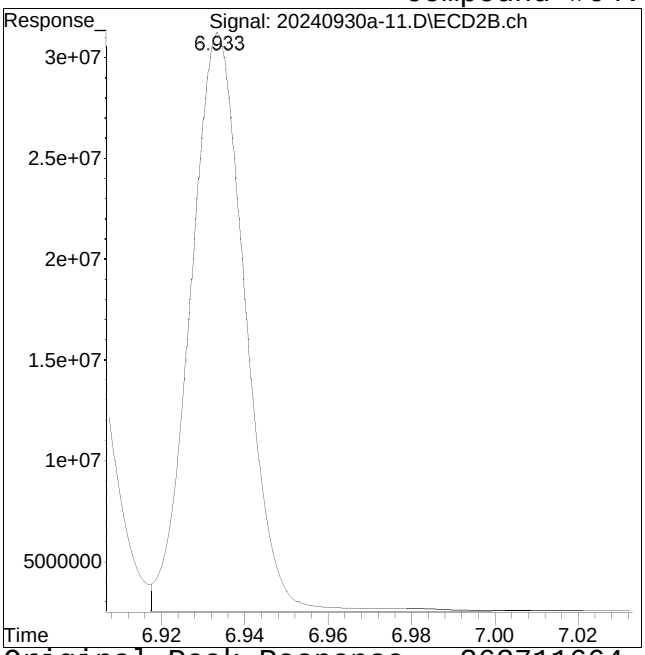
Manual Peak Response = 137508773 M4

M4 = Poor automated baseline construction.

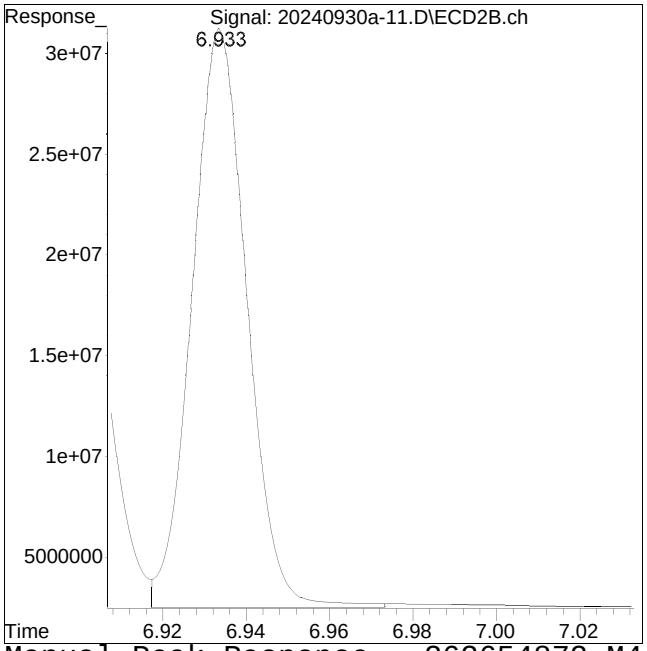
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #64: Endrin Ketone #2



Original Peak Response = 263711664



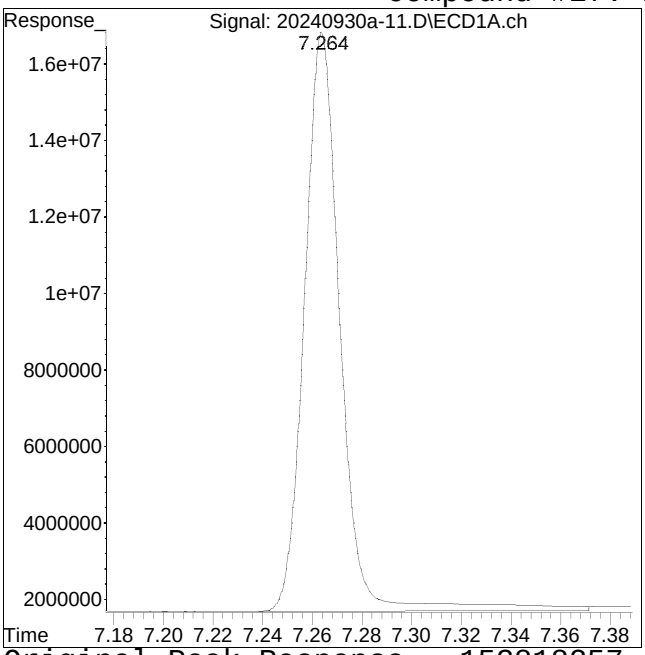
Manual Peak Response = 262654872 M4

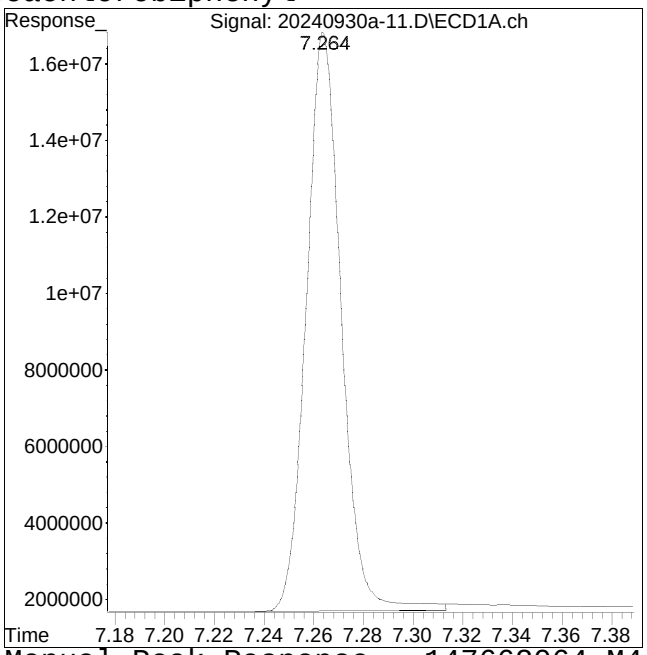
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-11.D Operator : pest20:akm
Date Inj'd : 9/30/2024 7:49 Instrument : PEST 20
Sample : wg1977952-4,42,,pest11675 Quant Date : 9/30/2024 8:14 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 153818257 Manual Peak Response = 147662064 M4
M4 = Poor automated baseline construction.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Analysis Date**	: 09/26/24 06:23
PEM Standard	: R1880713-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	836378.314	1146402.7744
Endrin	943328681.2512	522314390.0992
4,4'-DDD	1650438.008	1446292.20802
4,4'-DDT	1748642859.0068	966242799.0592
Endrin Aldehyde	744700.27029	0
Endrin Ketone	2812363.60592	2140424

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.376	0.408
DDT	0.142	0.268

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Analysis Date**	: 09/26/24 20:11
PEM Standard	: R1881074-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	351634.77045	577816.05258
Endrin	832330442.13535	483340446.54544
4,4'-DDD	779507.08087	752481.99267
4,4'-DDT	1510974181.3549	895415389.96259
Endrin Aldehyde	0	0
Endrin Ketone	2098072.6376	1226058.41214

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.251	0.253
DDT	0.0748	0.148

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST20	**Analysis Date**	: 09/30/24 05:57
PEM Standard	: R1881817-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	159028.18764	227700.35235
Endrin	175110312.38791	279679242.08212
4,4'-DDD	216917.10239	354655.9375
4,4'-DDT	315134948.75	502712433.65295
Endrin Aldehyde	258404.06882	0
Endrin Ketone	463105.0581	679419.92464

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.410	0.242
DDT	0.119	0.116

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:23
Operator : PEST11:peg
Sample : pem11240926a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:33:06 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.187	1.260	301.6E6	203.7E6	25.000M3	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t D	4,4'-DDE	3.421	4.232	836378	1146403	0.058M4	0.105M4
18) t	Endrin	3.948	4.704	943.3E6	522.3E6	67.835M4	47.602M3
19) t	4,4'-DDD	4.072	4.845	1650438	1446292	0.148M4	0.164M4
21) t	4,4'-DDT	4.387	5.132	1748.6E6	966.2E6	136.952M4	94.860M4
22) t D	Endrin Aldeh	4.646	0.000	744700	0	0.070M4	N.D. d
26) t	Endrin Keton	5.288	5.879	2812364	2140424	0.197M4	0.208
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:23
Operator : PEST11:peg
Sample : pem11240926a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:33:06 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

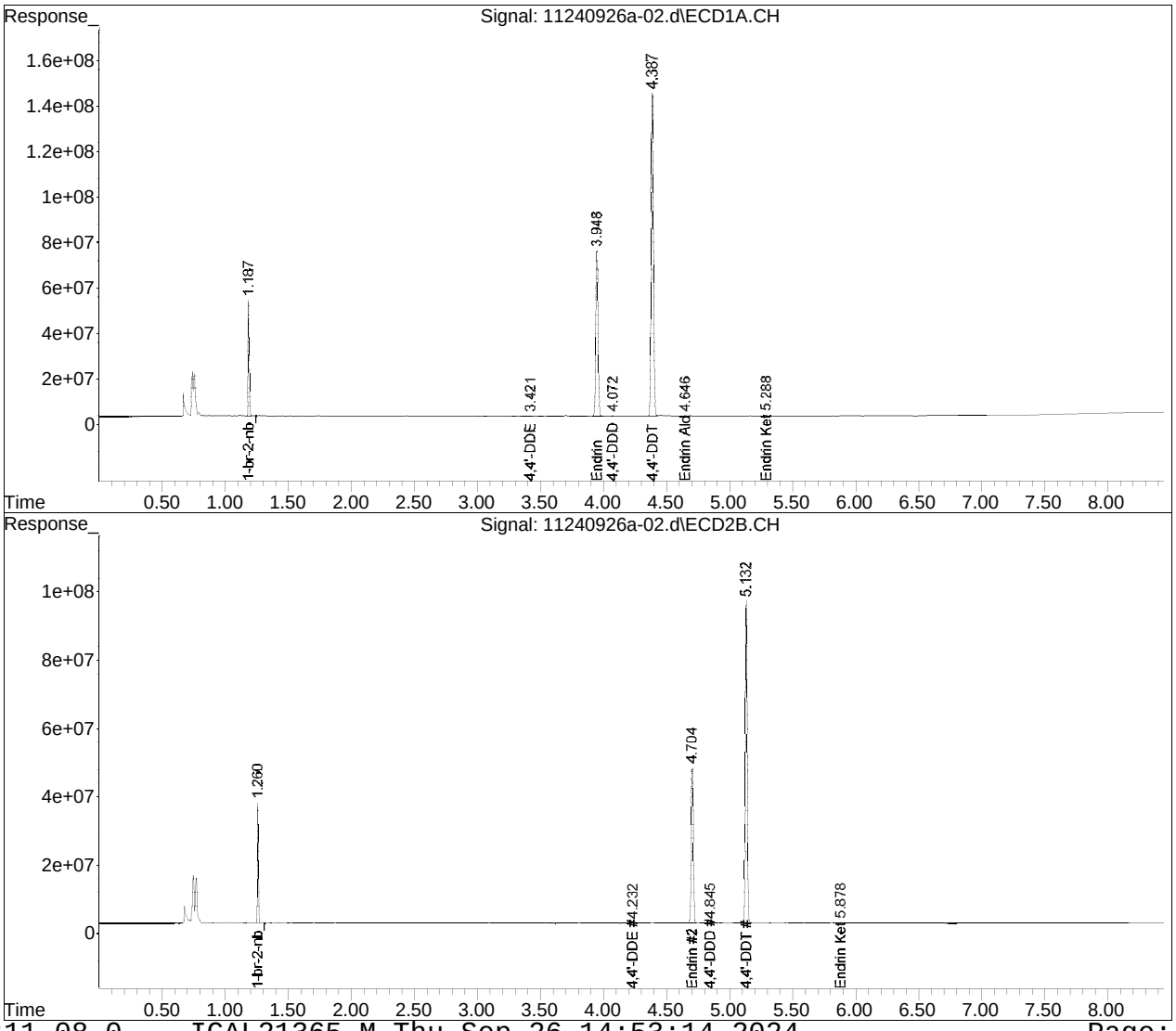
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 6:23
Operator : PEST11:peg
Sample : pem11240926a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1976509,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 07:33:06 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

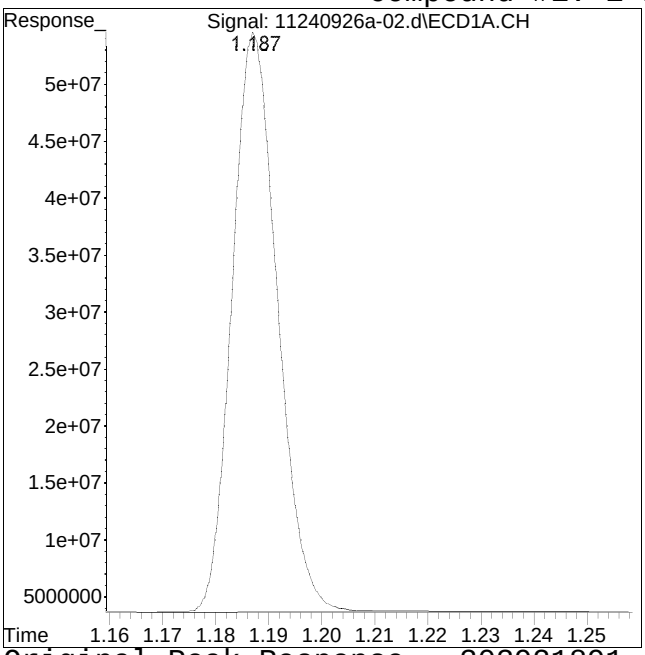
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

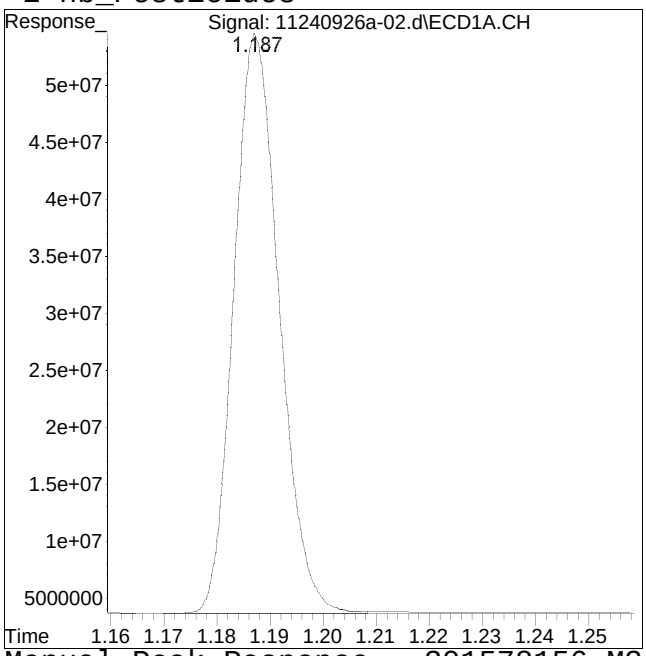


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-02.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:23 Instrument : Pest 11
Sample : pem11240926a-01,42,,deg115Quant Date : 9/26/2024 7:33 am

Compound #1: 1-br-2-nb_Pesticides





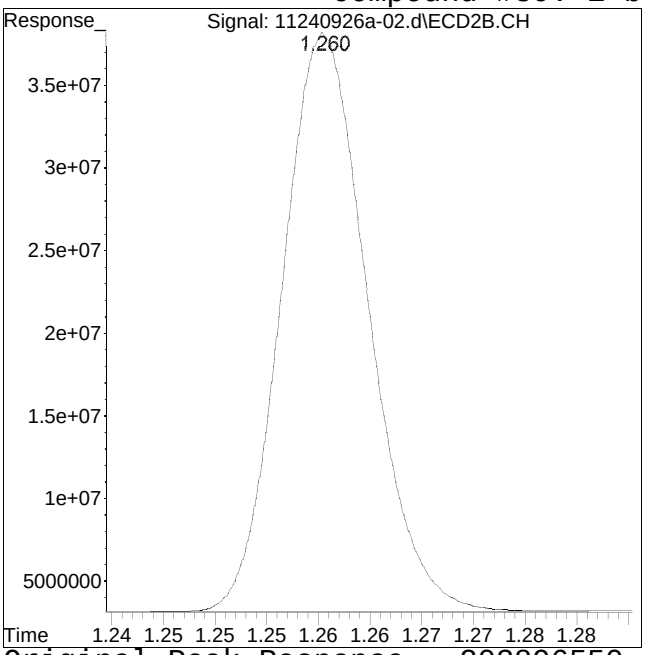
Original Peak Response = 303921891 Manual Peak Response = 301578156 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

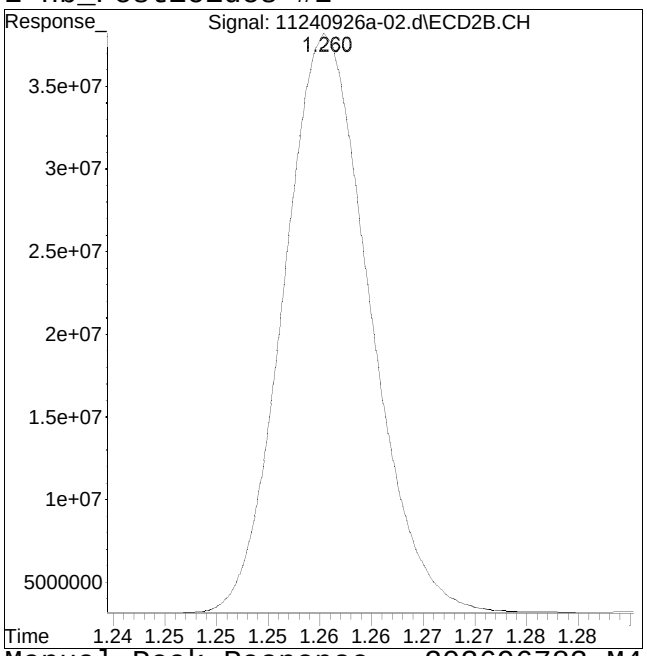
Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926a-02.d
Date Inj'd : 9/26/2024 6:23
Sample : pem11240926a-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 9/26/2024 7:33 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 203896550



Manual Peak Response = 203696783 M4

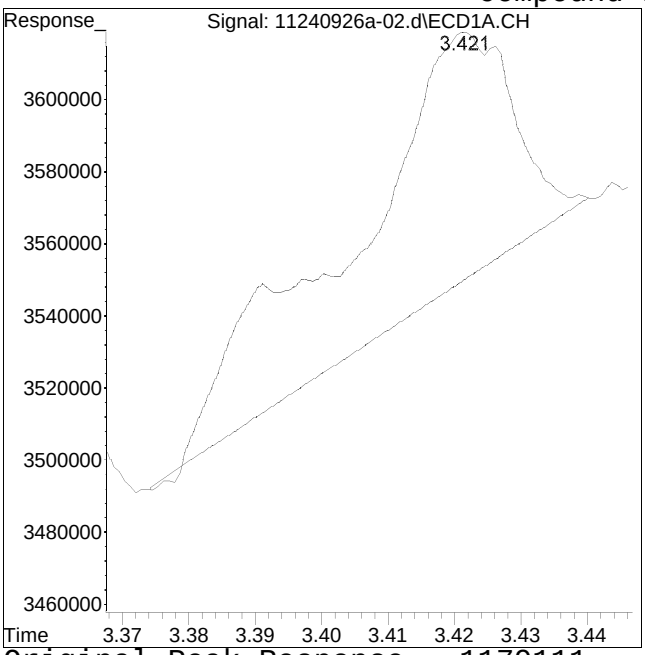
M4 = Poor automated baseline construction.

Manual Integration Report

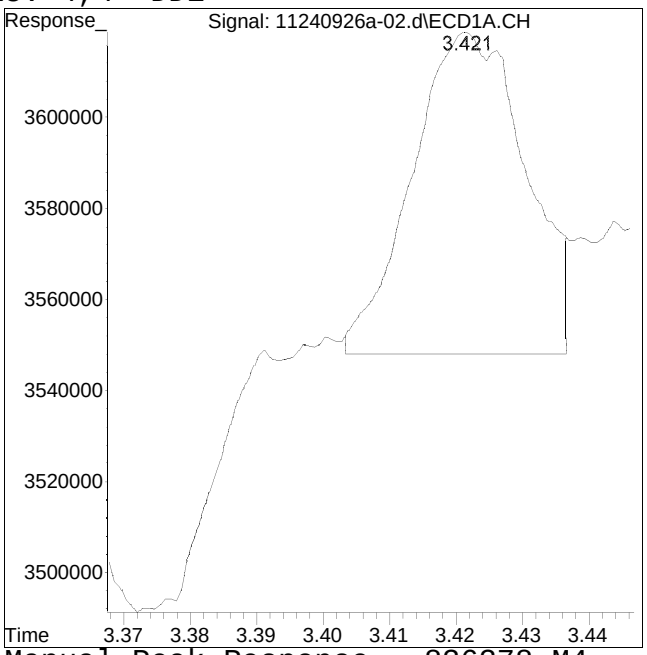
Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926a-02.d
Date Inj'd : 9/26/2024 6:23
Sample : pem11240926a-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 9/26/2024 7:33 am

Compound #15: 4,4'-DDE



Original Peak Response = 1179111



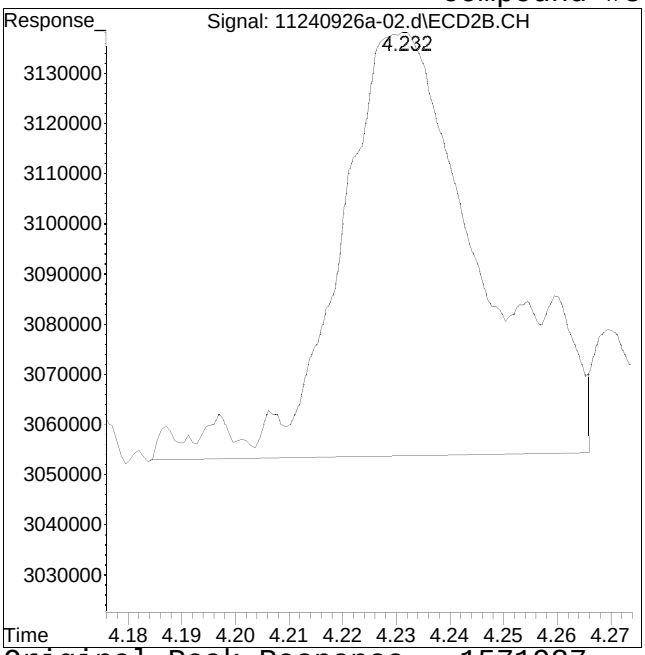
Manual Peak Response = 836378 M4

M4 = Poor automated baseline construction.

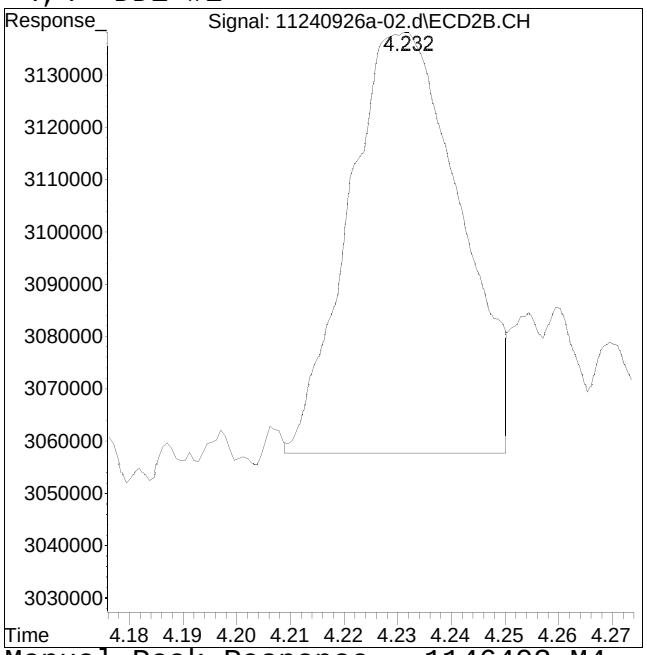
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-02.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:23 Instrument : Pest 11
Sample : pem11240926a-01,42,,deg115Quant Date : 9/26/2024 7:33 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 1571937



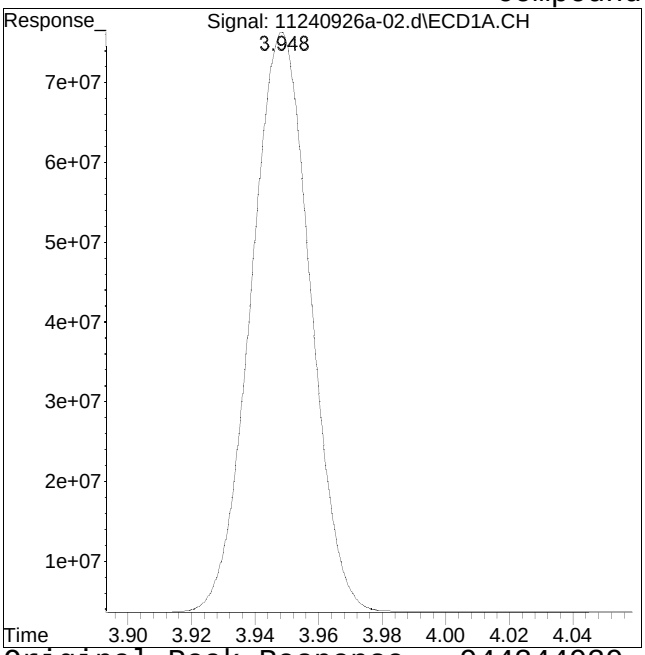
Manual Peak Response = 1146403 M4

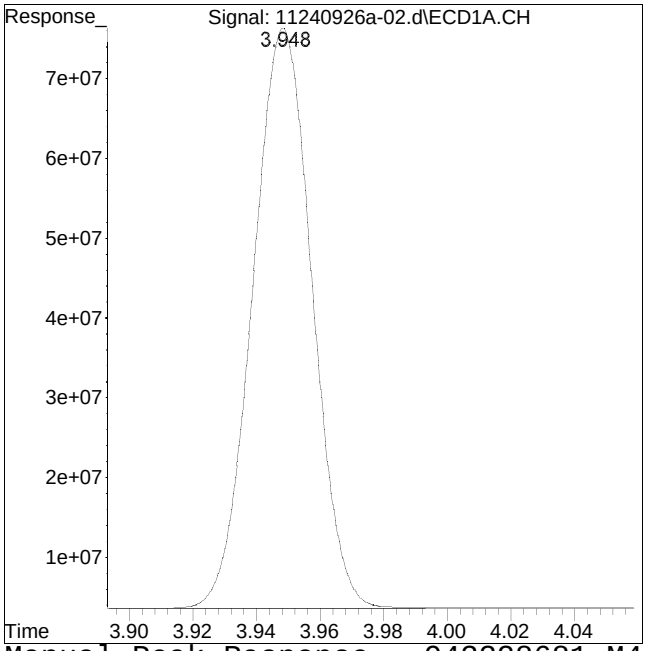
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-02.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:23 Instrument : Pest 11
Sample : pem11240926a-01,42,,deg115Quant Date : 9/26/2024 7:33 am

Compound #18: Endrin



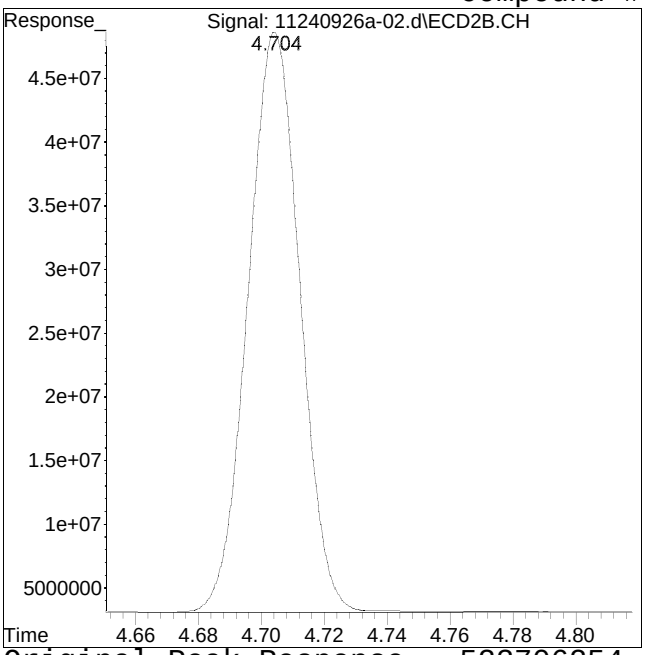


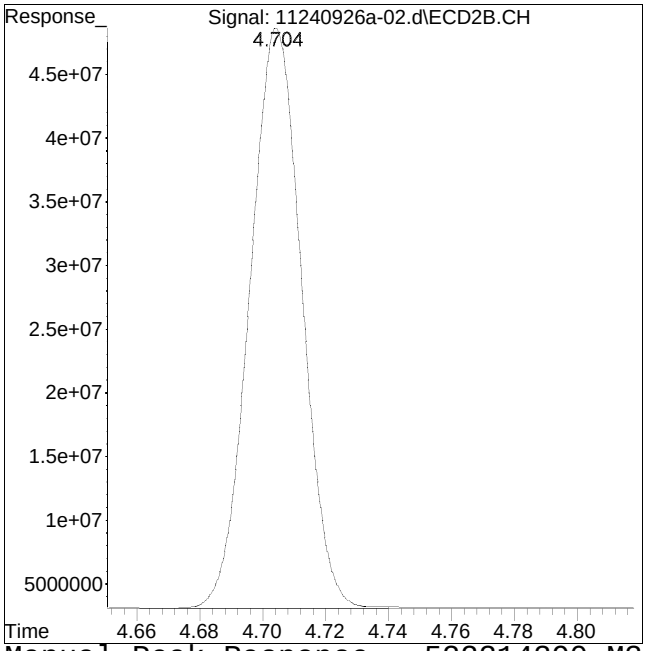
Original Peak Response = 944344939 Manual Peak Response = 943328681 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-02.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:23 Instrument : Pest 11
Sample : pem11240926a-01,42,,deg115Quant Date : 9/26/2024 7:33 am

Compound #56: Endrin #2



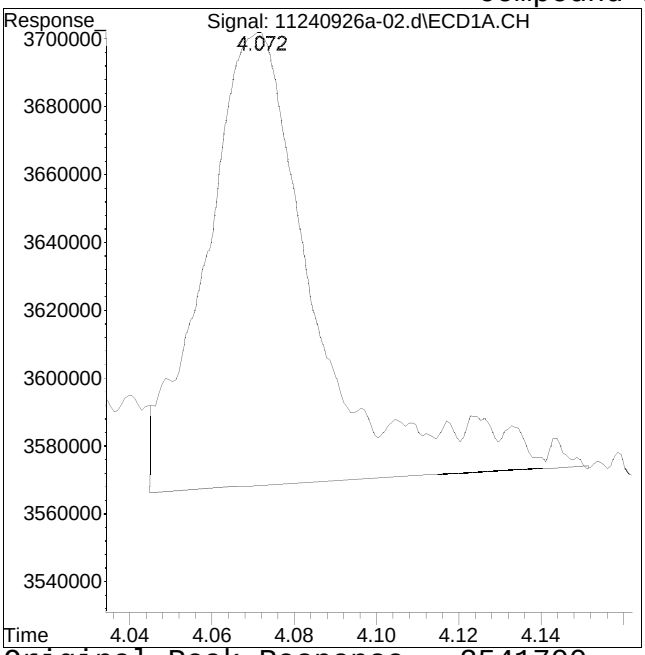


Original Peak Response = 523706254 Manual Peak Response = 522314390 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

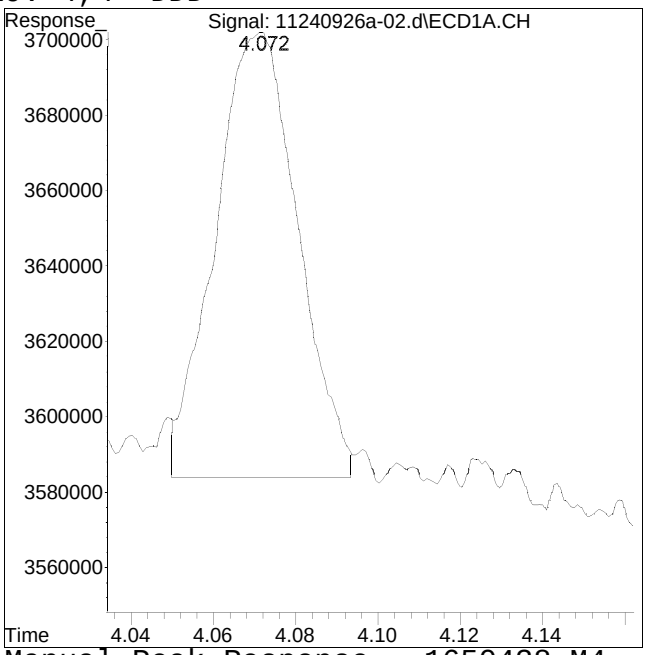
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-02.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:23 Instrument : Pest 11
Sample : pem11240926a-01,42,,deg115Quant Date : 9/26/2024 7:33 am

Compound #19: 4,4'-DDD



Original Peak Response = 2541700



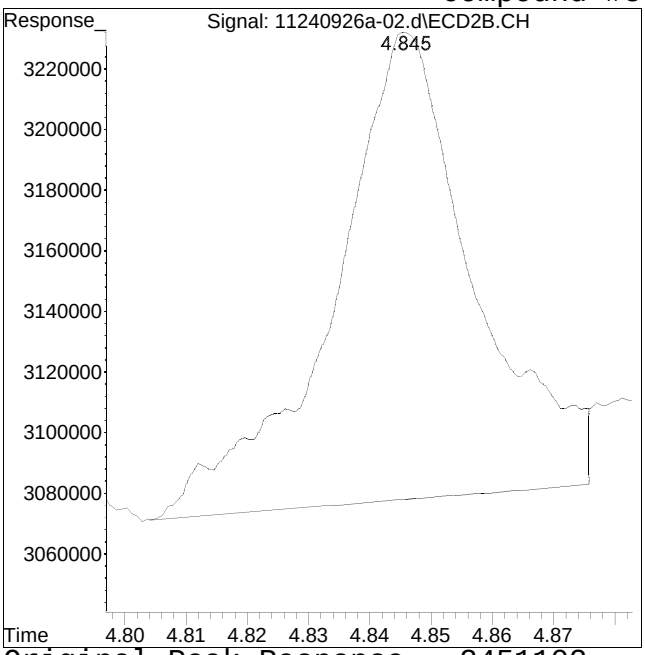
Manual Peak Response = 1650438 M4

M4 = Poor automated baseline construction.

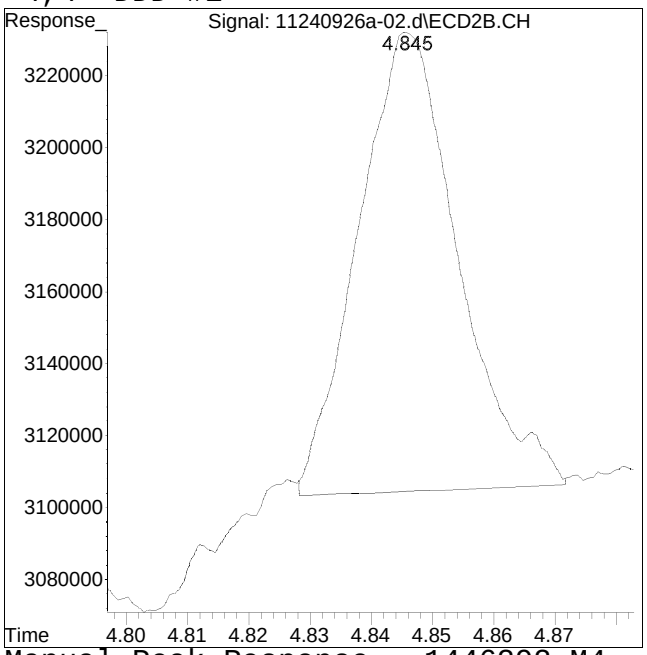
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-02.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:23 Instrument : Pest 11
Sample : pem11240926a-01,42,,deg115Quant Date : 9/26/2024 7:33 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 2451102



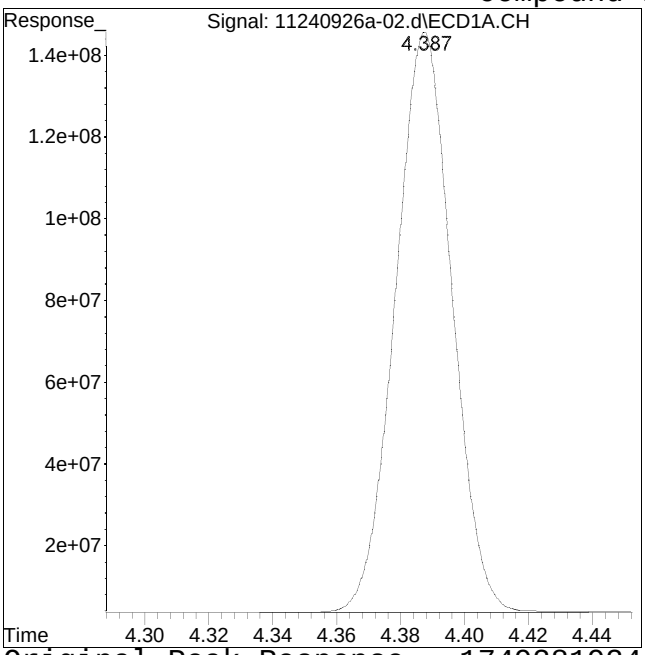
Manual Peak Response = 1446292 M4

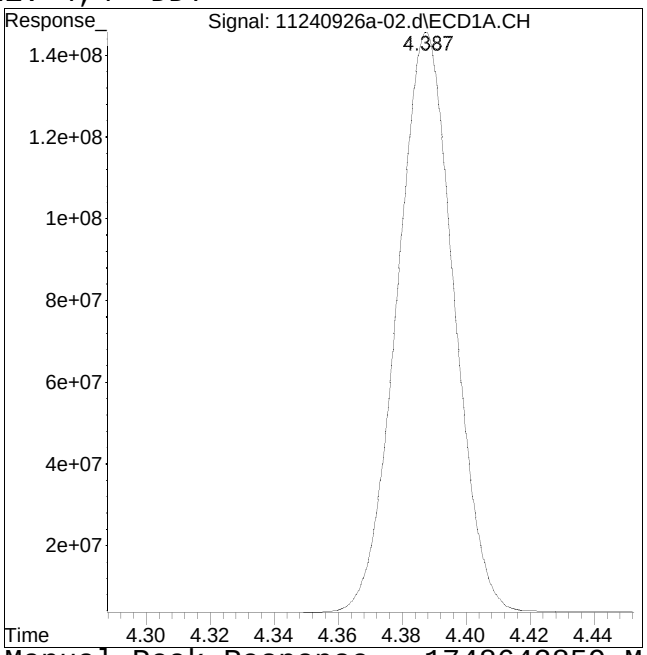
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-02.d Operator : PEST11:peg
Date Inj'd : 9/26/2024 6:23 Instrument : Pest 11
Sample : pem11240926a-01,42,,deg115Quant Date : 9/26/2024 7:33 am

Compound #21: 4,4'-DDT





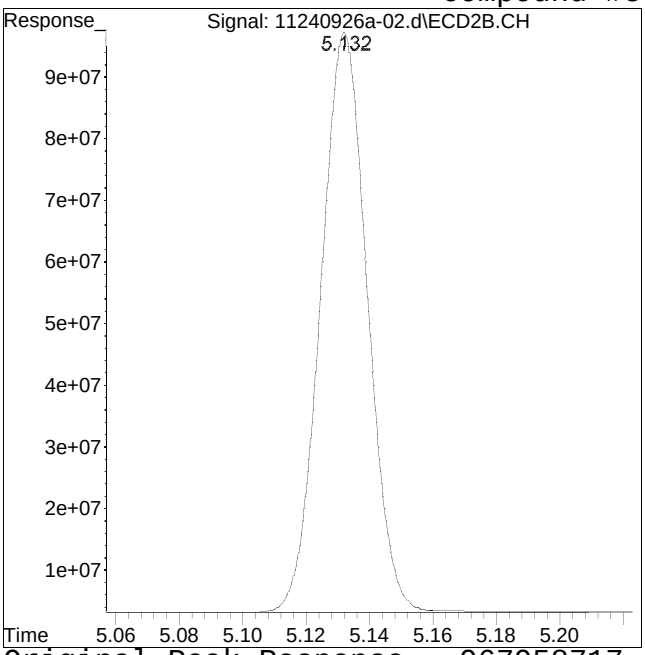
Original Peak Response = 1749281924 Manual Peak Response = 1748642859 M4
M4 = Poor automated baseline construction.

Manual Integration Report

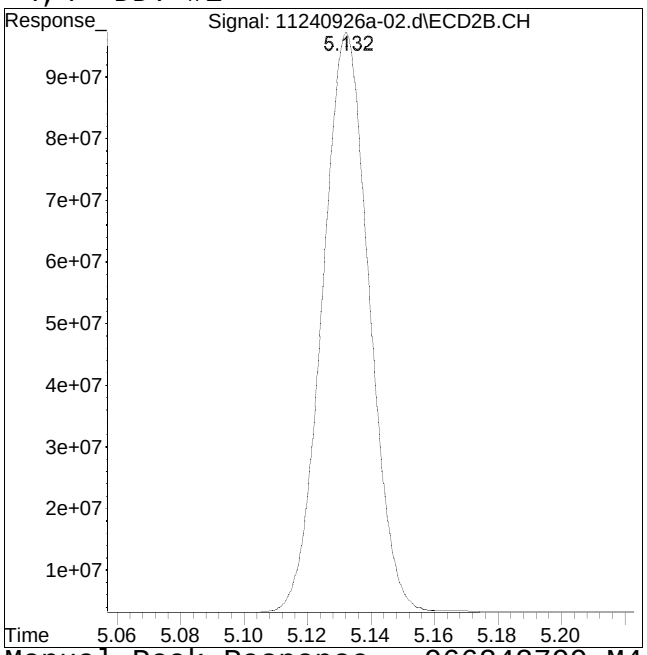
Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926a-02.d
Date Inj'd : 9/26/2024 6:23
Sample : pem11240926a-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 9/26/2024 7:33 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 967958717



Manual Peak Response = 966242799 M4

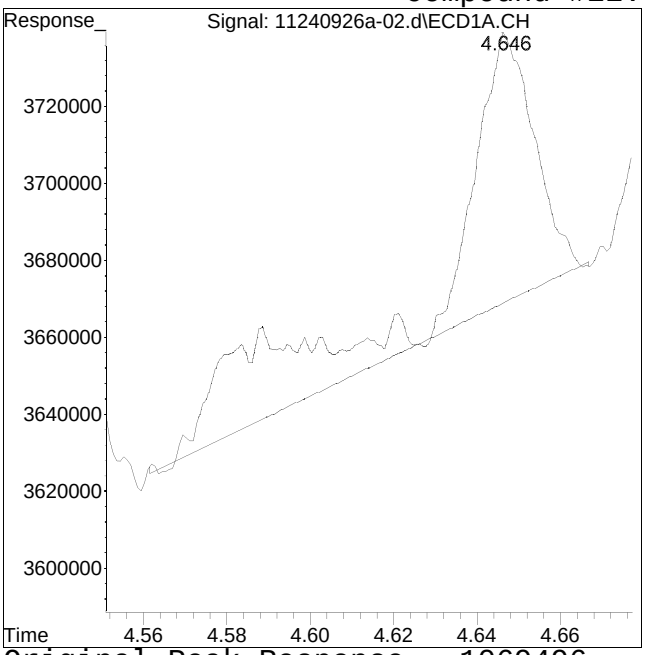
M4 = Poor automated baseline construction.

Manual Integration Report

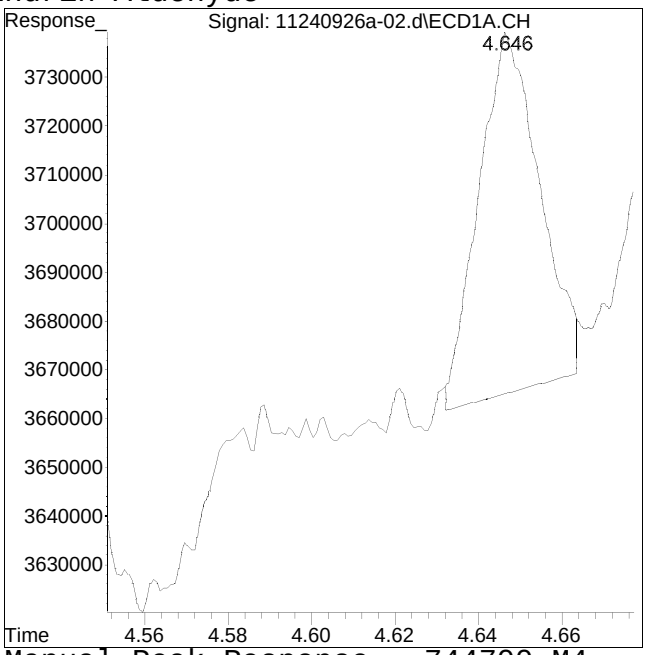
Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926a-02.d
Date Inj'd : 9/26/2024 6:23
Sample : pem11240926a-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 9/26/2024 7:33 am

Compound #22: Endrin Aldehyde



Original Peak Response = 1069496



Manual Peak Response = 744700 M4

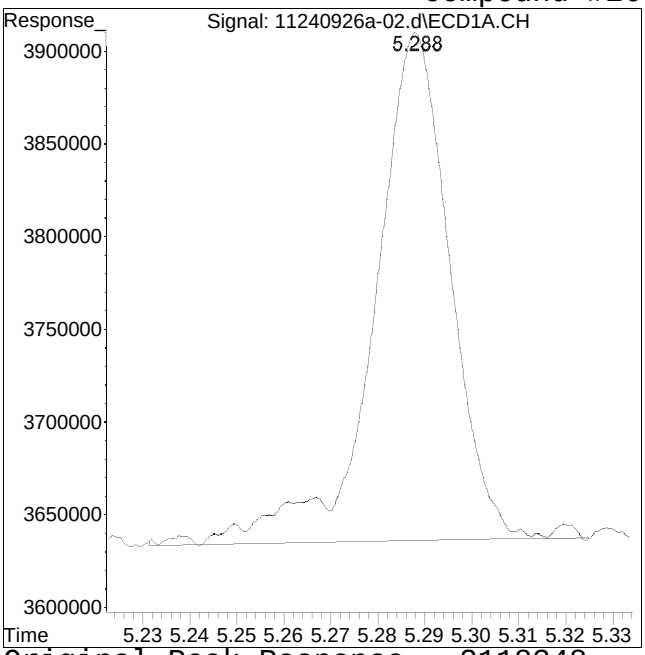
M4 = Poor automated baseline construction.

Manual Integration Report

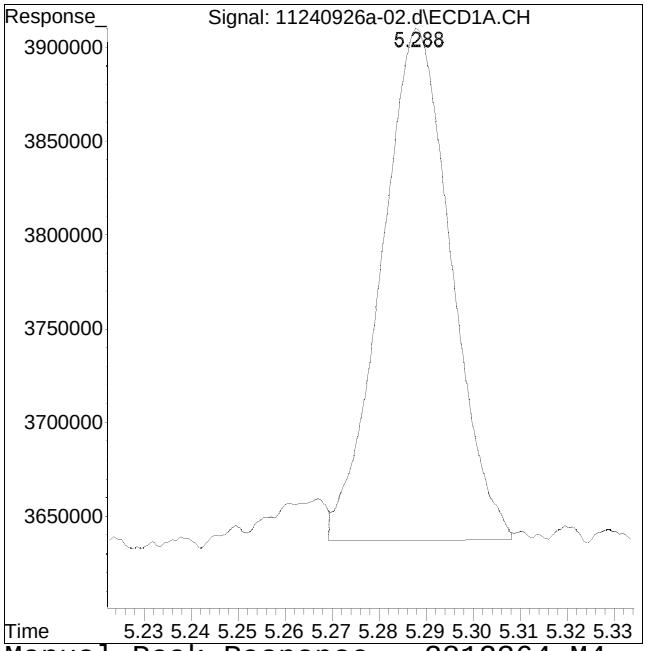
Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926a-02.d
Date Inj'd : 9/26/2024 6:23
Sample : pem11240926a-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 9/26/2024 7:33 am

Compound #26: Endrin Ketone



Original Peak Response = 3118348



Manual Peak Response = 2812364 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:11
Operator : PEST11:jag
Sample : pem11240926b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 21:54:38 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.186	1.259	323.1E6	216.0E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t D	4,4'-DDE	3.415	4.224	351635	577816	0.023M4	0.050M4
18) t	Endrin	3.943	4.700	832.3E6	483.3E6	55.862M4	41.536M3
19) t	4,4'-DDD	4.065	4.841	779507	752482	0.065M2	0.080M3
21) t	4,4'-DDT	4.383	5.129	1511.0E6	895.4E6	110.447M4	82.891M4
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D. d
26) t	Endrin Keton	5.284	5.875	2098073	1226058	0.137M4	0.113M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:11
Operator : PEST11:jag
Sample : pem11240926b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 21:54:38 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

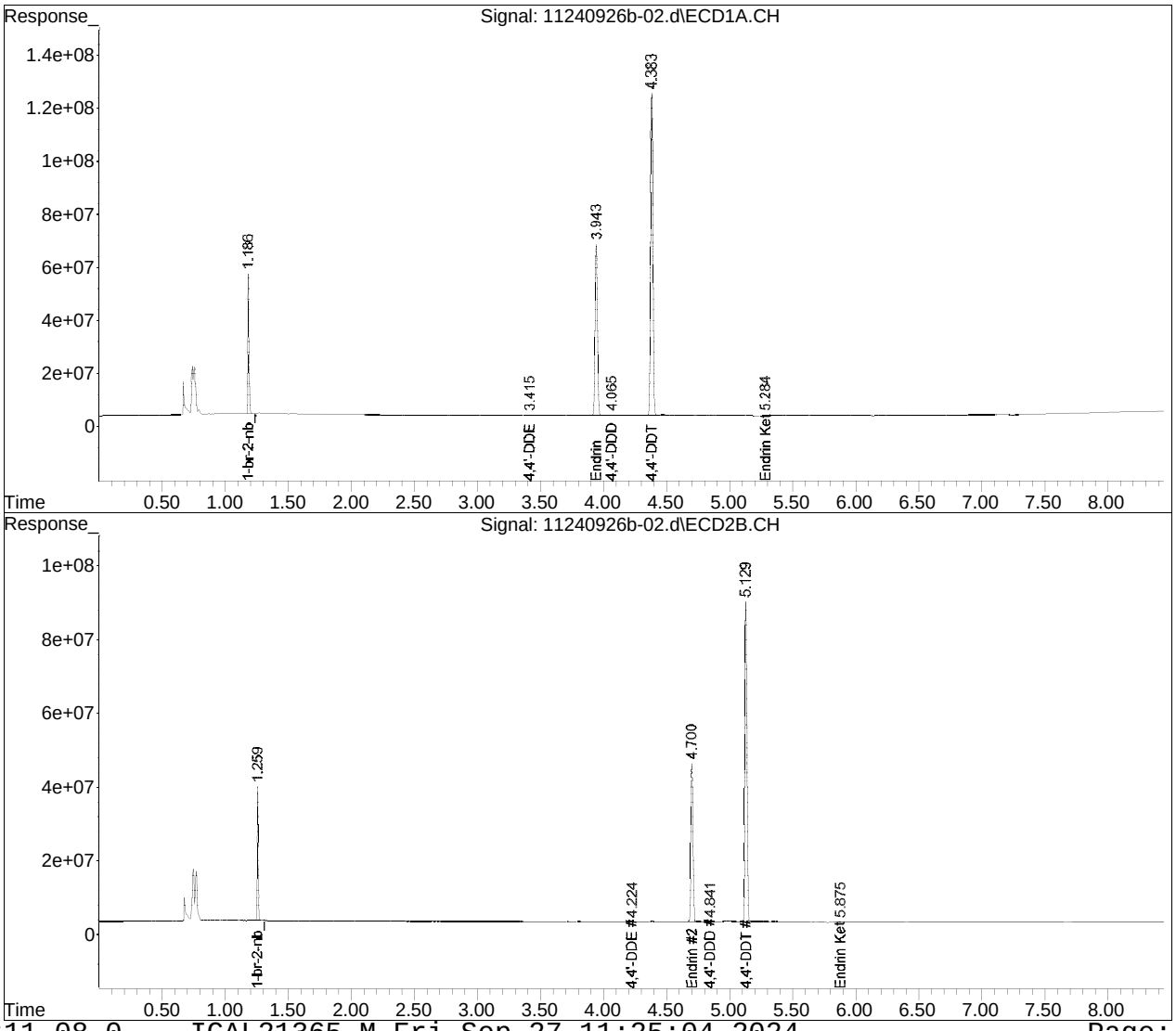
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240926B\
Data File : 11240926b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 20:11
Operator : PEST11:jag
Sample : pem11240926b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1976911,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 21:54:38 2024
Quant Method : I:\PEST\Pest11\2024\240926B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

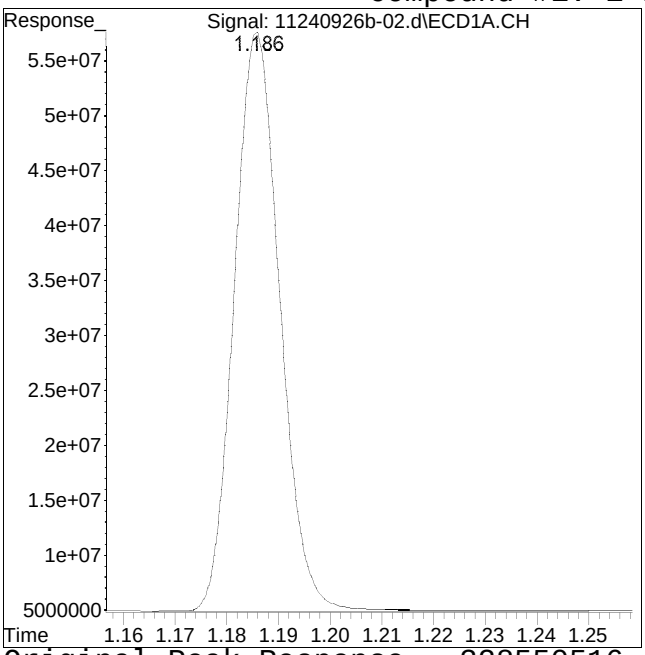
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

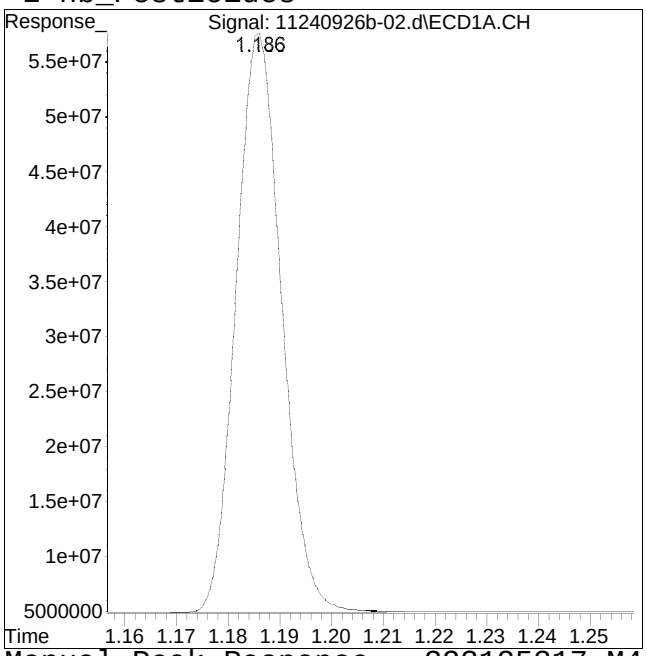


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-02.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:11 Instrument : Pest 11
Sample : pem11240926b-01,42,,deg115Quant Date : 9/26/2024 9:54 pm

Compound #1: 1-br-2-nb_Pesticides



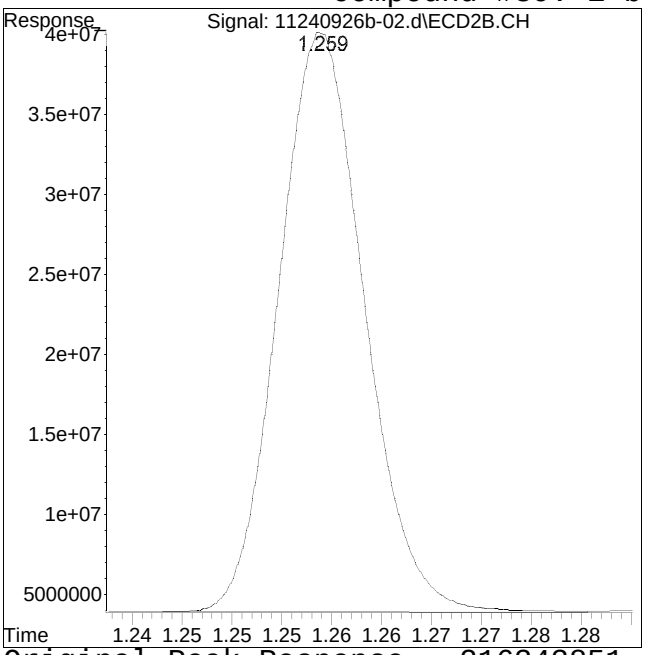


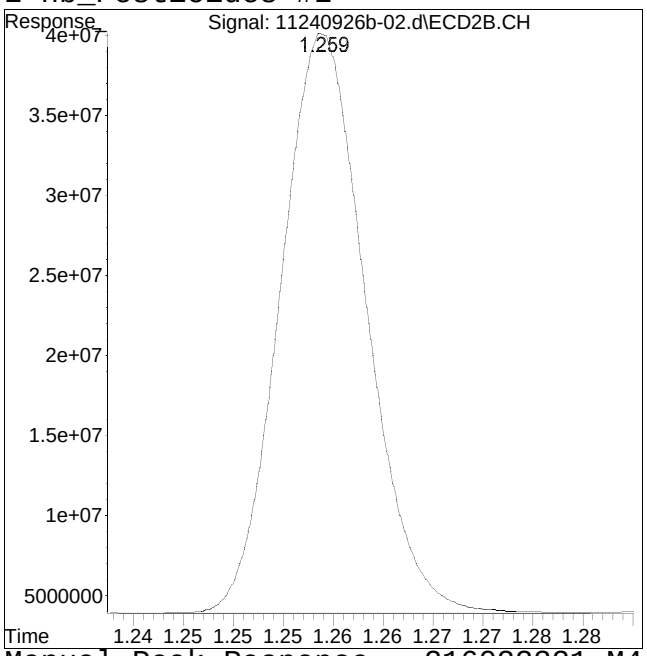
Original Peak Response = 328550516 Manual Peak Response = 323125317 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-02.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:11 Instrument : Pest 11
Sample : pem11240926b-01,42,,deg115Quant Date : 9/26/2024 9:54 pm

Compound #39: 1-br-2-nb_Pesticides #2





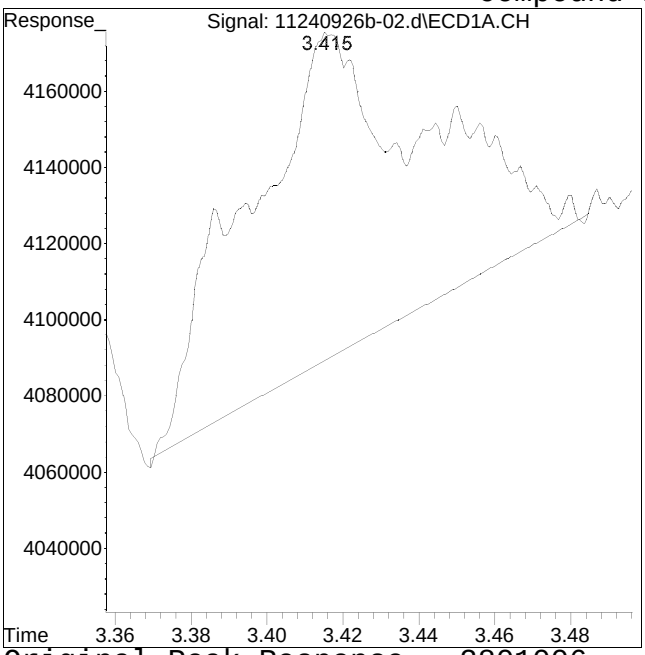
Original Peak Response = 216343851 Manual Peak Response = 216023321 M4
M4 = Poor automated baseline construction.

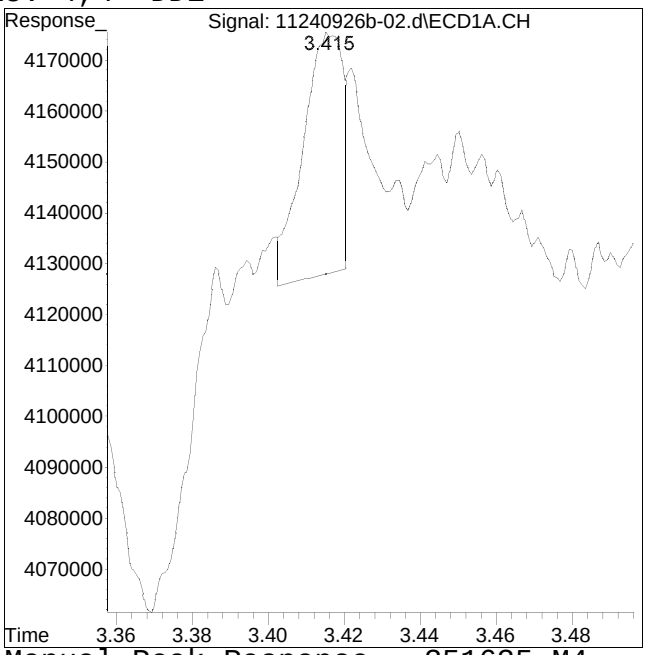
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926b-02.d
Date Inj'd : 9/26/2024 20:11
Sample : pem11240926b-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:jag
Instrument : Pest 11
Quant Date : 9/26/2024 9:54 pm

Compound #15: 4,4'-DDE



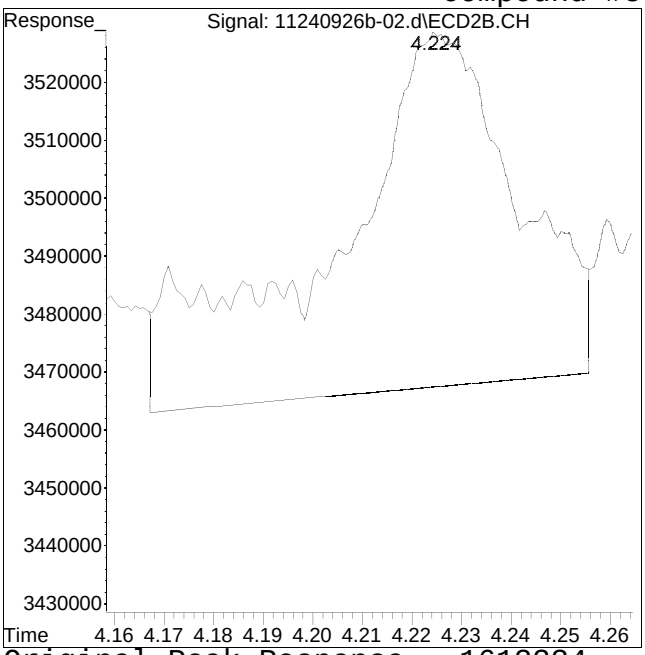


Original Peak Response = 2801006 Manual Peak Response = 351635 M4
M4 = Poor automated baseline construction.

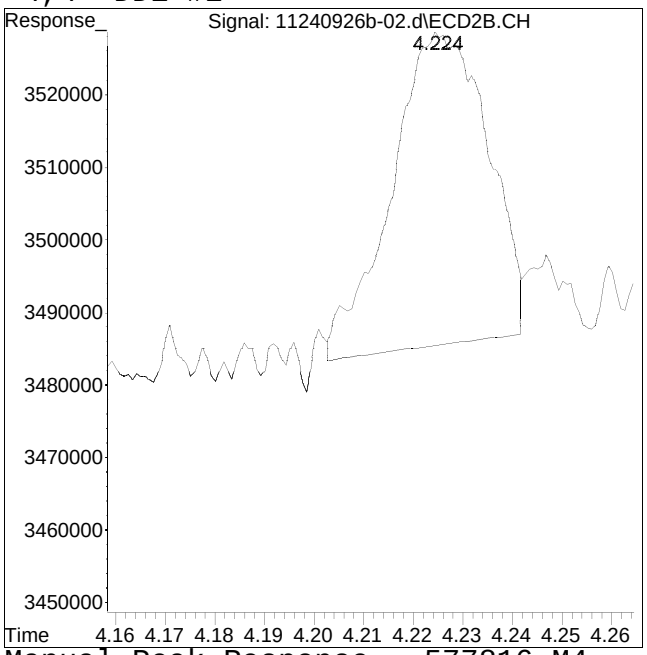
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-02.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:11 Instrument : Pest 11
Sample : pem11240926b-01,42,,deg115Quant Date : 9/26/2024 9:54 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 1613334



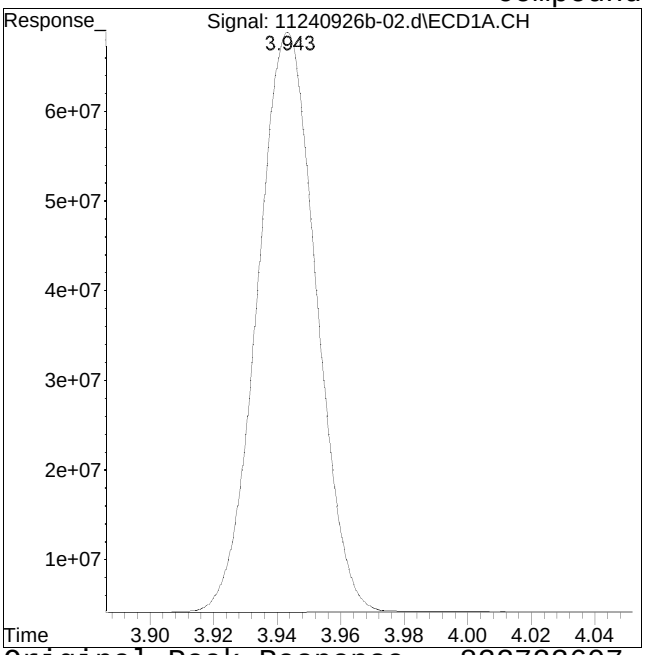
Manual Peak Response = 577816 M4

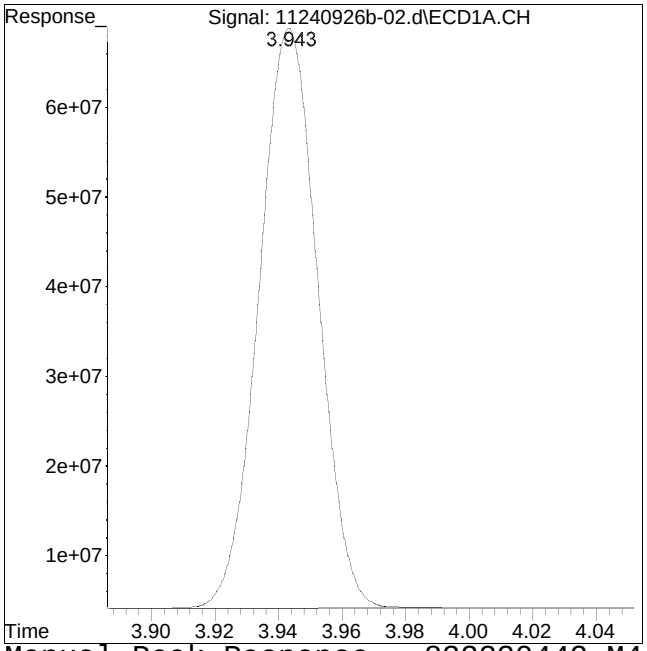
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-02.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:11 Instrument : Pest 11
Sample : pem11240926b-01,42,,deg115Quant Date : 9/26/2024 9:54 pm

Compound #18: Endrin



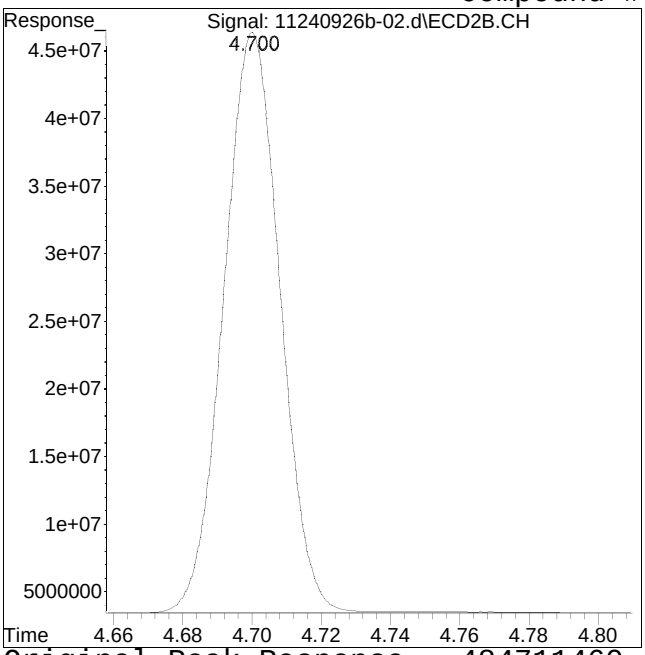


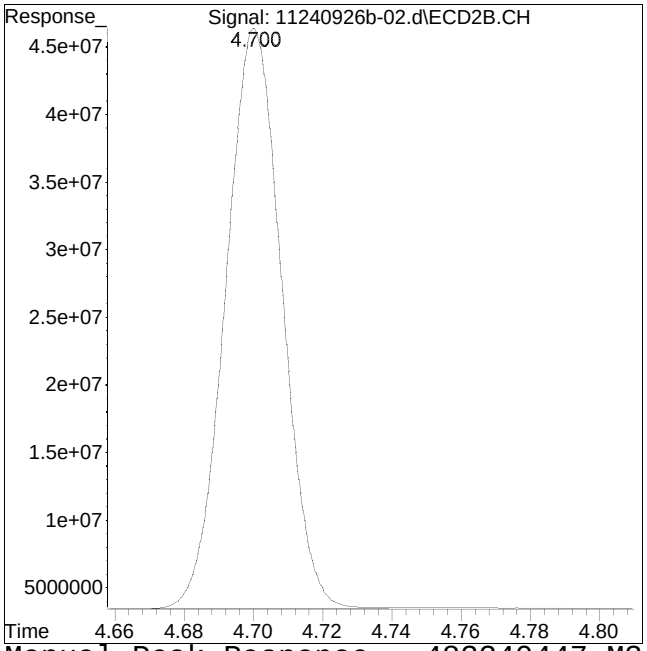
Original Peak Response = 832723607 Manual Peak Response = 832330442 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-02.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:11 Instrument : Pest 11
Sample : pem11240926b-01,42,,deg115Quant Date : 9/26/2024 9:54 pm

Compound #56: Endrin #2



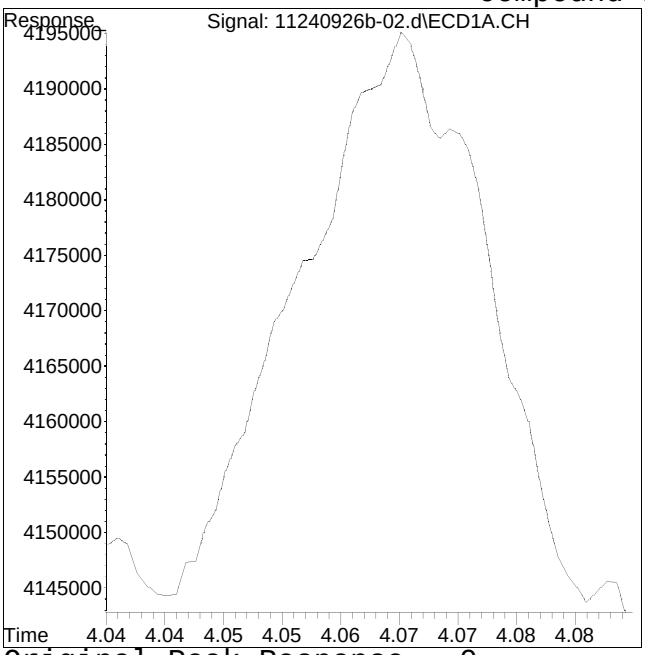


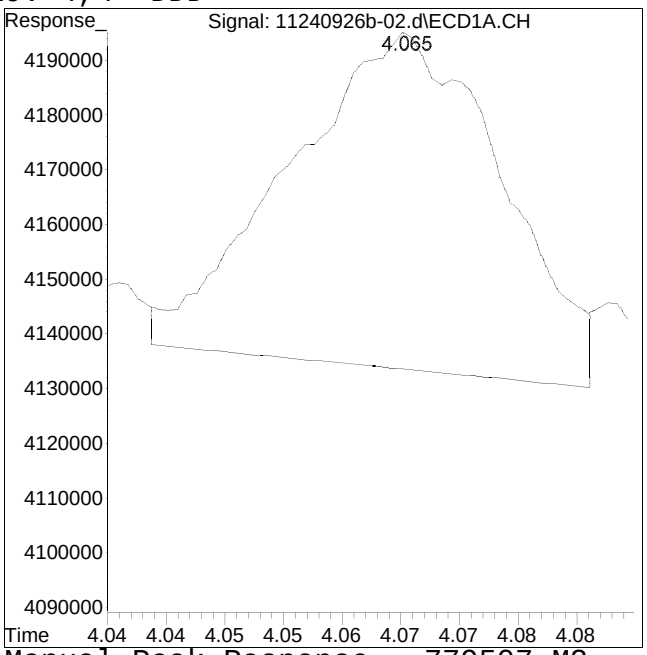
Original Peak Response = 484711460 Manual Peak Response = 483340447 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-02.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:11 Instrument : Pest 11
Sample : pem11240926b-01,42,,deg115Quant Date : 9/26/2024 9:54 pm

Compound #19: 4,4'-DDD



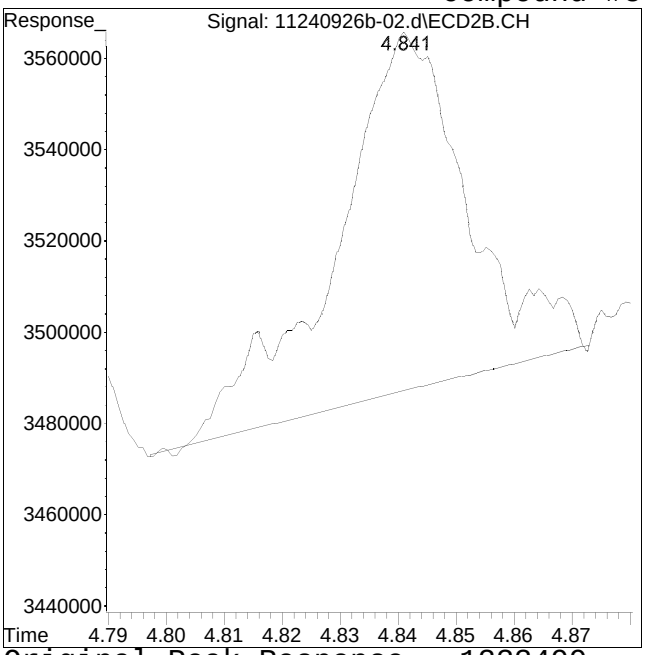


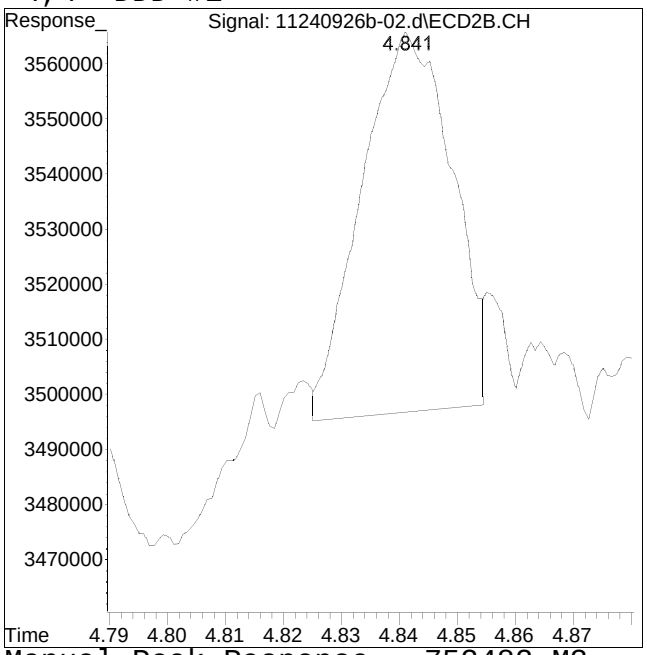
Original Peak Response = 0 Manual Peak Response = 779507 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-02.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:11 Instrument : Pest 11
Sample : pem11240926b-01,42,,deg115Quant Date : 9/26/2024 9:54 pm

Compound #57: 4,4'-DDD #2



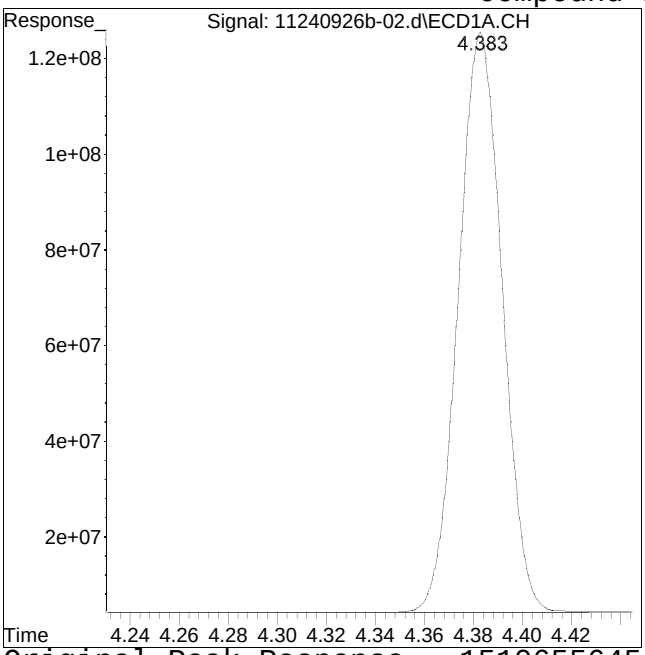


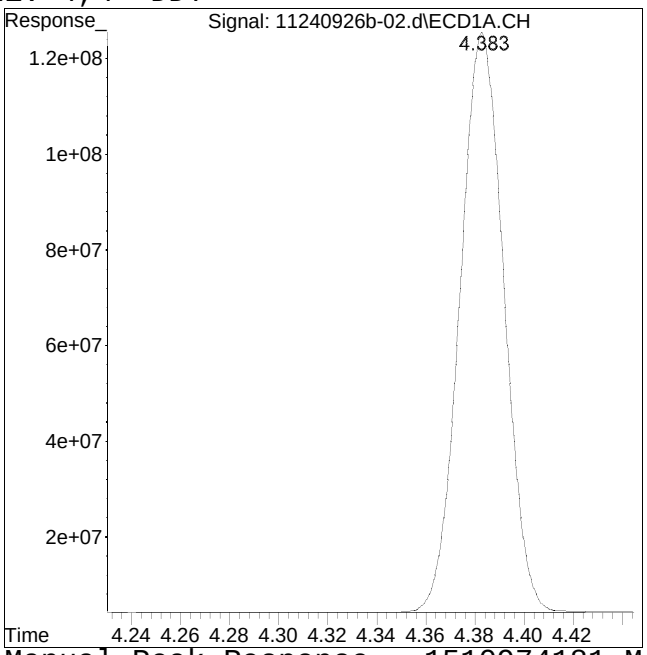
Original Peak Response = 1233499 Manual Peak Response = 752482 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926b-02.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 20:11 Instrument : Pest 11
Sample : pem11240926b-01,42,,deg115Quant Date : 9/26/2024 9:54 pm

Compound #21: 4,4'-DDT





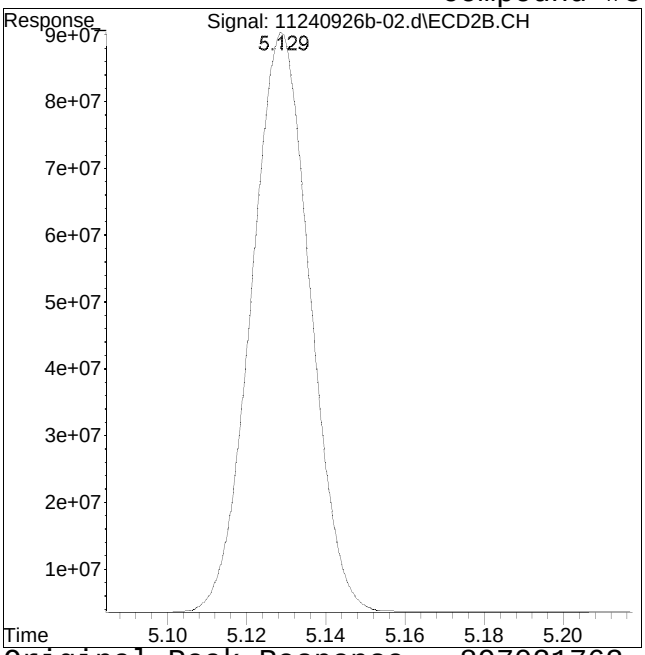
Original Peak Response = 1510655645 Manual Peak Response = 1510974181 M4
M4 = Poor automated baseline construction.

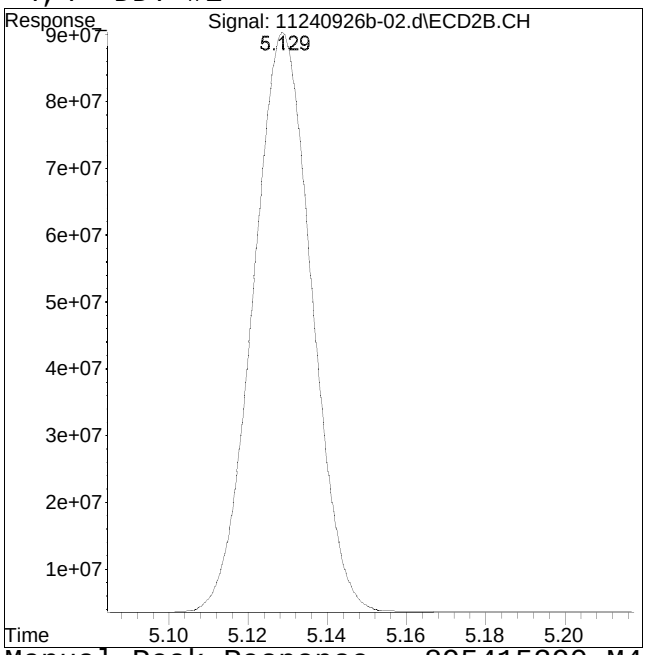
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926b-02.d
Date Inj'd : 9/26/2024 20:11
Sample : pem11240926b-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:jag
Instrument : Pest 11
Quant Date : 9/26/2024 9:54 pm

Compound #59: 4,4'-DDT #2





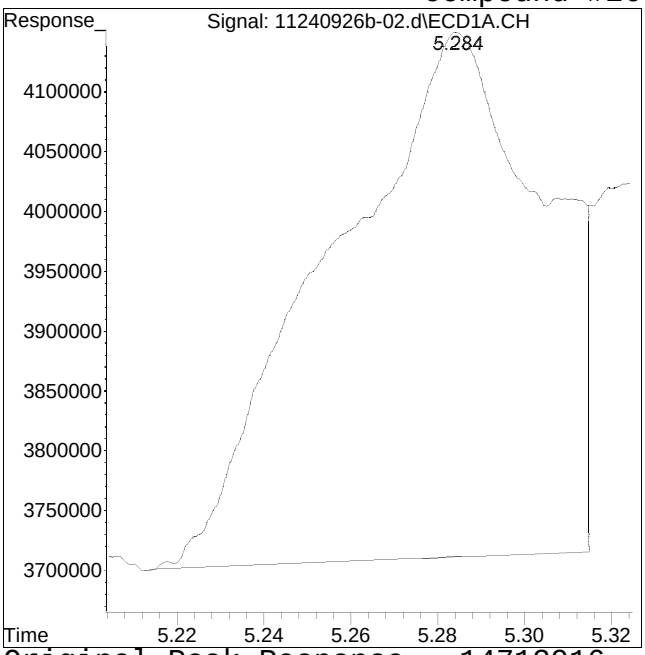
Original Peak Response = 897021763 Manual Peak Response = 895415390 M4
M4 = Poor automated baseline construction.

Manual Integration Report

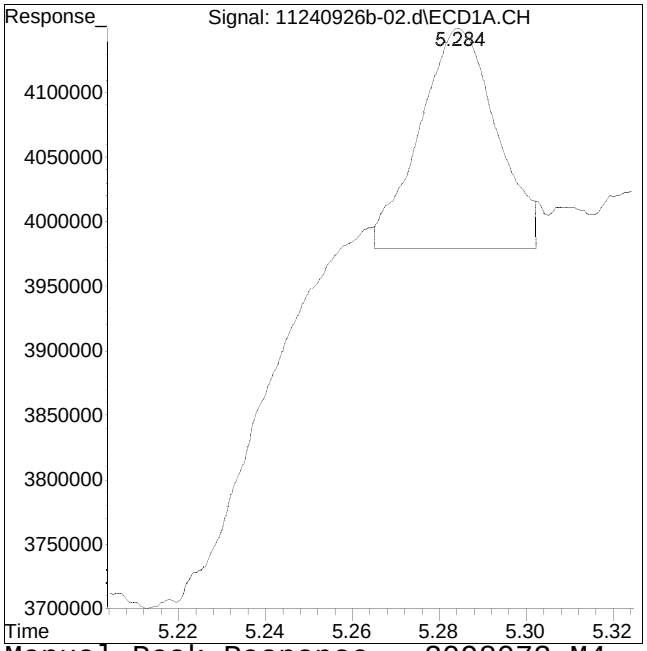
Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926b-02.d
Date Inj'd : 9/26/2024 20:11
Sample : pem11240926b-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:jag
Instrument : Pest 11
Quant Date : 9/26/2024 9:54 pm

Compound #26: Endrin Ketone



Original Peak Response = 14712916



Manual Peak Response = 2098073 M4

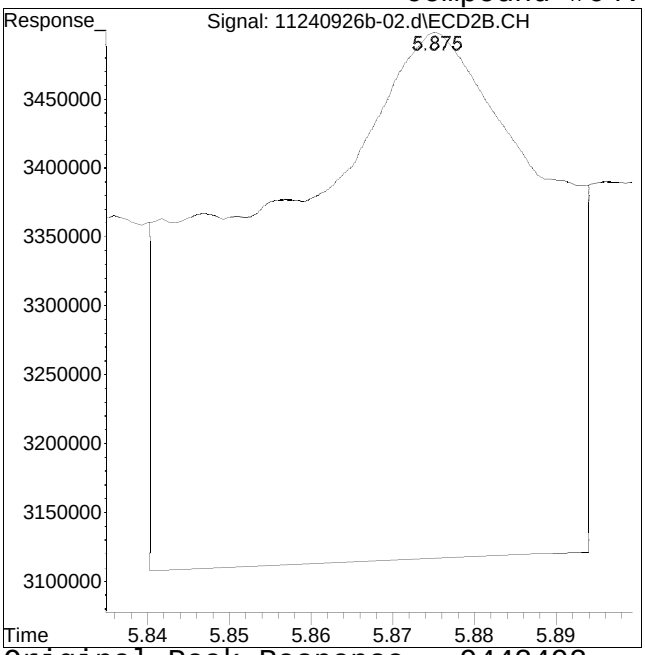
M4 = Poor automated baseline construction.

Manual Integration Report

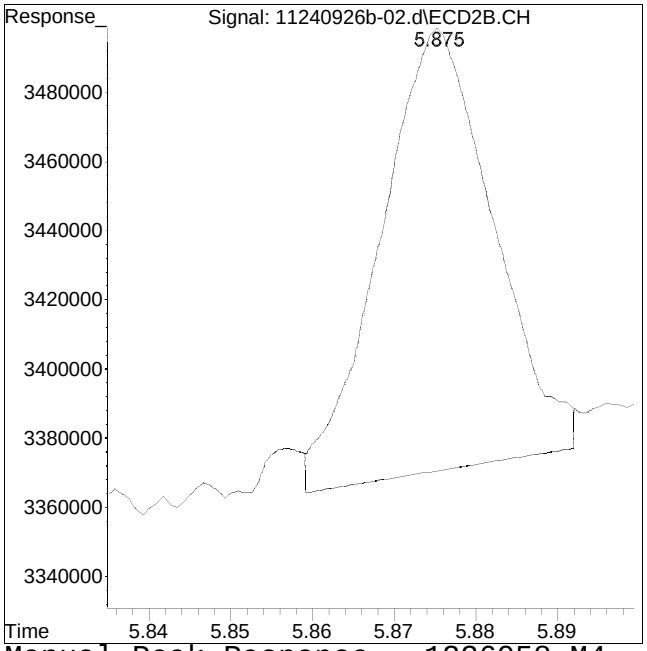
Data Path : I:\PEST\Pest11\2024\240926Q
Data File : 11240926b-02.d
Date Inj'd : 9/26/2024 20:11
Sample : pem11240926b-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:jag
Instrument : Pest 11
Quant Date : 9/26/2024 9:54 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 9442492



Manual Peak Response = 1226058 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 05:57
Operator : pest20:akm
Sample : pem20240930a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:31:30 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:31:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.891	1.946	66589722	117.0E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.683	5.368	159028	227700	0.045M2	0.041
18)	Endrin	5.239	5.809	175.1E6	279.7E6	50.880M4	50.445
19)	4,4'-DDD	5.337	5.924	216917	354656	0.075M2	0.077
21)	4,4'-DDT	5.613	6.195	315.1E6	502.7E6	112.573	96.845
22)	Endrin Aldeh	5.865	0.000	258404	0	N.D. M2	N.D. d
26)	Endrin Keton	6.471	6.931	463105	679420	0.136M2	0.122
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 05:57
Operator : pest20:akm
Sample : pem20240930a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:31:30 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:31:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

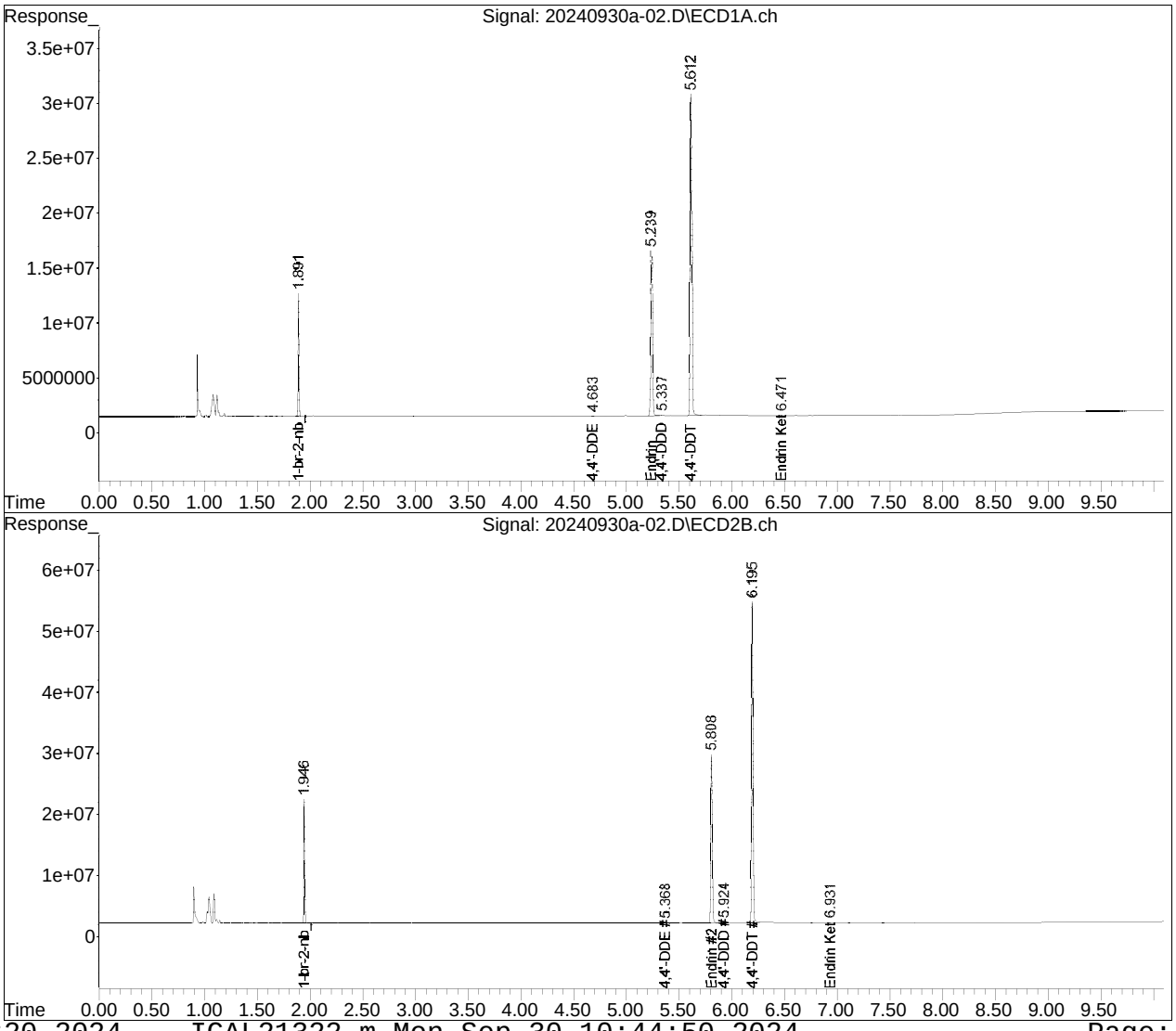
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest20\2024\240930a\
Data File : 20240930a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Sep 2024 05:57
Operator : pest20:akm
Sample : pem20240930a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977952,,ical21322
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 30 06:31:30 2024
Quant Method : I:\PEST\Pest20\2024\240930a\pest20_2024_07_22_ugL_ICAL21322.m
Quant Title : pest
QLast Update : Mon Sep 30 06:31:06 2024
Response via : Initial Calibration
Integrator: ChemStation

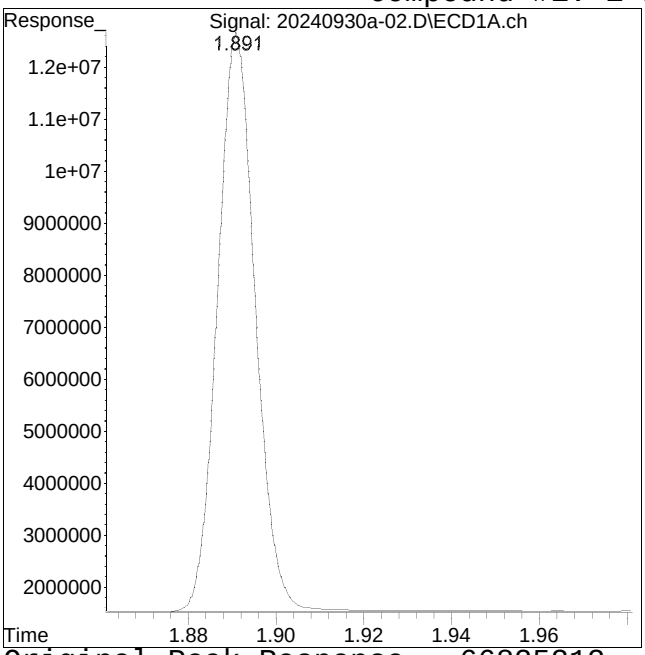
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



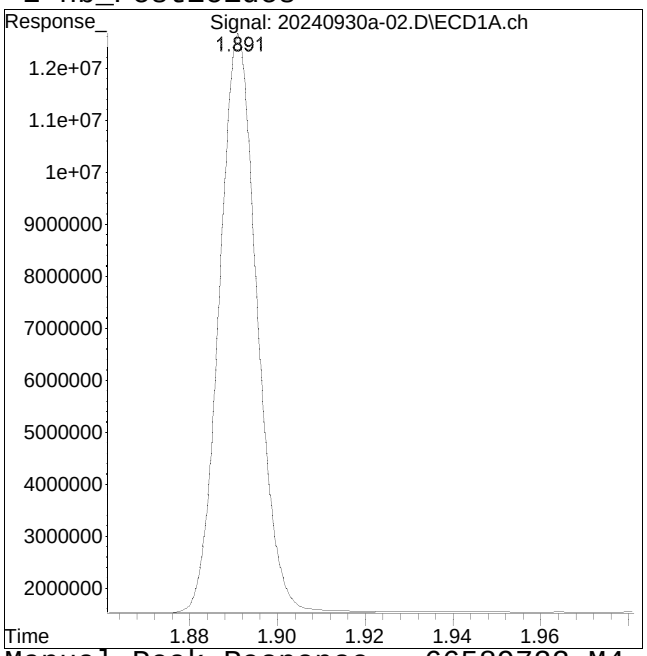
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930Q
Data File : 20240930a-02.D
Date Inj'd : 9/30/2024 5:57
Sample : pem20240930a-01,42,,deg115
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:akm
Instrument : PEST 20
Quant Date : 9/30/2024 6:31 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 66825212



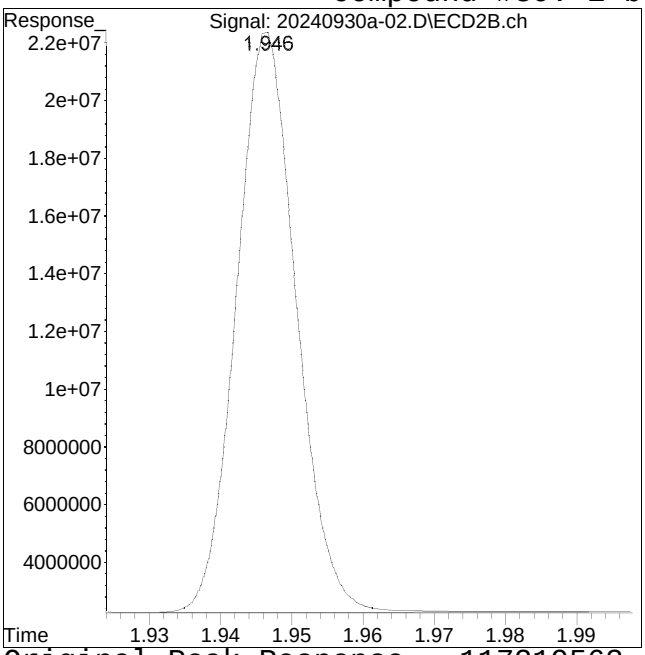
Manual Peak Response = 66589722 M4

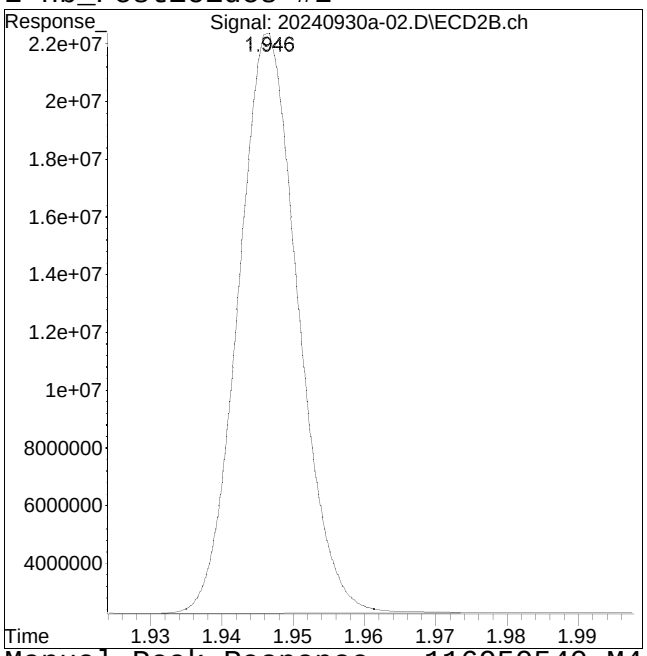
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930Q
Data File : 20240930a-02.D
Date Inj'd : 9/30/2024 5:57
Sample : pem20240930a-01,42,,deg115
Method : pest20_2024_07_22_ugL_IC
Operator : pest20:akm
Instrument : PEST 20
Quant Date : 9/30/2024 6:31 am

Compound #39: 1-br-2-nb_Pesticides #2





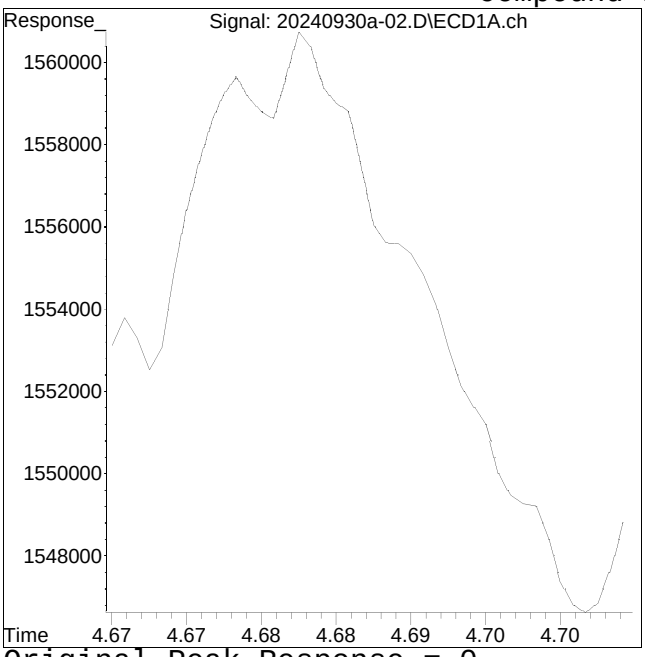
Original Peak Response = 117219563 Manual Peak Response = 116950540 M4
M4 = Poor automated baseline construction.

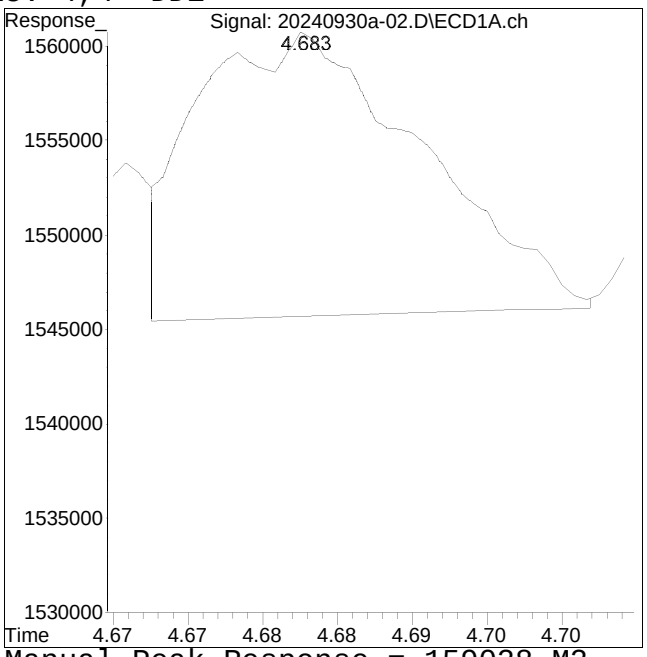
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930Q
Data File : 20240930a-02.D
Date Inj'd : 9/30/2024 5:57
Sample : pem20240930a-01,42,,deg115

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:akm
Instrument : PEST 20
Quant Date : 9/30/2024 6:31 am

Compound #15: 4,4'-DDE



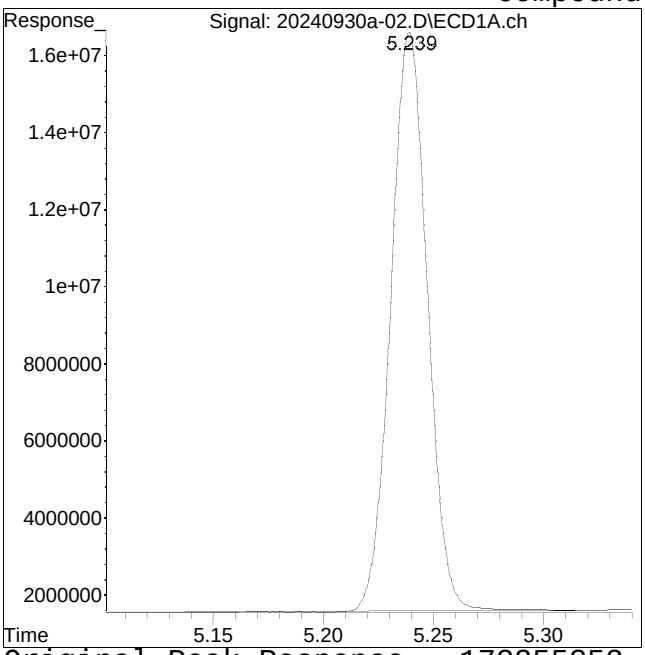


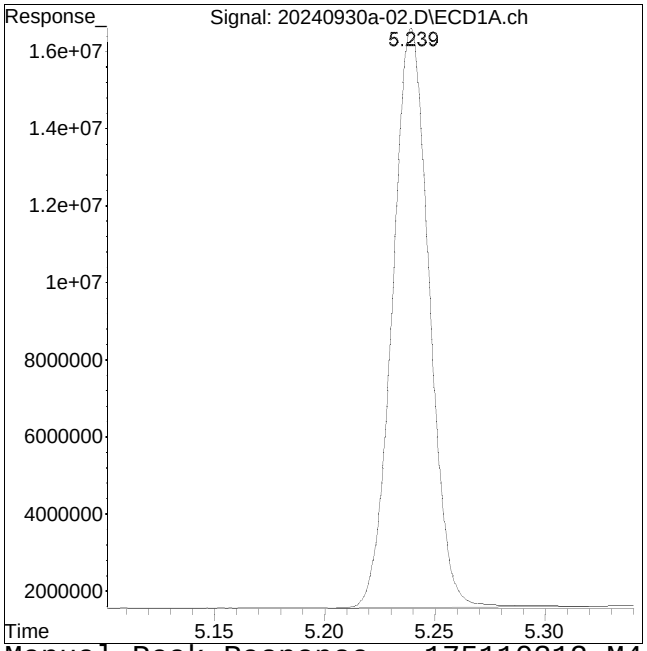
Original Peak Response = 0
Manual Peak Response = 159028 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-02.D Operator : pest20:akm
Date Inj'd : 9/30/2024 5:57 Instrument : PEST 20
Sample : pem20240930a-01,42,,deg115Quant Date : 9/30/2024 6:31 am

Compound #18: Endrin



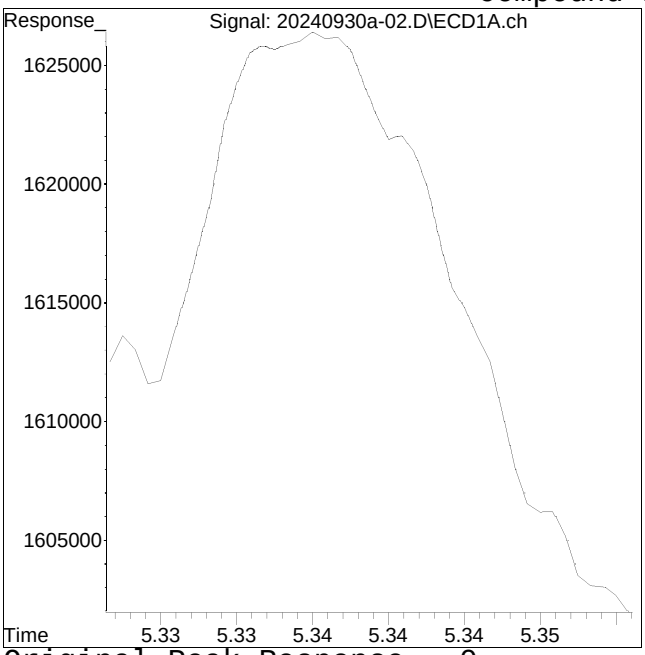


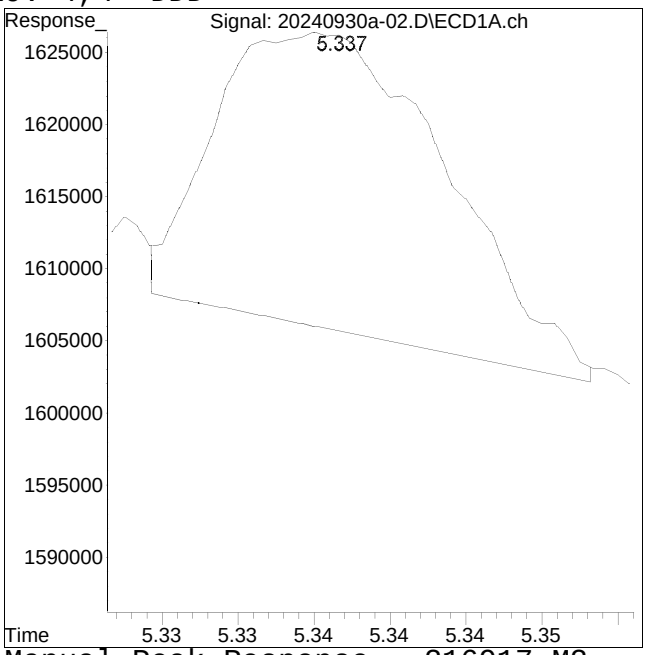
Original Peak Response = 173255352 Manual Peak Response = 175110312 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-02.D Operator : pest20:akm
Date Inj'd : 9/30/2024 5:57 Instrument : PEST 20
Sample : pem20240930a-01,42,,deg115Quant Date : 9/30/2024 6:31 am

Compound #19: 4,4'-DDD





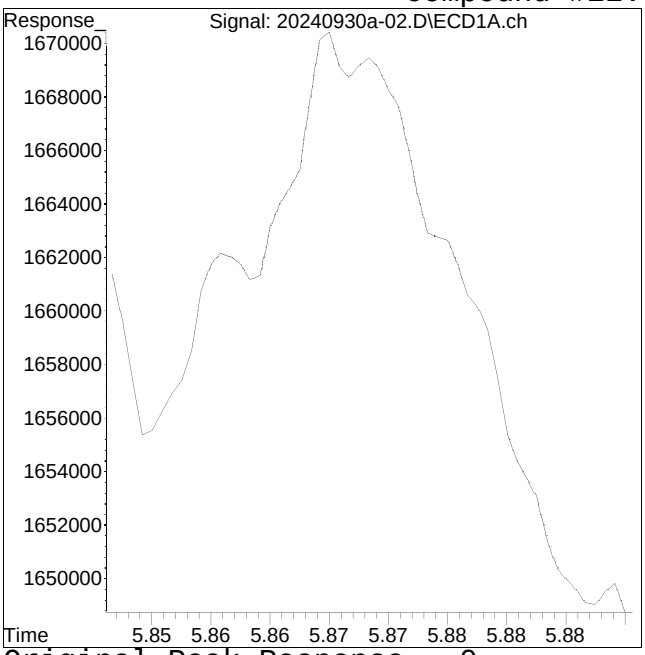
Original Peak Response = 0 Manual Peak Response = 216917 M2
M2 = Peak not found by automatic integration algorithm.

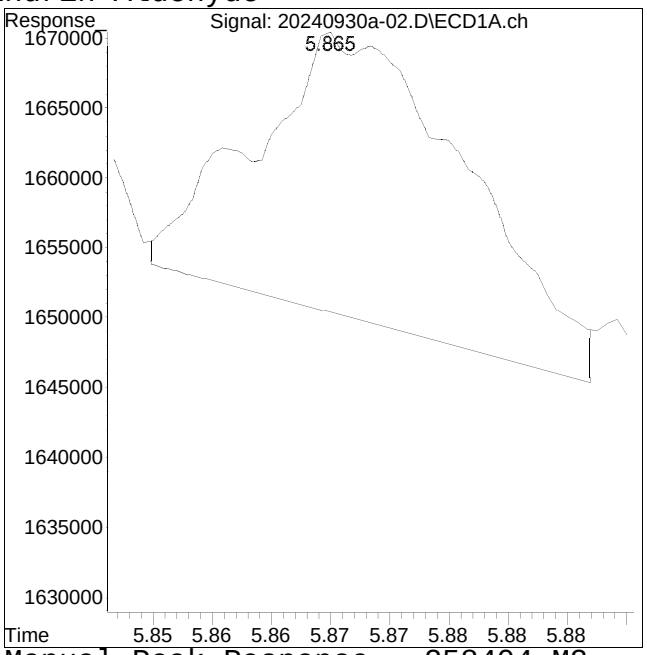
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930Q
Data File : 20240930a-02.D
Date Inj'd : 9/30/2024 5:57
Sample : pem20240930a-01,42,,deg115

Method : pest20_2024_07_22_ugL_IC
Operator : pest20:akm
Instrument : PEST 20
Quant Date : 9/30/2024 6:31 am

Compound #22: Endrin Aldehyde



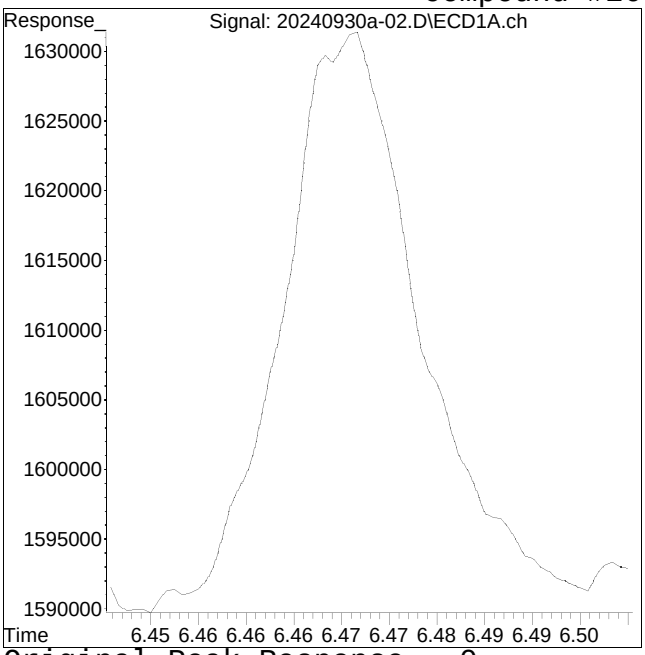


Original Peak Response = 0
Manual Peak Response = 258404 M2
M2 = Peak not found by automatic integration algorithm.

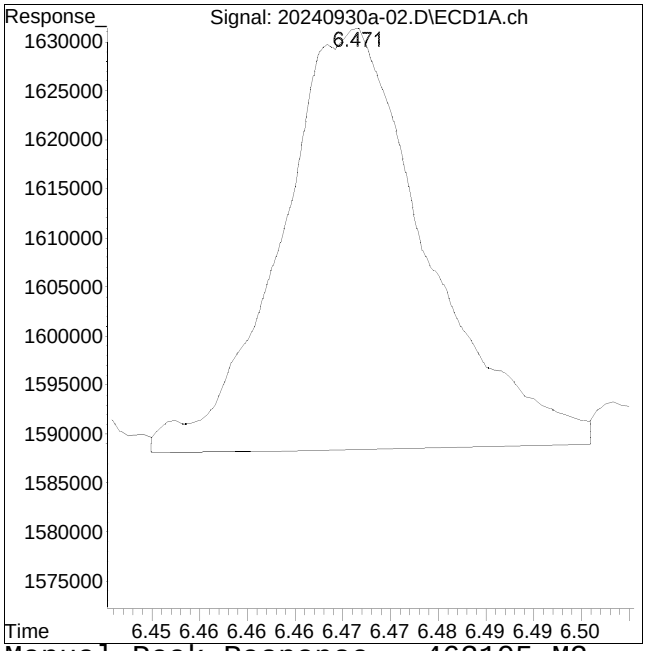
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240930QMethod : pest20_2024_07_22_ugL_IC
Data File : 20240930a-02.D Operator : pest20:akm
Date Inj'd : 9/30/2024 5:57 Instrument : PEST 20
Sample : pem20240930a-01,42,,deg115Quant Date : 9/30/2024 6:31 am

Compound #26: Endrin Ketone



Original Peak Response = 0



Manual Peak Response = 463105 M2

M2 = Peak not found by automatic integration algorithm.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: L2454059-01		
Client ID	: MW-4S		
Date Analyzed (1)	: 09/26/24 22:24	**Date Analyzed (2)**	: 09/26/24 22:24
Instrument ID (1)	: PEST11	**Instrument ID (2)**	: PEST11
GC Column (1)	: CLPPesticides	**GC Column (2)**	: CLPPesticidesII

			RT Window			
Analyte	**Col**	**RT**	**From**	**To**	**Concentration**	**RPD**
4,4'-DDT	**1**	**4.38**	**4.34**	**4.44**	**0.00657J**	
	2	**5.13**	**5.08**	**5.18**	**0.00578J**	**NC**

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:13
Operator : PEST11:jag
Sample : WG1976222-1,42,, 222 (Sig #1); WG1976220-1,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:35 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240926A\11240926a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.187	1.259	311.9E6	216.5E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 317036447				Recovery = 98.39%		
	Standard Area 1 : #2 = 201988191				Recovery = 107.20%		
28) i	1-br-2-nb_Ch	1.187	1.259	311.9E6	216.5E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.187	1.259	311.9E6	216.5E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.515	1.706	419.8E6	279.2E6	32.385M3	28.951M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 64.77%		57.90%
27) s	Decachlorobi	6.120	6.756	401.4E6	229.5E6	27.664M4	25.000M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 55.33%		50.00%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:13
Operator : PEST11:jag
Sample : WG1976222-1,42,, 222 (Sig #1); WG1976220-1,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:35 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240926A\11240926a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

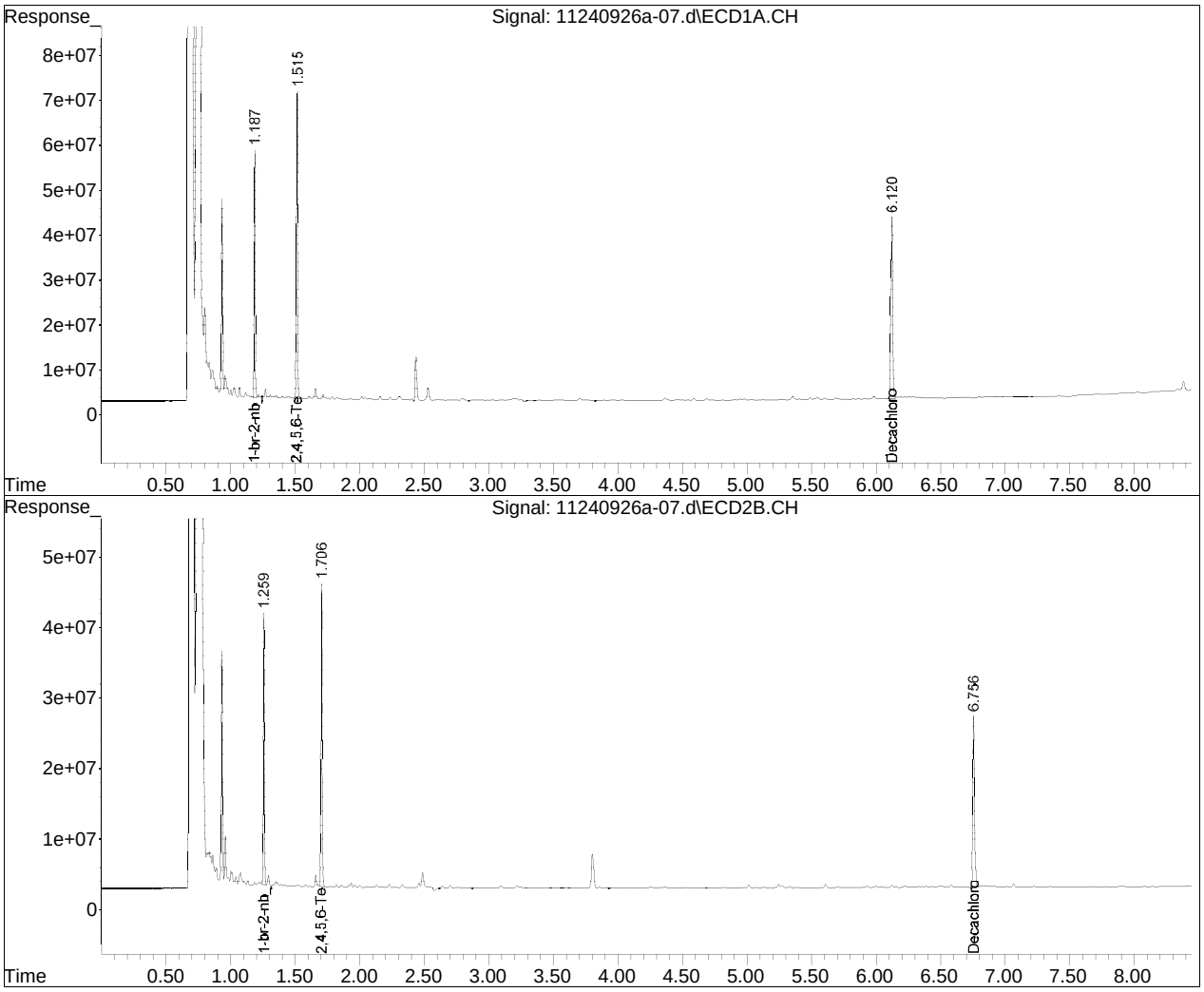
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240926a-03.d•

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:13
Operator : PEST11:jag
Sample : WG1976222-1,42,, 222 (Sig #1); WG1976220-1,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:35 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

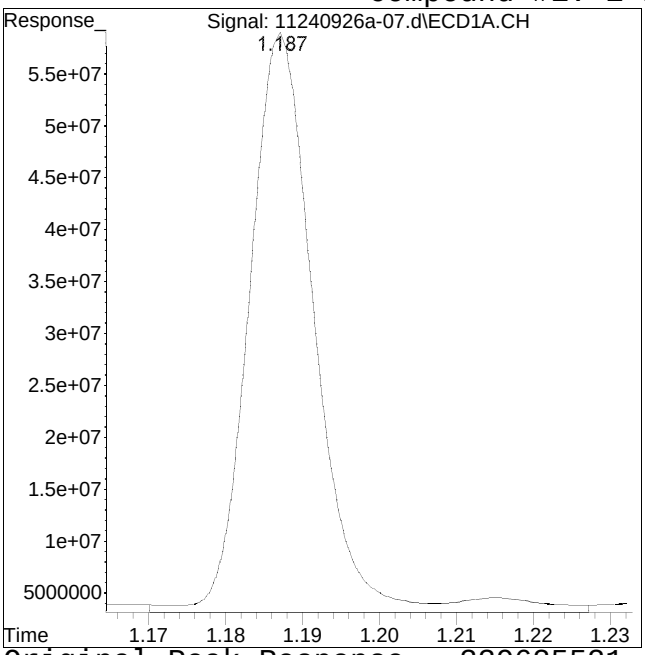
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

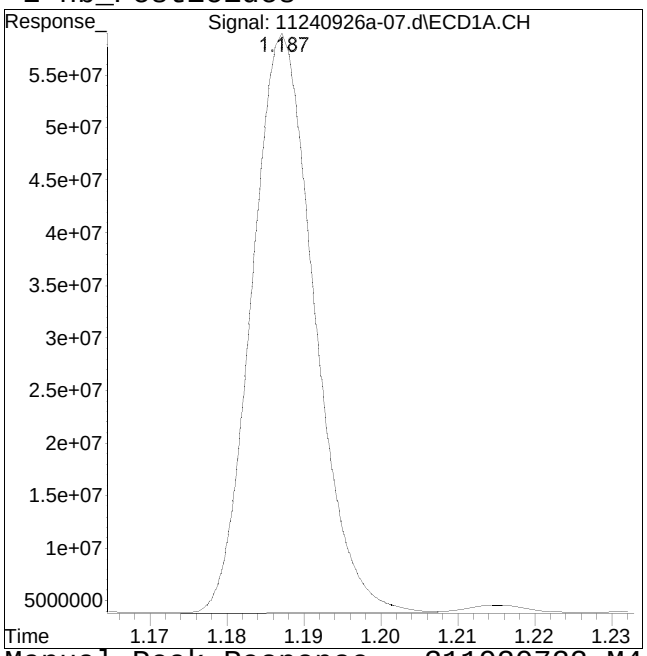


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #1: 1-br-2-nb_Pesticides



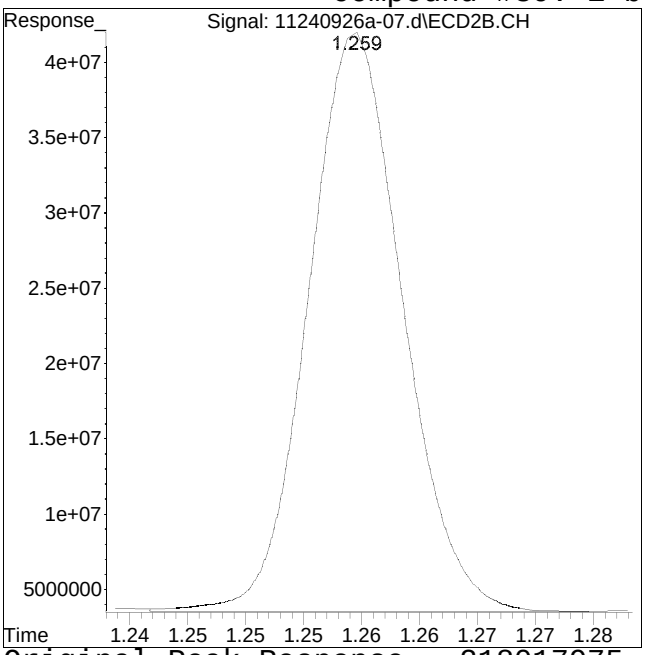


Original Peak Response = 339625521 Manual Peak Response = 311920722 M4
M4 = Poor automated baseline construction.

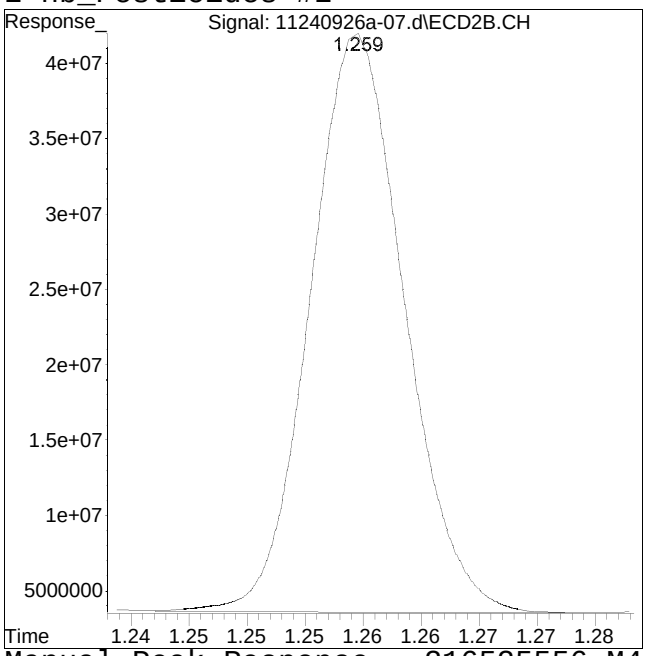
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 218017975



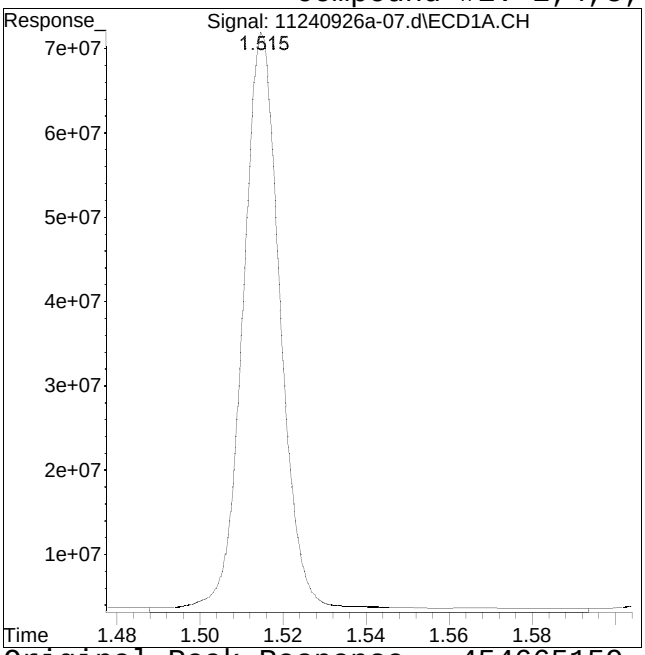
Manual Peak Response = 216525556 M4

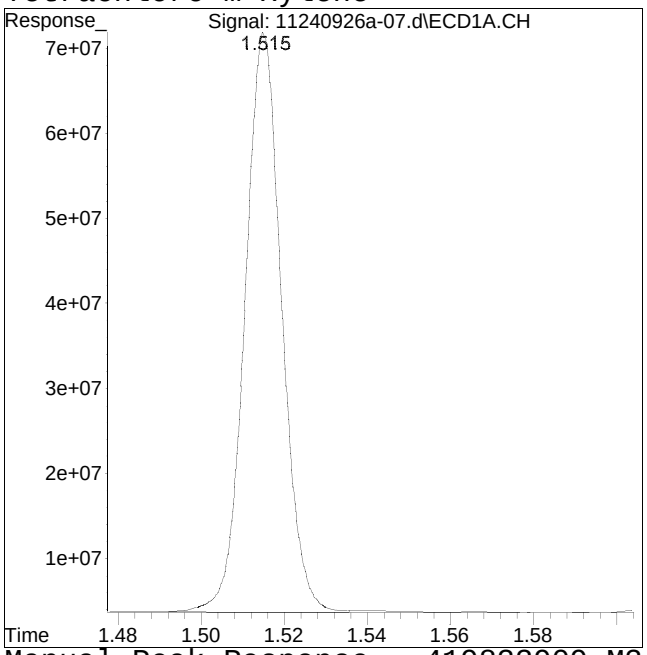
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



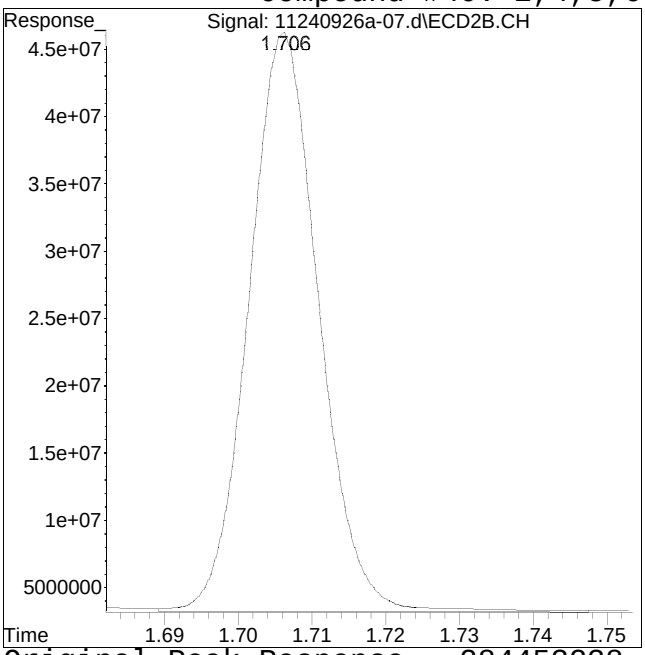


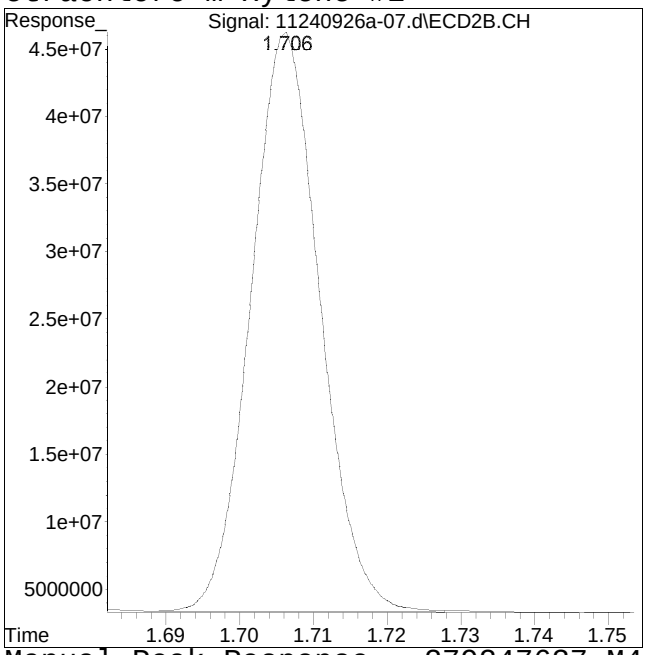
Original Peak Response = 454665159 Manual Peak Response = 419833909 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



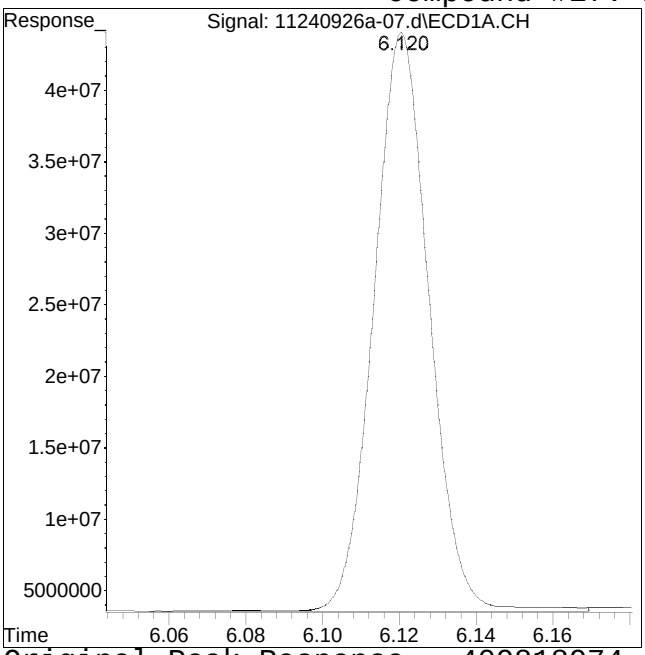


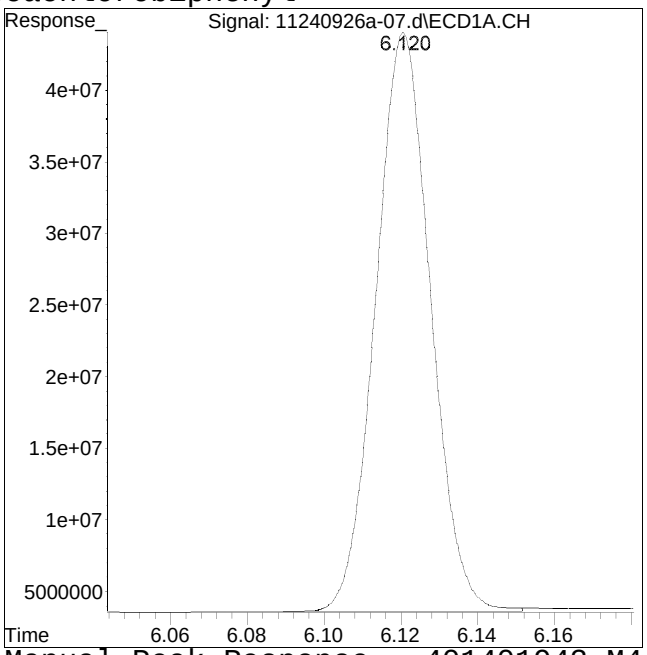
Original Peak Response = 284453238 Manual Peak Response = 279247637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #27: Decachlorobiphenyl



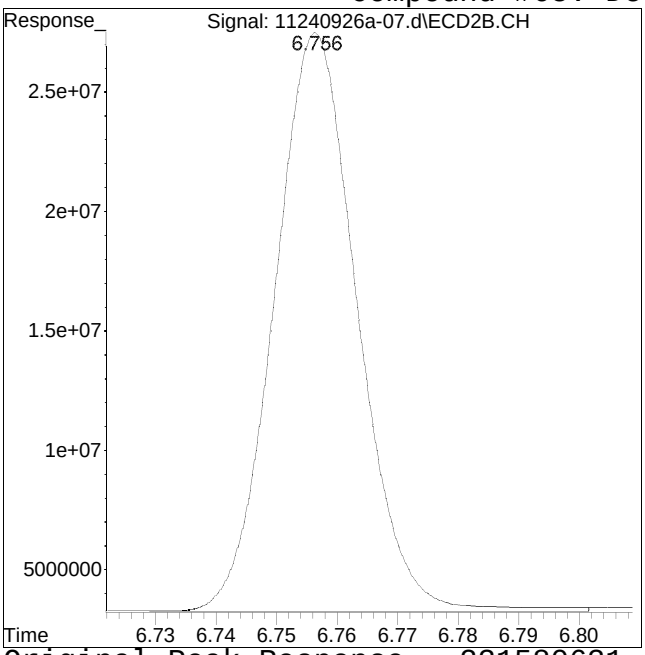


Original Peak Response = 409818974 Manual Peak Response = 401401943 M4
M4 = Poor automated baseline construction.

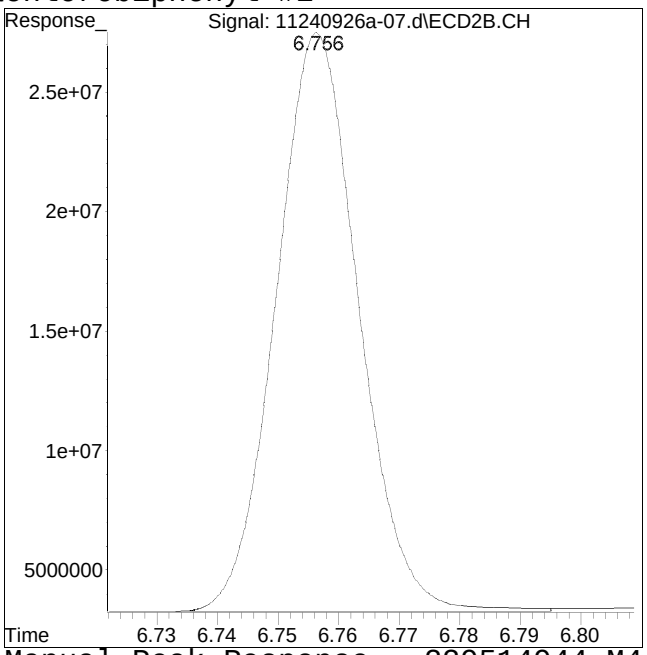
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 231580631



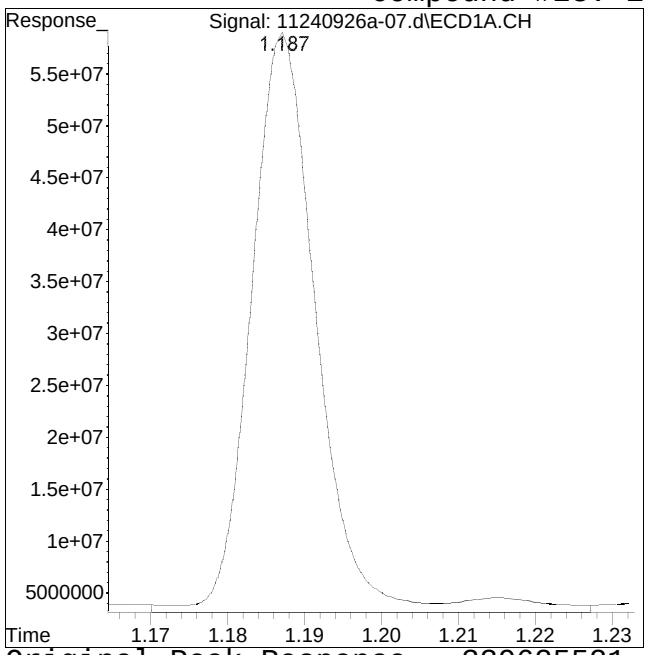
Manual Peak Response = 229514944 M4

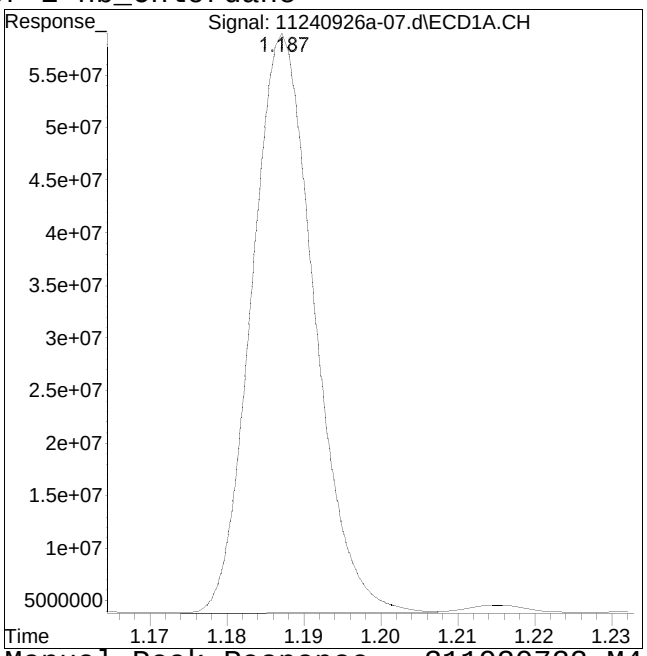
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #28: 1-br-2-nb_Chlordane



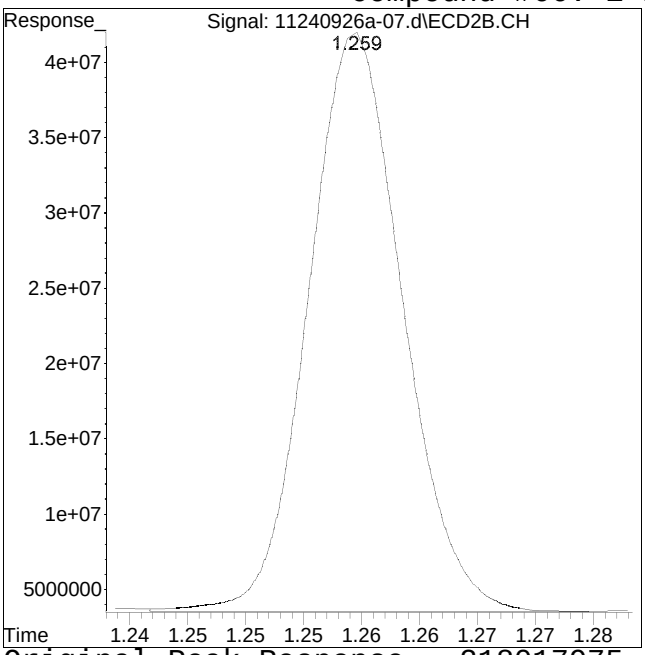


Original Peak Response = 339625521 Manual Peak Response = 311920722 M4
M4 = Poor automated baseline construction.

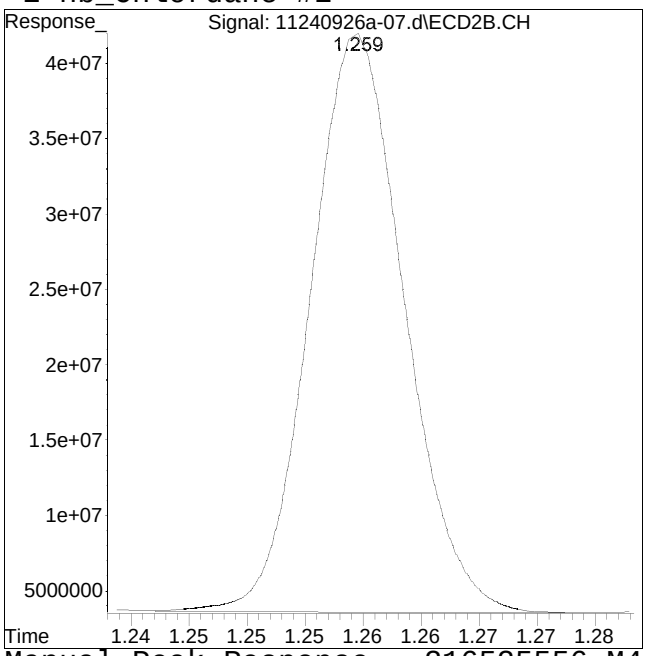
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 218017975



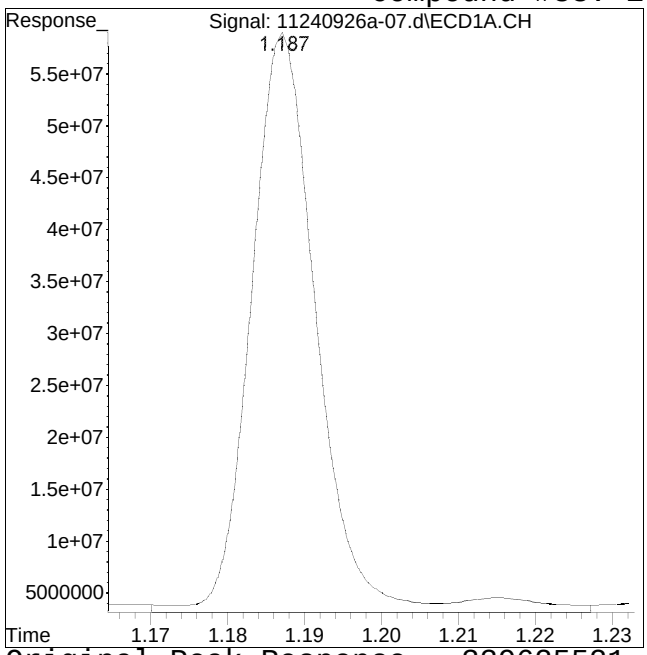
Manual Peak Response = 216525556 M4

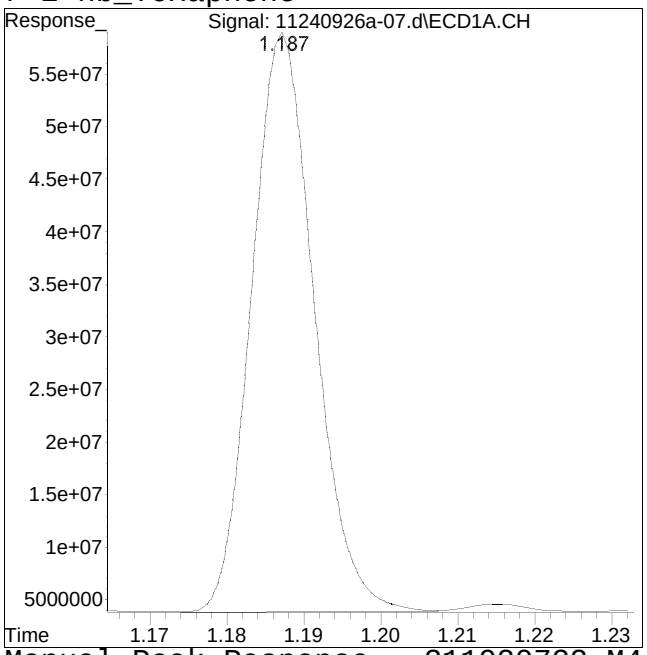
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #33: 1-br-2-nb_Toxaphene



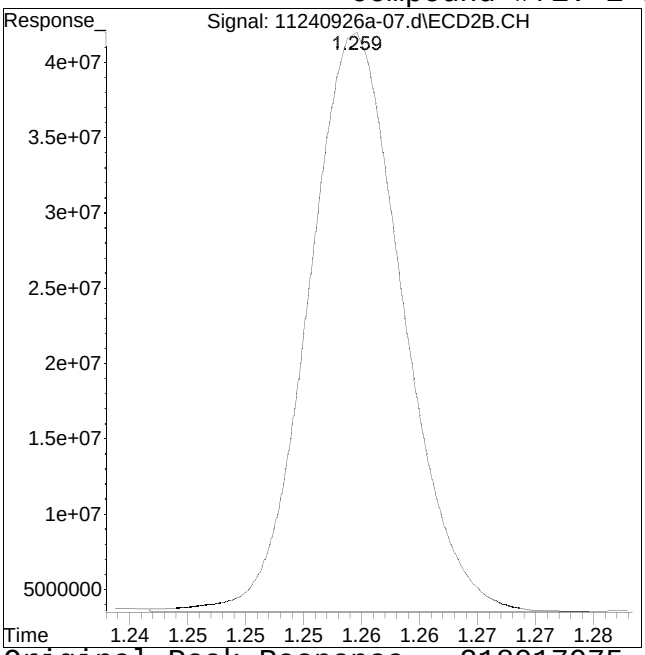


Original Peak Response = 339625521 Manual Peak Response = 311920722 M4
M4 = Poor automated baseline construction.

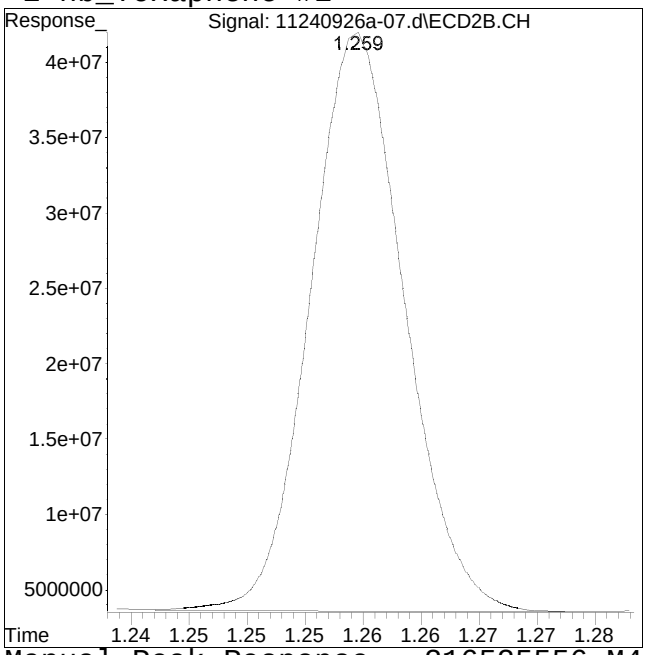
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-07.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:13 Instrument : Pest 11
Sample : WG1976222-1,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 218017975



Manual Peak Response = 216525556 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:25
Operator : PEST11:jag
Sample : WG1976222-2,42,, 222 (Sig #1); WG1976220-2,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:37 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240926A\11240926a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.188	1.261	298.7E6	203.7E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 317036447				Recovery = 94.23%		
	Standard Area 1 : #2 = 201988191				Recovery = 100.84%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.515	1.707	493.5E6	327.8E6	39.743M4	36.129M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 79.49%		72.26%	
27) s	Decachlorobi	6.118	6.753	484.1E6	268.5E6	34.831M4	31.088M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 69.66%		62.18%	
Target Compounds							
4) t	alpha-BHC	1.809	2.096	732.5E6	487.2E6	41.968M4	36.919M4
5) t	gamma-BHC (l	1.999	2.365	684.1E6	443.8E6	41.027M4	35.397M4
6) t	beta-BHC	2.053	2.430	295.6E6	193.5E6	39.398M4	37.492M4
7) t	delta-BHC	2.174	2.682	628.9E6	391.5E6	38.300M4	31.553M4
8) t	Heptachlor	2.328	2.739	675.9E6	410.2E6	42.816M4	31.516M4
9) t	Aldrin	2.557	3.041	571.5E6	377.4E6	38.779M4	32.281M4
12) t	Heptachlor E	3.076	3.630	560.6E6	360.8E6	39.572M4	31.067M4
13) t	gamma-Chlord	3.196	3.843	586.4E6	371.6E6	45.568M4	34.773M4
14) t	alpha-Chlord	3.325	4.011	541.0E6	366.0E6	37.223M4	31.073M4
15) t	4,4'-DDE	3.422	4.229	563.8E6	359.0E6	39.595M4	32.823M4
16) t	Endosulfan I	3.453	4.073	539.6E6	348.3E6	40.457M4	32.094M4
17) t	Dieldrin	3.704	4.389	613.7E6	388.3E6	45.242	35.909M4
18) t	Endrin	3.950	4.704	583.4E6	365.6E6	42.353M4	33.325M4
19) t	4,4'-DDD	4.072	4.844	482.5E6	308.2E6	43.543M4	34.901M4
20) t	Endosulfan I	4.204	4.915	532.1E6	333.9E6	42.328M4	33.778M4
21) t	4,4'-DDT	4.389	5.132	527.8E6	326.2E6	41.730M4	32.028M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:25
Operator : PEST11:jag
Sample : WG1976222-2,42,, 222 (Sig #1); WG1976220-2,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:37 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240926A\11240926a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.648	5.224	381.4E6	246.5E6	36.004M4	32.264M4
23) t Methoxychlor	4.909	5.717	300.9E6	180.3E6	42.541M4	31.418M4
25) t Endosulfan S	5.056	5.460	513.7E6	315.9E6	42.577M4	32.335M4
26) t Endrin Keton	5.289	5.878	594.6E6	369.2E6	42.053M4	35.947M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

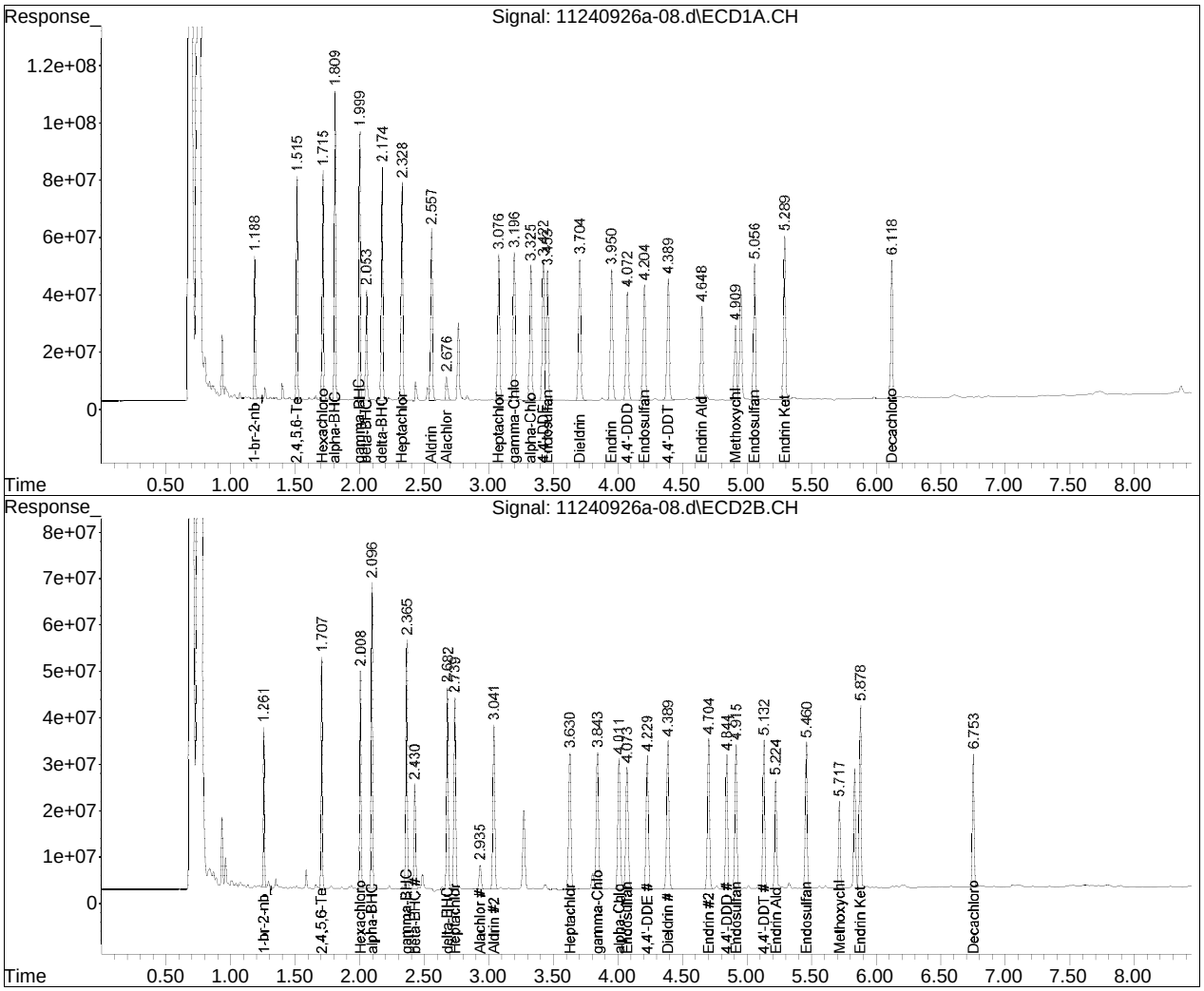
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240926A\11240926a-03.d•

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:25
Operator : PEST11:jag
Sample : WG1976222-2,42,, 222 (Sig #1); WG1976220-2,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:37 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

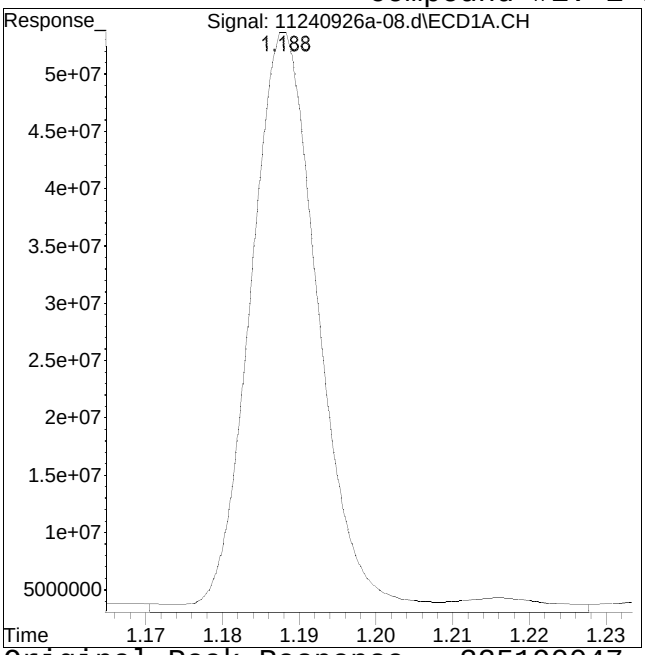
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



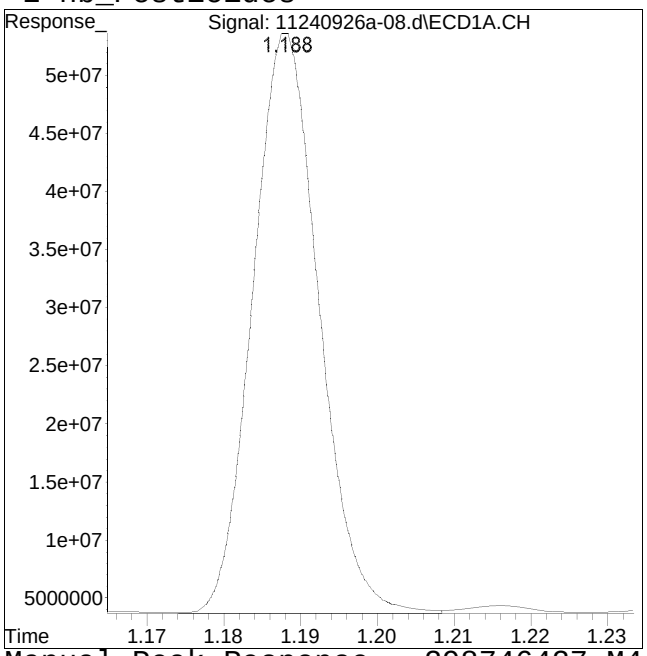
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 325190047



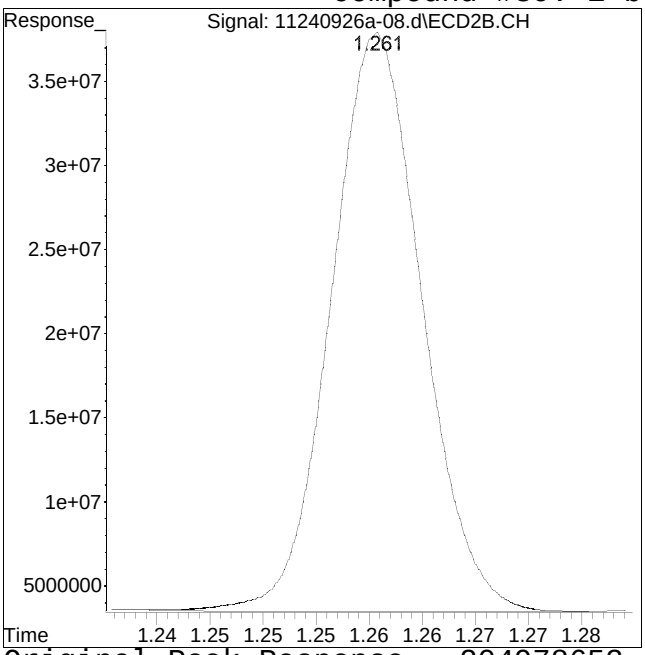
Manual Peak Response = 298746427 M4

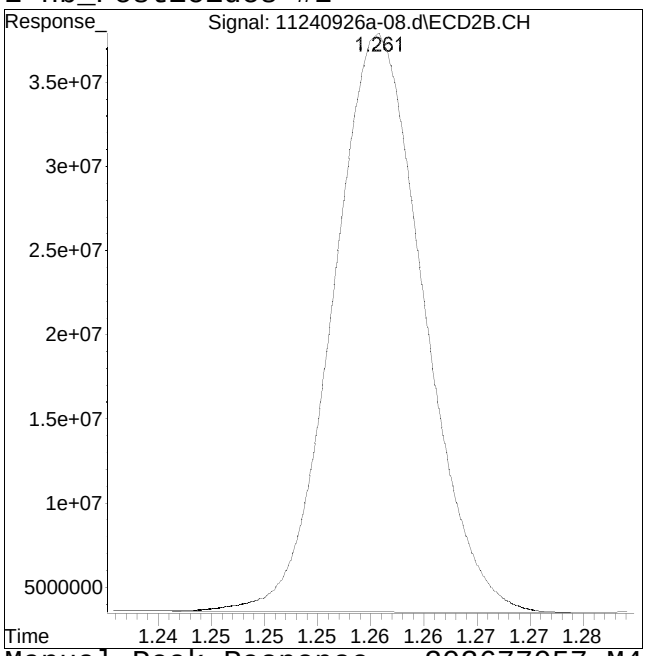
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #39: 1-br-2-nb_Pesticides #2



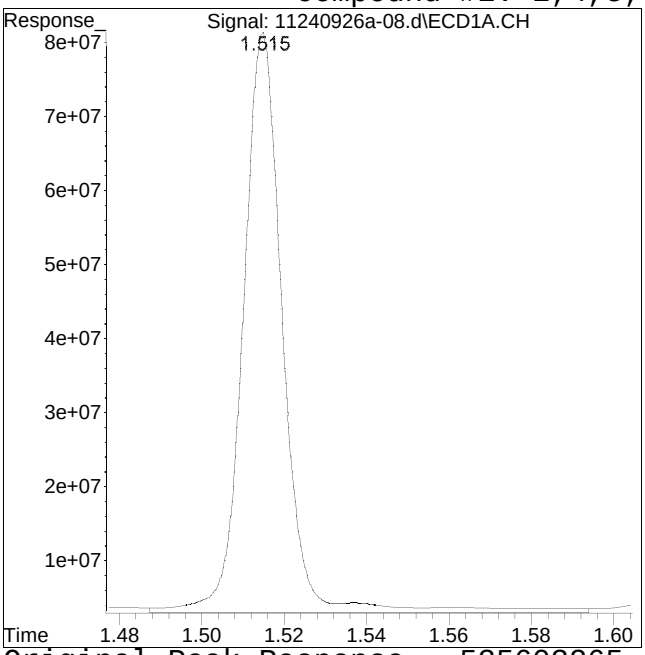


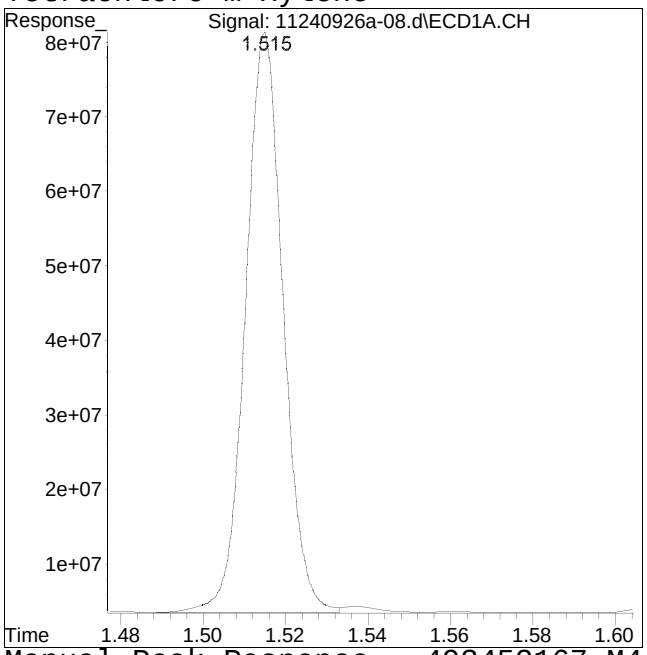
Original Peak Response = 204978653 Manual Peak Response = 203677057 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



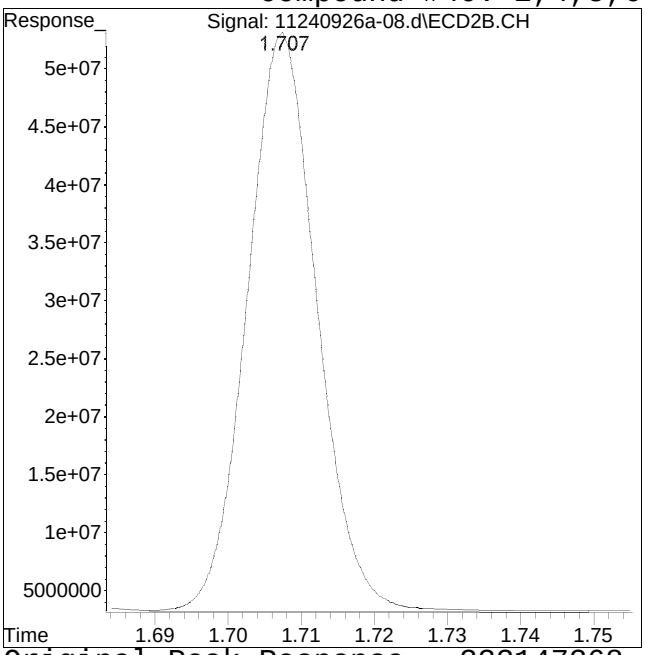


Original Peak Response = 535603265 Manual Peak Response = 493452167 M4
M4 = Poor automated baseline construction.

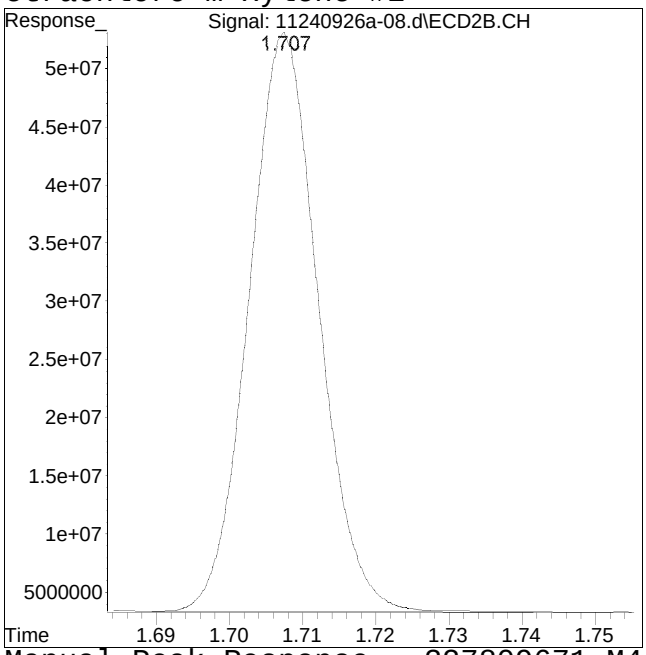
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 333147368



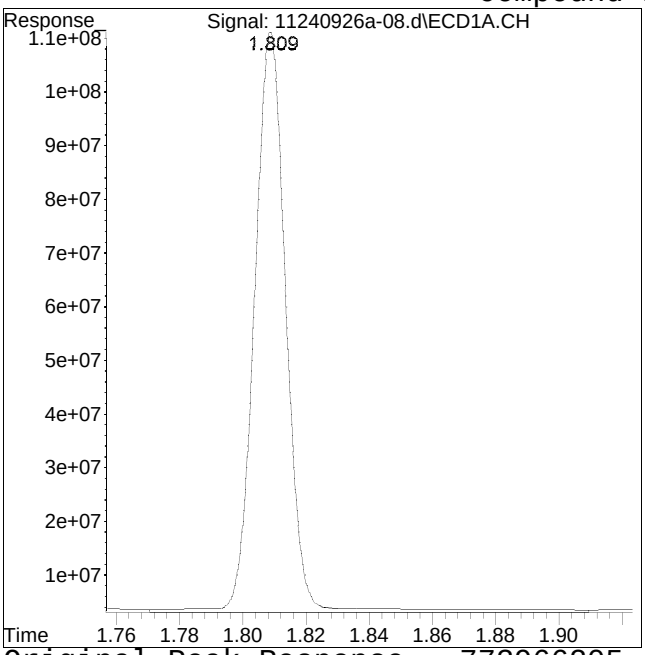
Manual Peak Response = 327809671 M4

M4 = Poor automated baseline construction.

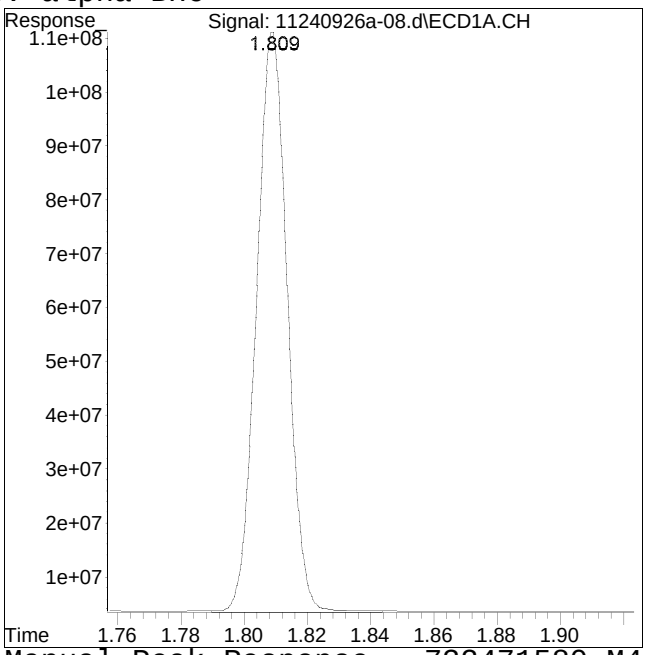
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #4: alpha-BHC



Original Peak Response = 773966205



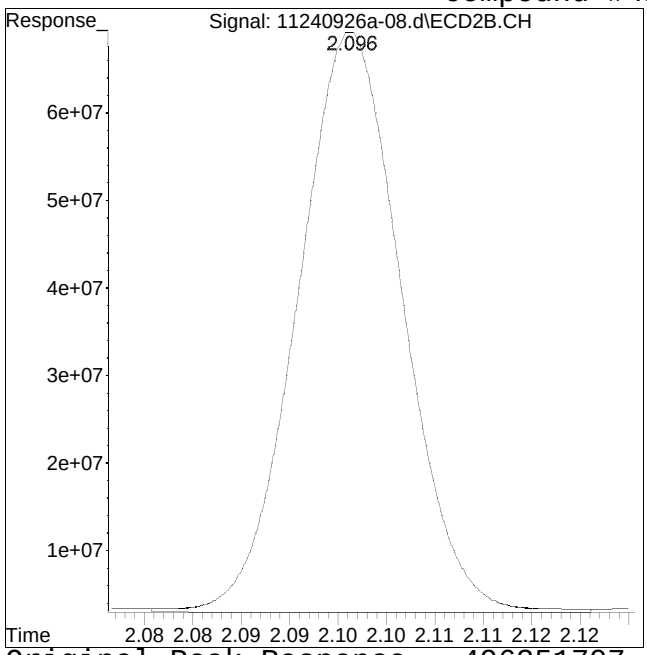
Manual Peak Response = 732471580 M4

M4 = Poor automated baseline construction.

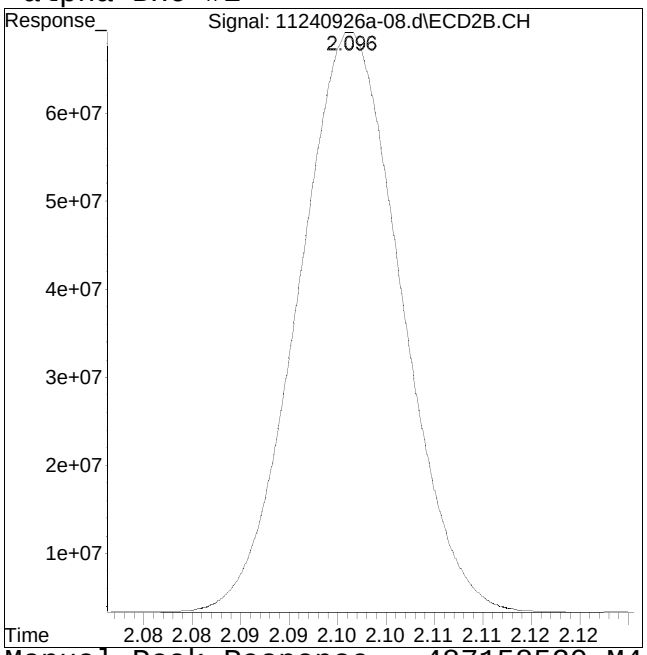
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #42: alpha-BHC #2



Original Peak Response = 496351707



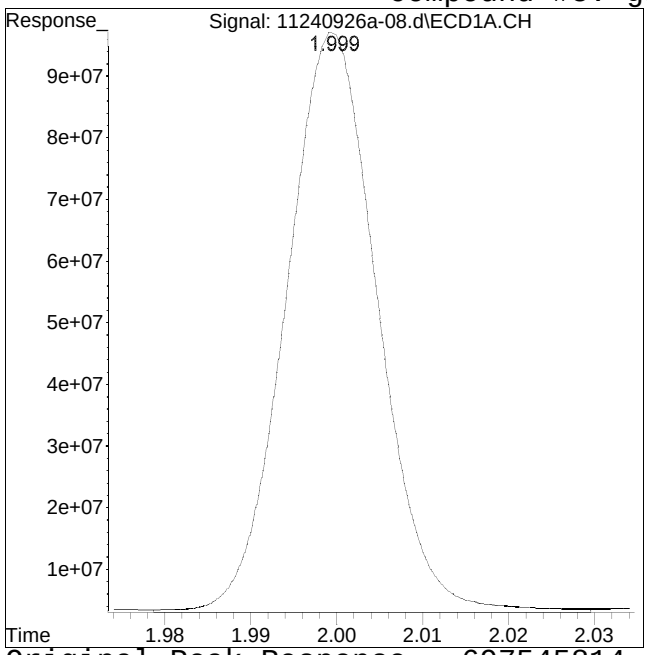
Manual Peak Response = 487158520 M4

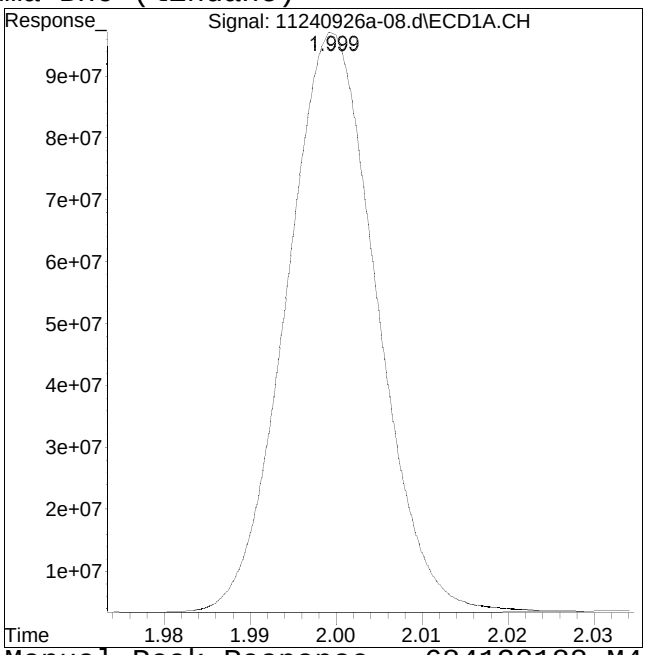
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #5: gamma-BHC (lindane)



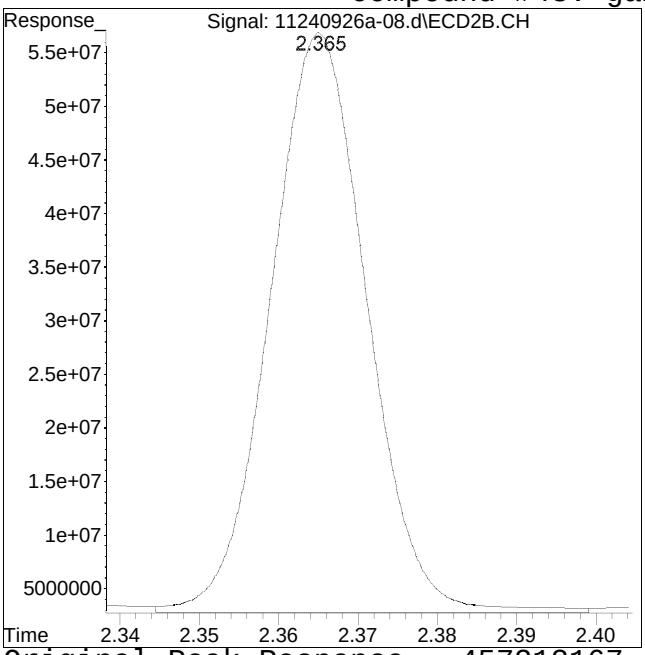


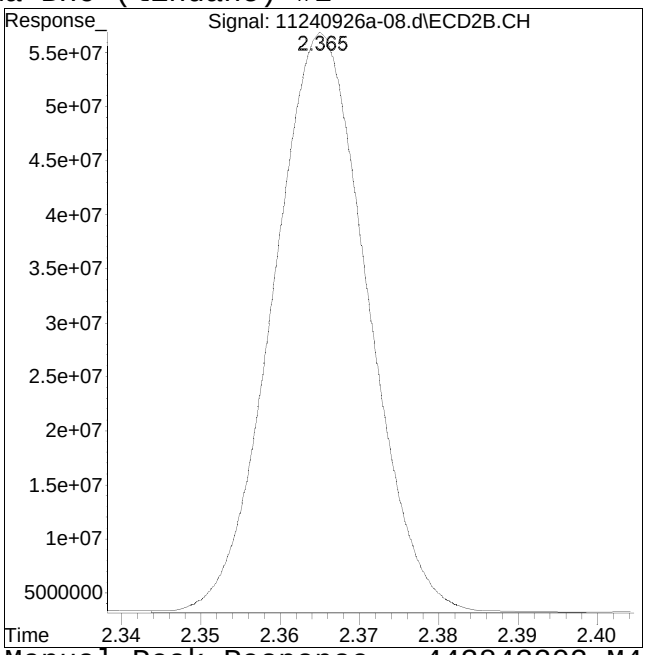
Original Peak Response = 697545814 Manual Peak Response = 684132188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #43: gamma-BHC (lindane) #2



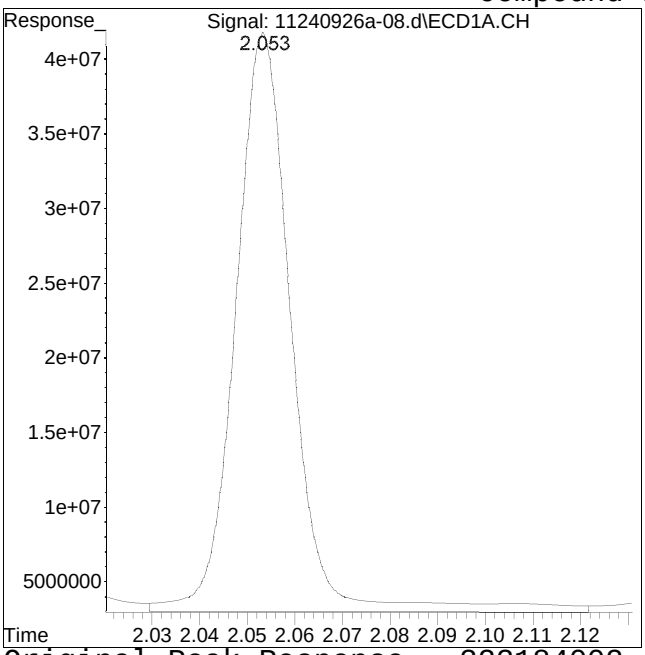


Original Peak Response = 457212167 Manual Peak Response = 443843202 M4
M4 = Poor automated baseline construction.

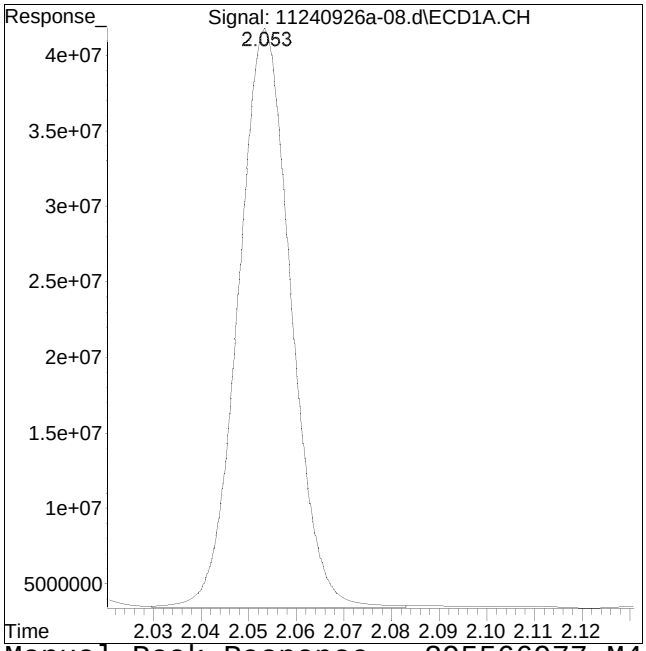
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #6: beta-BHC



Original Peak Response = 323184002



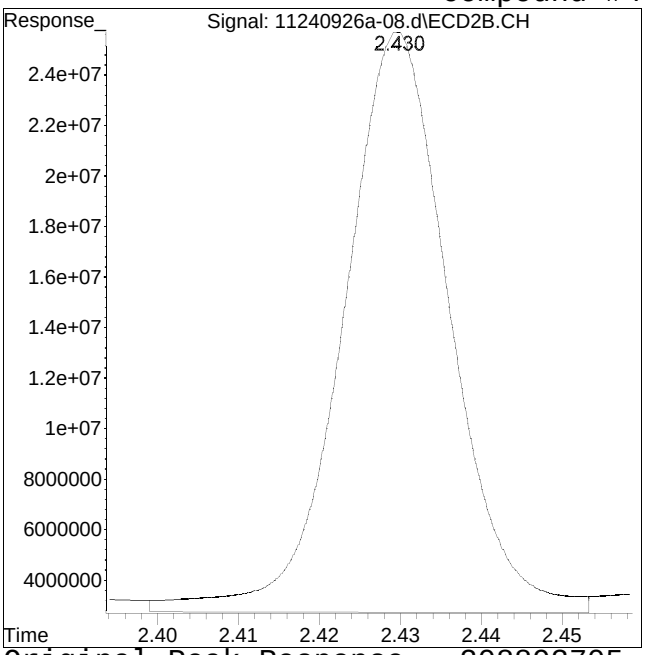
Manual Peak Response = 295566977 M4

M4 = Poor automated baseline construction.

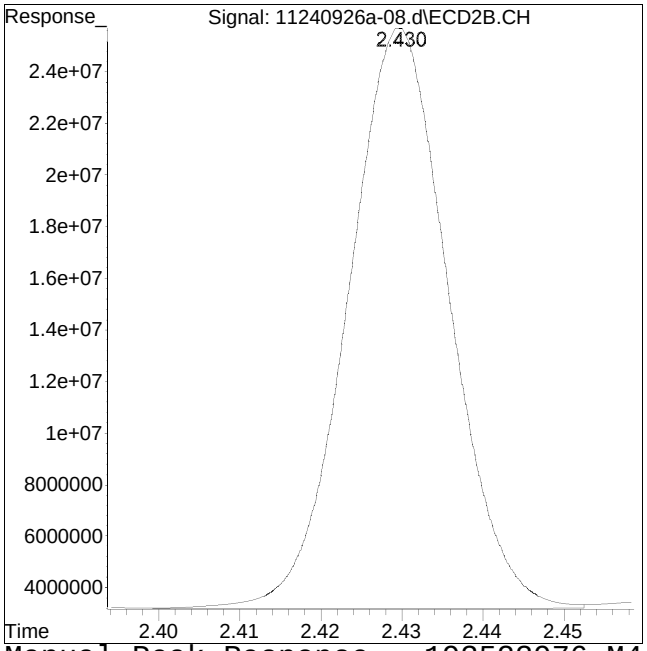
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #44: beta-BHC #2



Original Peak Response = 208893705



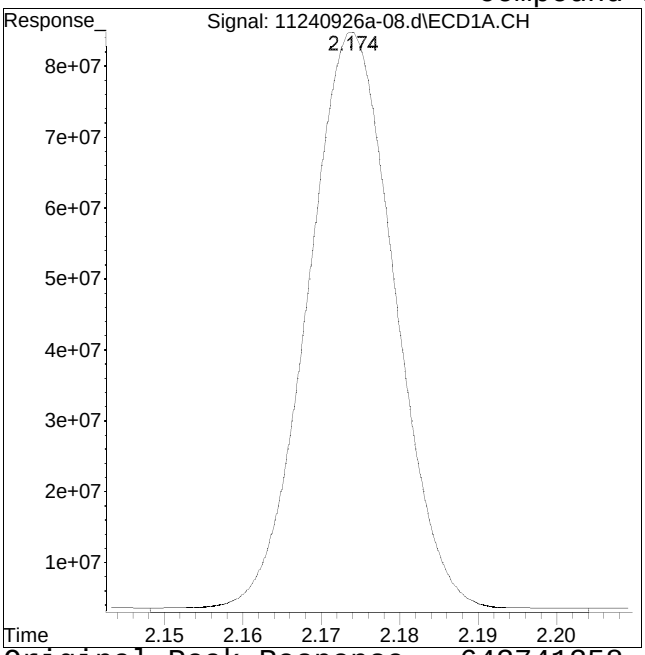
Manual Peak Response = 193523976 M4

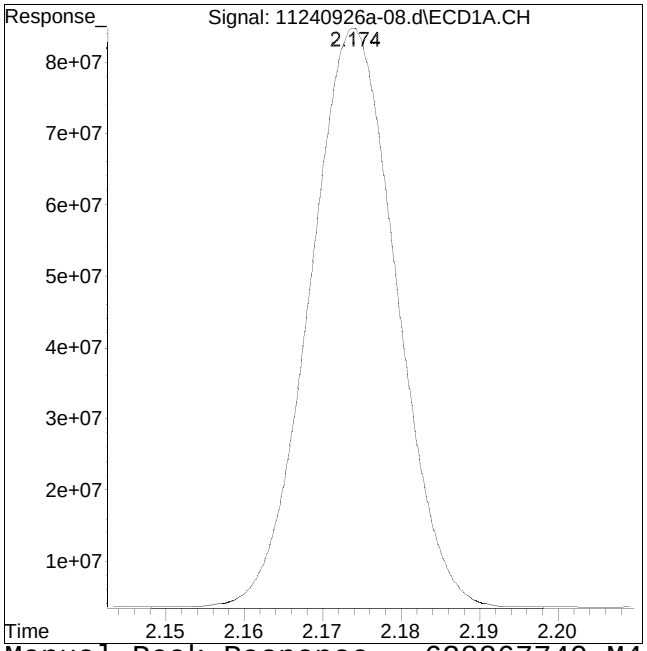
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #7: delta-BHC



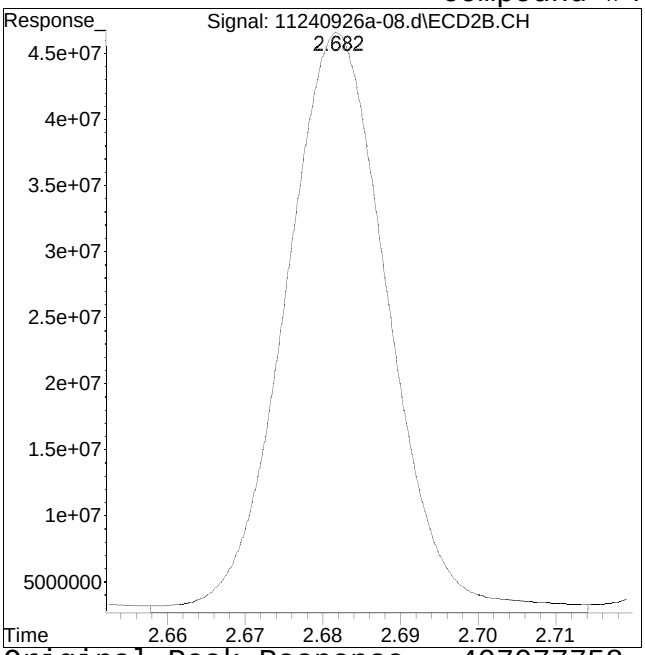


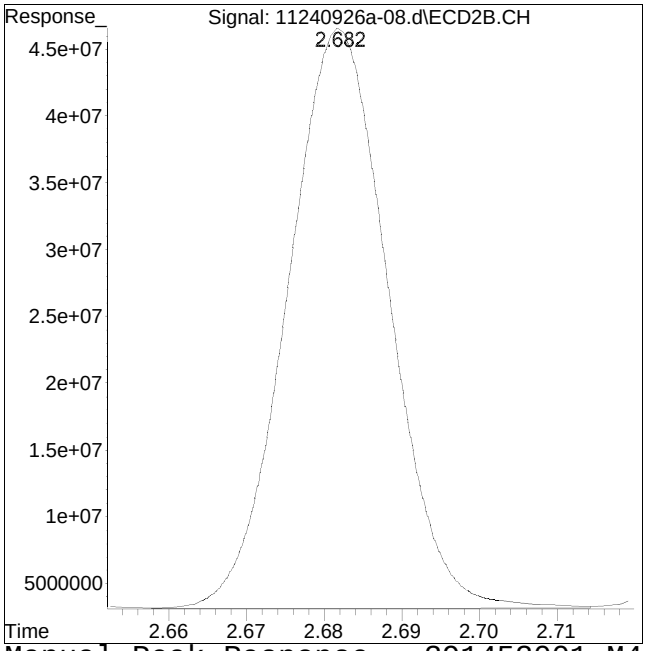
Original Peak Response = 643741358 Manual Peak Response = 628867740 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #45: delta-BHC #2



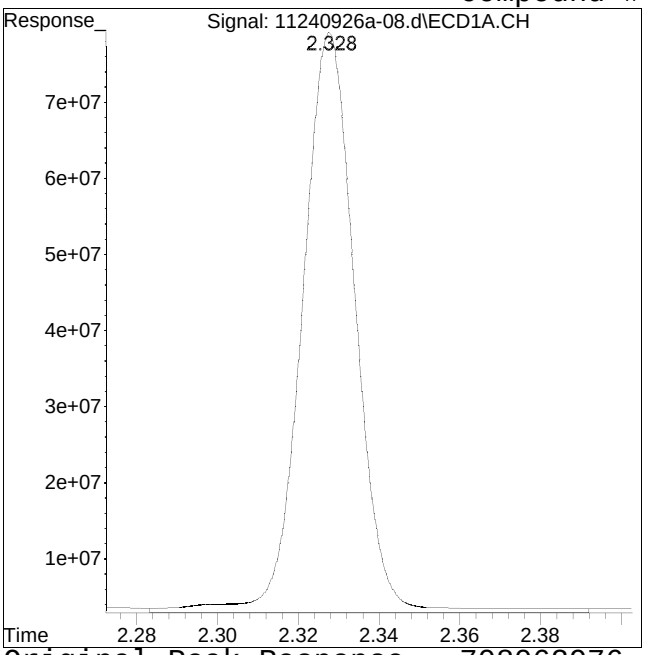


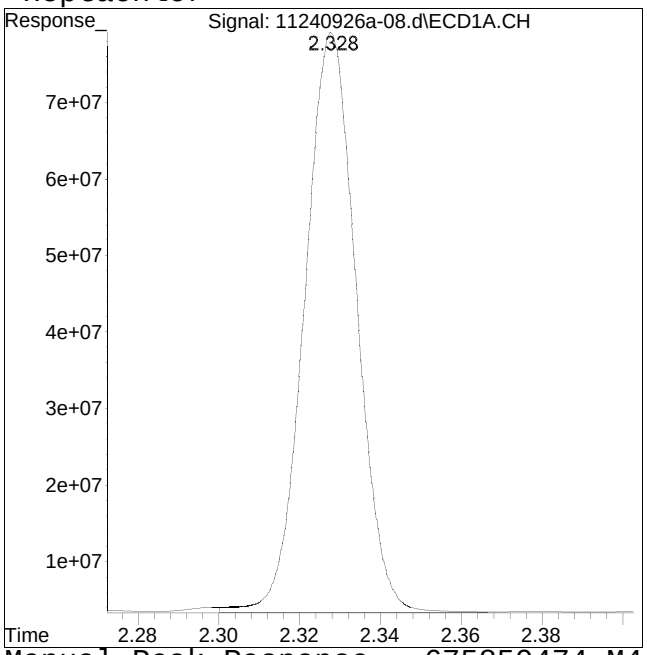
Original Peak Response = 407077758 Manual Peak Response = 391453001 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #8: Heptachlor



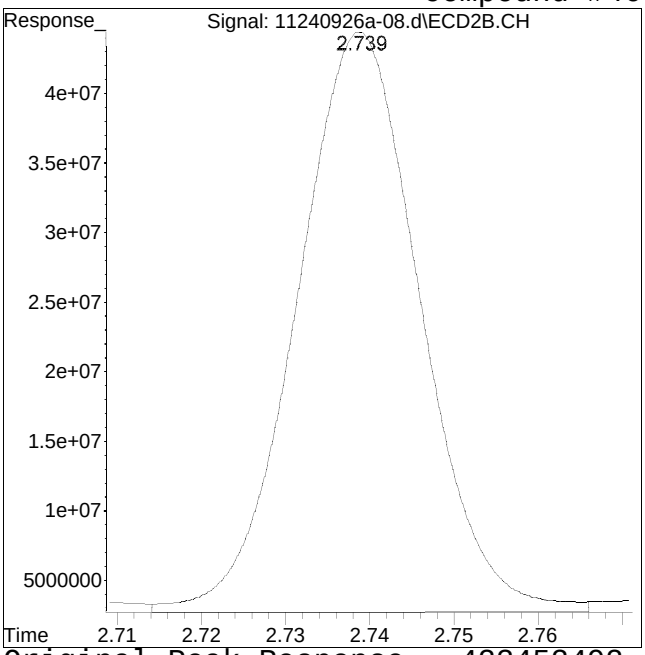


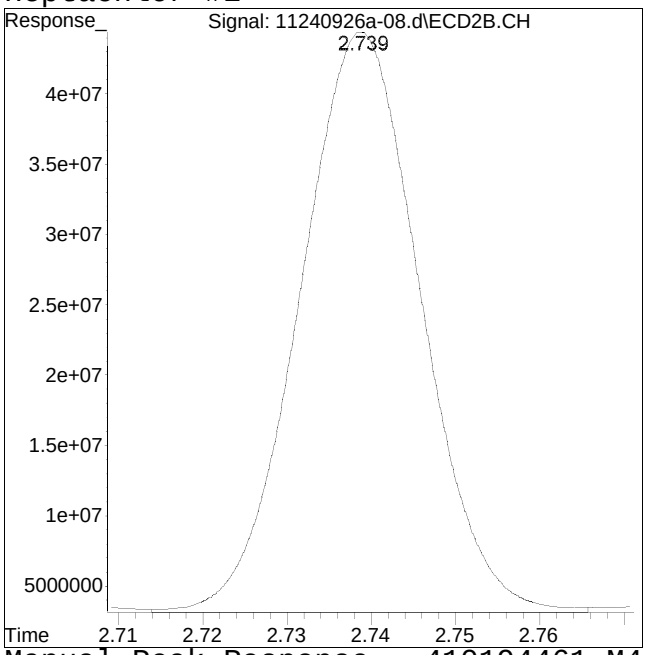
Original Peak Response = 708062976 Manual Peak Response = 675850474 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #46: Heptachlor #2



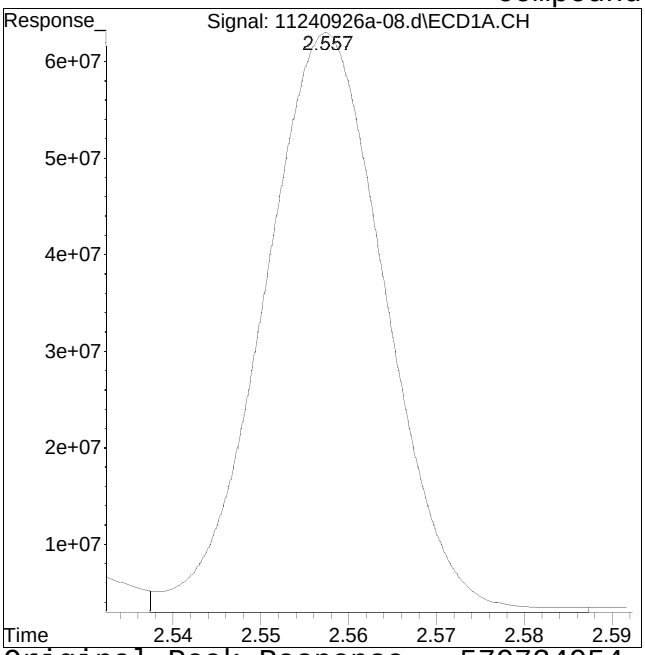


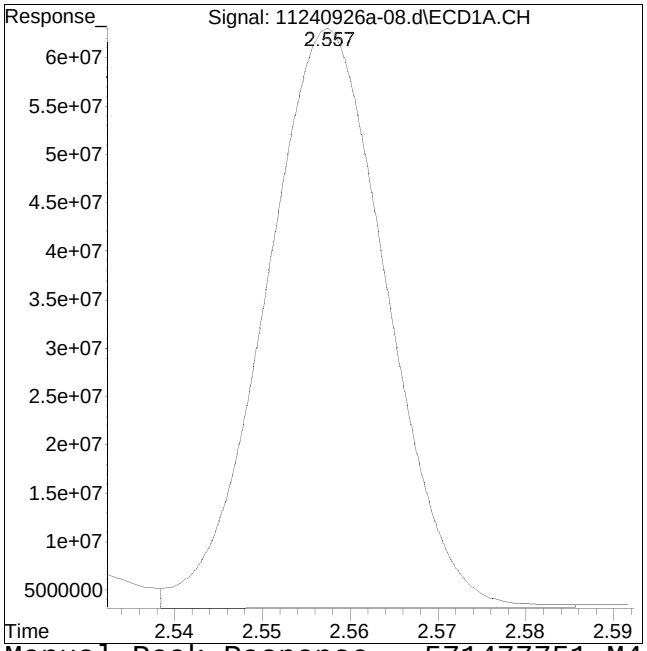
Original Peak Response = 423452492 Manual Peak Response = 410194461 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #9: Aldrin



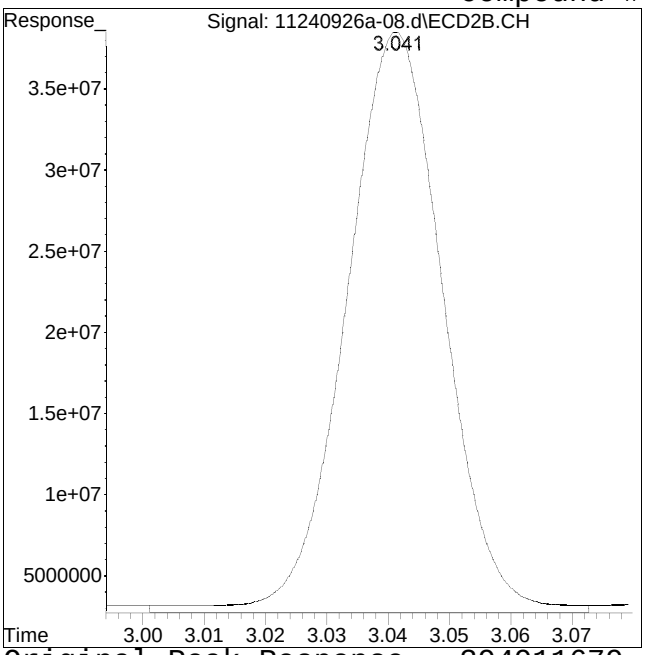


Original Peak Response = 579734954 Manual Peak Response = 571477751 M4
M4 = Poor automated baseline construction.

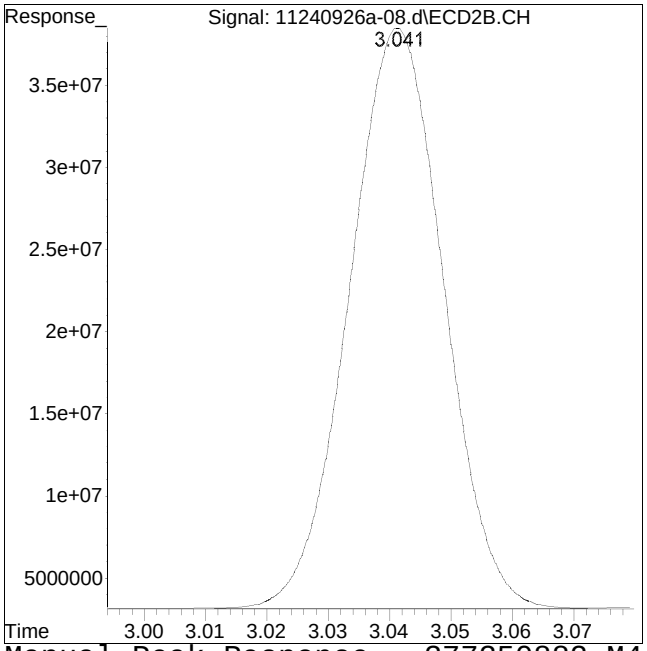
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #47: Aldrin #2



Original Peak Response = 394911679

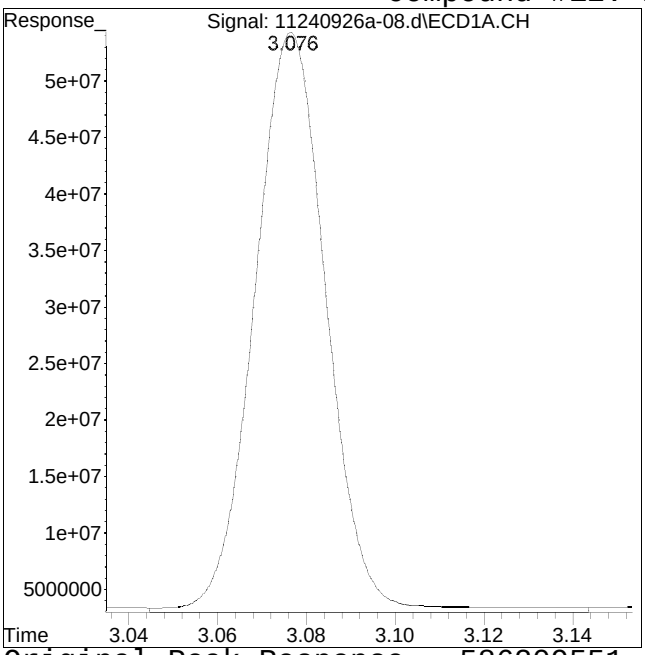


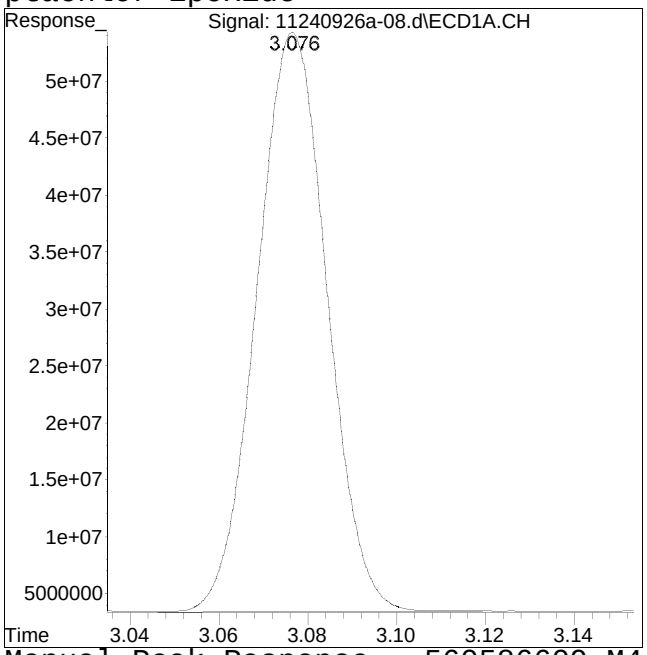
Manual Peak Response = 377350882 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #12: Heptachlor Epoxide



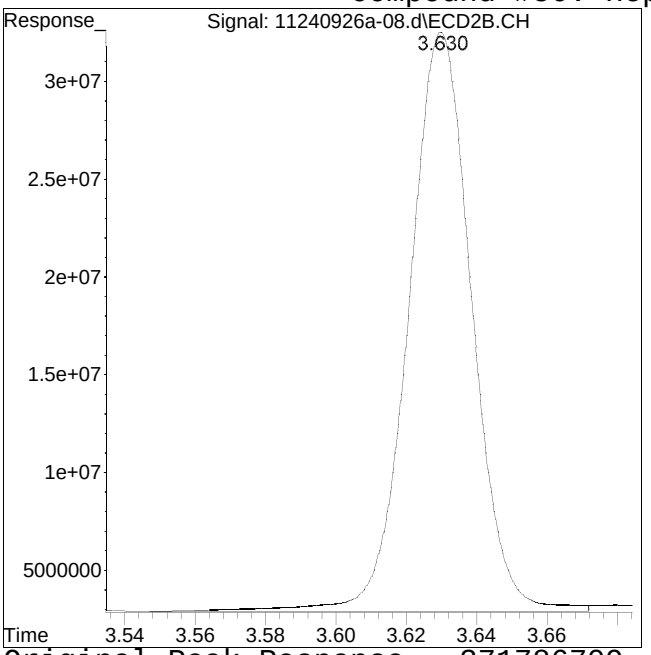


Original Peak Response = 586209551 Manual Peak Response = 560586609 M4
M4 = Poor automated baseline construction.

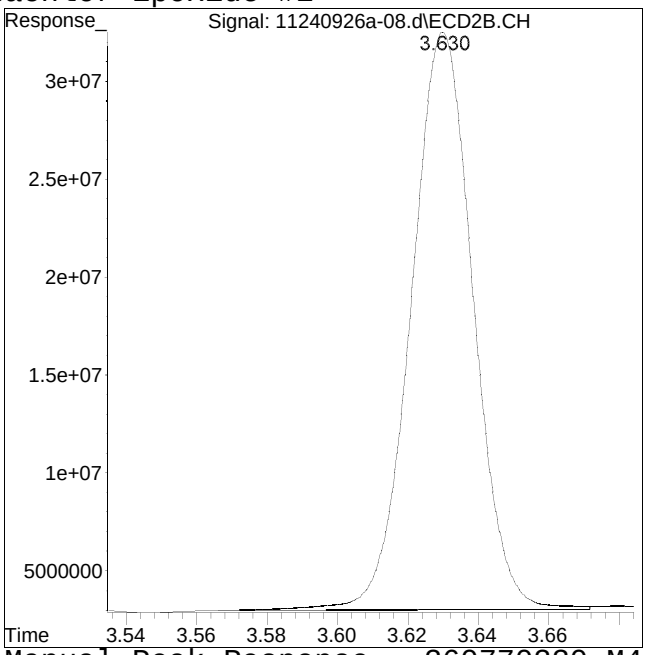
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 371786709



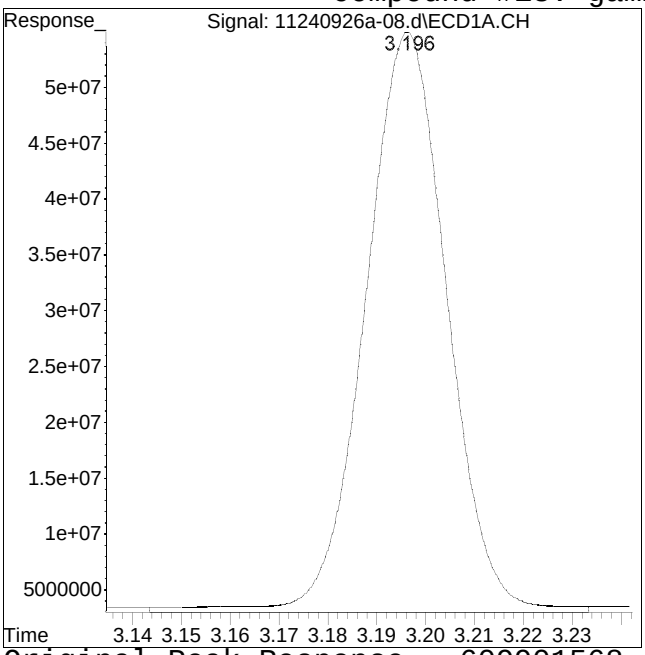
Manual Peak Response = 360770330 M4

M4 = Poor automated baseline construction.

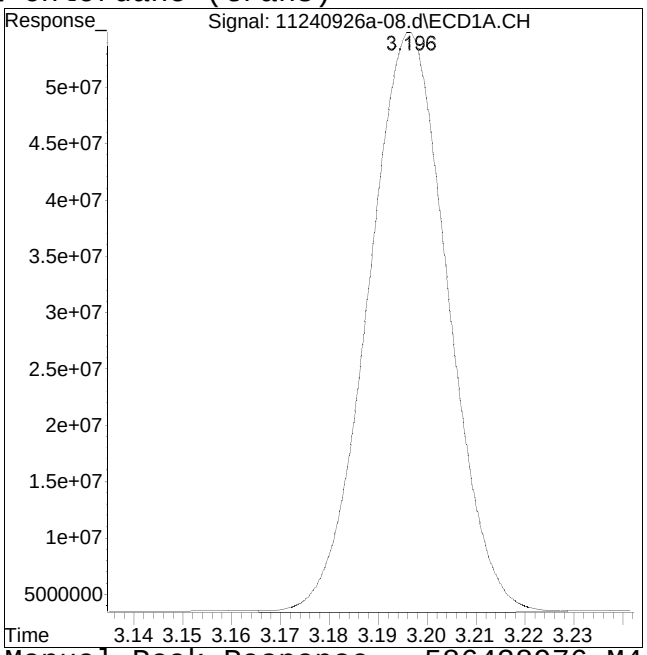
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 609901568



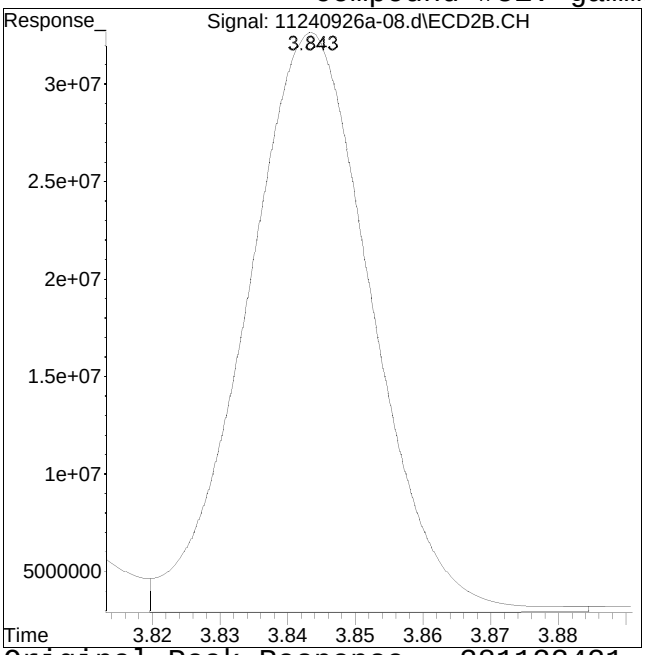
Manual Peak Response = 586438976 M4

M4 = Poor automated baseline construction.

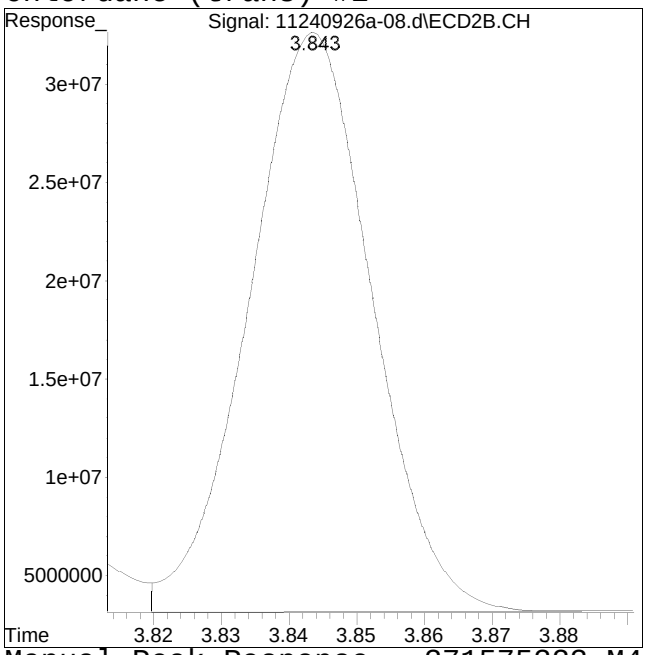
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 381122421



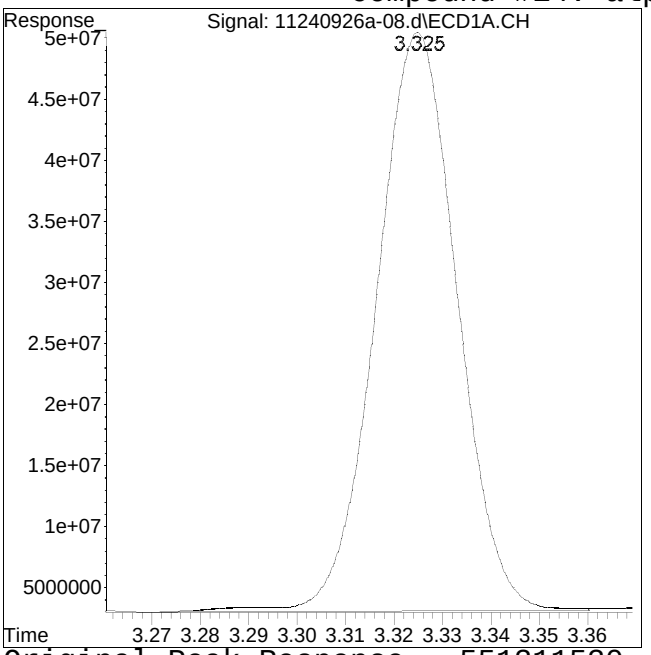
Manual Peak Response = 371575323 M4

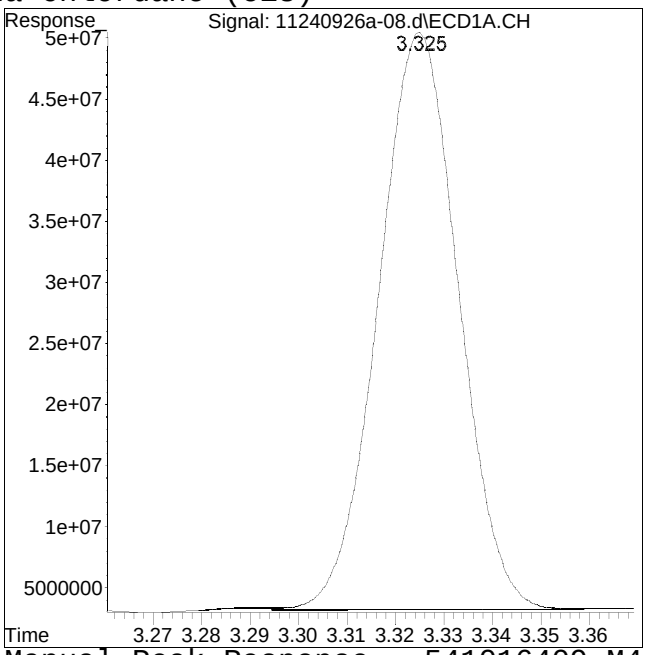
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #14: alpha-Chlordane (cis)



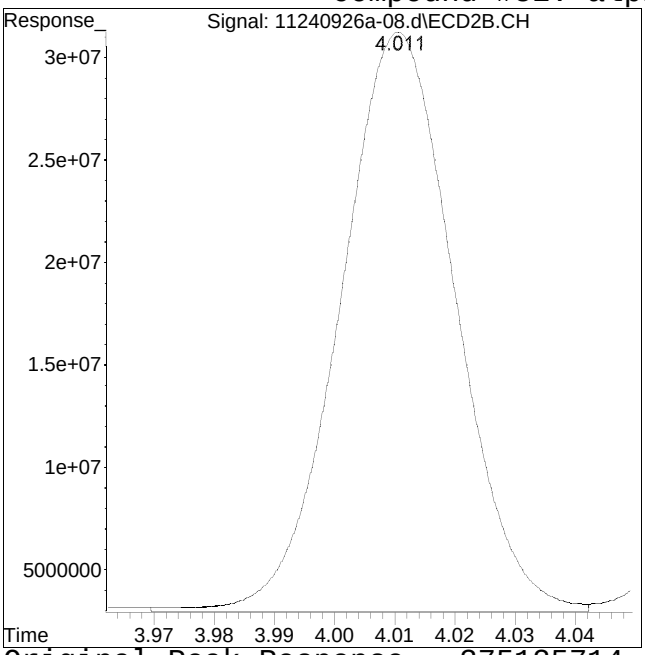


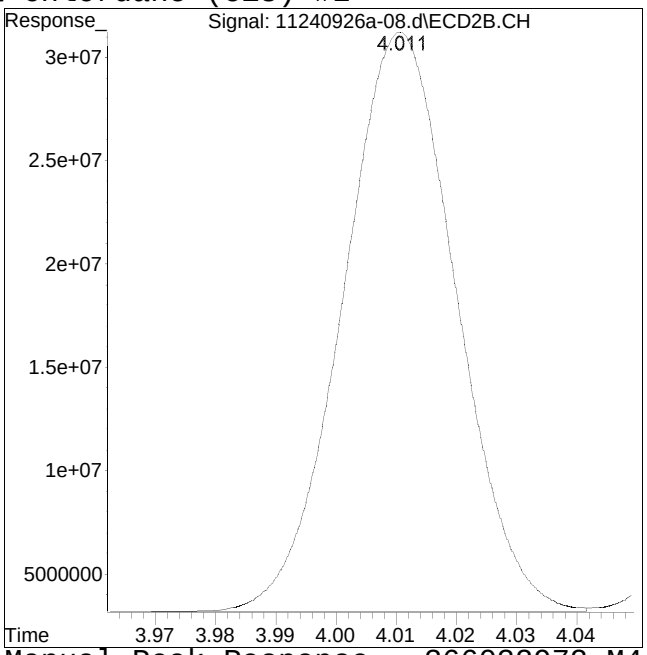
Original Peak Response = 551311530 Manual Peak Response = 541016409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #52: alpha-Chlordane (cis) #2



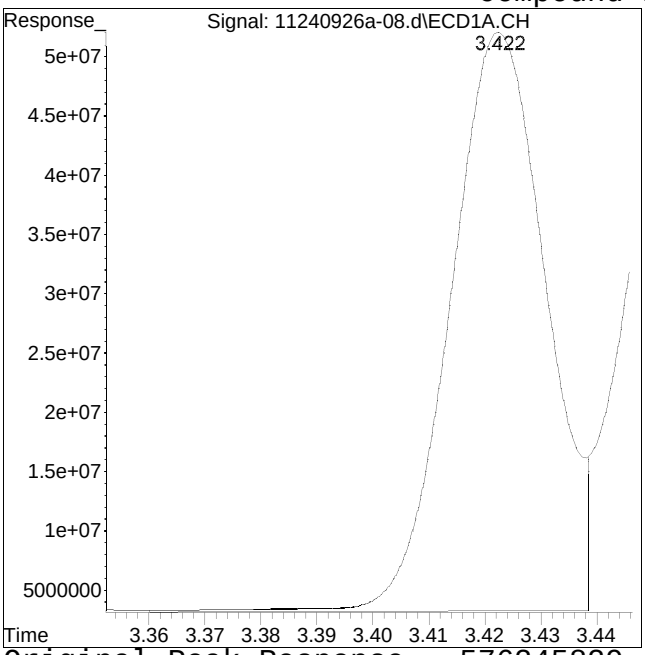


Original Peak Response = 375125714 Manual Peak Response = 366032972 M4
M4 = Poor automated baseline construction.

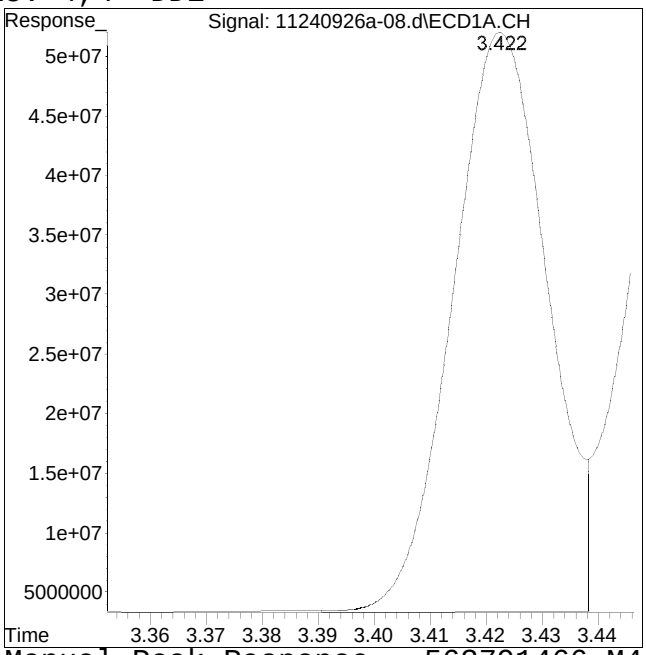
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #15: 4,4'-DDE



Original Peak Response = 576245829



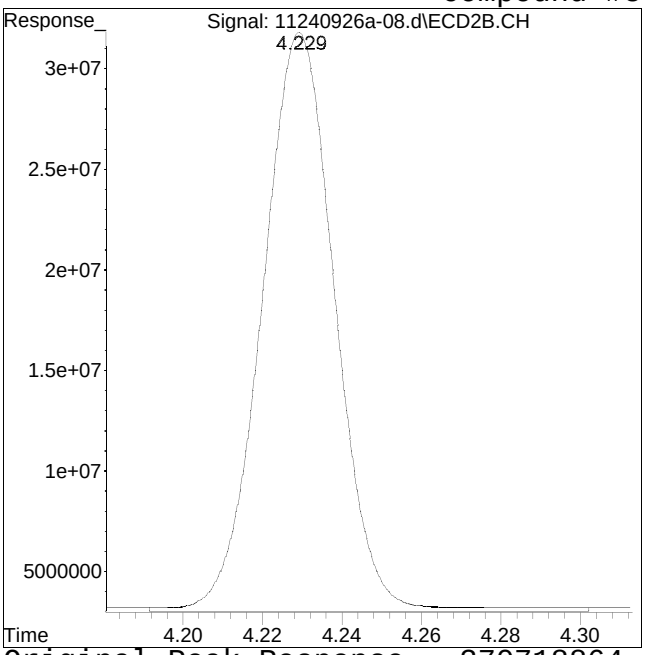
Manual Peak Response = 563791466 M4

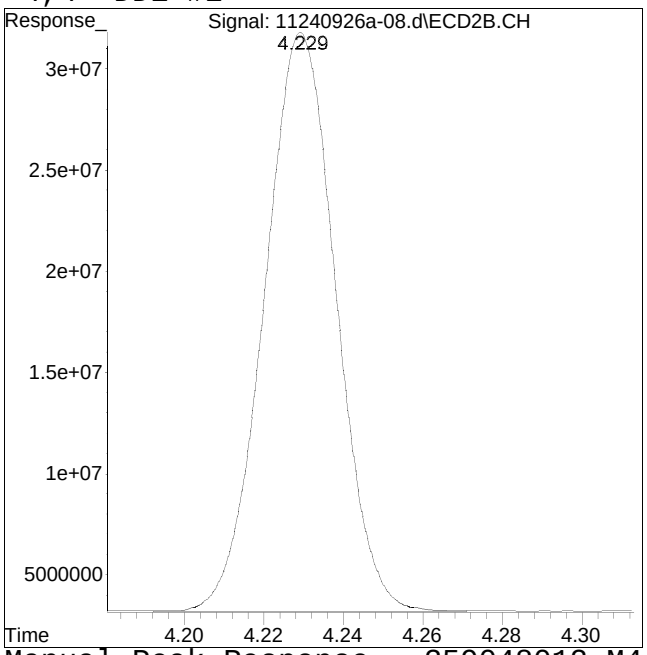
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #53: 4,4'-DDE #2



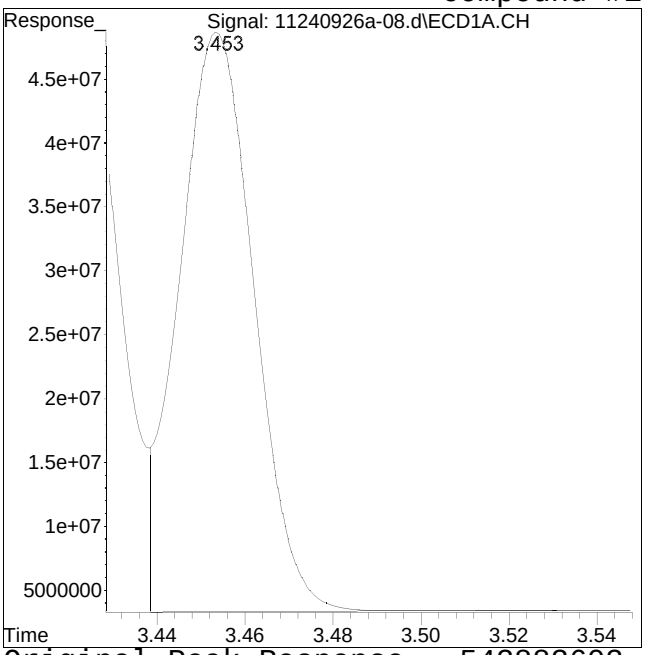


Original Peak Response = 370718864 Manual Peak Response = 359048012 M4
M4 = Poor automated baseline construction.

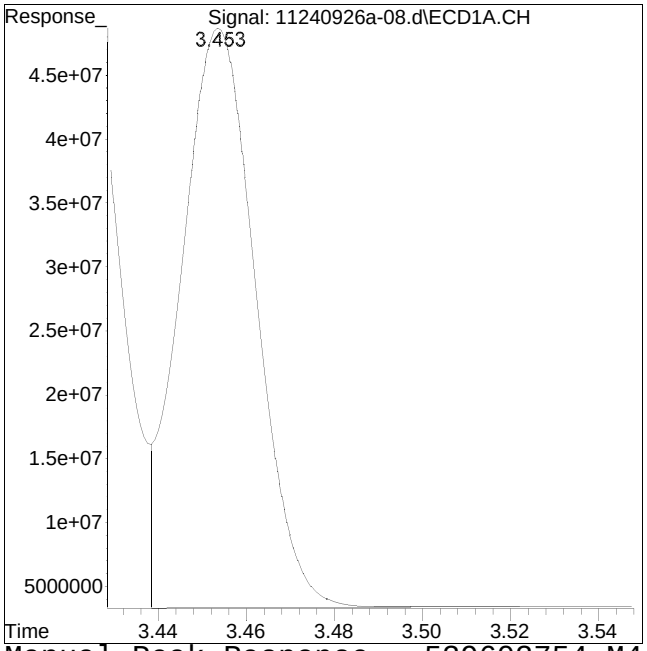
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #16: Endosulfan I



Original Peak Response = 543883603



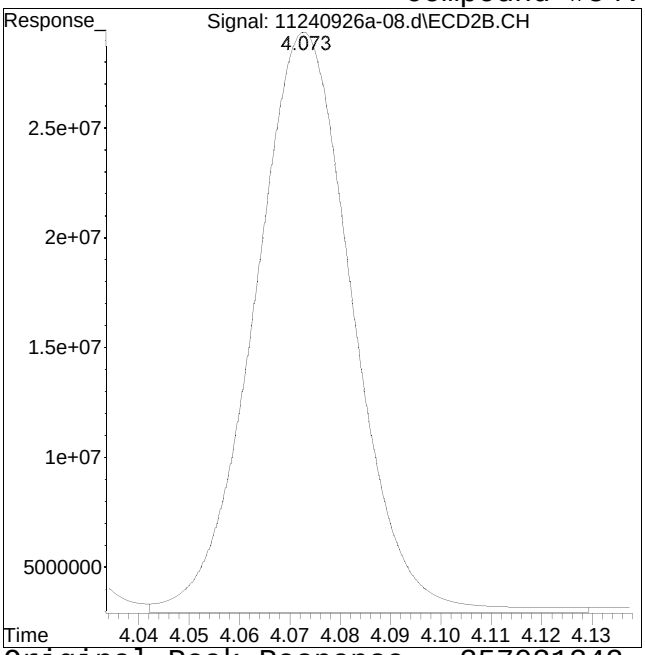
Manual Peak Response = 539603754 M4

M4 = Poor automated baseline construction.

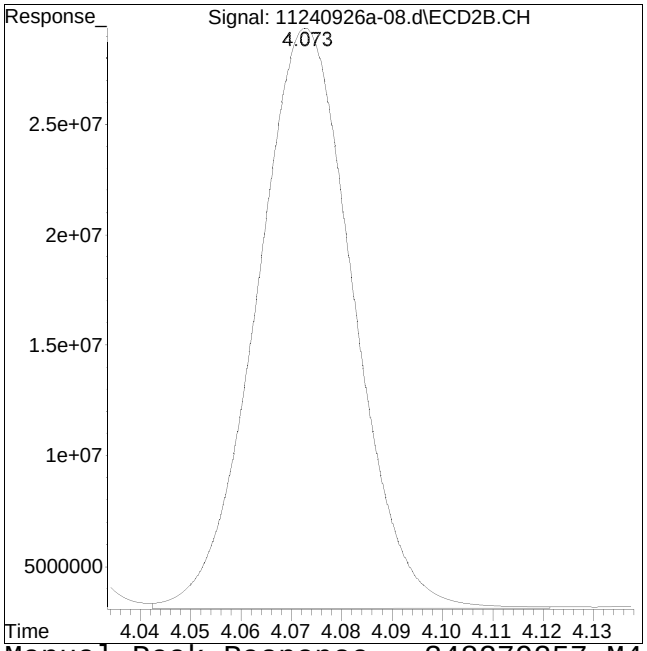
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #54: Endosulfan I #2



Original Peak Response = 357031342

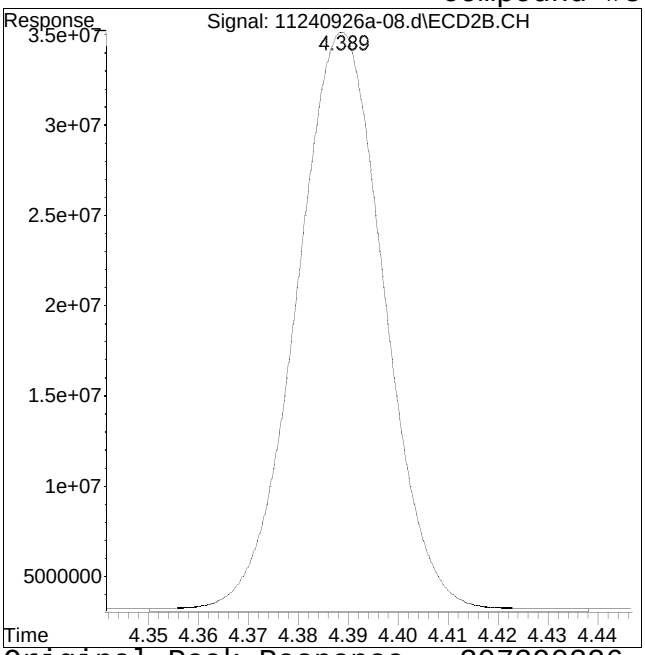


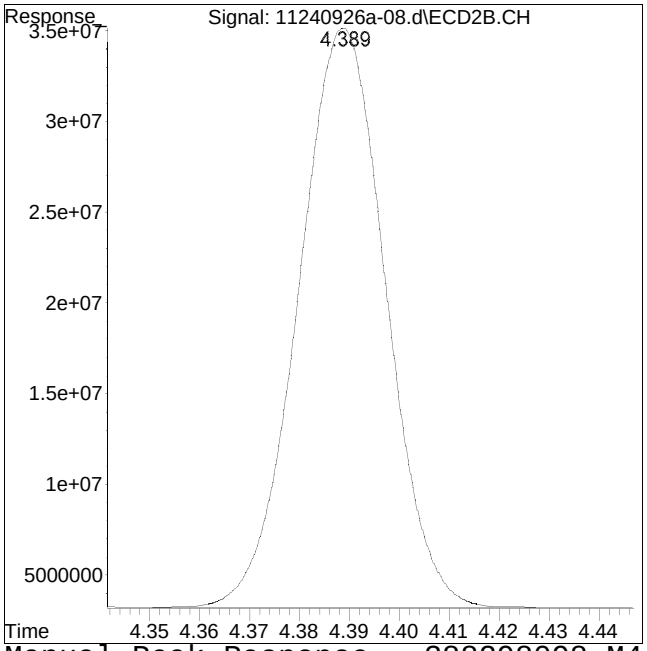
Manual Peak Response = 348279257 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #55: Dieldrin #2



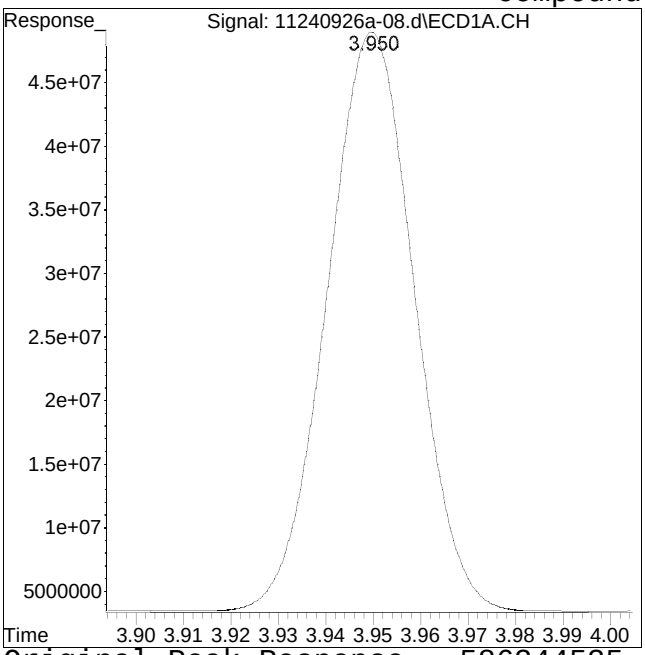


Original Peak Response = 397390326 Manual Peak Response = 388298098 M4
M4 = Poor automated baseline construction.

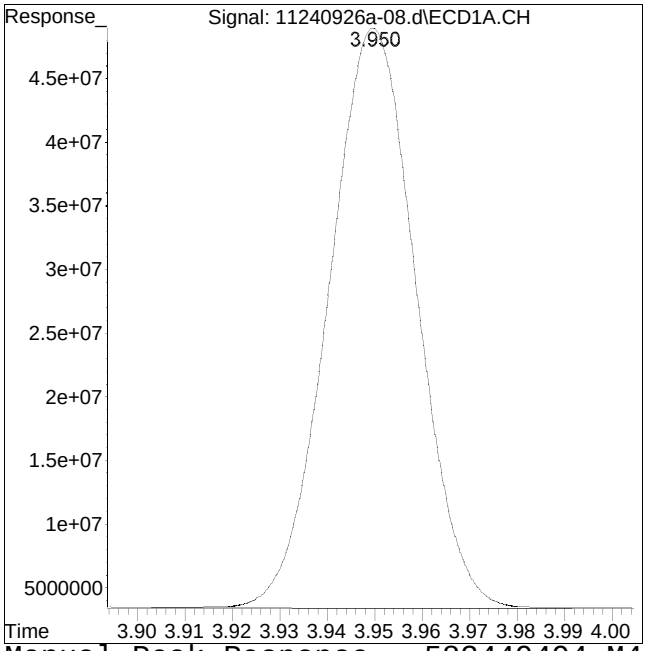
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #18: Endrin



Original Peak Response = 586344535



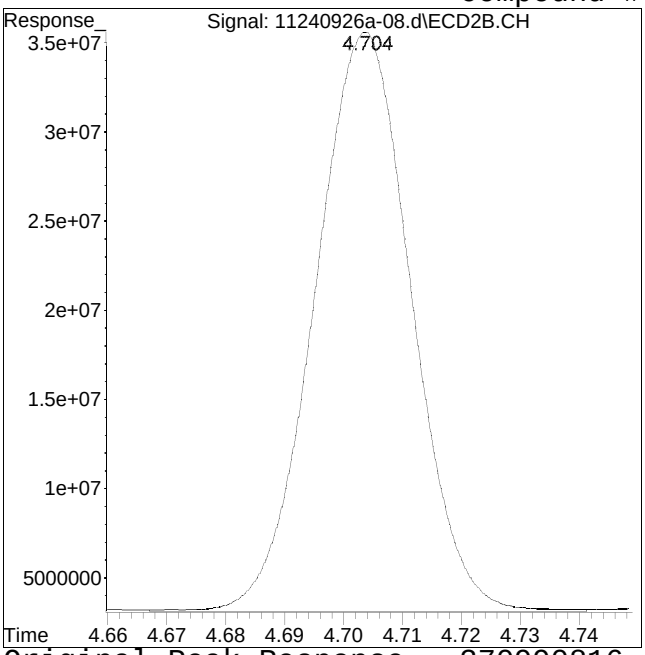
Manual Peak Response = 583449494 M4

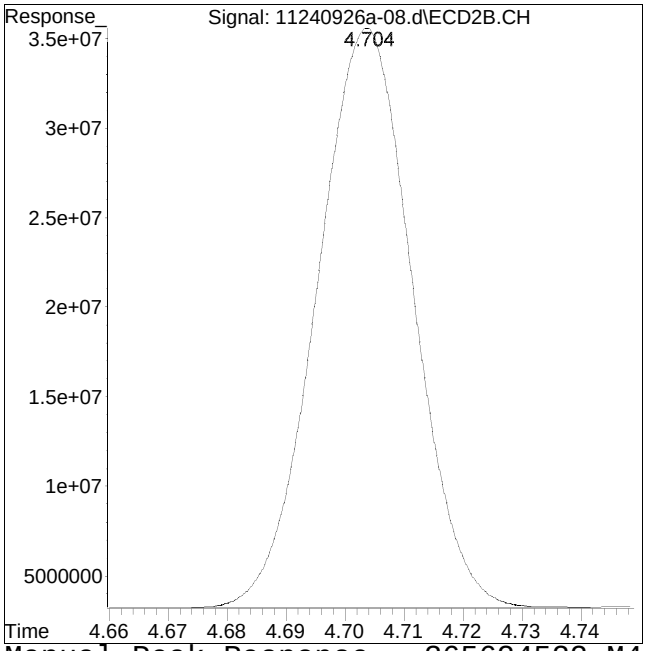
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #56: Endrin #2



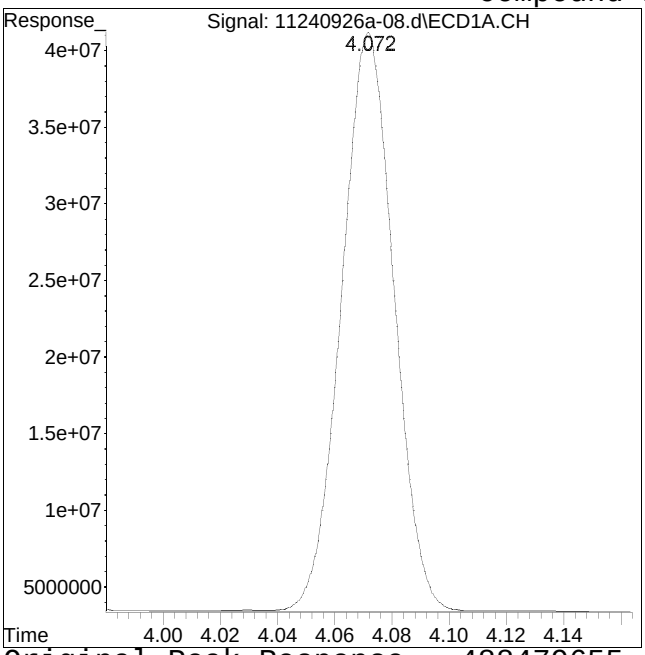


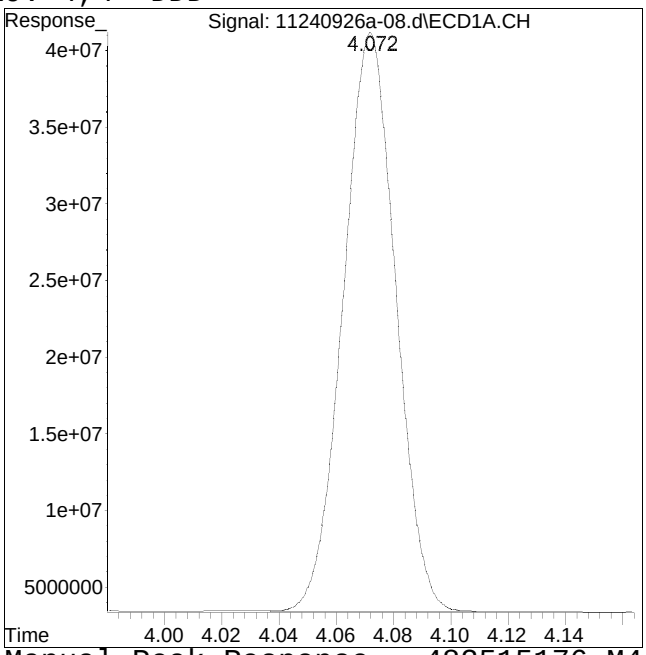
Original Peak Response = 370990816 Manual Peak Response = 365624522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #19: 4,4'-DDD



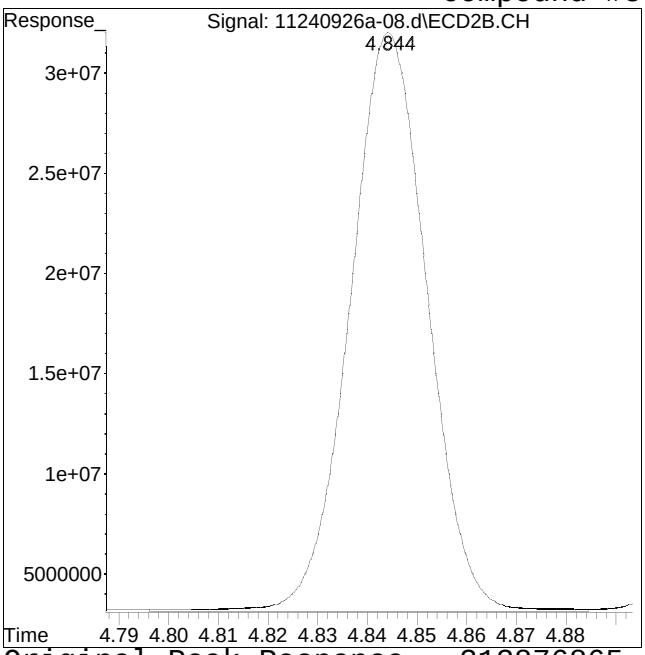


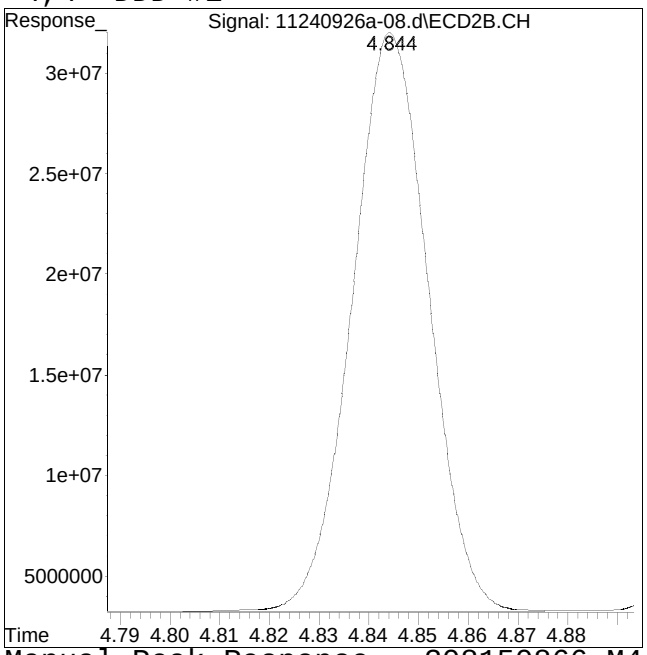
Original Peak Response = 488479655 Manual Peak Response = 482515176 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #57: 4,4'-DDD #2



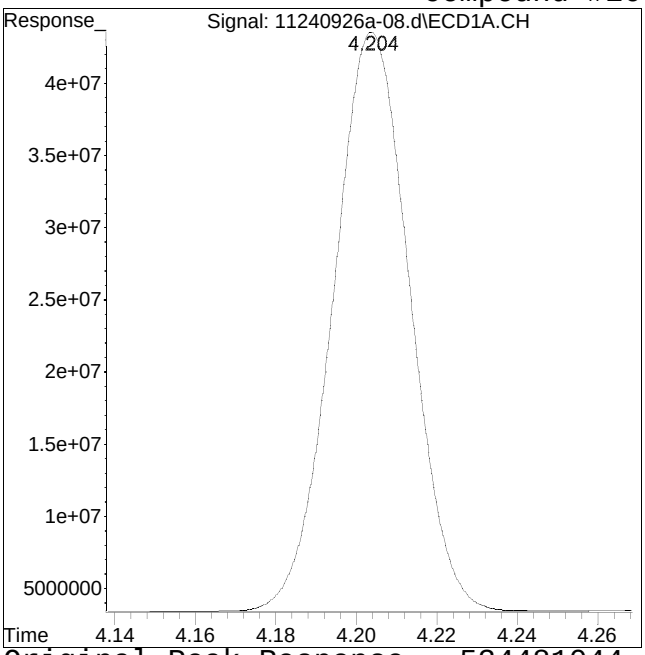


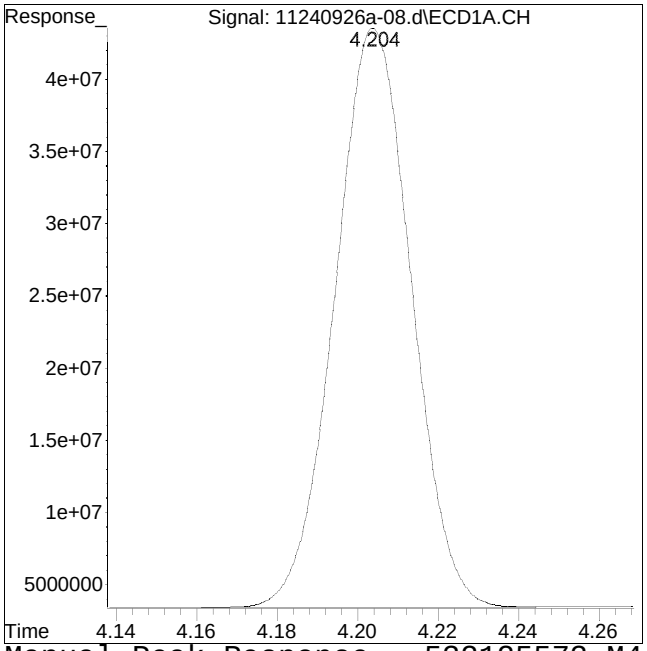
Original Peak Response = 313876865 Manual Peak Response = 308150866 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #20: Endosulfan II



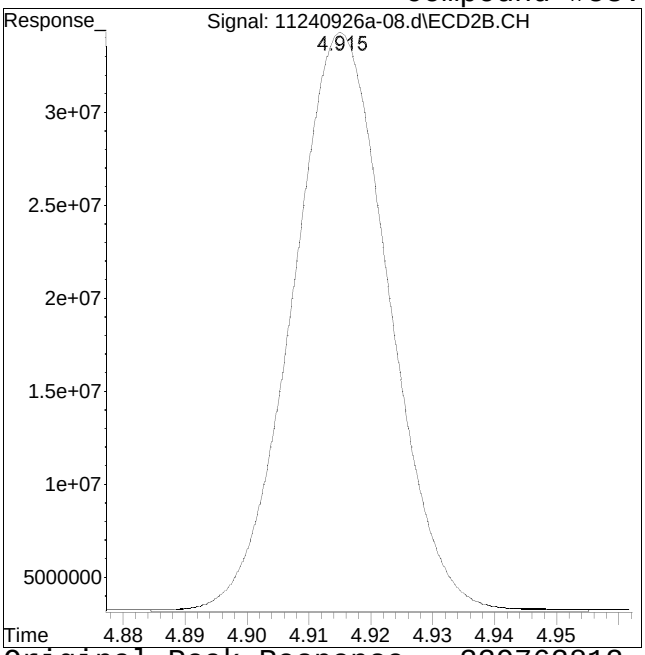


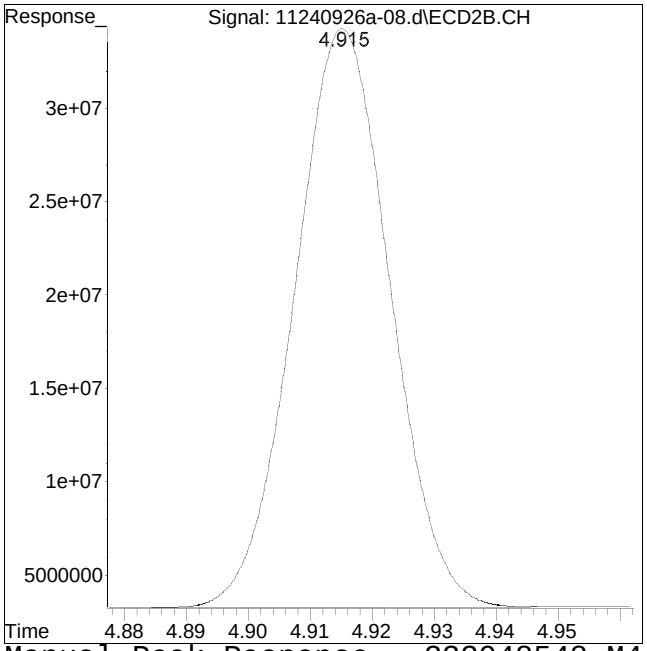
Original Peak Response = 534481044 Manual Peak Response = 532125573 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #58: Endosulfan II #2



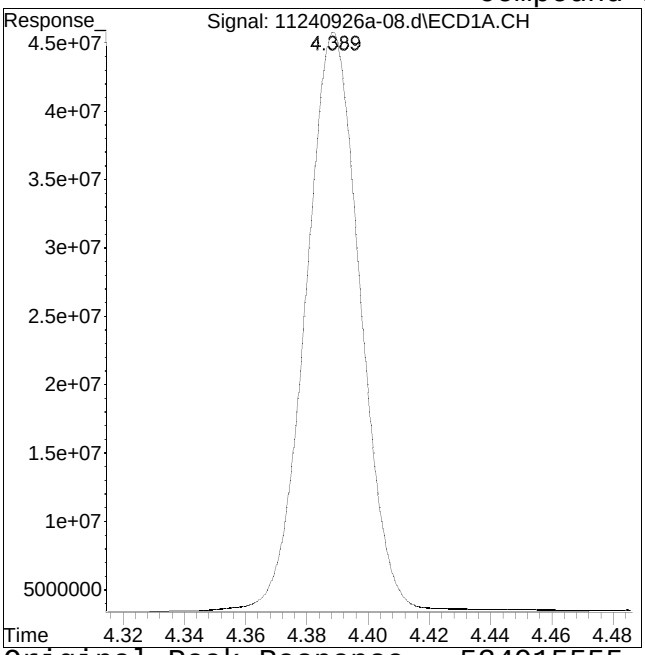


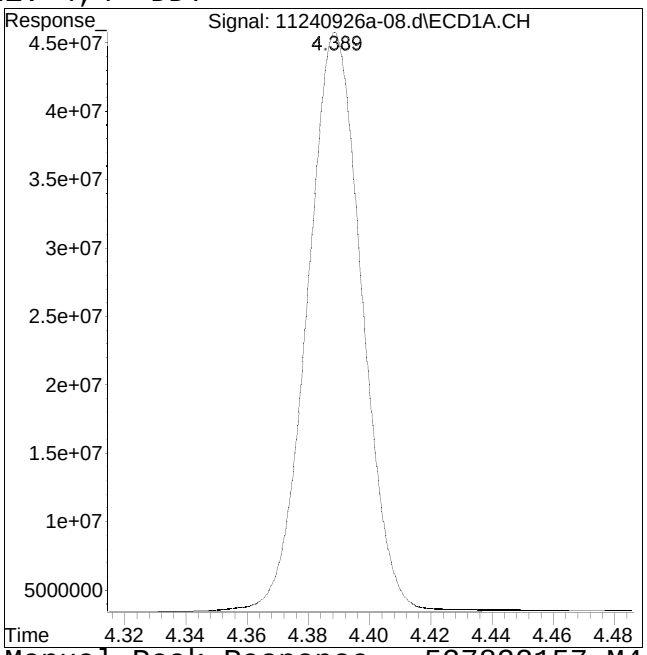
Original Peak Response = 339762812 Manual Peak Response = 333948548 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #21: 4,4'-DDT



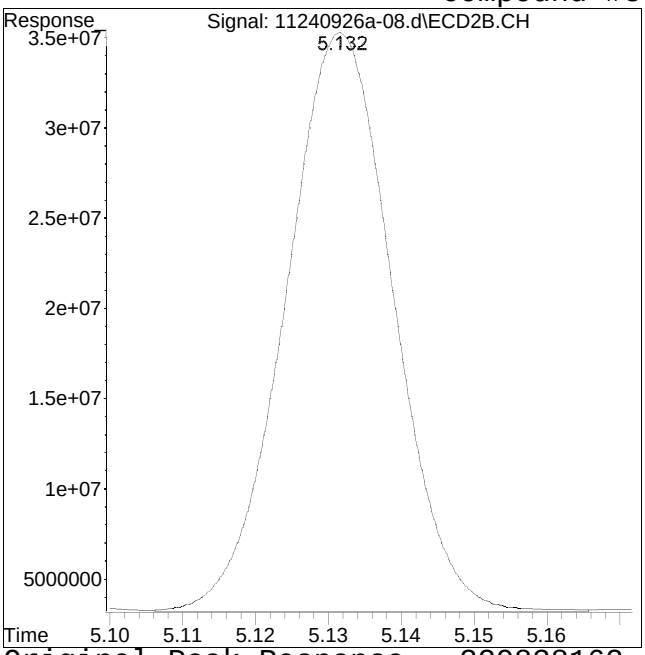


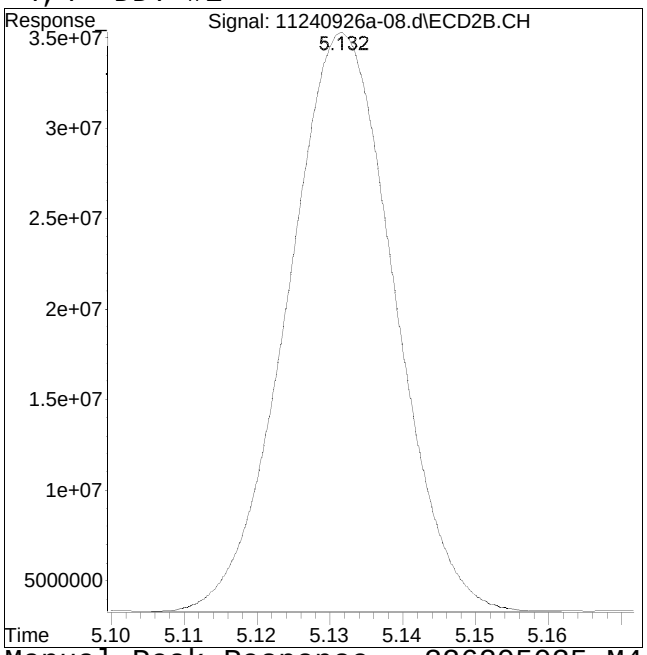
Original Peak Response = 534915555 Manual Peak Response = 527822157 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #59: 4,4'-DDT #2



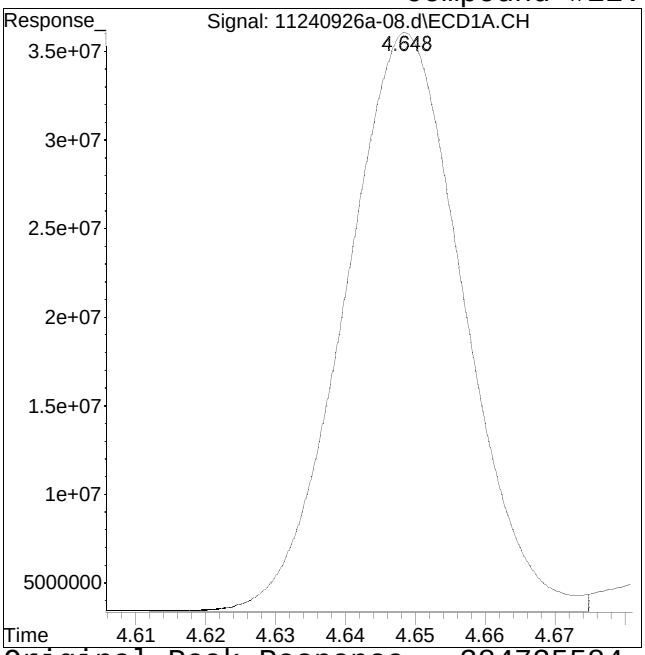


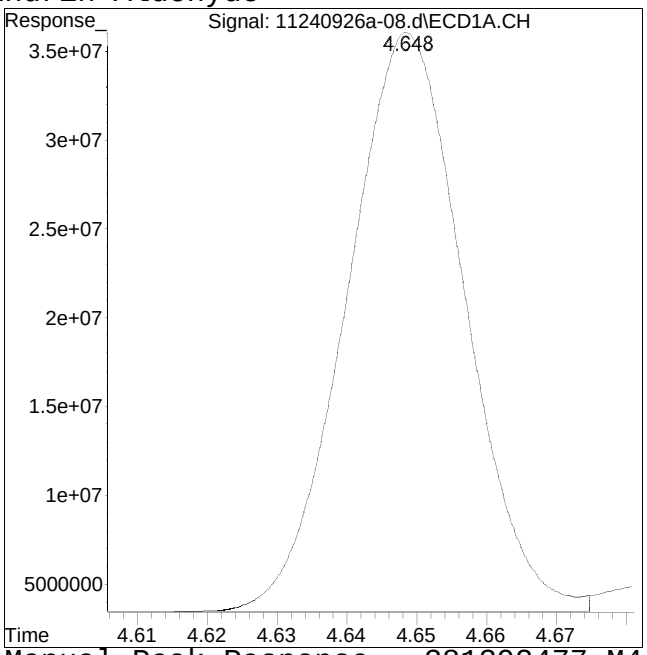
Original Peak Response = 329838162 Manual Peak Response = 326205035 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #22: Endrin Aldehyde



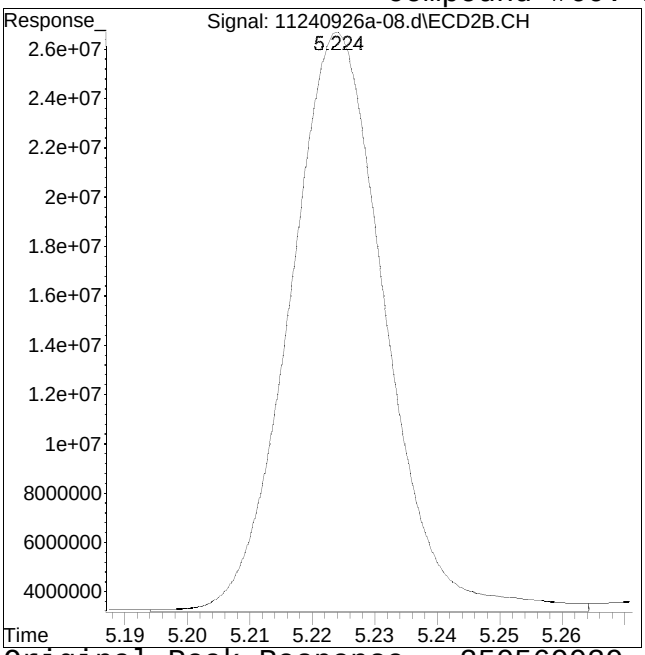


Original Peak Response = 384735584 Manual Peak Response = 381392477 M4
M4 = Poor automated baseline construction.

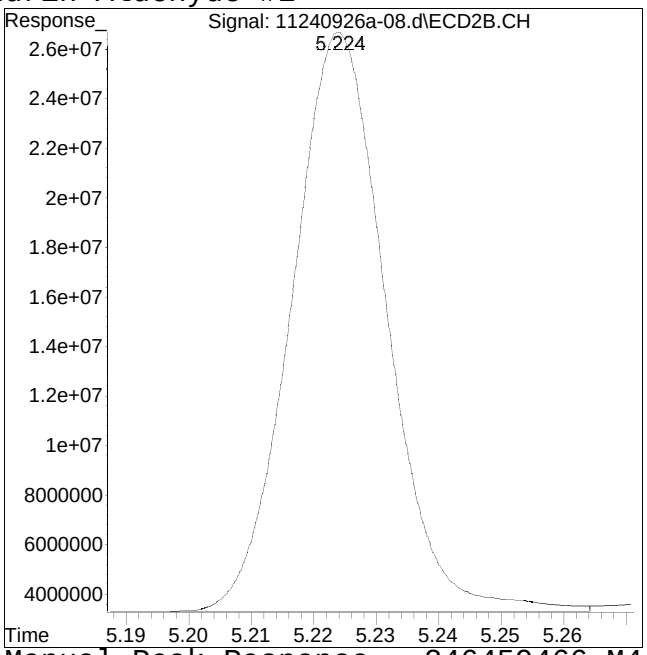
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 250569939



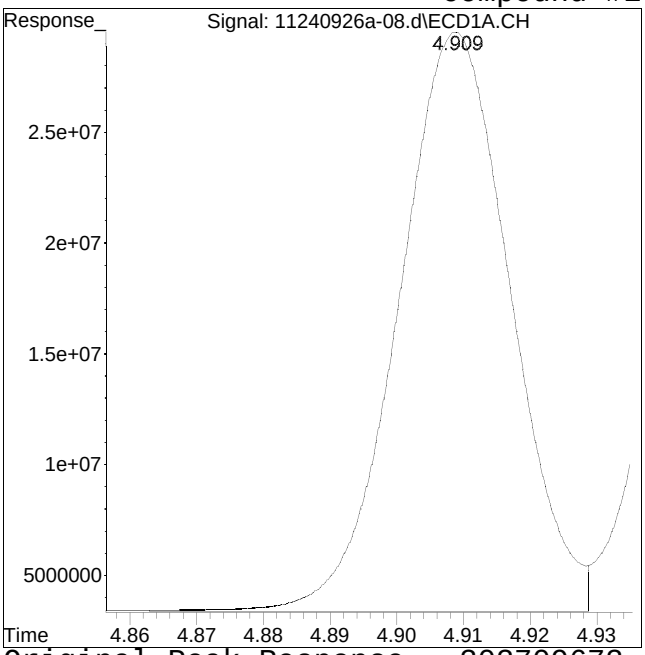
Manual Peak Response = 246459466 M4

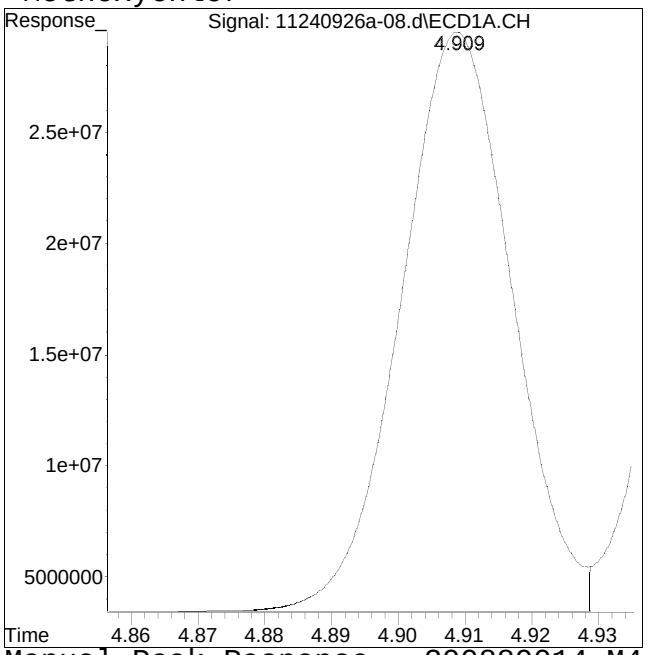
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #23: Methoxychlor



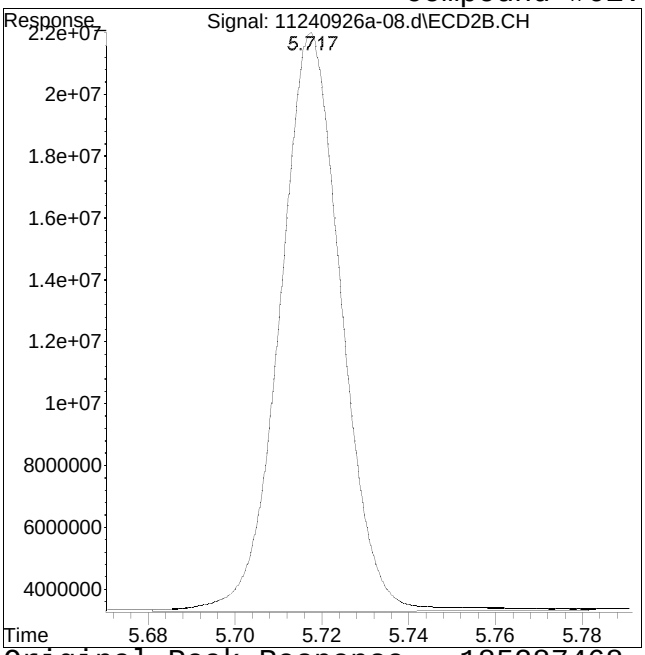


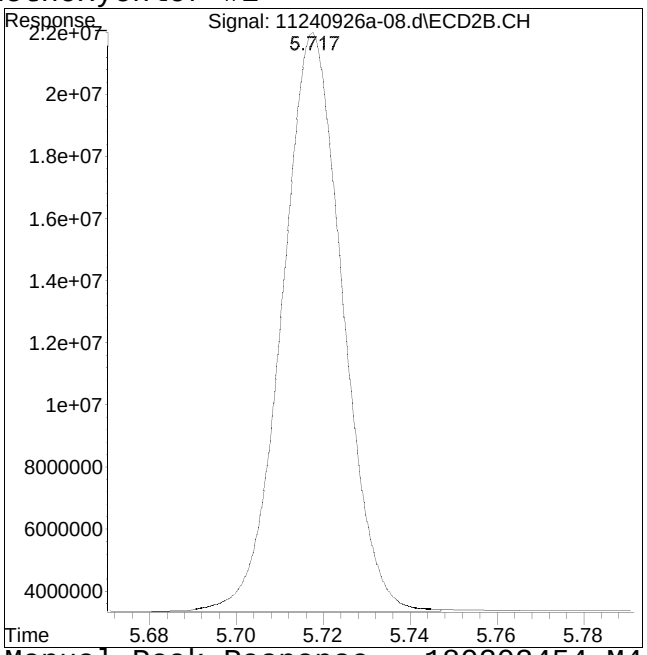
Original Peak Response = 303709673 Manual Peak Response = 300889014 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #61: Methoxychlor #2



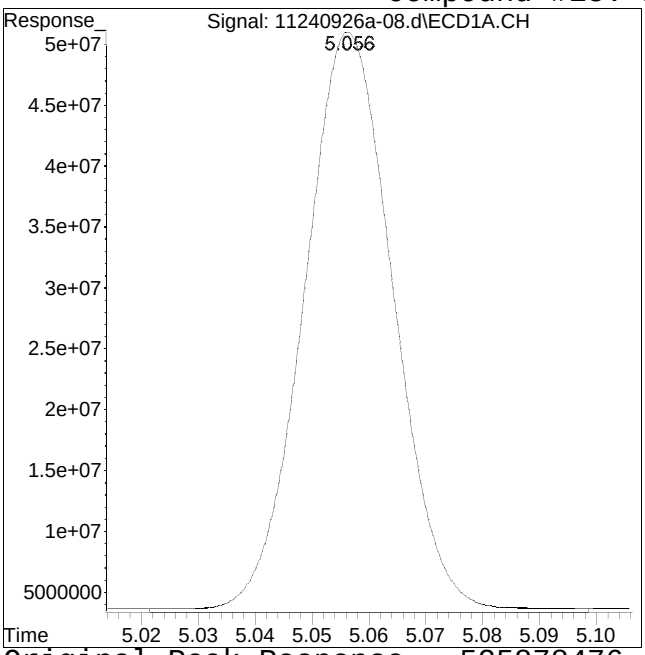


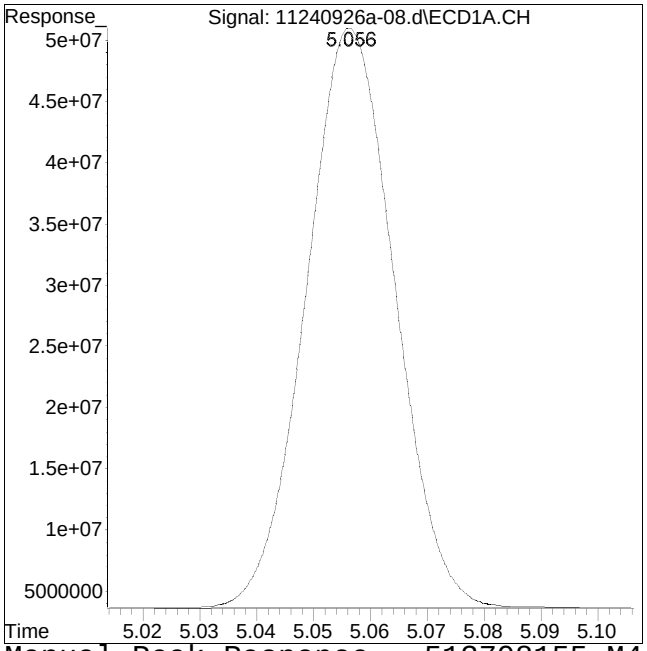
Original Peak Response = 185287468 Manual Peak Response = 180303454 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #25: Endosulfan Sulfate



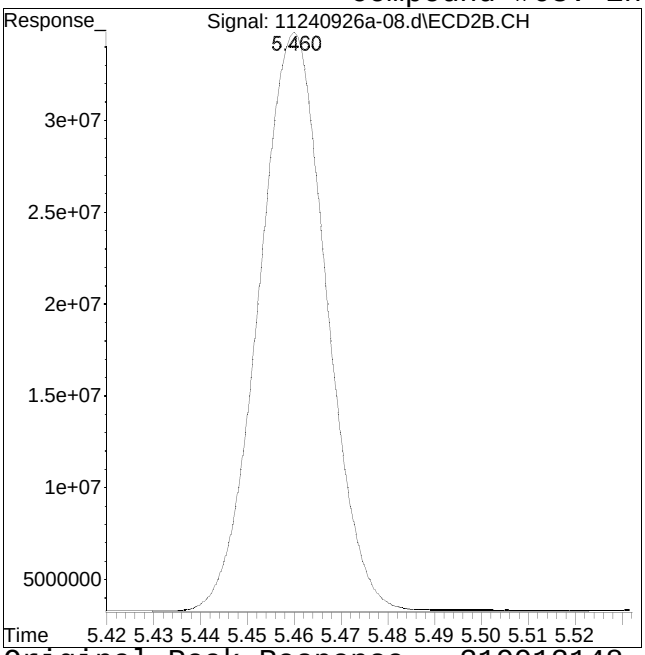


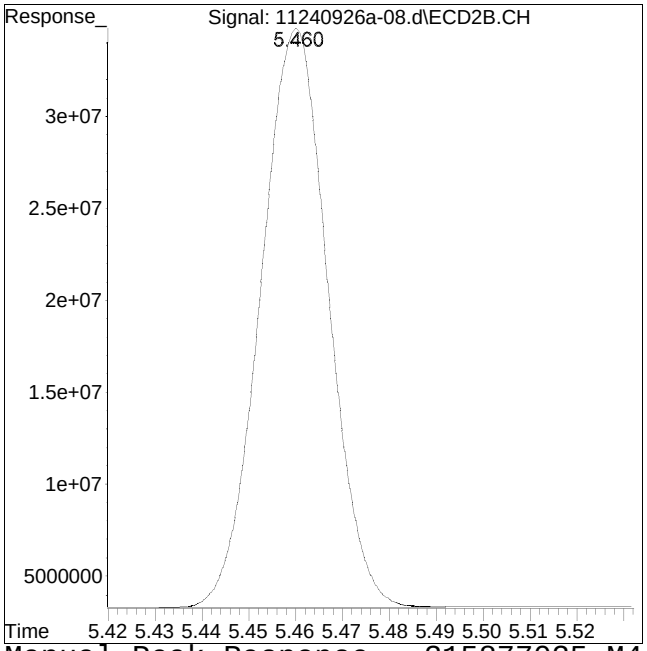
Original Peak Response = 525878476 Manual Peak Response = 513708155 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #63: Endosulfan Sulfate #2



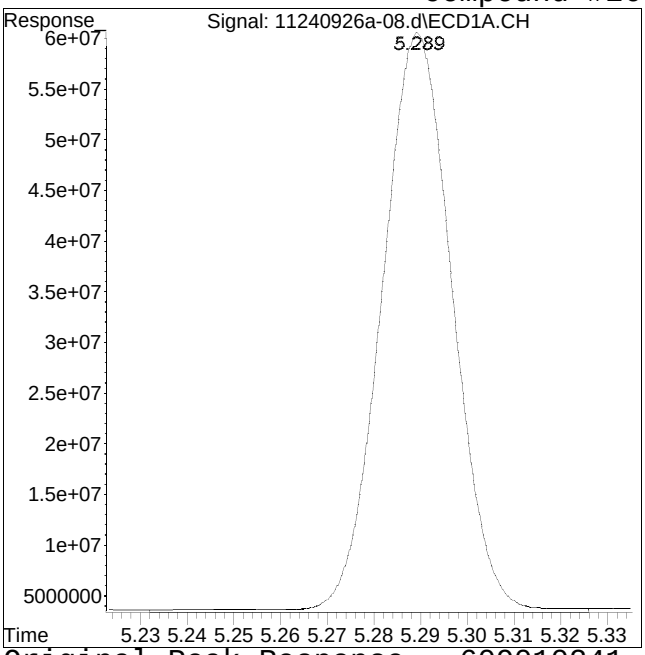


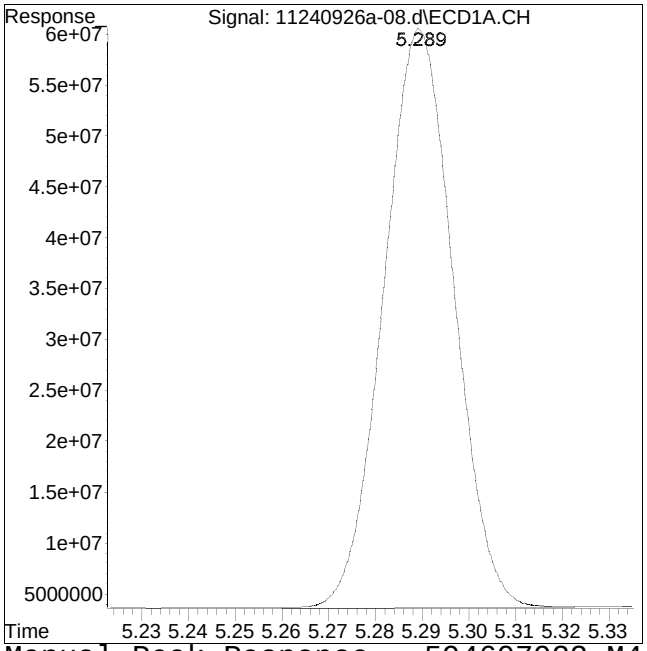
Original Peak Response = 319912148 Manual Peak Response = 315877035 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #26: Endrin Ketone



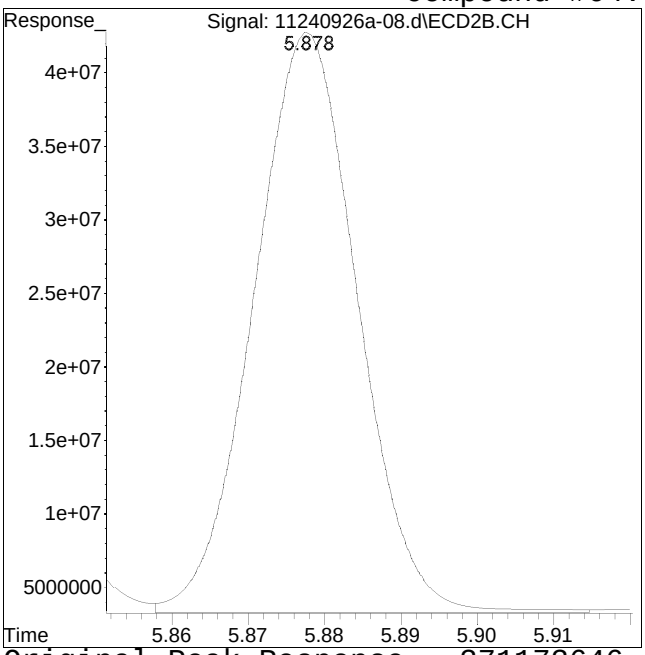


Original Peak Response = 609010241 Manual Peak Response = 594607922 M4
M4 = Poor automated baseline construction.

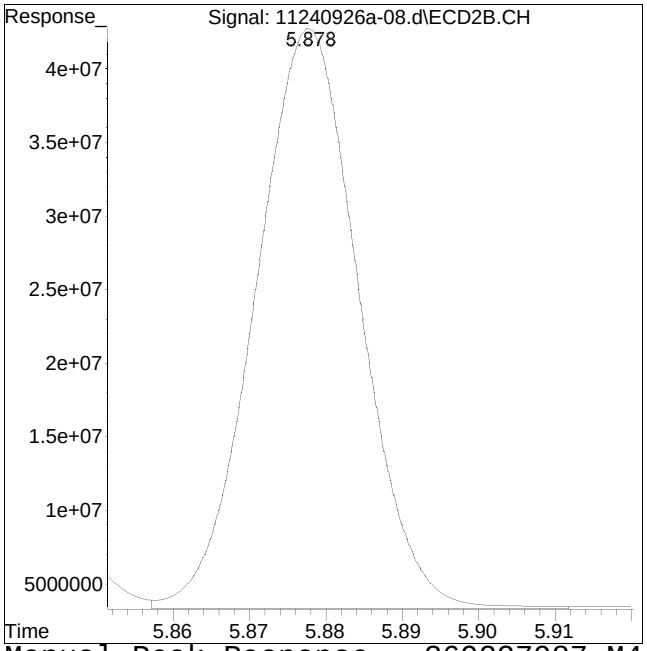
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 371173646



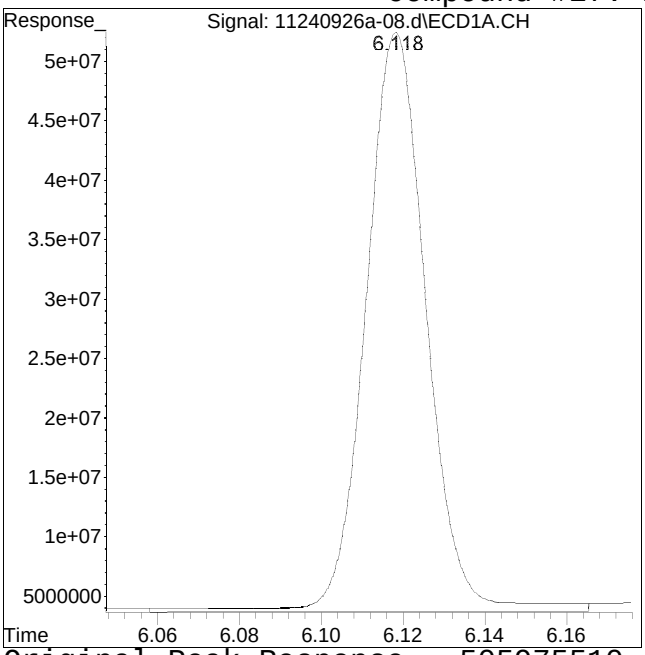
Manual Peak Response = 369227987 M4

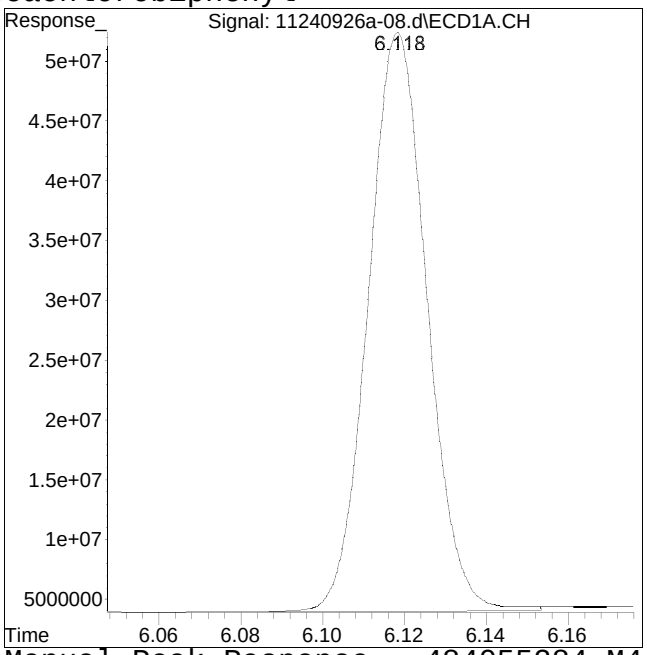
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #27: Decachlorobiphenyl



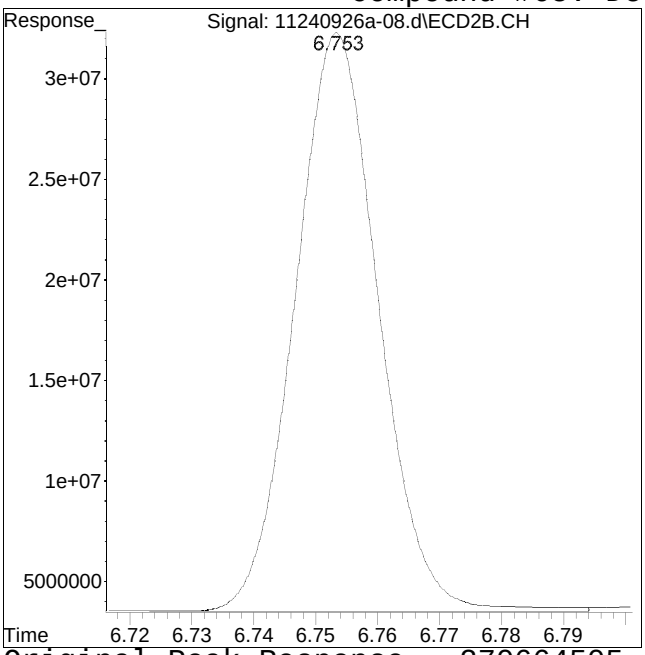


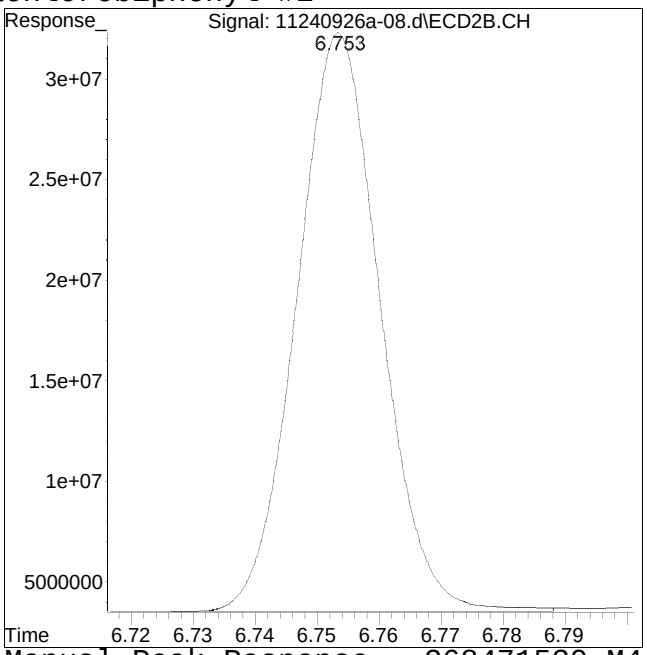
Original Peak Response = 505975510 Manual Peak Response = 484055284 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-08.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:25 Instrument : Pest 11
Sample : WG1976222-2,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 270664505 Manual Peak Response = 268471530 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:37
Operator : PEST11:jag
Sample : WG1976222-3,42,, 222 (Sig #1); WG1976220-3,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240926A\11240926a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.188	1.261	270.7E6	187.4E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 317036447				Recovery =	85.38%	
	Standard Area 1 : #2 = 201988191				Recovery =	92.78%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.515	1.708	329.2E6	217.4E6	29.258M3	26.040M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	58.52%	52.08%	
27) s	Decachlorobi	6.118	6.754	400.0E6	217.1E6	31.765M3	27.326M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	63.53%	54.65%	
Target Compounds							
4) t	alpha-BHC	1.809	2.097	575.9E6	371.9E6	36.415M3	30.633M4
5) t	gamma-BHC (l	2.000	2.366	531.8E6	340.1E6	35.197M4	29.481M4
6) t	beta-BHC	2.054	2.430	237.0E6	150.2E6	34.865M4	31.541M4
7) t	delta-BHC	2.174	2.683	440.0E6	269.4E6	29.573M4	23.596M4
8) t	Heptachlor	2.328	2.740	528.9E6	320.4E6	36.977M4	26.751M4
9) t	Aldrin	2.558	3.042	455.8E6	295.4E6	34.132M4	27.467M4
12) t	Heptachlor E	3.077	3.631	453.9E6	280.0E6	35.359M4	26.203M4
13) t	gamma-Chlord	3.196	3.844	465.2E6	288.0E6	39.896M4	29.291M4
14) t	alpha-Chlord	3.326	4.011	417.5E6	284.1E6	31.706M4	26.211M4
15) t	4,4'-DDE	3.423	4.230	444.2E6	276.4E6	34.431M4	27.456M4
16) t	Endosulfan I	3.454	4.074	417.4E6	261.2E6	34.535	26.160M4
17) t	Dieldrin	3.704	4.389	480.0E6	298.6E6	39.054M4	30.007M4
18) t	Endrin	3.950	4.704	456.0E6	282.6E6	36.535M4	27.989
19) t	4,4'-DDD	4.071	4.845	377.7E6	232.9E6	37.618M4	28.662M4
20) t	Endosulfan I	4.204	4.916	377.2E6	233.1E6	33.117M4	25.621M4
21) t	4,4'-DDT	4.388	5.132	420.4E6	254.7E6	36.687M4	27.175

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:37
Operator : PEST11:jag
Sample : WG1976222-3,42,, 222 (Sig #1); WG1976220-3,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240926A\11240926a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.648	5.224	250.8E6	158.7E6	26.132M4	22.462M4
23) t Methoxychlor	4.909	5.718	239.7E6	140.9E6	37.409M4	26.677M4
25) t Endosulfan S	5.057	5.461	349.1E6	211.9E6	31.932M4	23.570
26) t Endrin Keton	5.290	5.878	442.2E6	268.0E6	34.517M4	28.358M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

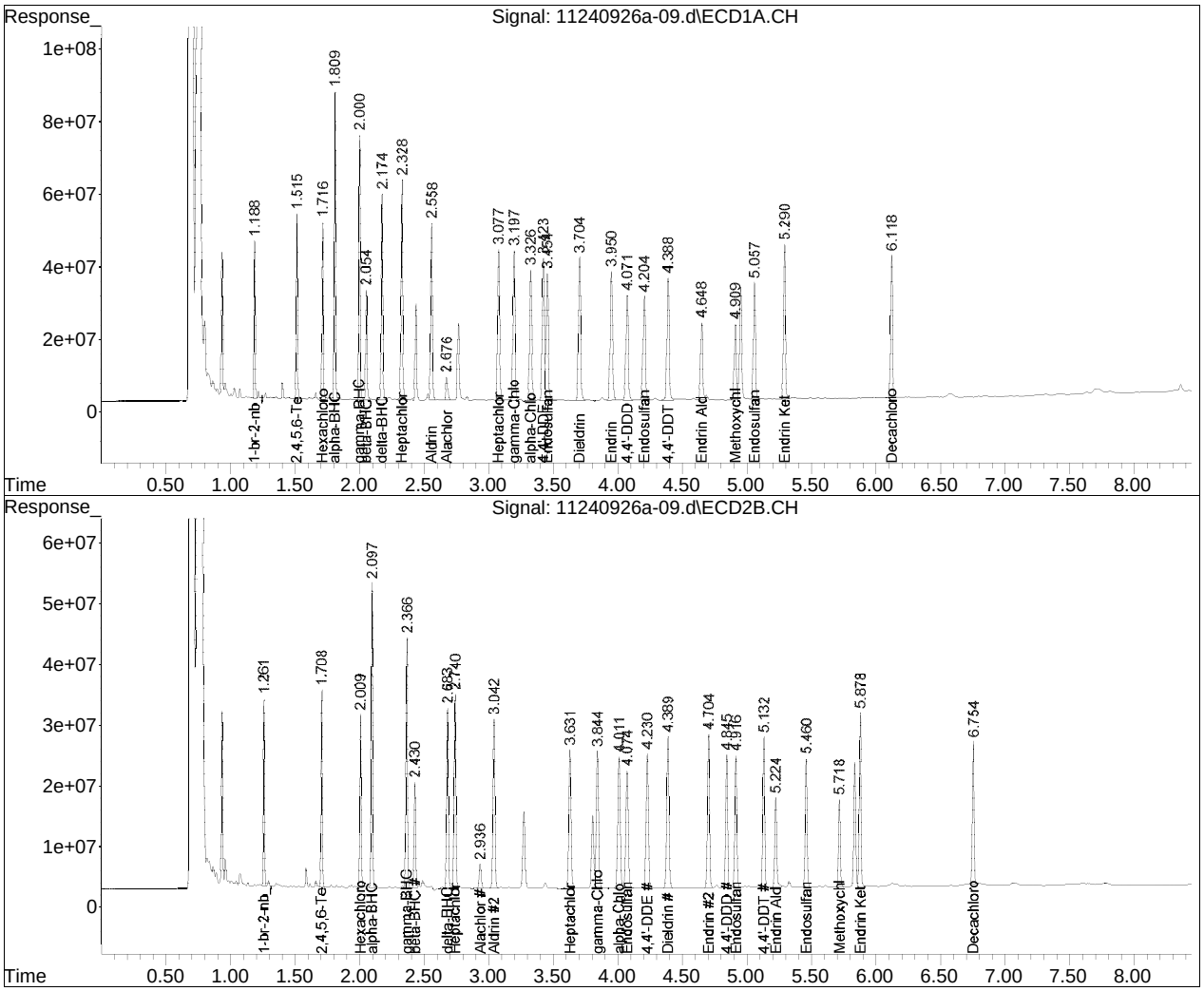
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240926A\11240926a-03.d•

Data Path : I:\PEST\Pest11\2024\240926A\
Data File : 11240926a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Sep 2024 8:37
Operator : PEST11:jag
Sample : WG1976222-3,42,, 222 (Sig #1); WG1976220-3,42,, 222 (Sig #2)
Misc : wg1976509,WG1976222,ical21365
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 14:54:39 2024
Quant Method : I:\PEST\Pest11\2024\240926A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Thu Sep 26 07:32:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

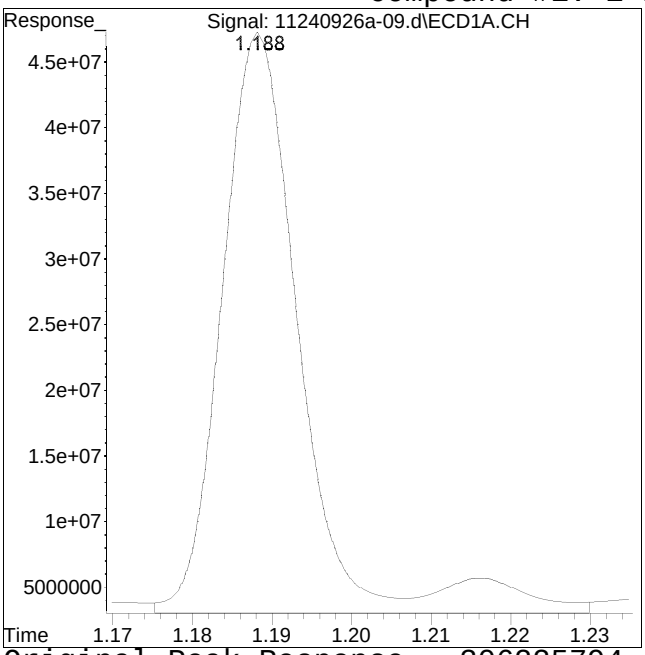
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

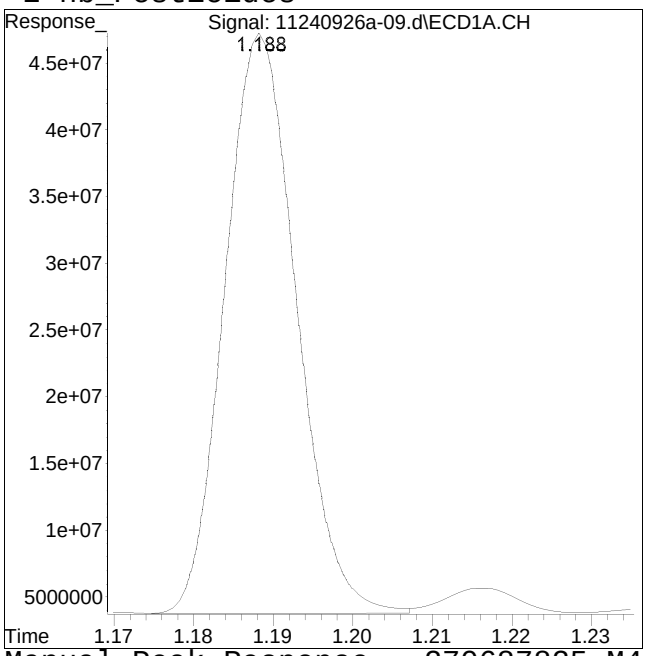


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #1: 1-br-2-nb_Pesticides



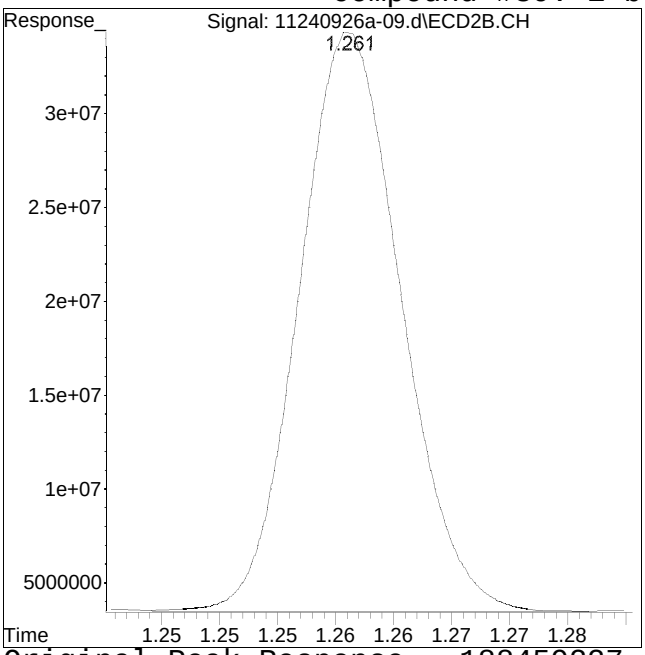


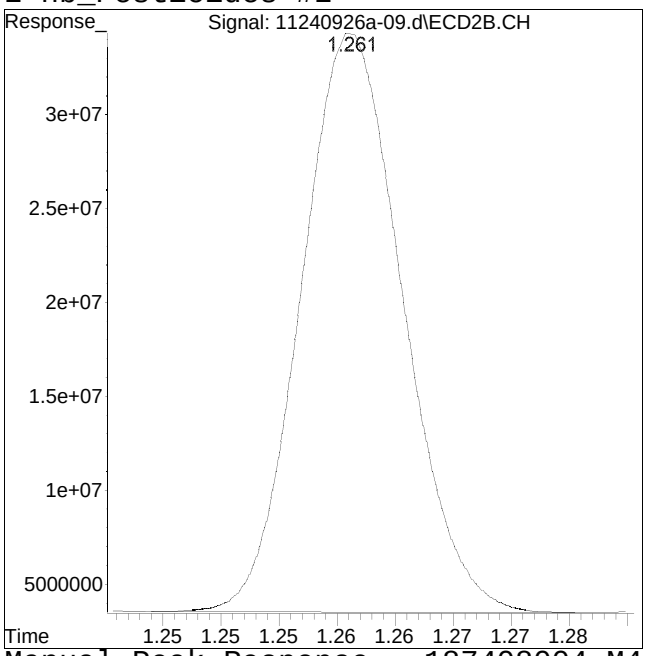
Original Peak Response = 306225794 Manual Peak Response = 270687825 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #39: 1-br-2-nb_Pesticides #2



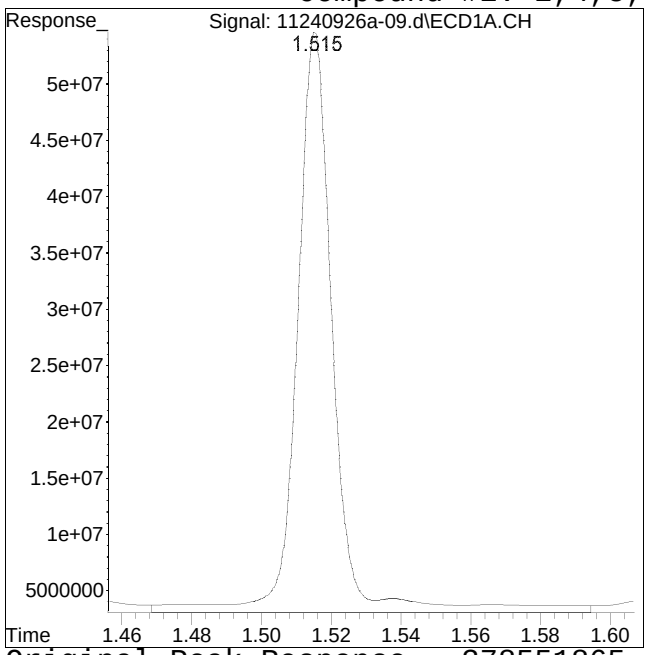


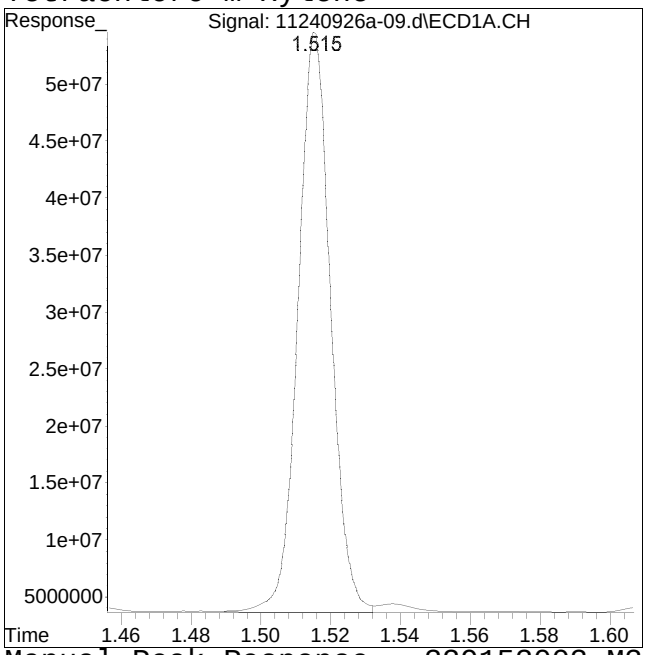
Original Peak Response = 188459227 Manual Peak Response = 187408004 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



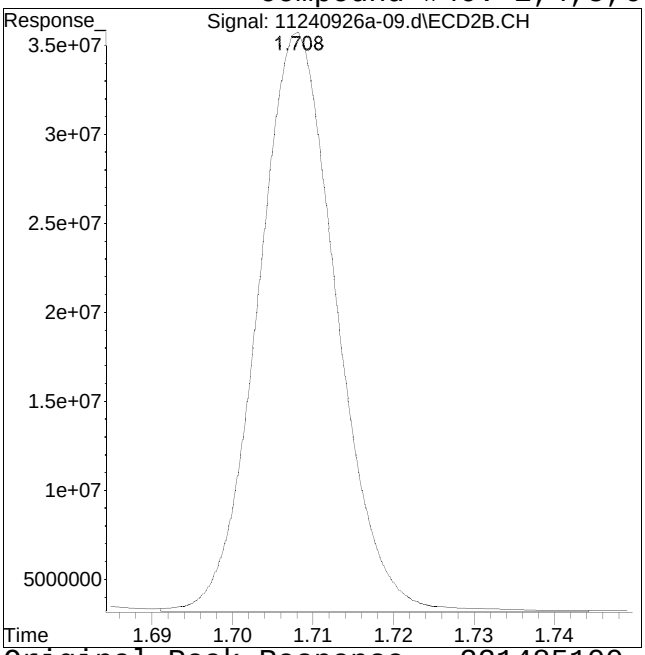


Original Peak Response = 378551865 Manual Peak Response = 329153003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

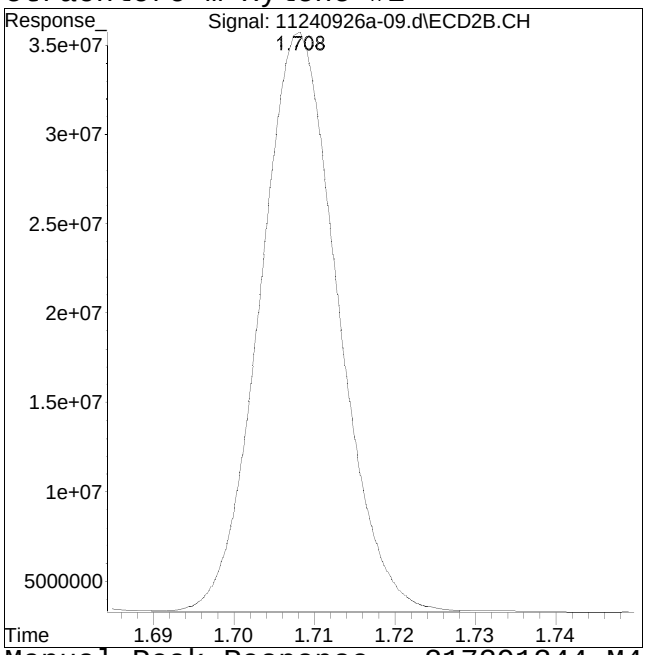
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 221485100



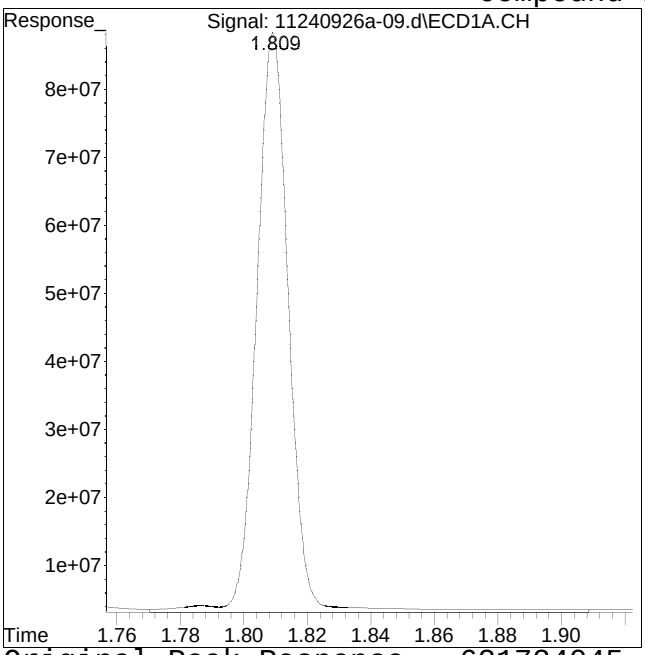
Manual Peak Response = 217391344 M4

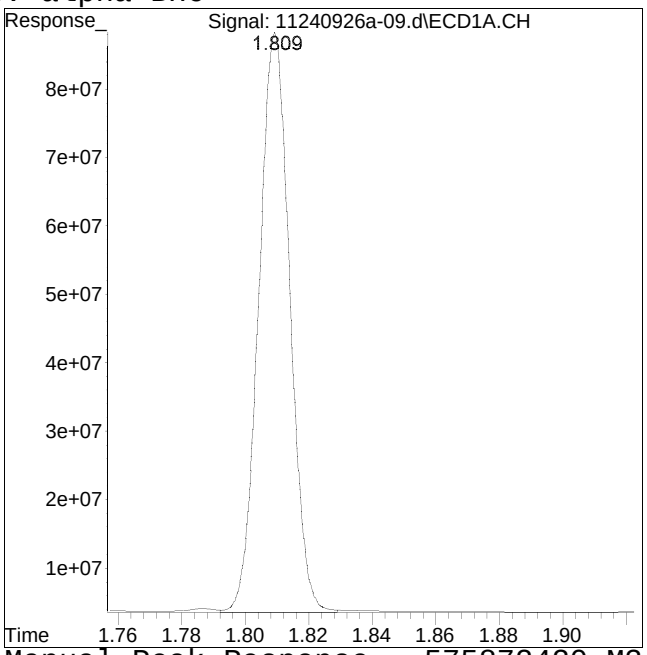
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #4: alpha-BHC



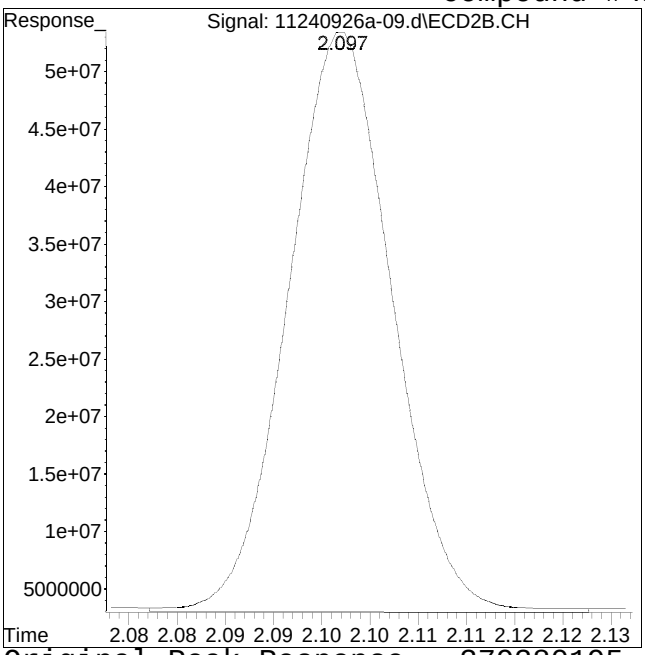


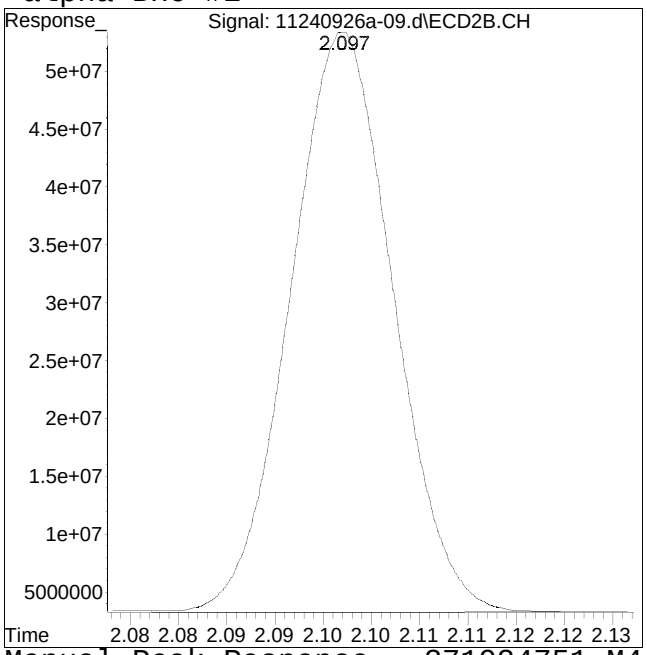
Original Peak Response = 621724045 Manual Peak Response = 575872420 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #42: alpha-BHC #2



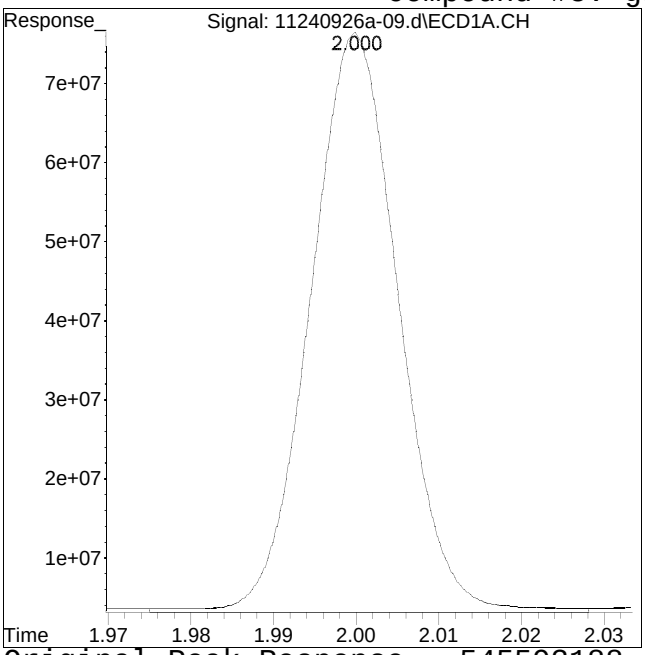


Original Peak Response = 379380195 Manual Peak Response = 371924751 M4
M4 = Poor automated baseline construction.

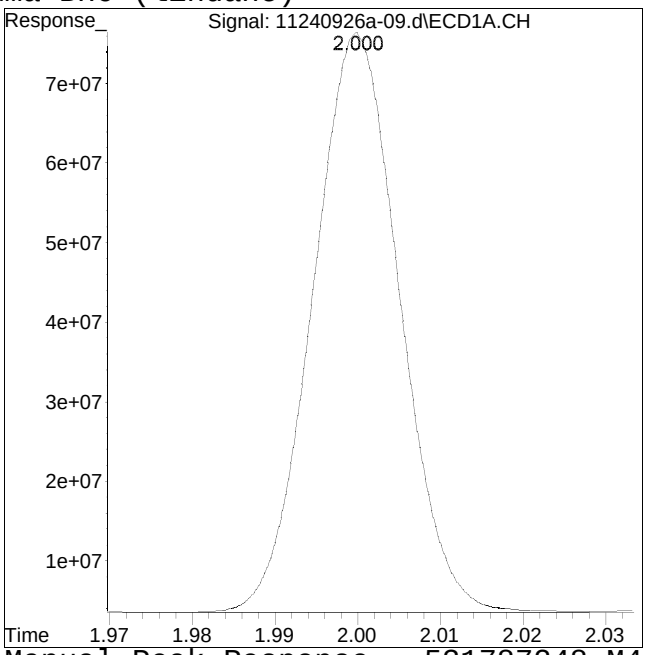
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 545593188



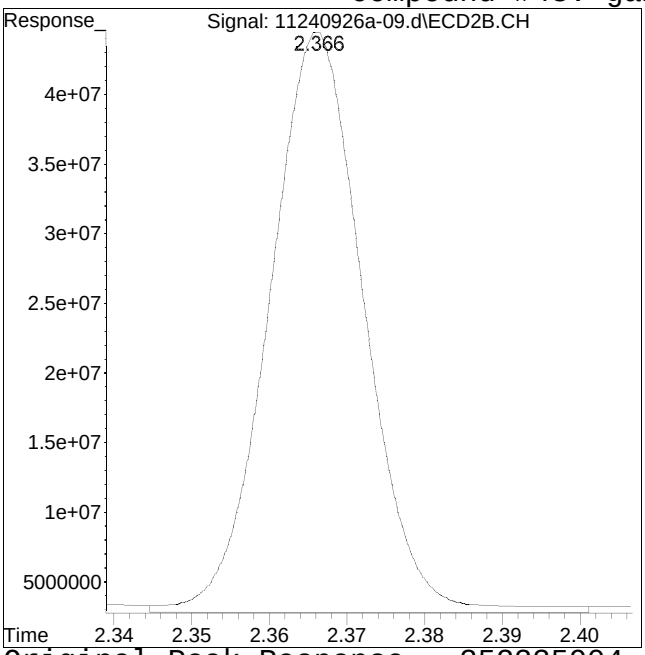
Manual Peak Response = 531787248 M4

M4 = Poor automated baseline construction.

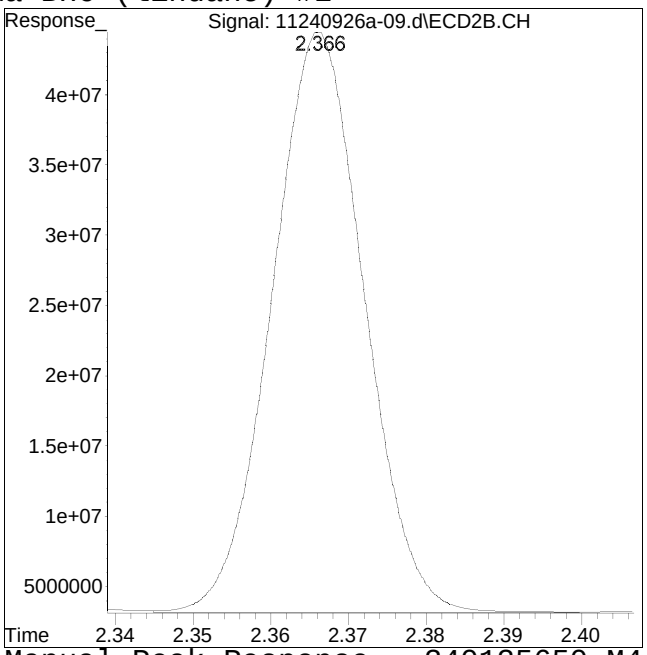
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 352335904



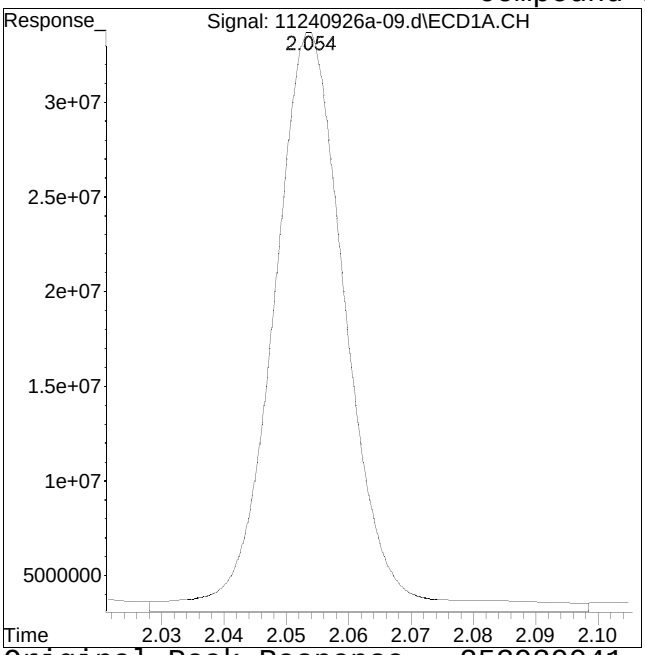
Manual Peak Response = 340135650 M4

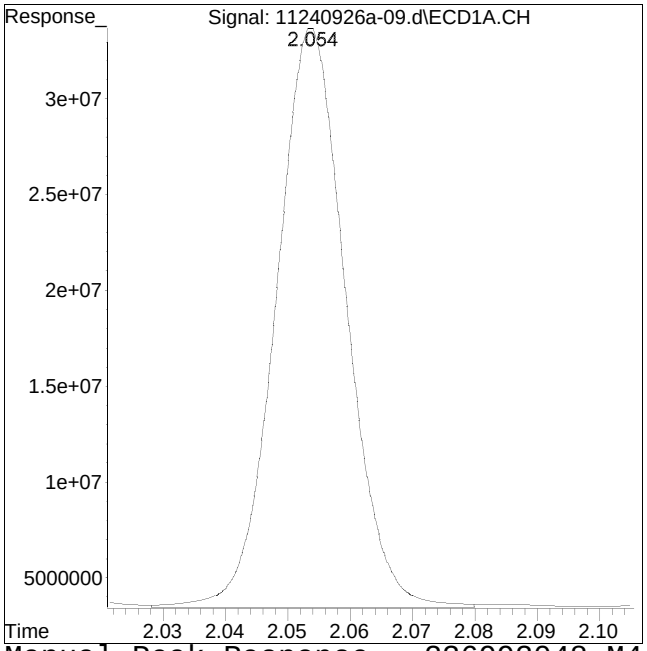
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #6: beta-BHC



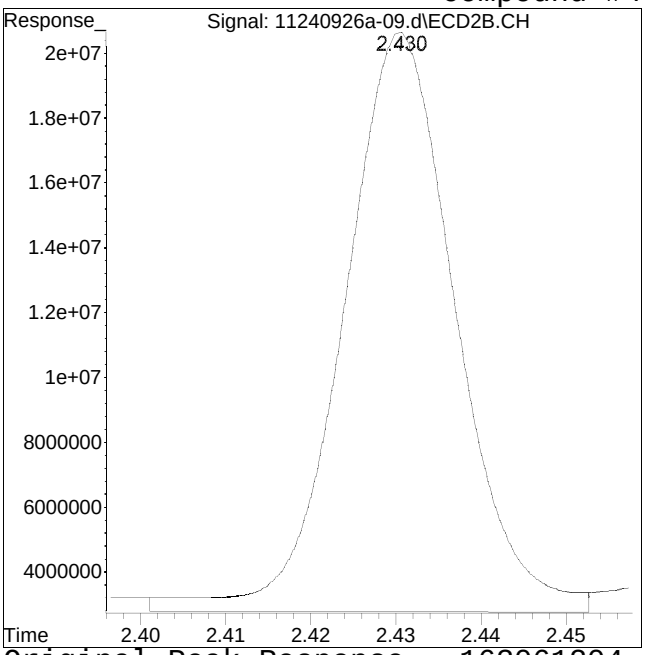


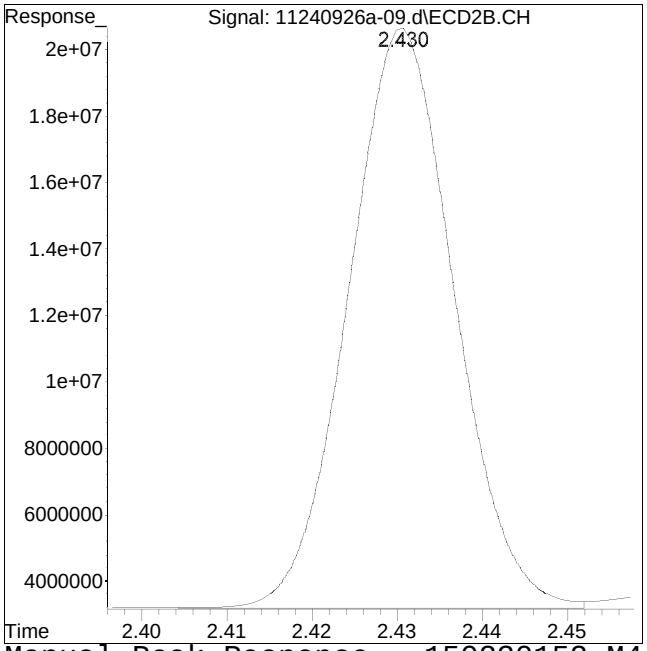
Original Peak Response = 253939941 Manual Peak Response = 236993048 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #44: beta-BHC #2



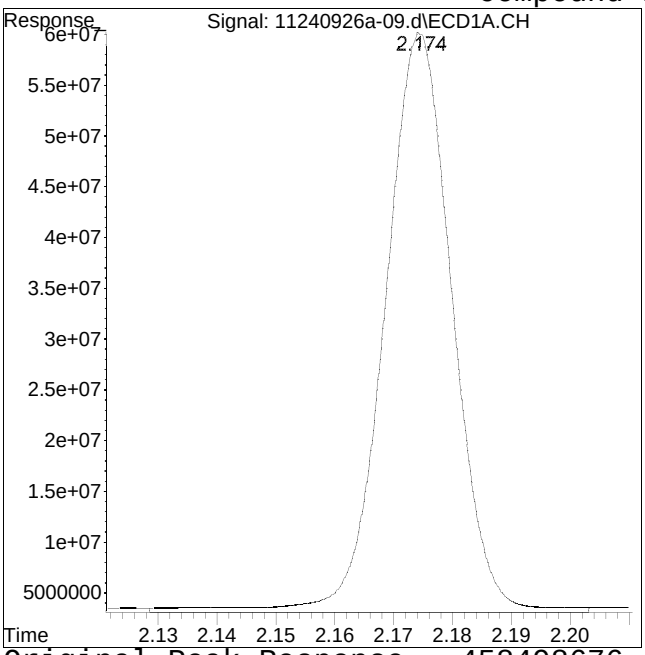


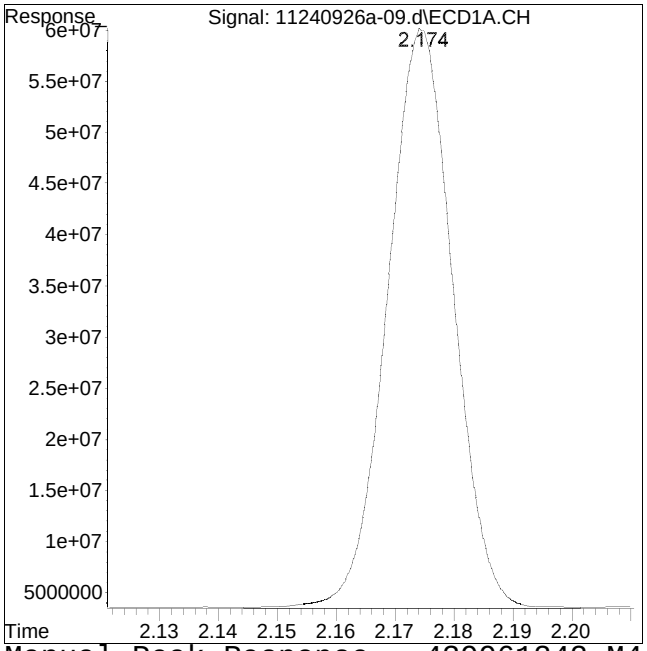
Original Peak Response = 163061204 Manual Peak Response = 150230152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #7: delta-BHC



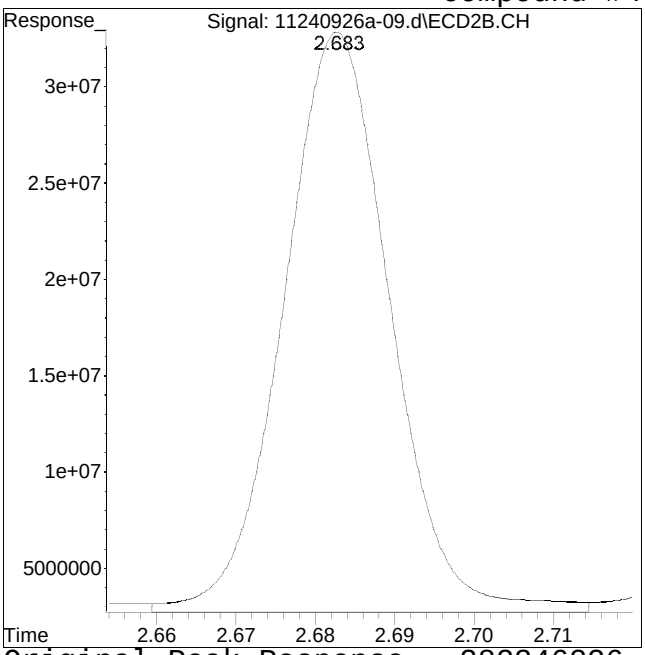


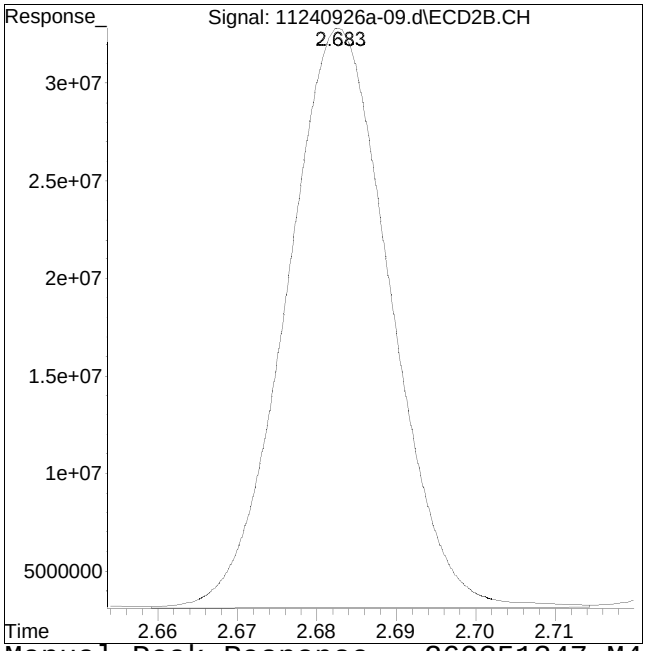
Original Peak Response = 458498676 Manual Peak Response = 439961242 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #45: delta-BHC #2



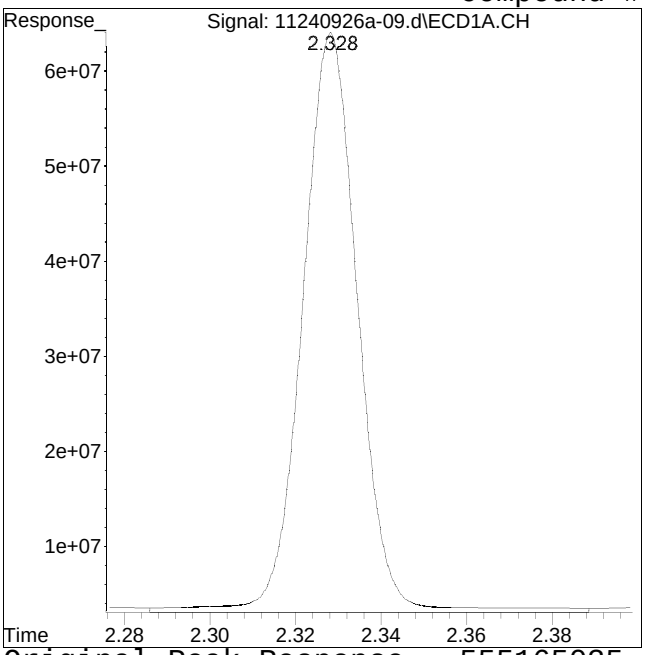


Original Peak Response = 282346226 Manual Peak Response = 269351347 M4
M4 = Poor automated baseline construction.

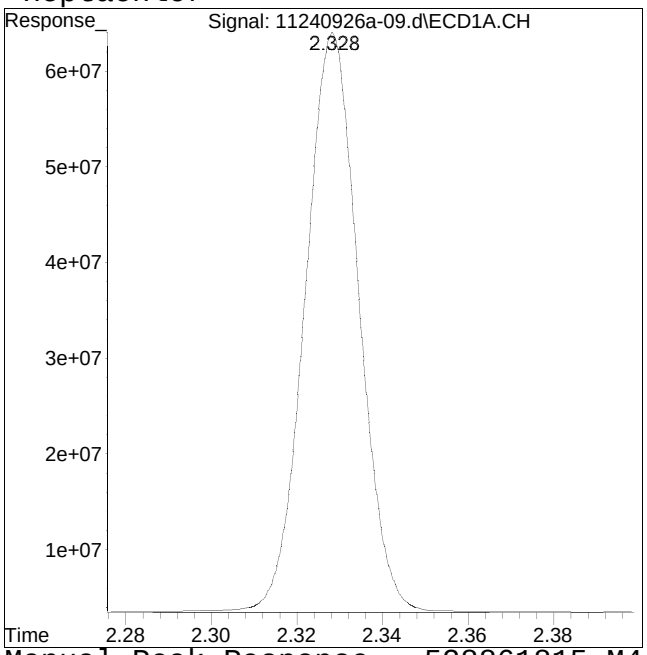
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #8: Heptachlor



Original Peak Response = 555165035



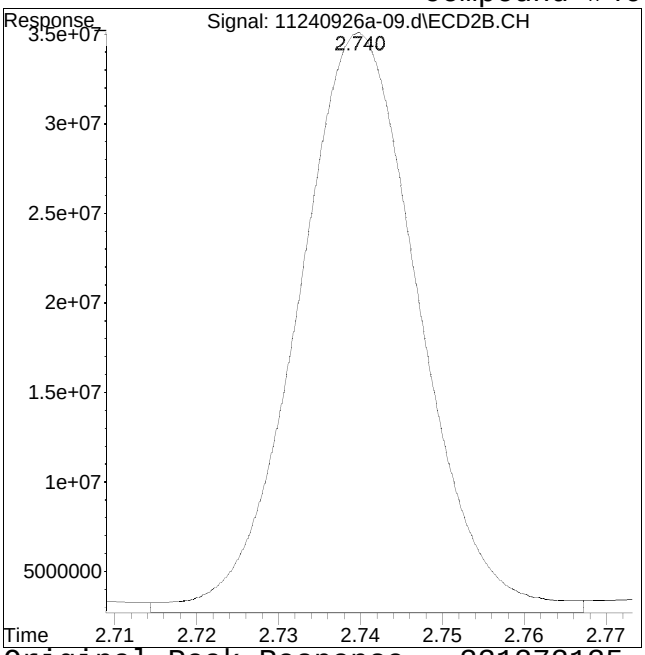
Manual Peak Response = 528861815 M4

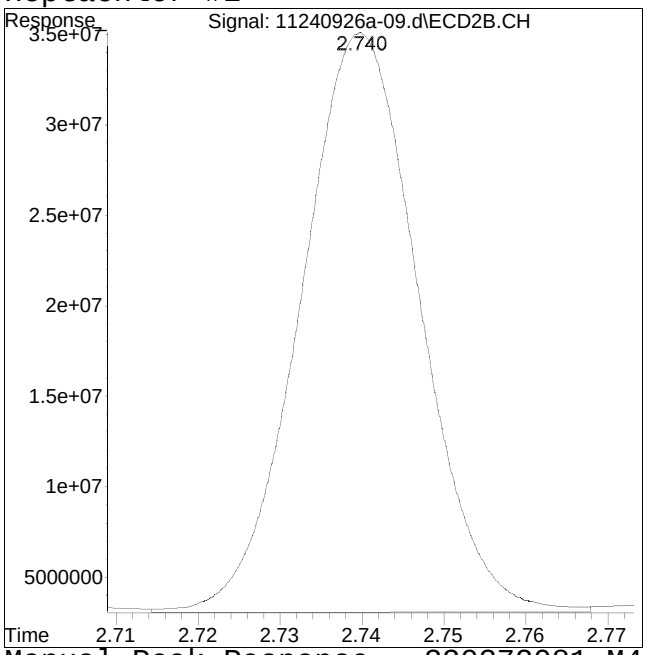
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #46: Heptachlor #2



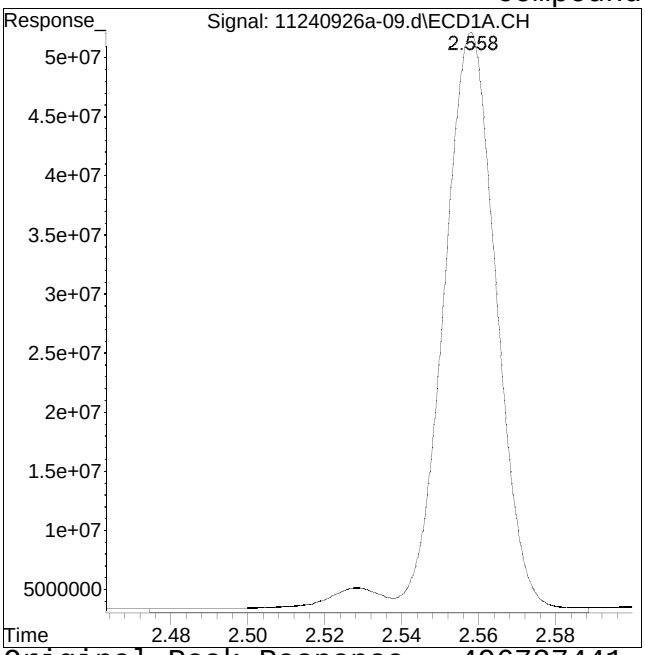


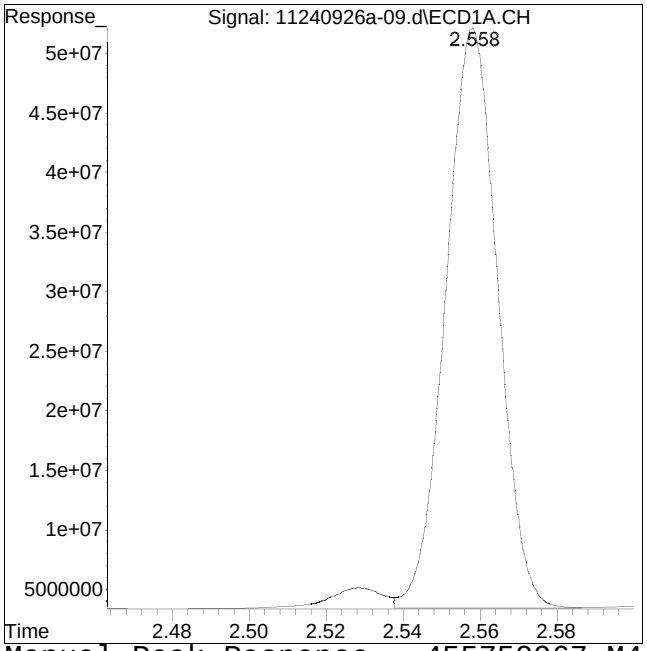
Original Peak Response = 331272135 Manual Peak Response = 320372081 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #9: Aldrin



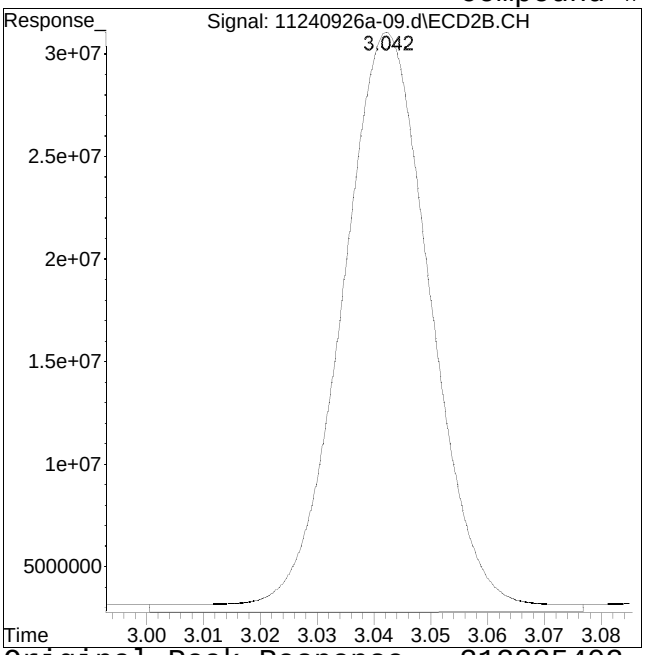


Original Peak Response = 496727441 Manual Peak Response = 455750967 M4
M4 = Poor automated baseline construction.

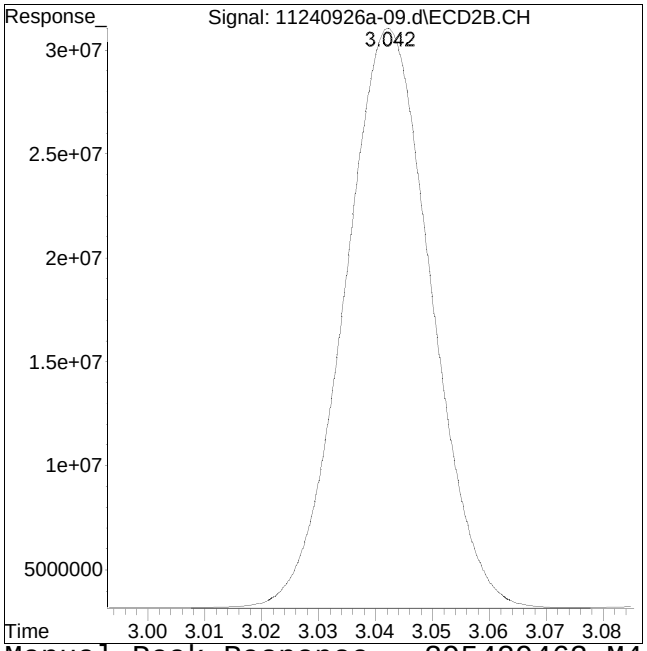
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #47: Aldrin #2



Original Peak Response = 312235402



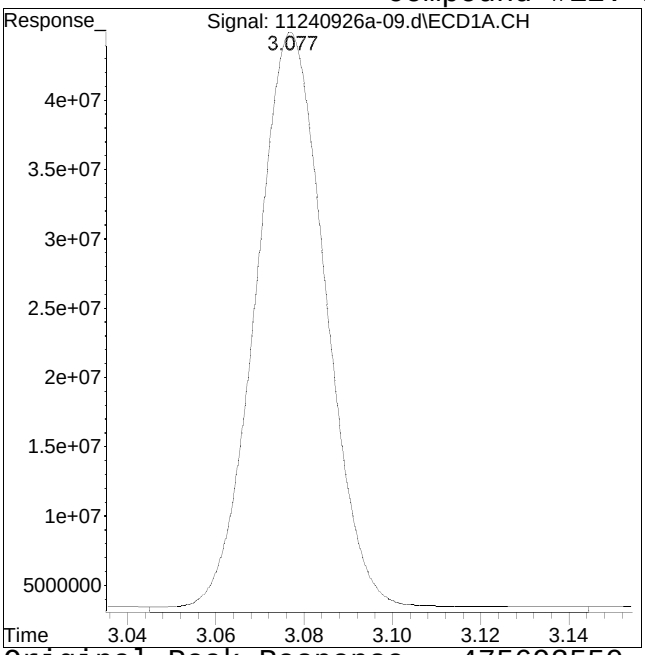
Manual Peak Response = 295429463 M4

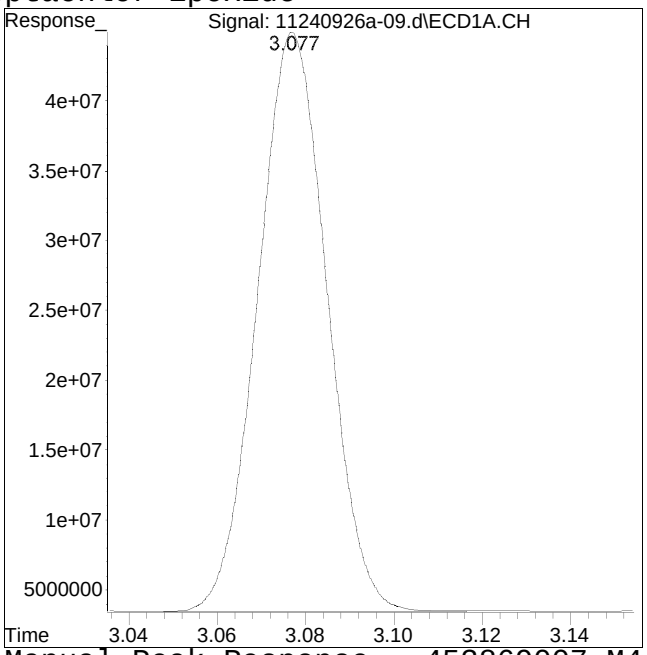
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #12: Heptachlor Epoxide



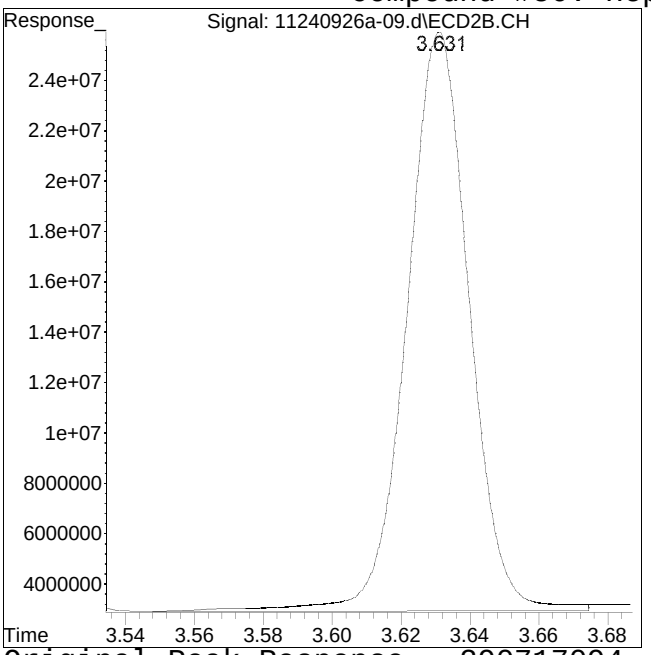


Original Peak Response = 475693550 Manual Peak Response = 453869007 M4
M4 = Poor automated baseline construction.

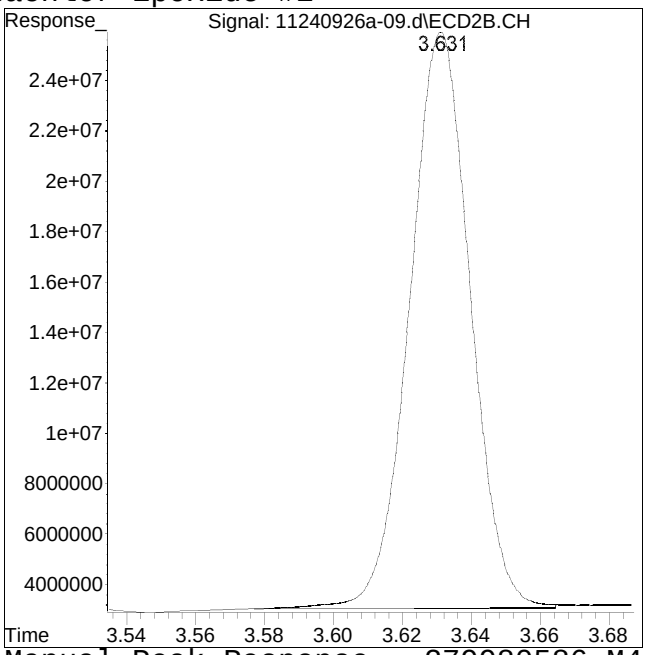
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 290717094



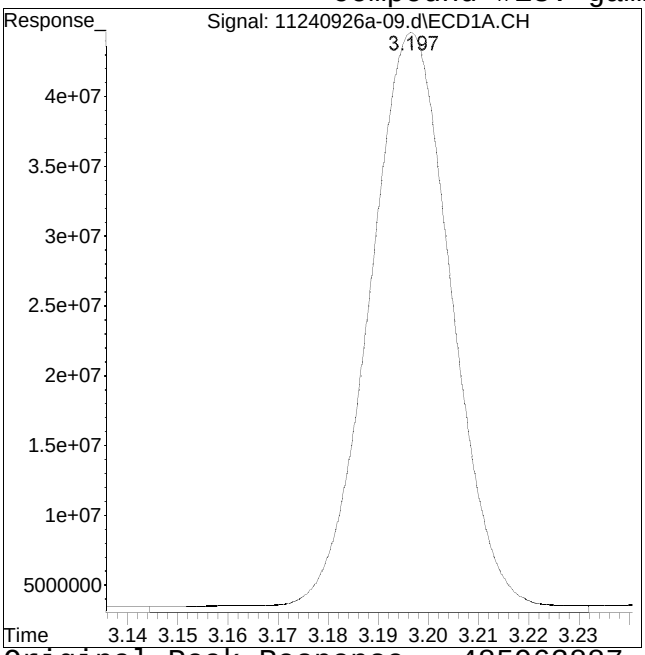
Manual Peak Response = 279980586 M4

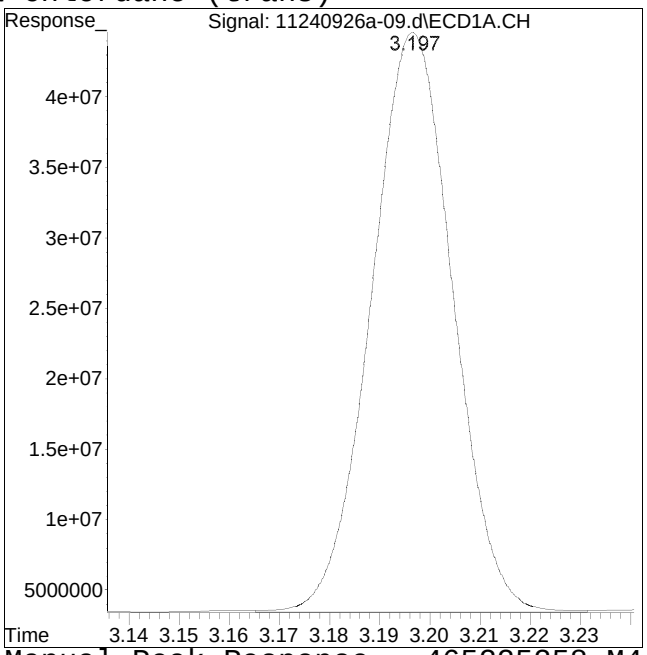
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #13: gamma-Chlordane (trans)



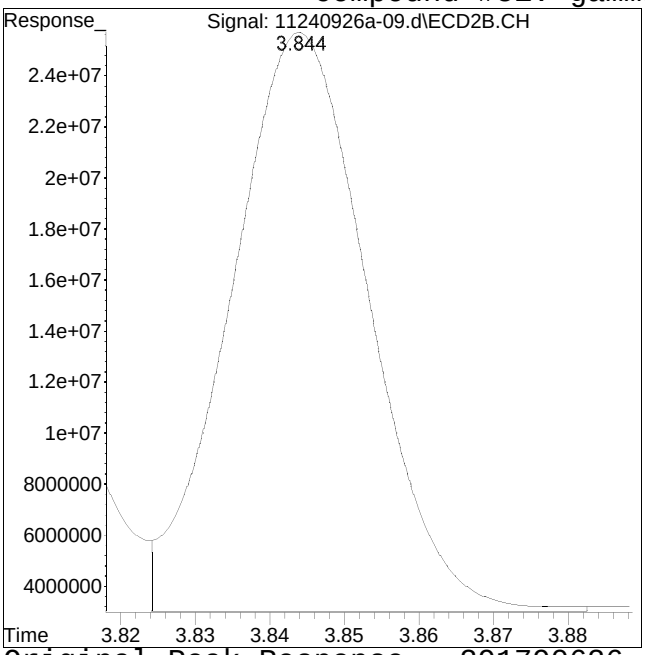


Original Peak Response = 485963887 Manual Peak Response = 465225258 M4
M4 = Poor automated baseline construction.

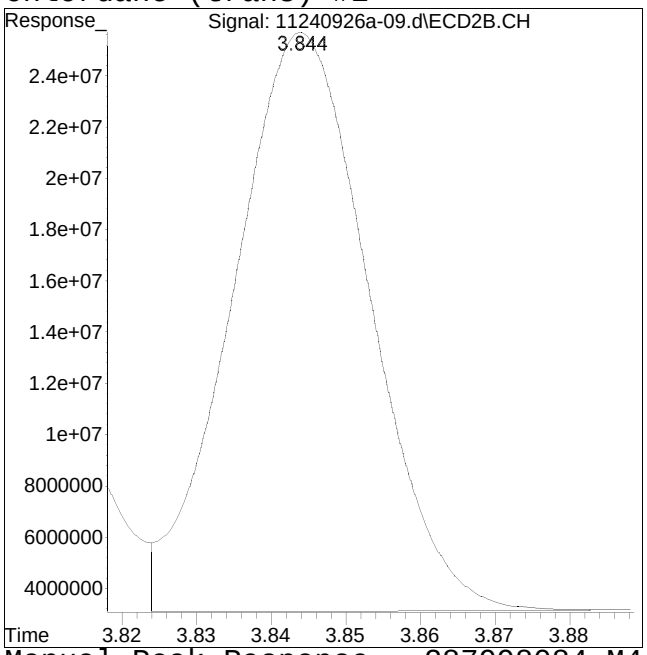
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 291790626



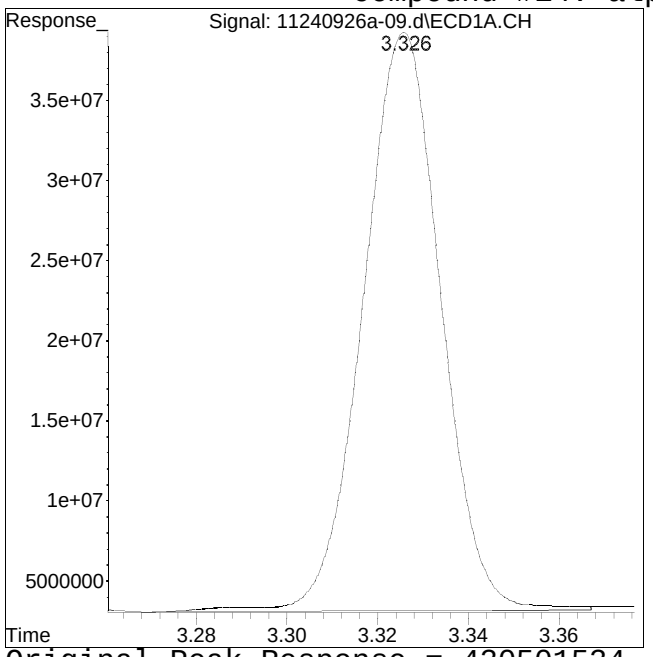
Manual Peak Response = 287998084 M4

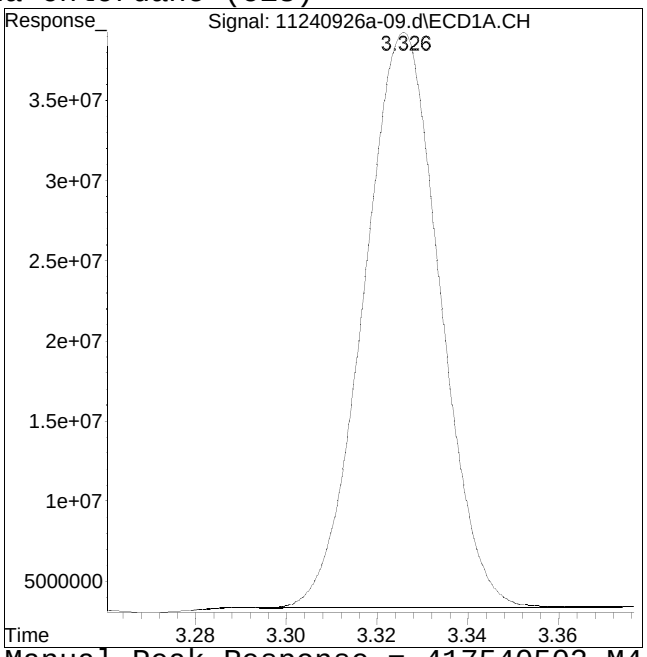
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #14: alpha-Chlordane (cis)



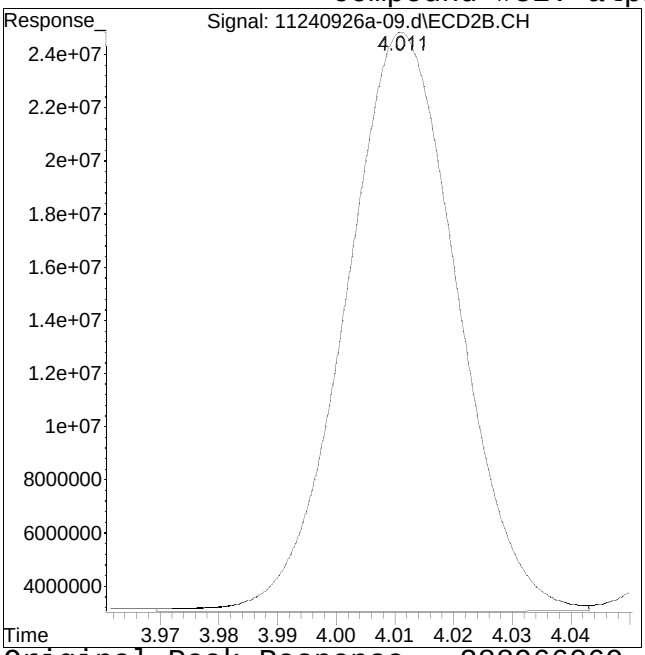


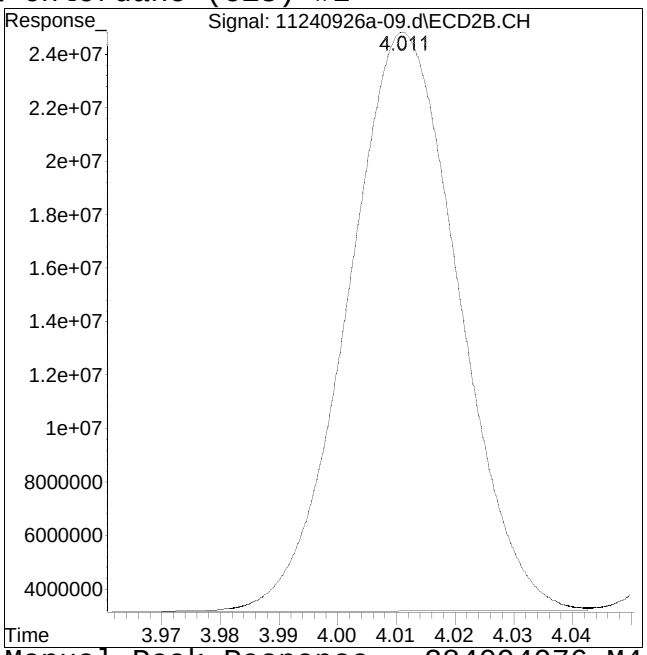
Original Peak Response = 430501534 Manual Peak Response = 417540502 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #52: alpha-Chlordane (cis) #2



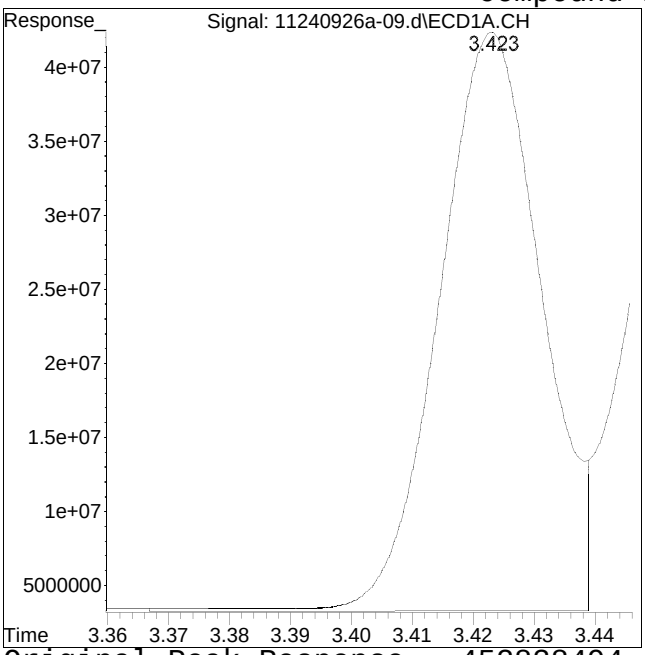


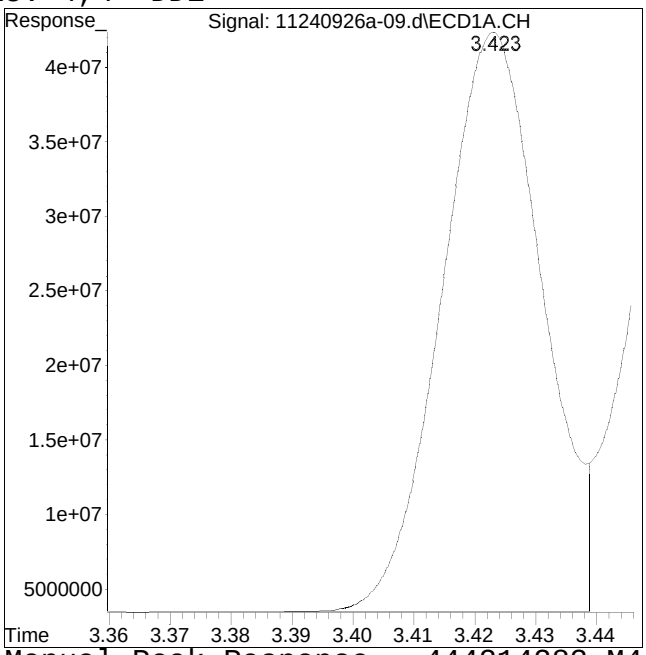
Original Peak Response = 288966069 Manual Peak Response = 284094076 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #15: 4,4'-DDE



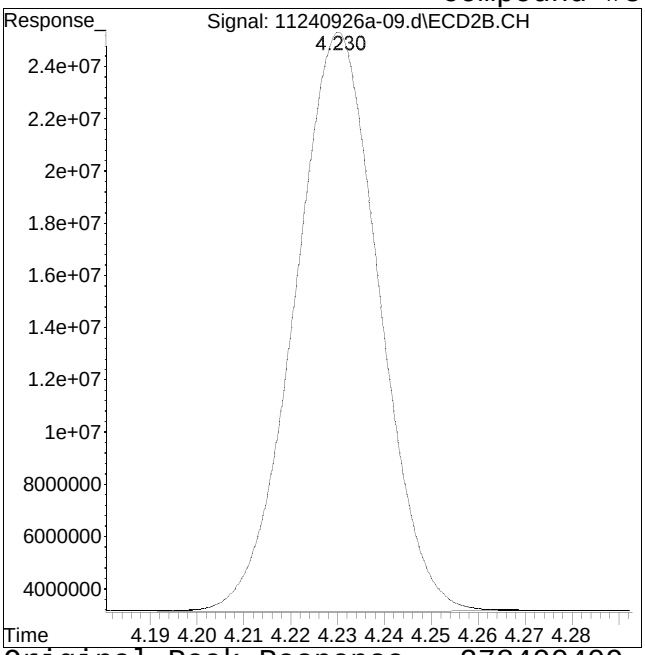


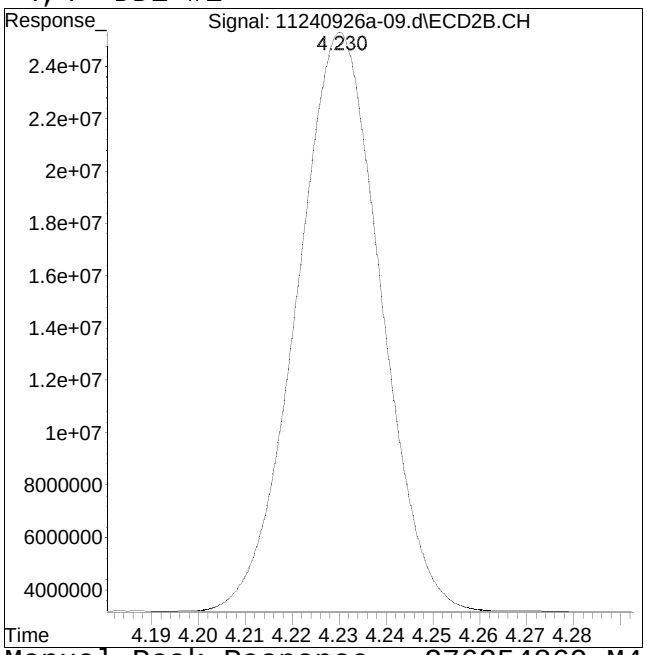
Original Peak Response = 452838494 Manual Peak Response = 444214283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #53: 4,4'-DDE #2



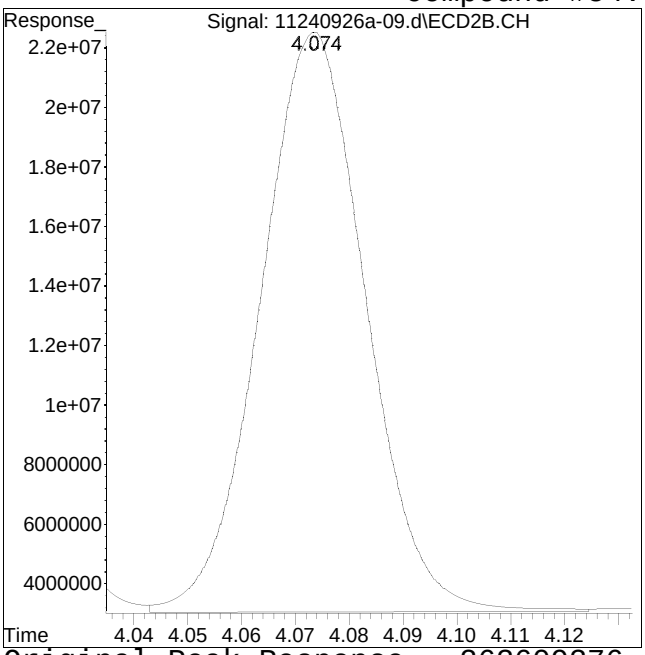


Original Peak Response = 278400409 Manual Peak Response = 276354869 M4
M4 = Poor automated baseline construction.

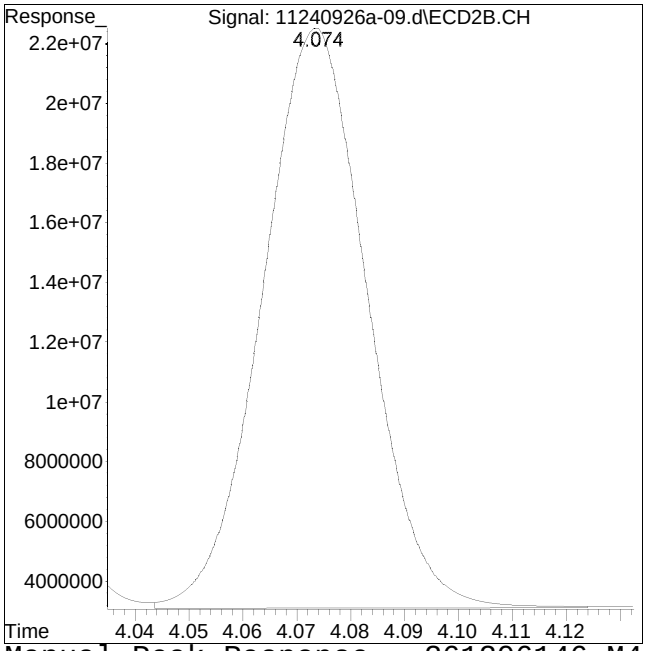
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #54: Endosulfan I #2



Original Peak Response = 263609376



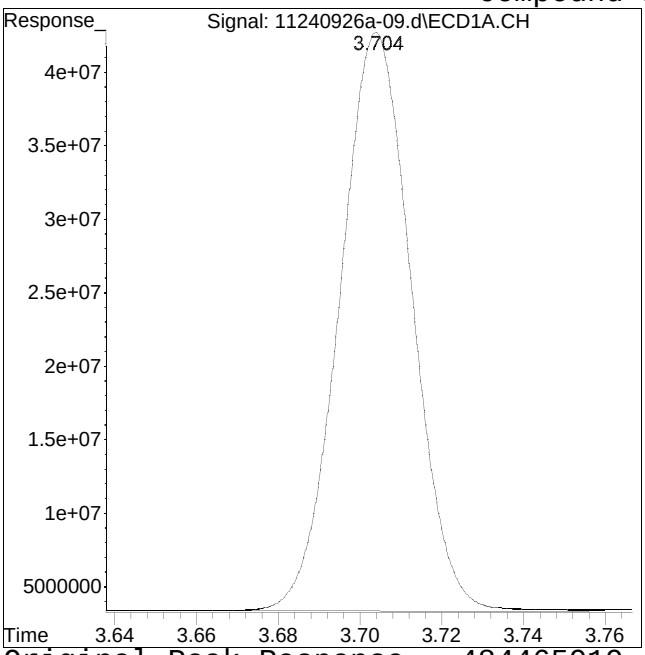
Manual Peak Response = 261206146 M4

M4 = Poor automated baseline construction.

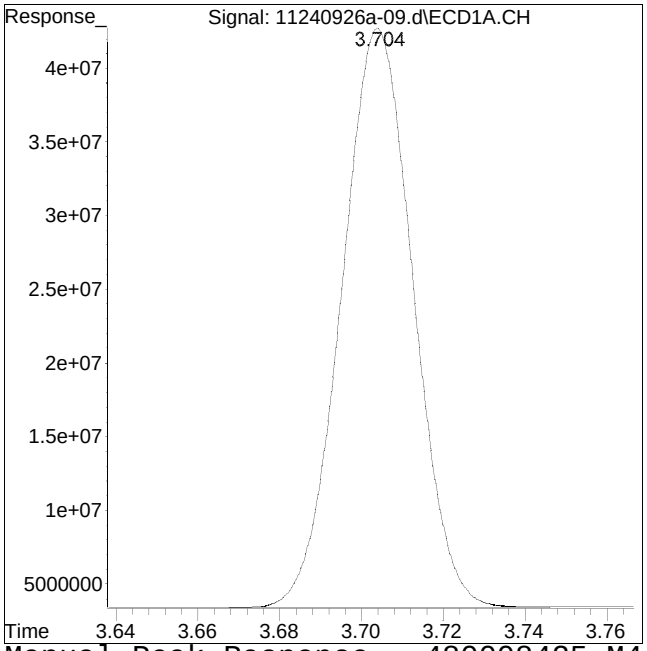
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #17: Dieldrin



Original Peak Response = 484465919



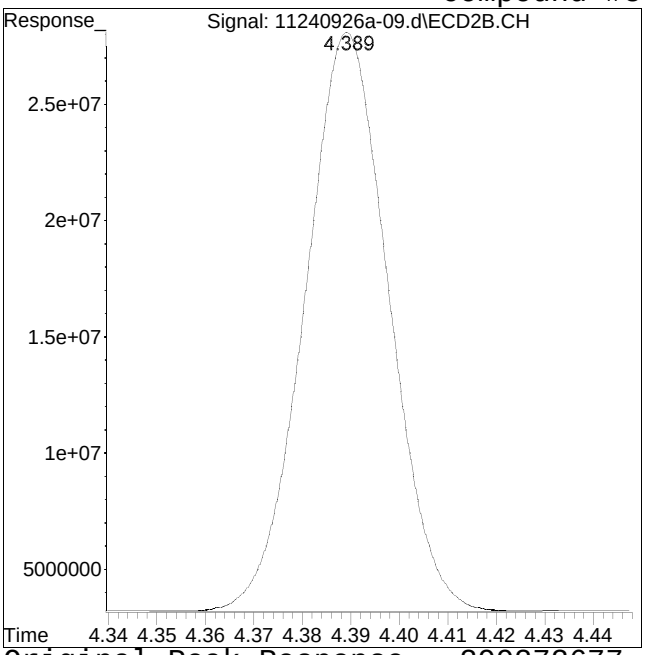
Manual Peak Response = 480008425 M4

M4 = Poor automated baseline construction.

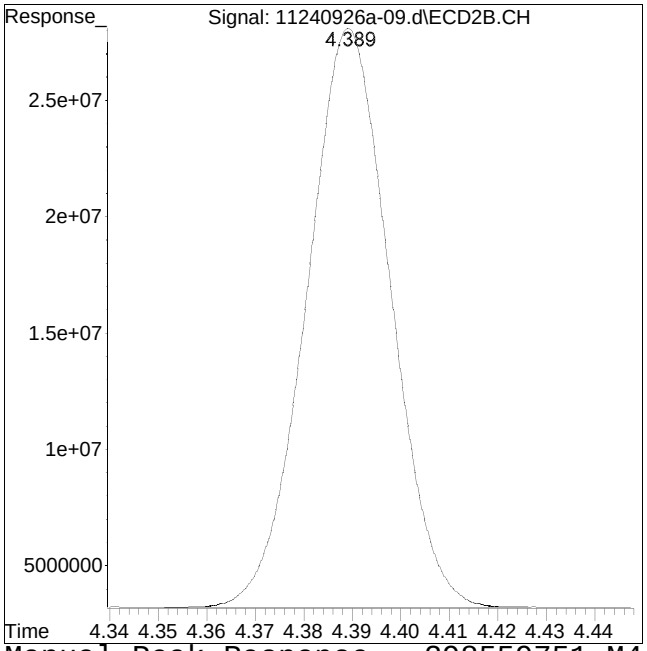
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #55: Dieldrin #2



Original Peak Response = 299272677



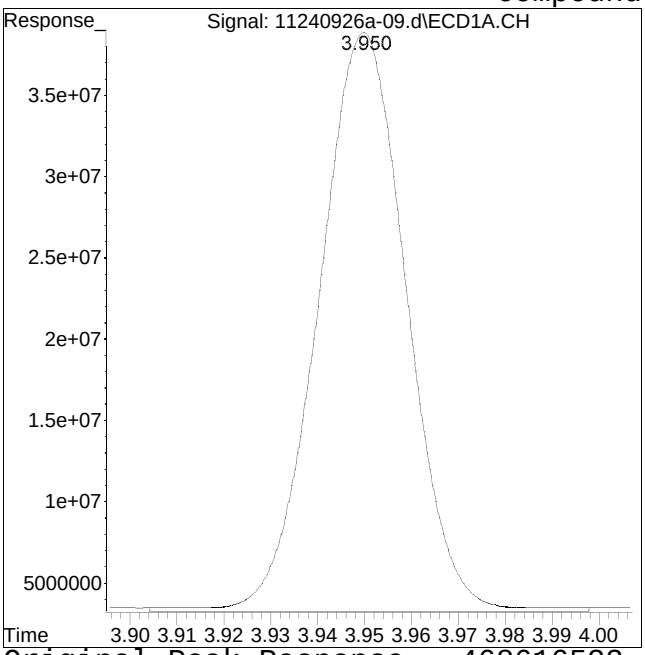
Manual Peak Response = 298559751 M4

M4 = Poor automated baseline construction.

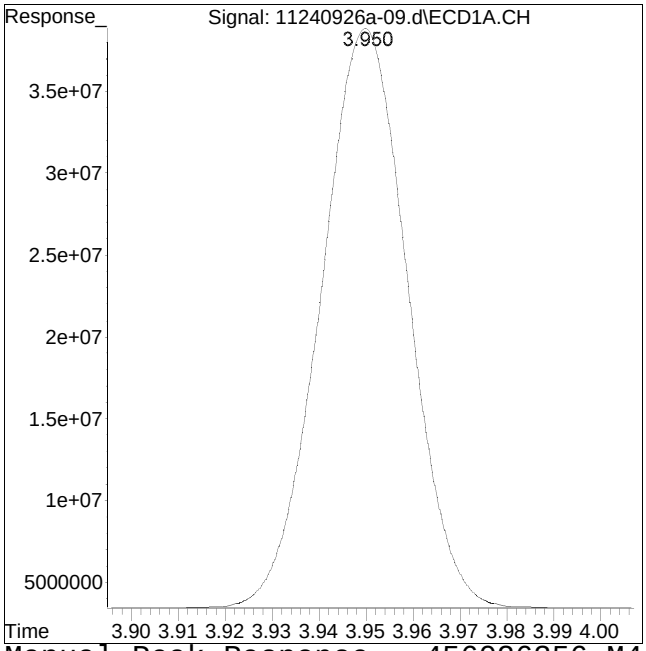
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #18: Endrin



Original Peak Response = 468616522



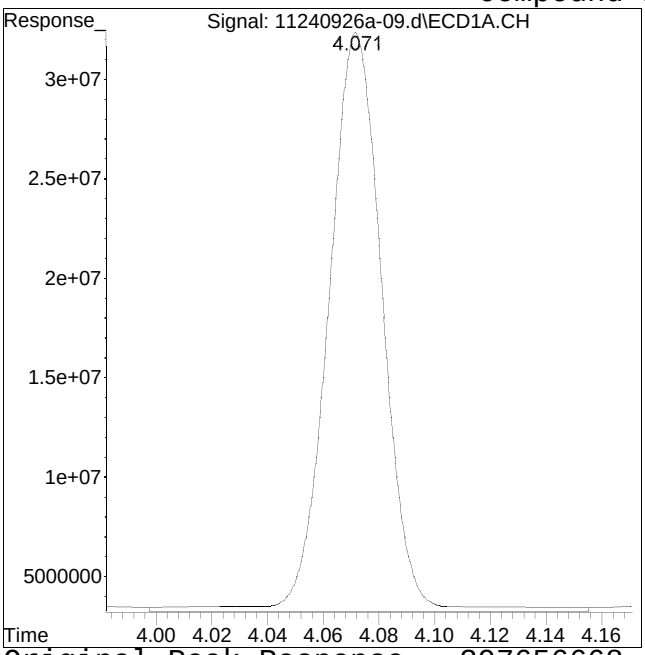
Manual Peak Response = 456026356 M4

M4 = Poor automated baseline construction.

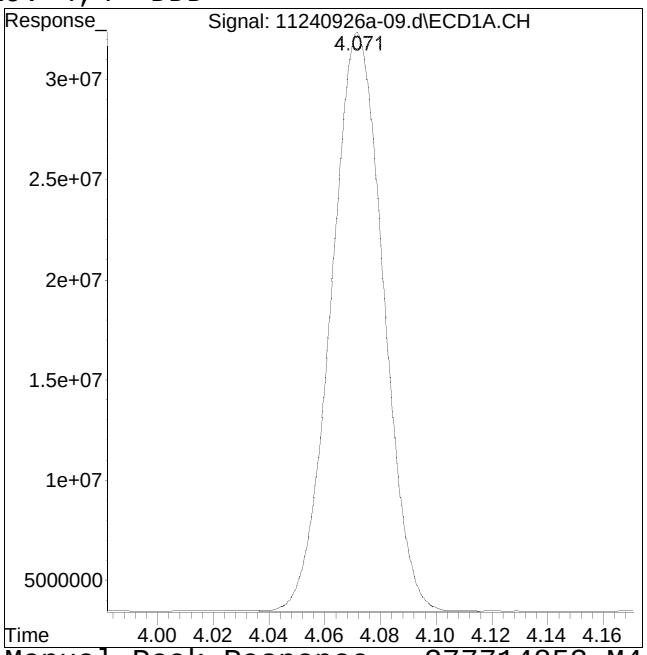
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #19: 4,4'-DDD



Original Peak Response = 397656668



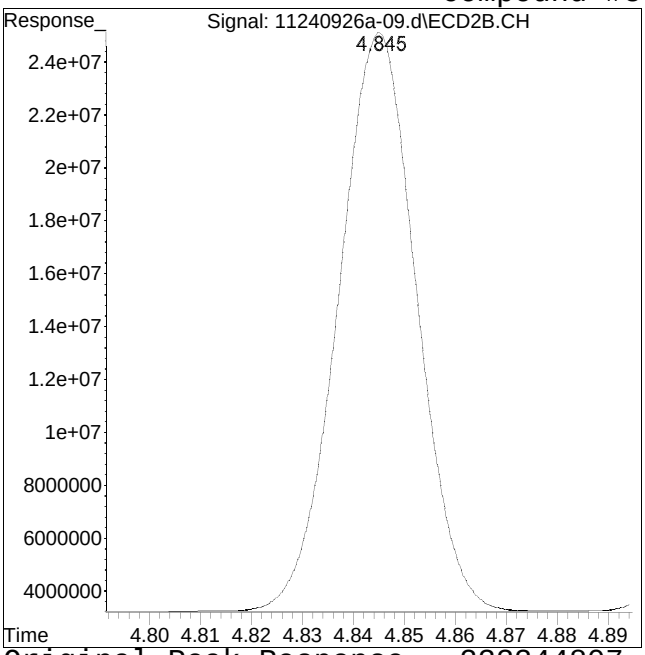
Manual Peak Response = 377714853 M4

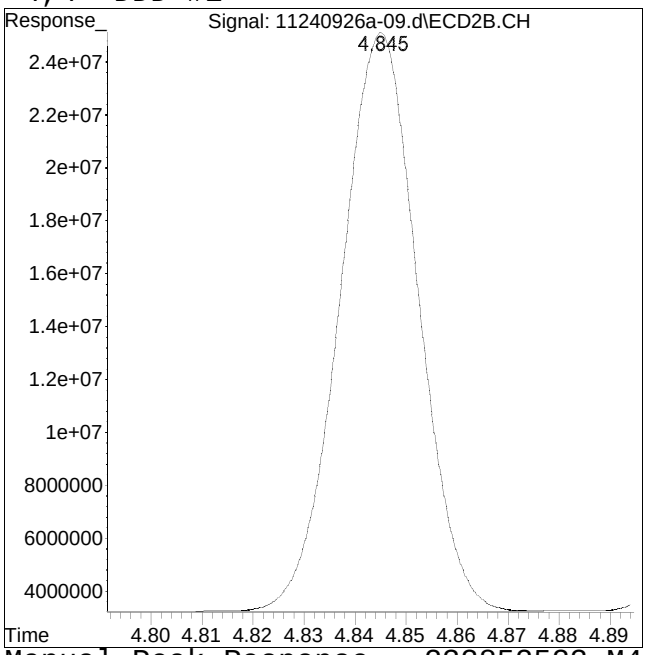
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #57: 4,4'-DDD #2



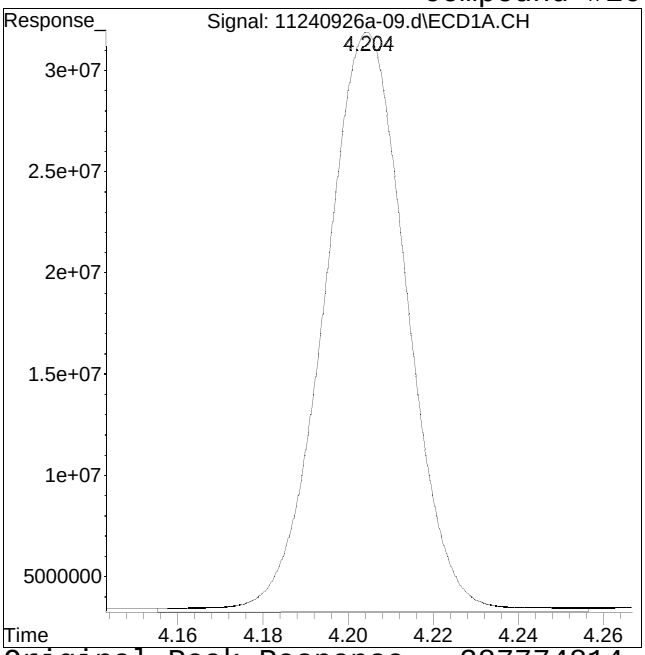


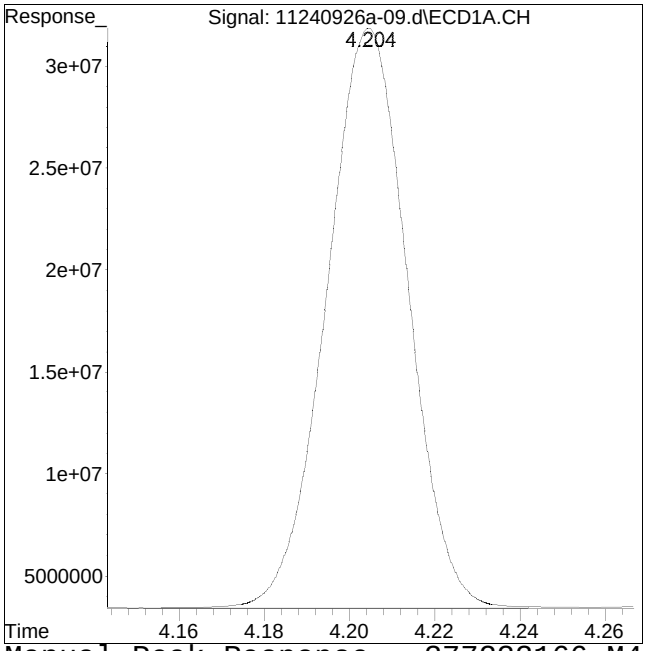
Original Peak Response = 233344807 Manual Peak Response = 232852523 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #20: Endosulfan II



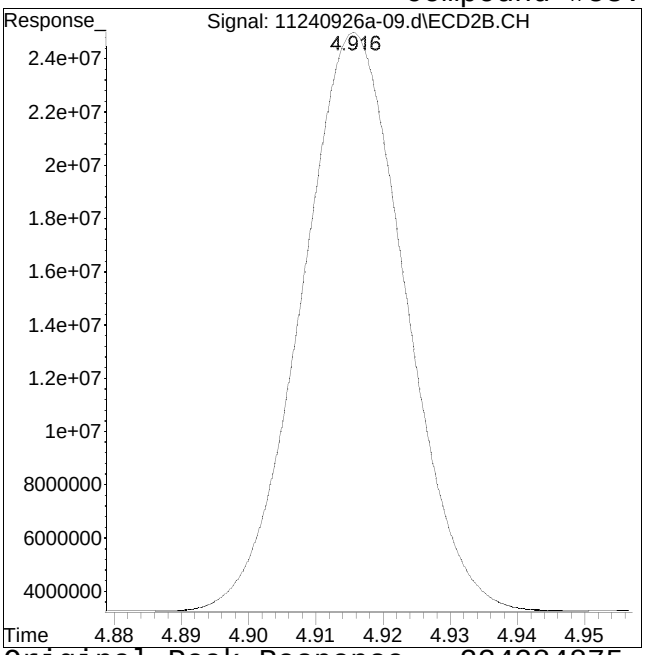


Original Peak Response = 387774814 Manual Peak Response = 377233166 M4
M4 = Poor automated baseline construction.

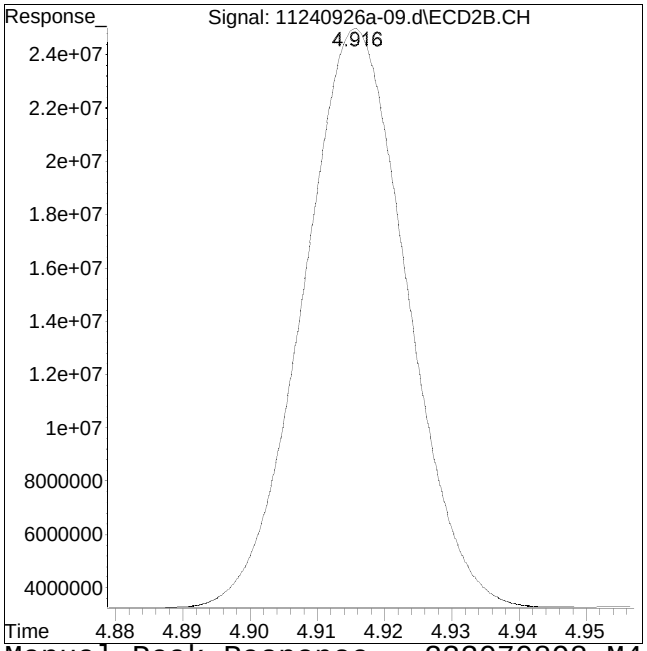
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #58: Endosulfan II #2



Original Peak Response = 234284875



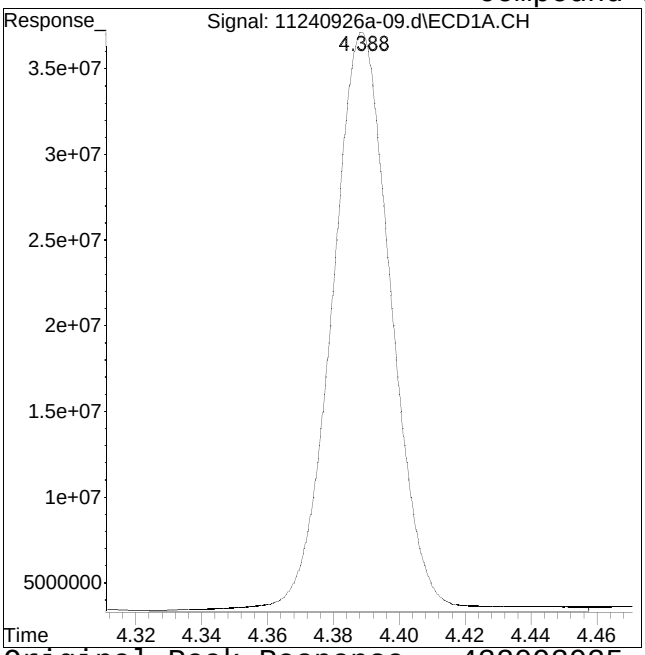
Manual Peak Response = 233070898 M4

M4 = Poor automated baseline construction.

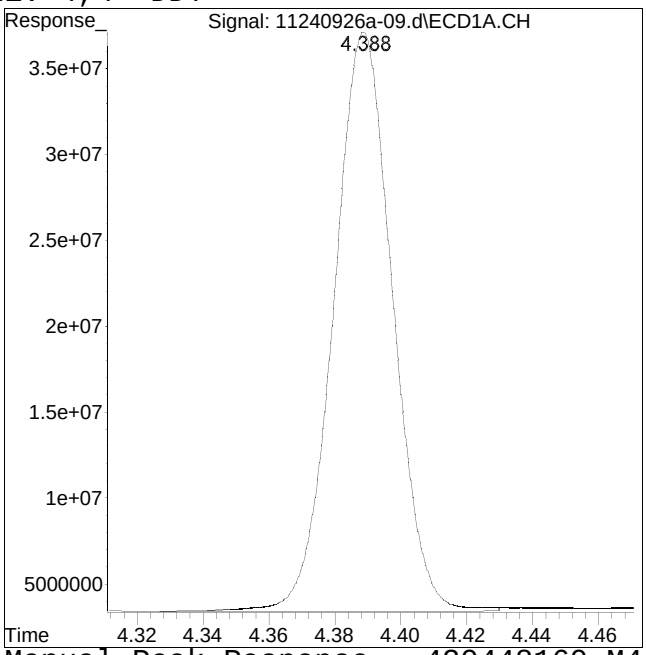
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #21: 4,4'-DDT



Original Peak Response = 432093935



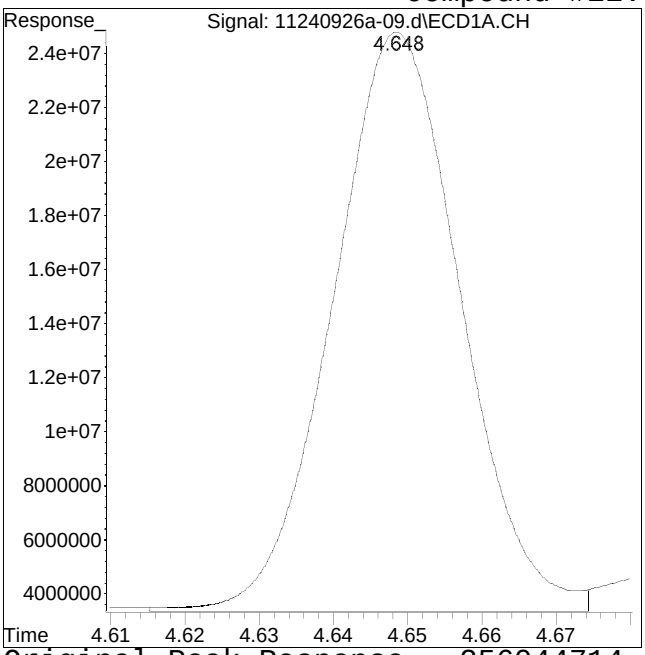
Manual Peak Response = 420448160 M4

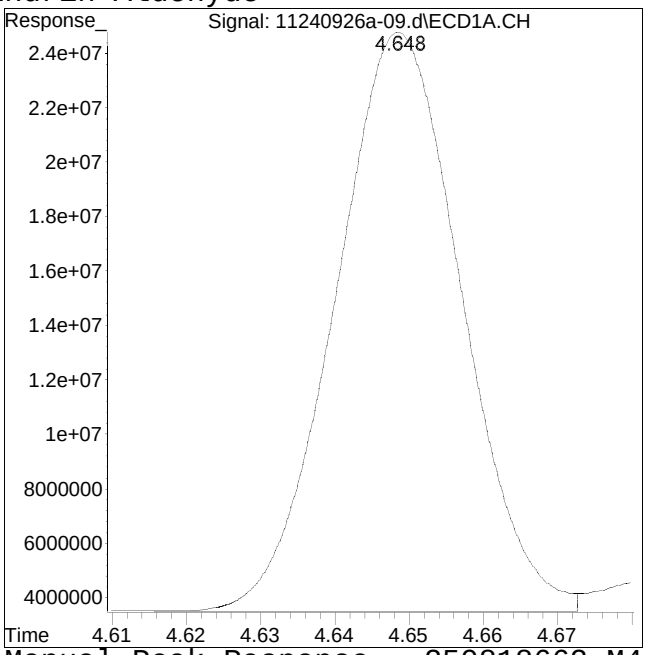
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #22: Endrin Aldehyde



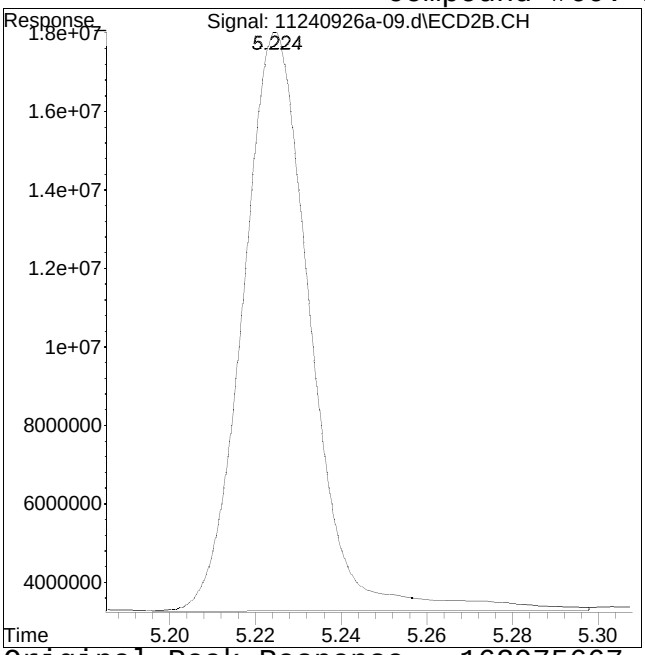


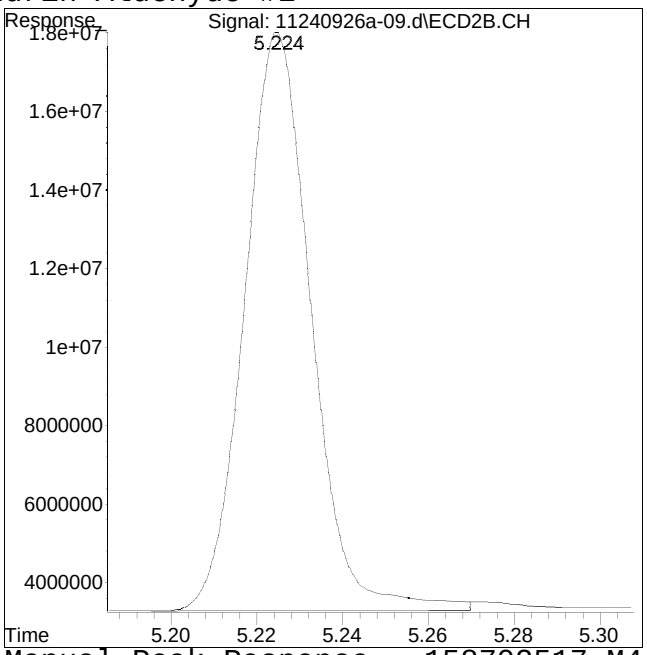
Original Peak Response = 256044714 Manual Peak Response = 250818662 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #60: Endrin Aldehyde #2



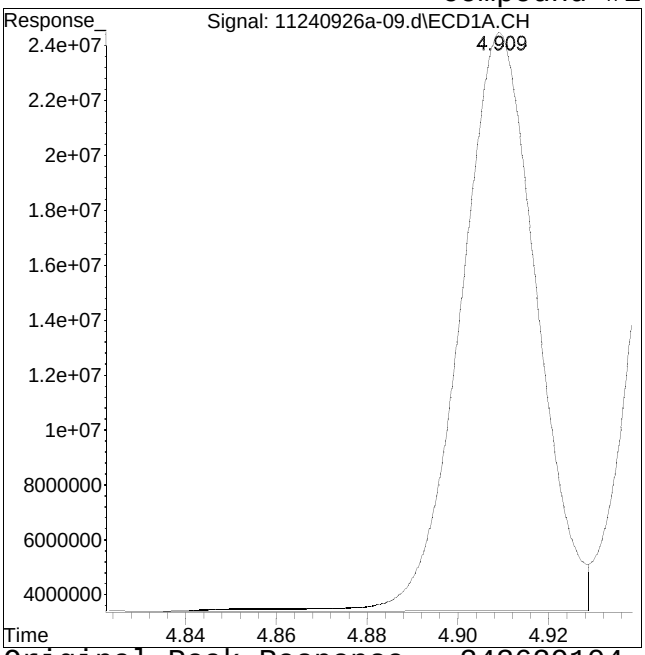


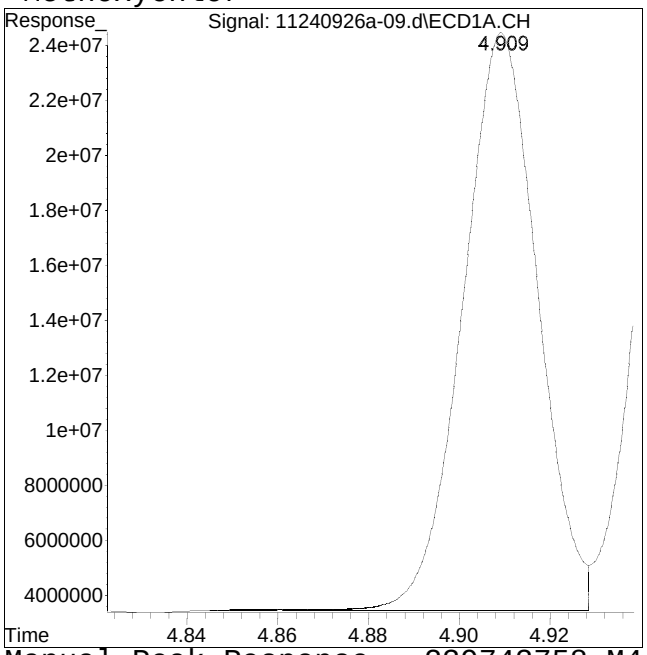
Original Peak Response = 162975667 Manual Peak Response = 158702517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #23: Methoxychlor



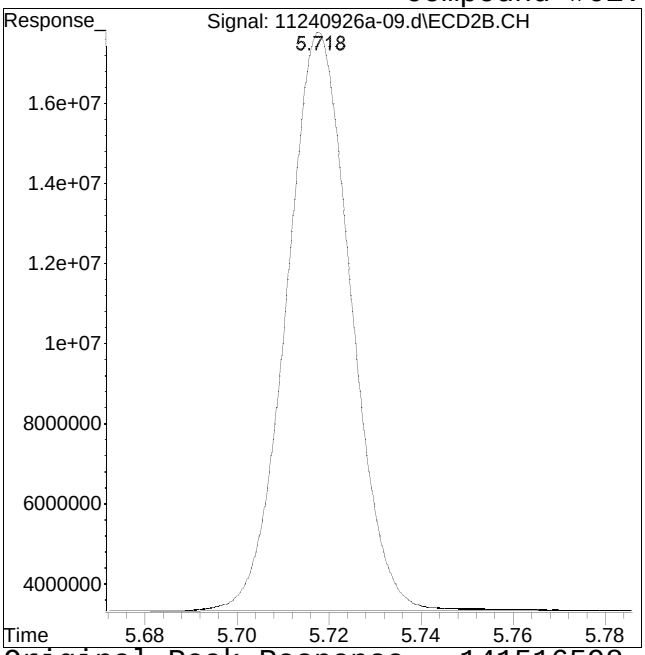


Original Peak Response = 243629104 Manual Peak Response = 239743758 M4
M4 = Poor automated baseline construction.

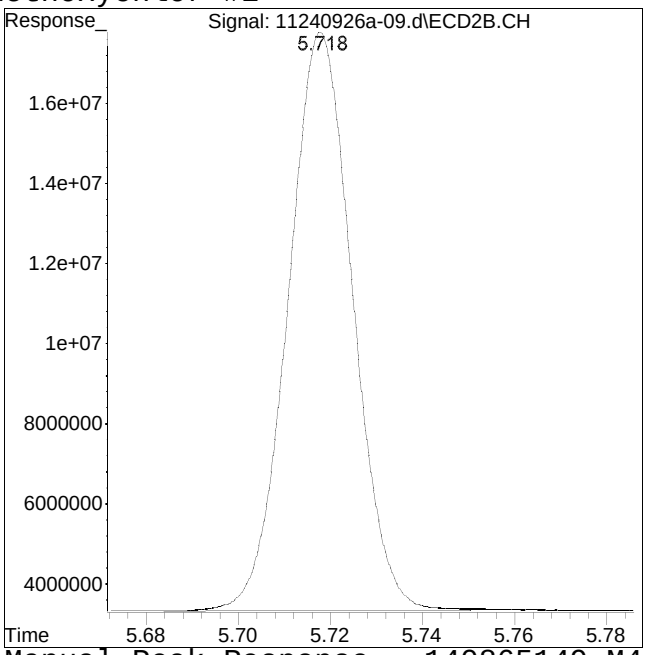
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #61: Methoxychlor #2



Original Peak Response = 141516598

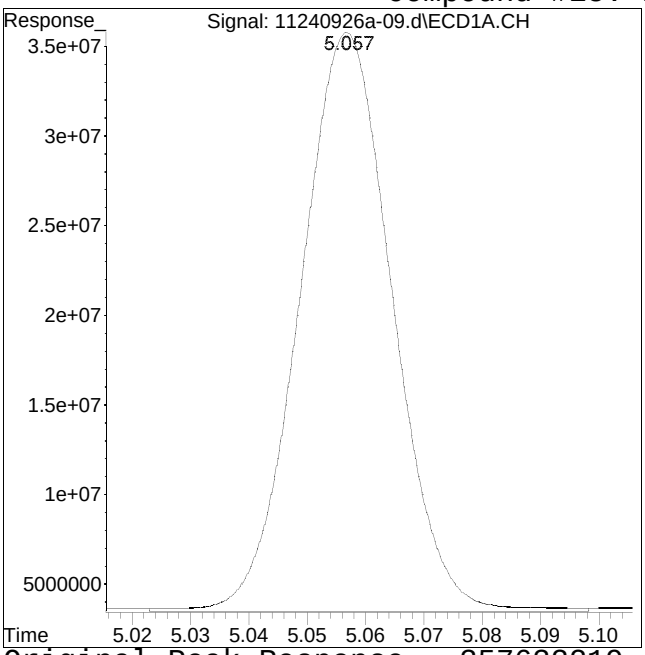


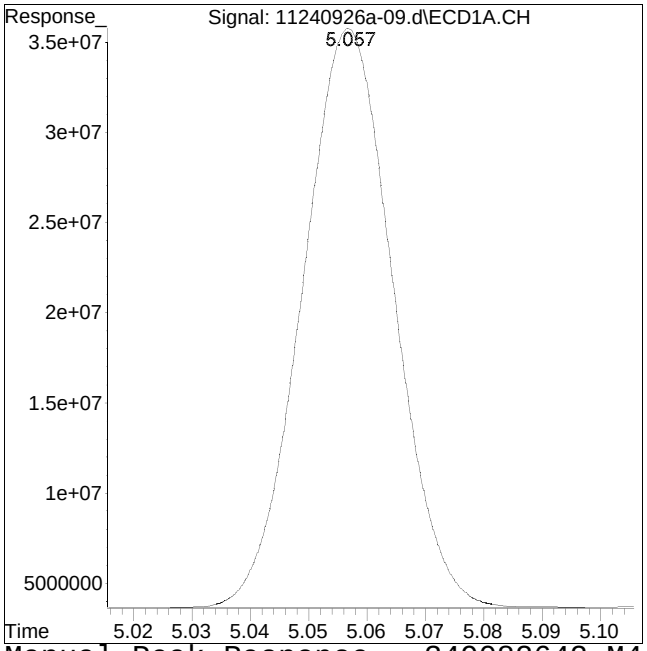
Manual Peak Response = 140865149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #25: Endosulfan Sulfate



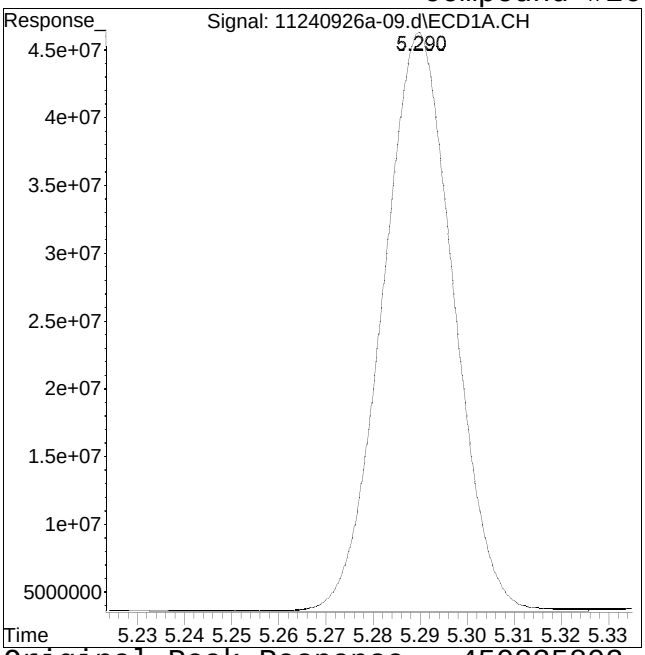


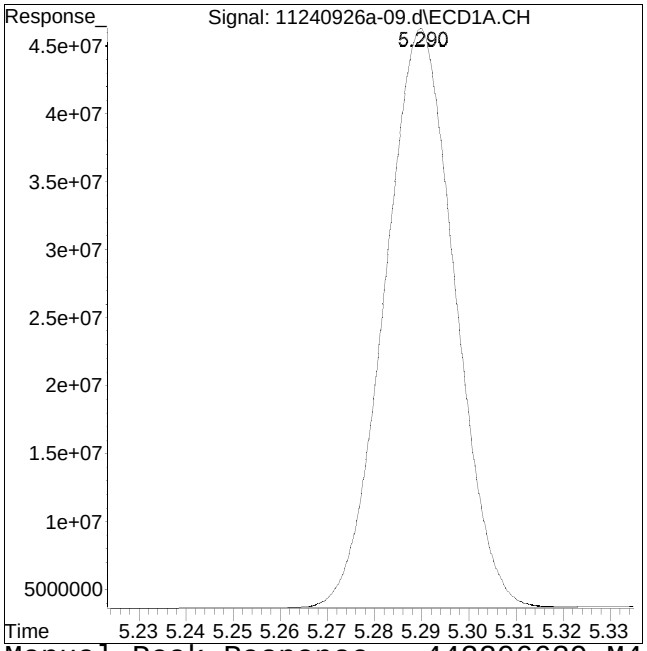
Original Peak Response = 357632219 Manual Peak Response = 349082642 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #26: Endrin Ketone



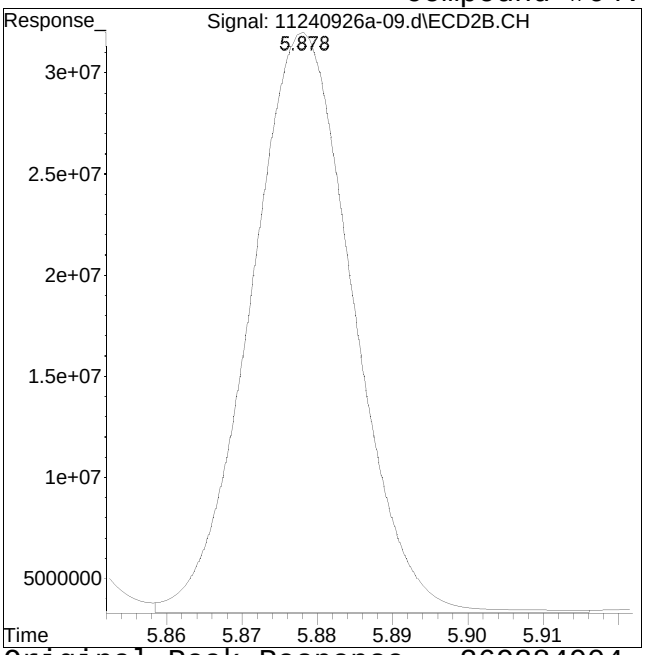


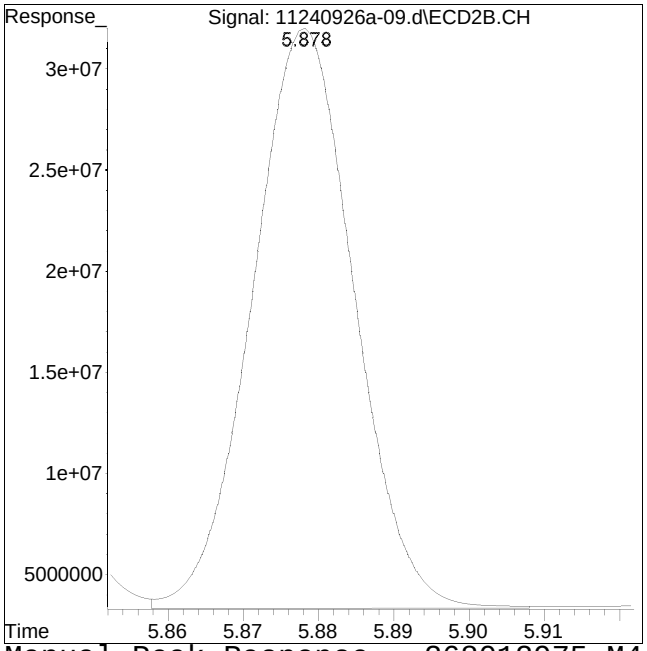
Original Peak Response = 450235803 Manual Peak Response = 442206639 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #64: Endrin Ketone #2



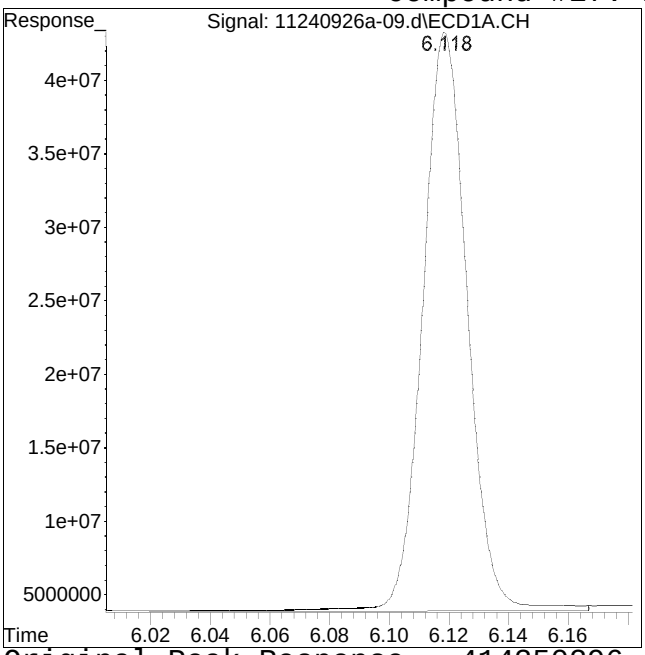


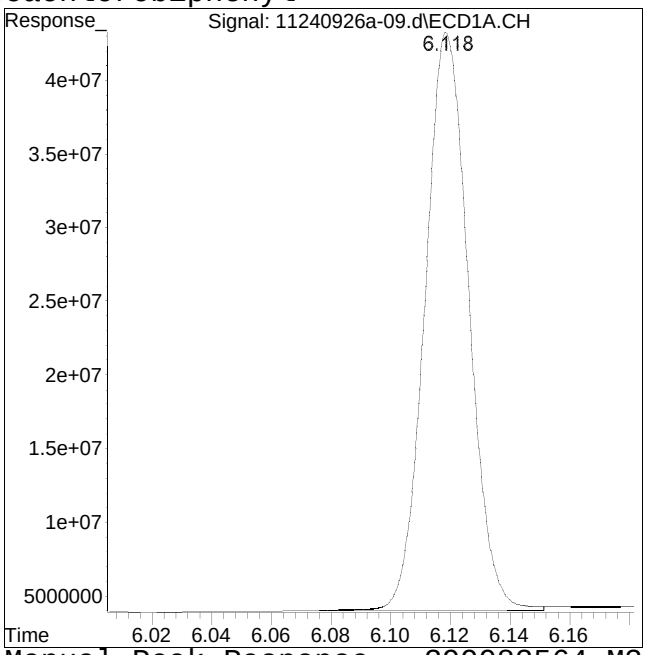
Original Peak Response = 269384904 Manual Peak Response = 268012975 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #27: Decachlorobiphenyl



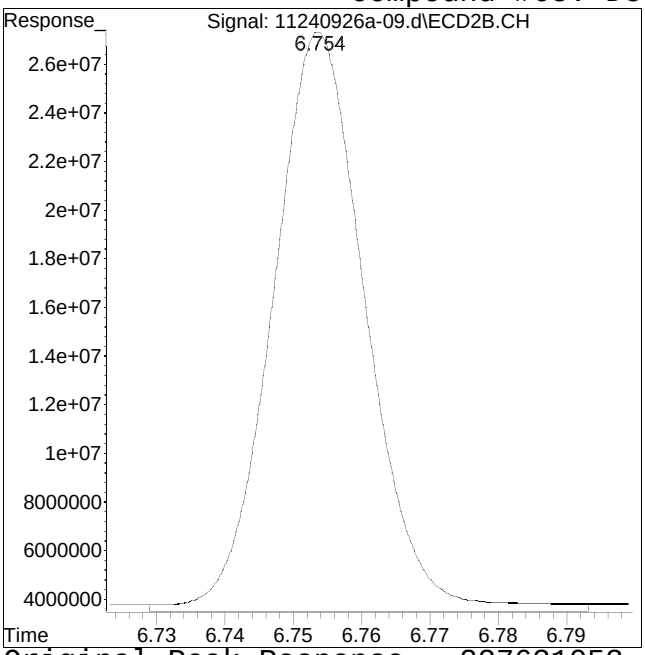


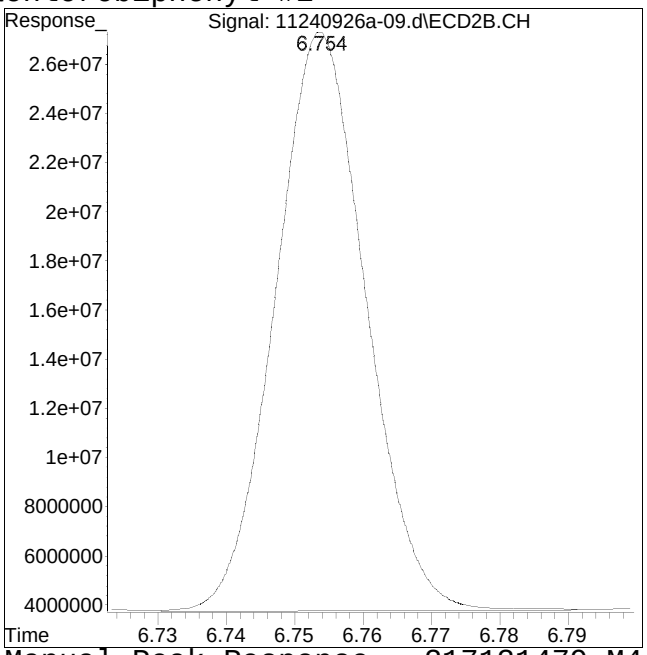
Original Peak Response = 414350296 Manual Peak Response = 399983564 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240926QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240926a-09.d Operator : PEST11:jag
Date Inj'd : 9/26/2024 8:37 Instrument : Pest 11
Sample : WG1976222-3,42,, 222 Quant Date : 9/26/2024 2:54 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 227631053 Manual Peak Response = 217131479 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PEST
Inst: Pest_20
Date: **07/22/24**
Run: **ical**

Method
GC: pest

Seq: WG1950439
IS: pp11660

Vial	Data File	Sample	CCAL	notes	screen	initials
1	20240722i-01	blank,42e,,pp 11660	-			
2	20240722i-02	pem-01,42e,,pp 11667	-			EJL 7/23
3	20240722i-03	il1pest,42e,,pp 11687	L0.0005			EJL 7/23
4	20240722i-04	il2pest,42e,,pp 11686	L0.001			EJL 7/23
5	20240722i-05	il3pest,42e,,pp 11685	L0.002			EJL 7/23
6	20240722i-06	il4pest,42e,,pp 11684	L0.003			EJL 7/23
7	20240722i-07	il5pest,42e,,pp 11683	L0.004			EJL 7/23
8	20240722i-08	il7pest,42e,,pp 11682	L0.01			EJL 7/23
9	20240722i-09	il8pest,42e,,pp 11681	L0.05			EJL 7/23
10	20240722i-10	il9pest,42e,,pp 11680	L0.1			EJL 7/23
11	20240722i-11	il10pest,42e,,pp 11679	L0.2			EJL 7/23
12	20240722i-12	il11pest,42e,,pp 11678	L0.4			EJL 7/23
13	20240722i-13	cicvpest,42e,,pp 11675	L0.05ICV			EJL 7/23
14	20240722i-14	il3chlor,42e,,pp 11694	L0.01			EJL 7/23
15	20240722i-15	il4chlor,42e,,pp 11693	L0.02			EJL 7/23
16	20240722i-16	il5chlor,42e,,pp 11692	L0.1			EJL 7/23
17	20240722i-17	il7chlor,42e,,pp 11691	L0.5			EJL 7/23
18	20240722i-18	il8chlor,42e,,pp 11690	L1.0			EJL 7/23
19	20240722i-19	il9chlor,42e,,pp 11689	L2.0			EJL 7/23
20	20240722i-20	il10chlor,42e,,pp 11688	L5.0	Level removed		EJL 7/23
21	20240722i-21	cicvchlor,42e,,pp 11670	L1.0ICV			EJL 7/23
22	20240722i-22	il3tox,42e,,pp 11703	L0.02			EJL 7/23
23	20240722i-23	il4tox,42e,,pp 11702	L0.1			EJL 7/23
24	20240722i-24	il7tox,42e,,pp 11701	L1.0			EJL 7/23
25	20240722i-25	il8tox,42e,,pp 11700	L2.0			EJL 7/23
26	20240722i-26	il9tox,42e,,pp 11695	L5.0			EJL 7/23
27	20240722i-27	cicvtox,42e,,pp 11668	L2.0ICV			EJL 7/23

Dep.: PEST
Inst: PEST_11
Date: **08/01/24**
Run: ical

Method
GC: pest

Seq: WG1955254
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240801i-01	blank,42e,,pp 11660 -				
2	11240801i-02	pem-01,42e,,pp 11667 -				EJL 8/2
3	11240801i-03	il1pest,42e,,pp 11687 L0.0005				EJL 8/2
4	11240801i-04	il2pest,42e,,pp 11686 L0.001				EJL 8/2
5	11240801i-05	il3pest,42e,,pp 11685 L0.002				EJL 8/2
6	11240801i-06	il4pest,42e,,pp 11684 L0.003				EJL 8/2
7	11240801i-07	il5pest,42e,,pp 11683 L0.004				EJL 8/2
8	11240801i-08	il7pest,42e,,pp 11682 L0.01				EJL 8/2
9	11240801i-09	il8pest,42e,,pp 11681 L0.05				EJL 8/2
10	11240801i-10	il9pest,42e,,pp 11680 L0.1				EJL 8/2
11	11240801i-11	il10pest,42e,,pp 11679 L0.2				EJL 8/2
12	11240801i-12	il11pest,42e,,pp 11678 L0.4				EJL 8/2
13	11240801i-13	cicvpest,42e,,pp 11675 L0.05ICV				EJL 8/2
14	11240801i-14	il3chlor,42e,,pp 11694 L0.01				EJL 8/2
15	11240801i-15	il4chlor,42e,,pp 11693 L0.02				EJL 8/2
16	11240801i-16	il5chlor,42e,,pp 11692 L0.1				EJL 8/2
17	11240801i-17	il7chlor,42e,,pp 11691 L0.5				EJL 8/2
18	11240801i-18	il8chlor,42e,,pp 11690 L1.0				EJL 8/2
19	11240801i-19	il9chlor,42e,,pp 11689 L2.0				EJL 8/2
20	11240801i-20	il10chlor,42e,,pp 11688 L5.0				EJL 8/2
21	11240801i-21	cicvchlor,42e,,pp 11670 L1.0ICV				EJL 8/2
22	11240801i-22	il3tox,42e,,pp 11703 L0.02				EJL 8/2
23	11240801i-23	il4tox,42e,,pp 11702 L0.1				EJL 8/2
24	11240801i-24	il7tox,42e,,pp 11701 L1.0				EJL 8/2
25	11240801i-25	il8tox,42e,,pp 11700 L2.0				EJL 8/2
26	11240801i-26	il9tox,42e,,pp 11695 L5.0				EJL 8/2
27	11240801i-27	cicvtox,42e,,pp 11668 L2.0ICV			EJL	EJL 8/2

Dep.: PEST
Inst: PEST_11
Date: **09/26/24**
Run: a

Method
GC: pest

Seq: wg1976509
IS: pp11660

Vial	Data File	Sample		CCAL/Notes	Screen	Verified	initials
1	11240926a-01	blank					
2	11240926a-02	deg11573	6:23				PEG 9/26
3	11240926a-03	pest11675	a: g-chlor, dieldrin, ddd high, b: methoxy low				PEG 9/26
4	11240926a-04	chlor11816	20%				PEG 9/26
5	11240926a-05	tox11668	15%				PEG 9/26
6	11240926a-06	blank					
7	11240926a-07	WG1976220-1,42,, 222					JAG 9/26
8	11240926a-08	WG1976220-2,42,, 222					JAG 9/26
9	11240926a-09	WG1976220-3,42,, 222					JAG 9/26
10	11240926a-10	L2454220-01,42,,		rr hits			
11	11240926a-11	L2453108-06,42,, p					JAG 9/26
12	11240926a-12	WG1976220-4,42,, ms					
13	11240926a-13	WG1976220-5,42,, dup					
14	11240926a-14	L2453975-23,42,,					JAG 9/26
15	11240926a-15	L2453672-01,42,, 608					MMG 9/26
16	11240926a-16	pest11675	a: several high			peg	PEG 9/26
17	11240926a-17	blank					
18	11240926a-18	WG1976417-1,42,, 608					MMG 9/26
19	11240926a-19	WG1976417-2,42,, 608					MMG 9/26
20	11240926a-20	L2453921-01,42,, 608					MMG 9/26
21	11240926a-21	pest11675	a: g-chlor, dieldrin high, b: hept epox, a-chlor, methoxy low			ejl	EJL 9/26
22	11240926a-22	blank					
23	11240926a-23	WG1976394-1,42,, t		t 21-SEP-24 13:57			JAG 9/26
24	11240926a-24	WG1976394-2,42,, t		t 21-SEP-24 13:57			JAG 9/26
25	11240926a-25	WG1976394-3,42,, t		t 21-SEP-24 13:57			JAG 9/26
26	11240926a-26	L2453601-01,42,, t		t 21-SEP-24 13:57			JAG 9/26
27	11240926a-27	L2453645-03,42,, t		t 21-SEP-24 13:57			JAG 9/26
28	11240926a-28	WG1976391-1,42,, t		t 20-SEP-24 07:35			JAG 9/26
29	11240926a-29	WG1976391-2,42,, t		t 20-SEP-24 07:35			JAG 9/26
30	11240926a-30	WG1976391-3,42,, t		t 20-SEP-24 07:35			JAG 9/26
31	11240926a-31	L2453566-01,42,, t		t 20-SEP-24 07:35			JAG 9/26
32	11240926a-32	L2453721-02,42,, t		t 20-SEP-24 07:35			JAG 9/26
33	11240926a-33	L2453721-03,42,, t		t 20-SEP-24 07:35			JAG 9/26
34	11240926a-34	WG1976390-1,42,, t		t 20-SEP-24 17:41			JAG 9/26
35	11240926a-35	WG1976390-2,42,, t		t 20-SEP-24 17:41			JAG 9/26
36	11240926a-36	WG1976390-3,42,, t		t 20-SEP-24 17:41			JAG 9/26
37	11240926a-37	L2453721-01,42,, t		t 20-SEP-24 17:41			JAG 9/26
38	11240926a-38	L2453721-04,42,, t		t 20-SEP-24 17:41			JAG 9/26
39	11240926a-39	L2453721-05,42,, t		t 20-SEP-24 17:41			JAG 9/26
40	11240926a-40	L2453721-06,42,, t		t 20-SEP-24 17:41			JAG 9/26
41	11240926a-41	L2453721-07,42,, t		rr, ran after deg			
42	11240926a-42	L2453721-08,42,, t				jag	

Dep.: PEST
Inst: PEST_11
Date: **09/26/24**
Run: b

Method
GC: pest

Seq: wg1976911
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240926b-01	blank				
2	11240926b-02	deg11573 20:11				JAG 9/26
3	11240926b-03	pest11675	a/b: hexa low, b: most low			JAG 9/26
4	11240926b-04	chlor11816	a: 20%, b: low			JAG 9/26
5	11240926b-05	tox11668	a: IS high, b: 20%			JAG 9/26
6	11240926b-06	blank				
7	11240926b-07	L2454092-01,42,, p				MMG 9/27
8	11240926b-08	WG1976222-4,42,, ms				MMG 9/27
9	11240926b-09	WG1976222-5,42,, msd				MMG 9/27
10	11240926b-10	L2454059-01,42,,				MMG 9/27
11	11240926b-11	L2454092-02,42,,				MMG 9/27
12	11240926b-12	L2454092-03,42,,	no IS			
13	11240926b-13	L2454092-03,42,,				MMG 9/27
14	11240926b-14	L2454092-05,42,,				MMG 9/27
15	11240926b-15	L2454087-01,42,,				MMG 9/27
16	11240926b-16	L2453721-07,42,, t	t 20-sep-24 17:41			MMG 9/27
17	11240926b-17	L2453721-08,42,, t	t 20-sep-24 17:41		jag	MMG 9/27
18	11240926b-18	blank				
19	11240926b-19	WG1976722-1,42,, t	t 24-sep-24 14:14			MMG 9/27
20	11240926b-20	WG1976722-2,42,, t	t 24-sep-24 14:14			MMG 9/27
21	11240926b-21	WG1976722-3,42,, t	t 24-sep-24 14:14			MMG 9/27
22	11240926b-22	L2454706-01,42,,,R1A t	t 24-sep-24 21:05			MMG 9/27
23	11240926b-23	WG1976747-1,42,, mcp	rr			
24	11240926b-24	WG1976747-2,42,, mcp	rr			
25	11240926b-25	WG1976747-3,42,, mcp	rr			
26	11240926b-26	L2453932-01,42,, mcp	rr		peg	
					sv akm	

Dep.: PEST
Inst: PEST_20
Date: **09/30/24**
Run: a

Method
GC: pest

Seq: wg1977952
IS: pp11660

Vial	data file	Sample	CCAL/Notes	Screen	Verified	initials
1	20240930a-01	blank				
2	20240930a-02	deg11573 5:57				AKM 9/30
3	20240930a-03	pest11675 a: g-chlor, methoxy high				AKM 9/30
4	20240930a-04	chlor11816 15%				AKM 9/30
5	20240930a-05	tox11668 b: 20%		AKM		AKM 9/30
6	20240930a-06	WG1977729-1,42,, mcp				AKM 9/30
7	20240930a-07	WG1977729-2,42,, mcp				AKM 9/30
8	20240930a-08	WG1977729-3,42,, mcp				AKM 9/30
9	20240930a-09	L2454660-01,42,, mcp				AKM 9/30
10	20240930a-10	L2454660-02,42,, mcp				AKM 9/30
11	20240930a-11	pest11675 15%			akm	AKM 9/30
12	20240930a-12	blank				
13	20240930a-13	L2454080-01,42,,		AKM		AKM 9/30
14	20240930a-14	L2454080-02,42,,				AKM 9/30
15	20240930a-15	L2454080-03,42,,				AKM 9/30
16	20240930a-16	WG1977531-1,42,,				AKM 9/30
17	20240930a-17	WG1977531-2,42,,				AKM 9/30
18	20240930a-18	WG1977531-3,42,,				
19	20240930a-19	L2454197-02,42,, p	cc + 10x			
20	20240930a-20	WG1977531-4,42,, ms	cc + 10x			
21	20240930a-21	WG1977531-5,42,, dup	cc + 10x			
22	20240930a-22	WG1977581-1,42,,				
23	20240930a-23	WG1977581-2,42,,				
24	20240930a-24	WG1977581-3,42,,				
25	20240930a-25	L2454546-01,42,,		MMG		
26	20240930a-26	L2454546-02,42,,				
27	20240930a-27	L2454546-03,42,,				
28	20240930a-28	L2455980-01,42,,,R3B	5x ddd			
29	20240930a-29	L2455980-02,42,,,R3B				
30	20240930a-30	L2455980-03,42,,,R3B				
31	20240930a-31	L2455980-04,42,,,R3B				
32	20240930a-32	L2455980-05,42,,,R3B				
33	20240930a-33	L2455980-06,42,,,R3B			akm	
34	20240930a-34	L2454059-02,42,, rv			mmg	MMG 9/30

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 01:56 pm

Work Group: WG1976222 for Department: 2 Organic Preparation

Created: 25-SEP-24 Due: Operator: JRS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453975-23	RINSATE BLANK	S	NYTCL-8081	WATER	DONE	U	0925	1003	S0	Amber-A.120
L2454059-01	MW-4S	S	NYTCL-8081	WATER	DONE	U	0926	0926	S0	Amber-A.120
L2454059-02	MW-4D2	S	NYTCL-8081	WATER	DONE	U	0926	0926	S0	Amber-A.120
L2454092-01	HA-MW-04	S	NYTCL-8081	WATER	DONE	U	0926	0926	S0	Amber-A.120
L2454092-02	HA-MW-03	S	NYTCL-8081	WATER	DONE	U	0926	0926	S0	Amber-A.120
L2454092-03	DUP01-20240919	S	NYTCL-8081	WATER	DONE	U	0926	0926	S0	Amber-A.120
L2454092-05	FB-20240919	S	NYTCL-8081	WATER	DONE	U	0926	0926	S0	Amber-A.120
WG1976222-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1976222-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1976222-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				
WG1976222-4	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1976222-5	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1976222-3	WG1976222-2
WG1976222-4	L2454092-01
WG1976222-5	L2454092-01

ORGANIC ELN REPORT

Workgroup: WG1976222

Prep Method: EPA 3510C
Solvent Type: DCM — **Lot #:** EJ089
Surrogate Type: Pesticide/PCB — **Lot #:** PP11735-BD, 02/06/2025
Spike Type: Pesticide — **Lot #:** PP11617-AS, 12/17/2024
Spike Verify by: JRS / ZCH
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	241169

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453975-23 WATER	09/25/24 13:54	Jackson Subbarao	140	>5,<9	.25		09/25/24 20:37	Kwasi Siriboe	1	H&K,N #3
L2454059-01 SAMP	09/26/24 07:42	Zachary Helin	140	>5,<9	.25		09/26/24 14:13	Kwame Mensah	1	H / K / #3
L2454059-02 SAMP	09/26/24 07:42	Zachary Helin	140	>5,<9	.25		09/26/24 14:13	Kwame Mensah	1	H / K / #3
L2454092-01 SAMP	09/26/24 07:42	Zachary Helin	140	>5,<9	.25		09/26/24 14:13	Kwame Mensah	1	H / K / #3
L2454092-02 SAMP	09/26/24 07:42	Zachary Helin	140	>5,<9	.25		09/26/24 14:13	Kwame Mensah	1	H / K / #3
L2454092-03 SAMP	09/26/24 07:42	Zachary Helin	140	>5,<9	.25		09/26/24 14:13	Kwame Mensah	1	H / K / #3
L2454092-05 SAMP	09/26/24 07:42	Zachary Helin	140	>5,<9	.25		09/26/24 14:13	Kwame Mensah	1	H / K / #3

Reported: 30-SEP-24 01:56 PM

ORGANIC ELN REPORT

Workgroup: WG1976222

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1976222-1 BLANK	09/25/24 13:54 **WG1976220**	Jackson Subbarao	140	>5,<9	.25		09/25/24 20:37	Kwasi Siriboe	1	H&K,N #3
WG1976222-2 LCS	09/25/24 13:54	Jackson Subbarao	140	>5,<9	.25	.25	09/25/24 20:37	Kwasi Siriboe	1	H&K,N #3
WG1976222-3 LCSD	09/25/24 13:54	Jackson Subbarao	140	>5,<9	.25	.25	09/25/24 20:37	Kwasi Siriboe	1	H&K,N #3
WG1976222-4 MS	09/26/24 07:42	Zachary Helin	140	>5,<9	.25	.25	09/26/24 14:13	Kwame Mensah	1	H / K / #3
WG1976222-5 MSD	09/26/24 07:42	Zachary Helin	140	>5,<9	.25	.25	09/26/24 14:13	Kwame Mensah	1	H / K / #3

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 17:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1976444.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 17:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1976444.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-1	**Date Collected**	: NA
Client ID	: WG1976217-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 17:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1976444.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-4	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4SDUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 18:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1976444.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.032	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 17:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1976462.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0986	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	14.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0026	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	0.0122	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	4.23	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0322	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	2.62	2.50	0.237	
7782-49-2	Selenium, Dissolved	0.0044	0.0100	0.0035	J
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	69.0	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0034	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 18:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1976462.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0146	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	11.2	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0027	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.47	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.971	2.50	0.237	J
7782-49-2	Selenium, Dissolved	0.0047	0.0100	0.0035	J
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	8.32	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-1	**Date Collected**	: NA
Client ID	: WG1976217-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 17:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1976462.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-4	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4SDUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 17:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1976462.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-36-0	Antimony, Dissolved	ND	0.0500	0.007	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.002	U
7440-39-3	Barium, Dissolved	0.104	0.0100	0.002	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.001	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.001	U
7440-70-2	Calcium, Dissolved	15.6	0.100	0.035	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.002	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.002	U
7440-50-8	Copper, Dissolved	0.0031	0.0100	0.002	J
7439-89-6	Iron, Dissolved	0.0158	0.0500	0.009	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.003	U
7439-95-4	Magnesium, Dissolved	4.36	0.100	0.015	
7439-96-5	Manganese, Dissolved	0.0336	0.0100	0.002	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.002	U
7440-09-7	Potassium, Dissolved	2.74	2.50	0.237	
7782-49-2	Selenium, Dissolved	ND	0.0100	0.004	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.003	U
7440-23-5	Sodium, Dissolved	72.5	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.003	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.002	U
7440-66-6	Zinc, Dissolved	0.0036	0.0050	0.002	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 09/26/24 17:52
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1976462.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Dissolved	14.6	0.500	0.175	
7439-95-4	Magnesium, Dissolved	4.13	0.500	0.077	
7440-23-5	Sodium, Dissolved	69.1	10.0	0.600	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 15:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1976586.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.113	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	16.0	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0031	0.0100	0.0022	J
7439-89-6	Iron, Total	0.0191	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.65	0.100	0.0153	
7439-96-5	Manganese, Total	0.0398	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	3.12	2.50	0.237	
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	84.6	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0030	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 16:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1976586.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0152	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	10.9	0.100	0.0350	
7440-47-3	Chromium, Total	0.0025	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.61	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.991	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	8.94	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975964-1	**Date Collected**	: NA
Client ID	: WG1975964-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 15:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1976586.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975964-4	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4SDUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 16:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1976586.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.032	U
7440-36-0	Antimony, Total	ND	0.0500	0.007	U
7440-38-2	Arsenic, Total	ND	0.0050	0.002	U
7440-39-3	Barium, Total	0.111	0.0100	0.002	
7440-41-7	Beryllium, Total	ND	0.0050	0.001	U
7440-43-9	Cadmium, Total	ND	0.0050	0.001	U
7440-70-2	Calcium, Total	15.7	0.100	0.035	
7440-47-3	Chromium, Total	ND	0.0100	0.002	U
7440-48-4	Cobalt, Total	ND	0.0200	0.002	U
7440-50-8	Copper, Total	0.0031	0.0100	0.002	J
7439-89-6	Iron, Total	0.0175	0.0500	0.009	J
7439-92-1	Lead, Total	ND	0.0100	0.003	U
7439-95-4	Magnesium, Total	4.59	0.100	0.015	
7439-96-5	Manganese, Total	0.0391	0.0100	0.002	
7440-02-0	Nickel, Total	ND	0.0250	0.002	U
7440-09-7	Potassium, Total	3.13	2.50	0.237	
7782-49-2	Selenium, Total	ND	0.0100	0.004	U
7440-22-4	Silver, Total	ND	0.0070	0.003	U
7440-23-5	Sodium, Total	79.7	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.003	U
7440-62-2	Vanadium, Total	ND	0.0100	0.002	U
7440-66-6	Zinc, Total	0.0029	0.0050	0.002	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975964-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 09/26/24 16:19
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1976586.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	16.2	0.500	0.175	
7439-95-4	Magnesium, Total	4.86	0.500	0.077	
7440-23-5	Sodium, Total	83.7	10.0	0.600	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975964-8	**Date Collected**	: 09/19/24 08:30
Client ID	: WG1975964-8 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 17:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1976586.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-62-2	Vanadium, Total	ND	0.0100	0.002	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880462-1									
Date Analyzed	:	09/26/24 04:31									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4950	99							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880462-3			R1880462-6			R1880462-8		R1880462-10	
Date Analyzed	:	09/26/24 04:41			09/26/24 06:13			09/26/24 06:25		09/26/24 07:17	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4900	98	0.5000	0.493	99	0.491	98	0.495	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-12			R1880462-14		R1880462-16	
Date Analyzed :				09/26/24 07:43			09/26/24 08:35		09/26/24 09:28	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.487	97	0.494	99	0.498	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-18			R1880462-20		R1880462-22	
Date Analyzed :				09/26/24 09:41			09/26/24 10:37		09/26/24 11:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.482	96	0.480	96	0.457	91

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-24						
Date Analyzed :				09/26/24 11:27						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.460	92				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880462-26									
Date Analyzed	:	09/26/24 11:53									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4950	99							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880462-28			R1880462-30			R1880462-32		R1880462-34	
Date Analyzed :	09/26/24 12:01			09/26/24 12:41			09/26/24 13:27		09/26/24 14:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4910	98	0.5000	0.484	97	0.492	98	0.492	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-36			R1880462-38		R1880462-40	
Date Analyzed :				09/26/24 15:06			09/26/24 15:58		09/26/24 16:48	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.500	100	0.495	99	0.494	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-42			R1880462-44		R1880462-46	
Date Analyzed :				09/26/24 16:59			09/26/24 17:31		09/26/24 18:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.492	98	0.487	97	0.490	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880535-1									
Date Analyzed :	09/26/24 07:12									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony	0.500	0.5170	103							
Arsenic	0.500	0.4880	98							
Barium	0.500	0.4960	99							
Beryllium	0.500	0.5130	103							
Cadmium	0.500	0.5040	101							
Calcium	0.500	0.4920	98							
Chromium	0.500	0.4980	100							
Cobalt	0.500	0.5140	103							
Copper	0.500	0.4980	100							
Iron	0.500	0.5050	101							
Lead	0.500	0.5080	102							
Magnesium	0.500	0.4930	99							
Manganese	0.500	0.4920	98							
Nickel	0.500	0.5130	103							
Potassium	5.00	5.1600	103							
Selenium	0.500	0.4980	100							
Silver	0.500	0.5090	102							
Sodium	10.0	9.9500	100							
Thallium	0.500	0.5070	101							
Vanadium	0.500	0.4950	99							
Zinc	0.500	0.5140	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880535-3			R1880535-6			R1880535-8		R1880535-10	
Date Analyzed:	09/26/24 07:24			09/26/24 10:01			09/26/24 10:49		09/26/24 11:20	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony	0.500	0.5090	102	0.5000	0.518	104	0.505	101	0.506	101
Arsenic	0.500	0.4890	98	0.5000	0.491	98	0.481	96	0.484	97
Barium	0.500	0.5080	102	0.5000	0.500	100	0.496	99	0.499	100
Beryllium	0.500	0.5200	104	0.5000	0.513	103	0.508	102	0.510	102
Cadmium	0.500	0.4990	100	0.5000	0.500	100	0.501	100	0.495	99
Calcium	0.500	0.5010	100	0.5000	0.493	99	0.492	98	0.496	99
Chromium	0.500	0.4920	98	0.5000	0.493	99	0.492	98	0.491	98
Cobalt	0.500	0.5080	102	0.5000	0.513	103	0.509	102	0.507	101
Copper	0.500	0.4930	99	0.5000	0.493	99	0.490	98	0.490	98
Iron	0.500	0.5120	102	0.5000	0.504	101	0.500	100	0.505	101
Lead	0.500	0.5050	101	0.5000	0.501	100	0.495	99	0.499	100
Magnesium	0.500	0.4890	98	0.5000	0.496	99	0.489	98	0.489	98
Manganese	0.500	0.4990	100	0.5000	0.493	99	0.491	98	0.492	98
Nickel	0.500	0.5090	102	0.5000	0.511	102	0.509	102	0.510	102
Potassium	5.00	5.2900	106	5.0000	5.20	104	5.18	104	5.21	104
Selenium	0.500	0.5070	101	0.5000	0.510	102	0.499	100	0.500	100
Silver	0.500	0.5120	102	0.5000	0.514	103	0.508	102	0.507	101
Sodium	10.0	10.2000	102	10.0000	10.0	100	9.98	100	10.1	101
Thallium	0.500	0.5040	101	0.5000	0.496	99	0.497	99	0.498	100
Vanadium	0.500	0.4890	98	0.5000	0.491	98	0.488	98	0.489	98
Zinc	0.500	0.5090	102	0.5000	0.516	103	0.510	102	0.511	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880535-12			R1880535-14		R1880535-16	
Date Analyzed :				09/26/24 12:20			09/26/24 13:08		09/26/24 13:28	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.511	102	0.496	99	0.500	100
Arsenic				0.5000	0.484	97	0.475	95	0.474	95
Barium				0.5000	0.501	100	0.489	98	0.490	98
Beryllium				0.5000	0.513	103	0.502	100	0.504	101
Cadmium				0.5000	0.502	100	0.490	98	0.499	100
Calcium				0.5000	0.493	99	0.483	97	0.488	98
Chromium				0.5000	0.493	99	0.480	96	0.484	97
Cobalt				0.5000	0.515	103	0.499	100	0.504	101
Copper				0.5000	0.492	98	0.482	96	0.484	97
Iron				0.5000	0.508	102	0.492	98	0.496	99
Lead				0.5000	0.502	100	0.493	99	0.492	98
Magnesium				0.5000	0.492	98	0.476	95	0.481	96
Manganese				0.5000	0.495	99	0.480	96	0.482	96
Nickel				0.5000	0.512	102	0.496	99	0.499	100
Potassium				5.0000	5.19	104	5.12	102	5.13	103
Selenium				0.5000	0.502	100	0.491	98	0.491	98
Silver				0.5000	0.509	102	0.495	99	0.501	100
Sodium				10.0000	10.1	101	9.82	98	9.84	98
Thallium				0.5000	0.498	100	0.489	98	0.489	98
Vanadium				0.5000	0.491	98	0.478	96	0.482	96
Zinc				0.5000	0.512	102	0.497	99	0.502	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880535-18			R1880535-20		R1880535-22	
Date Analyzed:				09/26/24 14:14			09/26/24 15:04		09/26/24 16:01	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.486	97	0.496	99	0.505	101
Arsenic				0.5000	0.469	94	0.473	95	0.478	96
Barium				0.5000	0.481	96	0.482	96	0.492	98
Beryllium				0.5000	0.495	99	0.495	99	0.502	100
Cadmium				0.5000	0.493	99	0.491	98	0.497	99
Calcium				0.5000	0.478	96	0.479	96	0.486	97
Chromium				0.5000	0.478	96	0.476	95	0.483	97
Cobalt				0.5000	0.497	99	0.498	100	0.507	101
Copper				0.5000	0.476	95	0.476	95	0.482	96
Iron				0.5000	0.486	97	0.493	99	0.502	100
Lead				0.5000	0.486	97	0.485	97	0.491	98
Magnesium				0.5000	0.475	95	0.476	95	0.498	100
Manganese				0.5000	0.471	94	0.473	95	0.481	96
Nickel				0.5000	0.492	98	0.488	98	0.495	99
Potassium				5.0000	5.03	101	5.00	100	5.15	103
Selenium				0.5000	0.487	97	0.491	98	0.494	99
Silver				0.5000	0.495	99	0.494	99	0.500	100
Sodium				10.0000	9.65	96	9.62	96	9.75	98
Thallium				0.5000	0.485	97	0.482	96	0.489	98
Vanadium				0.5000	0.476	95	0.475	95	0.481	96
Zinc				0.5000	0.495	99	0.493	99	0.500	100

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880535-24			R1880535-26		R1880535-28	
Date Analyzed :				09/26/24 17:03			09/26/24 17:12		09/26/24 18:07	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.475	95	0.493	99	0.491	98
Arsenic				0.5000	0.450	90	0.465	93	0.467	93
Barium				0.5000	0.458	92	0.463	93	0.478	96
Beryllium				0.5000	0.467	93	0.477	95	0.492	98
Cadmium				0.5000	0.472	94	0.487	97	0.488	98
Calcium				0.5000	0.446	89	0.454	91	0.474	95
Chromium				0.5000	0.456	91	0.467	93	0.474	95
Cobalt				0.5000	0.480	96	0.492	98	0.495	99
Copper				0.5000	0.456	91	0.469	94	0.473	95
Iron				0.5000	0.458	92	0.469	94	0.483	97
Lead				0.5000	0.467	93	0.476	95	0.485	97
Magnesium				0.5000	0.454	91	0.469	94	0.470	94
Manganese				0.5000	0.444	89	0.454	91	0.468	94
Nickel				0.5000	0.468	94	0.480	96	0.486	97
Potassium				5.0000	4.76	95	4.83	97	5.00	100
Selenium				0.5000	0.469	94	0.478	96	0.476	95
Silver				0.5000	0.476	95	0.481	96	0.484	97
Sodium				10.0000	9.10	91	9.20	92	9.52	95
Thallium				0.5000	0.464	93	0.470	94	0.480	96
Vanadium				0.5000	0.457	91	0.468	94	0.474	95
Zinc				0.5000	0.471	94	0.485	97	0.487	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880720-1			R1880720-4			R1880720-6		R1880720-8	
Date Analyzed:	09/26/24 09:09			09/26/24 13:07			09/26/24 14:23		09/26/24 15:25	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4980	100	0.5000	0.516	103	0.521	104	0.522	104
Antimony	0.500	0.4770	95	0.5000	0.488	98	0.494	99	0.493	99
Arsenic	0.500	0.4930	99	0.5000	0.501	100	0.506	101	0.507	101
Barium	0.500	0.4940	99	0.5000	0.515	103	0.523	105	0.519	104
Beryllium	0.500	0.5060	101	0.5000	0.510	102	0.512	102	0.508	102
Cadmium	0.500	0.5000	100	0.5000	0.495	99	0.491	98	0.491	98
Calcium	0.500	0.5010	100	0.5000	0.503	101	0.499	100	0.496	99
Chromium	0.500	0.4930	99	0.5000	0.497	99	0.493	99	0.494	99
Cobalt	0.500	0.4790	96	0.5000	0.476	95	0.476	95	0.480	96
Copper	0.500	0.4810	96	0.5000	0.510	102	0.515	103	0.509	102
Iron	0.500	0.5050	101	0.5000	0.507	101	0.510	102	0.505	101
Lead	0.500	0.4840	97	0.5000	0.480	96	0.480	96	0.484	97
Magnesium	0.500	0.4980	100	0.5000	0.520	104	0.515	103	0.508	102
Manganese	0.500	0.4980	100	0.5000	0.491	98	0.490	98	0.489	98
Nickel	0.500	0.4790	96	0.5000	0.469	94	0.469	94	0.475	95
Potassium	5.00	5.1600	103	5.0000	5.23	105	5.43	109	5.38	108
Selenium	0.500	0.5020	100	0.5000	0.507	101	0.513	103	0.515	103
Silver	0.500	0.4970	99	0.5000	0.516	103	0.519	104	0.511	102
Sodium	10.0	9.7800	98	10.0000	10.2	102	10.6	106	10.4	104
Thallium	0.500	0.4960	99	0.5000	0.498	100	0.502	100	0.505	101
Vanadium	0.500	0.4880	98	0.5000	0.503	101	0.502	100	0.501	100
Zinc	0.500	0.4740	95	0.5000	0.456	91	0.449	90	0.453	91

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880720-10			R1880720-12			
Date Analyzed :				09/26/24 16:26			09/26/24 17:46			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.514	103	0.511	102		
Antimony				0.5000	0.492	98	0.493	99		
Arsenic				0.5000	0.505	101	0.506	101		
Barium				0.5000	0.515	103	0.516	103		
Beryllium				0.5000	0.496	99	0.496	99		
Cadmium				0.5000	0.489	98	0.489	98		
Calcium				0.5000	0.486	97	0.479	96		
Chromium				0.5000	0.483	97	0.482	96		
Cobalt				0.5000	0.474	95	0.478	96		
Copper				0.5000	0.508	102	0.505	101		
Iron				0.5000	0.490	98	0.486	97		
Lead				0.5000	0.479	96	0.484	97		
Magnesium				0.5000	0.507	101	0.503	101		
Manganese				0.5000	0.479	96	0.474	95		
Nickel				0.5000	0.467	93	0.476	95		
Potassium				5.0000	5.46	109	5.48	110		
Selenium				0.5000	0.512	102	0.517	103		
Silver				0.5000	0.510	102	0.506	101		
Sodium				10.0000	10.5	105	10.7	107		
Thallium				0.5000	0.502	100	0.507	101		
Vanadium				0.5000	0.492	98	0.491	98		
Zinc				0.5000	0.488	98	0.489	98		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880768-1									
Date Analyzed	:	09/26/24 11:39									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5100	102							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880768-3			R1880768-6			R1880768-8		R1880768-10	
Date Analyzed :	09/26/24 11:52			09/26/24 14:00			09/26/24 14:16		09/26/24 15:55	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony	0.500	0.5210	104	0.5000	0.521	104	0.527	105	0.530	106

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880768-12			R1880768-14		R1880768-16	
Date Analyzed :				09/26/24 17:04			09/26/24 18:20		09/26/24 18:43	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.521	104	0.512	102	0.525	105

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1880462-2		R1880462-7		R1880462-9		R1880462-11		WG1976217-1	
Date Analyzed	:	09/26/24 04:35		09/26/24 06:17		09/26/24 06:29		09/26/24 07:21		09/26/24 17:40	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum		0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1880462-4		R1880462-13		R1880462-15		R1880462-17			
Date Analyzed	:	09/26/24 04:45		09/26/24 07:47		09/26/24 08:39		09/26/24 09:32			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum		0.0318	U	0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1880462-27		R1880462-19		R1880462-21		R1880462-23			
Date Analyzed	:	09/26/24 11:57		09/26/24 09:45		09/26/24 10:41		09/26/24 11:21			
Parameter		**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum		0.0318	U	0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880462-29		R1880462-25		R1880462-31		R1880462-33			
Date Analyzed :	09/26/24 12:05		09/26/24 11:31		09/26/24 12:45		09/26/24 13:31			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880462-35		R1880462-37		R1880462-39			
Date Analyzed :			09/26/24 14:21		09/26/24 15:09		09/26/24 16:02			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880462-41		R1880462-43		R1880462-45			
Date Analyzed :			09/26/24 16:52		09/26/24 17:03		09/26/24 17:35			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880462-47							
Date Analyzed :			09/26/24 18:21							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880535-2		R1880535-7		R1880535-9		R1880535-11		WG1976217-1	
Date Analyzed :	09/26/24 07:16		09/26/24 10:05		09/26/24 10:53		09/26/24 11:24		09/26/24 17:28	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00465	J	0.00350	U	0.00350	U	0.00388	J	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880535-4		R1880535-13		R1880535-15		R1880535-17			
Date Analyzed :	09/26/24 07:28		09/26/24 12:24		09/26/24 13:11		09/26/24 13:32			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00493	J	0.00350	U	0.00519	J	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880535-19		R1880535-21		R1880535-23			
Date Analyzed :			09/26/24 14:18		09/26/24 15:08		09/26/24 16:05			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00334	J		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00420	J	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880535-25		R1880535-27		R1880535-29			
Date Analyzed :			09/26/24 17:07		09/26/24 17:18		09/26/24 18:11			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00414	J	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880720-2		R1880720-5		R1880720-7		R1880720-9		WG1975964-1	
Date Analyzed :	09/26/24 09:15		09/26/24 13:13		09/26/24 14:29		09/26/24 15:31		09/26/24 15:41	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880720-11		R1880720-13					
Date Analyzed :			09/26/24 16:32		09/26/24 17:52					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U				
Antimony			0.00710	U	0.00710	U				
Arsenic			0.00190	U	0.00190	U				
Barium			0.00210	U	0.00210	U				
Beryllium			0.000900	U	0.000900	U				
Cadmium			0.00100	U	0.00100	U				
Calcium			0.0350	U	0.0350	U				
Chromium			0.00210	U	0.00210	U				
Cobalt			0.00170	U	0.00170	U				
Copper			0.00220	U	0.00220	U				
Iron			0.00900	U	0.00900	U				
Lead			0.00270	U	0.00270	U				
Magnesium			0.0153	U	0.0153	U				
Manganese			0.00160	U	0.00160	U				
Nickel			0.00240	U	0.00240	U				
Potassium			0.237	U	0.237	U				
Selenium			0.00350	U	0.00350	U				
Silver			0.00280	U	0.00280	U				
Sodium			0.120	U	0.120	U				
Thallium			0.00250	U	0.00250	U				
Vanadium			0.00200	U	0.00200	U				
Zinc			0.00210	U	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880768-2		R1880768-7		R1880768-9		R1880768-11			
Date Analyzed :	09/26/24 11:45		09/26/24 14:06		09/26/24 14:23		09/26/24 16:01			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1880768-4		R1880768-13		R1880768-15		R1880768-17			
Date Analyzed	:	09/26/24 11:58		09/26/24 17:10		09/26/24 18:26		09/26/24 18:49			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony		0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1880462-5							
Analysis Date :			09/26/24 04:53							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		501.	100						

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1880535-5							
Analysis Date :			09/26/24 07:35							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Antimony			-0.0121							
Arsenic			0.00126							
Barium			0.00155							
Beryllium			0.000112							
Cadmium			-0.000691							
Calcium	500		536.	107						
Chromium			0.000762							
Cobalt			-0.000638							
Copper			0.000190							
Iron	200		178.	89						
Lead			-0.0000960							
Magnesium	500		460.	92						
Manganese			-0.000607							
Nickel			-0.000140							
Potassium			-0.00332							
Selenium			0.00234							
Silver			0.00222							
Sodium			0.0127							
Thallium			0.00406							
Vanadium			0.00169							
Zinc			0.000136							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1880720-3							
Analysis Date :			09/26/24 09:30							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		523.	105						
Antimony			-0.0190							
Arsenic			-0.00395							
Barium			0.000763							
Beryllium			-0.000431							
Cadmium			-0.00236							
Calcium	500		563.	113						
Chromium			0.00181							
Cobalt			0.00114							
Copper			0.000860							
Iron	200		185.	92						
Lead			0.00469							
Magnesium	500		442.	88						
Manganese			0.00194							
Nickel			0.0121							
Potassium			0.0264							
Selenium			0.00114							
Silver			0.00108							
Sodium			0.0217							
Thallium			-0.00144							
Vanadium			-0.00292							
Zinc			-0.00257							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1880768-5							
Analysis Date :			09/26/24 12:10							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Antimony			0.00795							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01		
Matrix Spike	: WG1976217-3	**MS Analysis Date**	: 09/26/24 18:01
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	2.00	100					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01		
Matrix Spike	: WG1976217-3	**MS Analysis Date**	: 09/26/24 17:40
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Antimony, Dissolved	ND	0.5	0.390	78					75-125	20
Arsenic, Dissolved	ND	0.12	0.119	99					75-125	20
Barium, Dissolved	0.0986	2	2.03	96					75-125	20
Beryllium, Dissolved	ND	0.05	0.0496	99					75-125	20
Cadmium, Dissolved	ND	0.053	0.0516	97					75-125	20
Calcium, Dissolved	14.8	10	25.2	104					75-125	20
Chromium, Dissolved	ND	0.2	0.190	95					75-125	20
Cobalt, Dissolved	ND	0.5	0.482	96					75-125	20
Copper, Dissolved	0.0026J	0.25	0.242	97					75-125	20
Iron, Dissolved	0.0122J	1	0.995	100					75-125	20
Lead, Dissolved	ND	0.53	0.515	97					75-125	20
Magnesium, Dissolved	4.23	10	13.8	96					75-125	20
Manganese, Dissolved	0.0322	0.5	0.514	96					75-125	20
Nickel, Dissolved	ND	0.5	0.474	95					75-125	20
Potassium, Dissolved	2.62	10	12.8	102					75-125	20
Selenium, Dissolved	0.0044J	0.12	0.122	102					75-125	20
Silver, Dissolved	ND	0.05	0.0492	98					75-125	20
Sodium, Dissolved	69.0	10	81.7	127 Q					75-125	20
Thallium, Dissolved	ND	0.12	0.116	97					75-125	20
Vanadium, Dissolved	ND	0.5	0.489	98					75-125	20
Zinc, Dissolved	0.0034J	0.5	0.498	100					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01		
Matrix Spike	: WG1975964-3	**MS Analysis Date**	: 09/26/24 16:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.18	109					75-125	20
Antimony, Total	ND	0.5	0.544	109					75-125	20
Arsenic, Total	ND	0.12	0.130	108					75-125	20
Barium, Total	0.113	2	2.26	107					75-125	20
Beryllium, Total	ND	0.05	0.0515	103					75-125	20
Cadmium, Total	ND	0.053	0.0534	101					75-125	20
Calcium, Total	16.0	10	25.5	95					75-125	20
Chromium, Total	ND	0.2	0.200	100					75-125	20
Cobalt, Total	ND	0.5	0.499	100					75-125	20
Copper, Total	0.0031J	0.25	0.279	112					75-125	20
Iron, Total	0.0191J	1	1.04	104					75-125	20
Lead, Total	ND	0.53	0.534	101					75-125	20
Magnesium, Total	4.65	10	14.8	102					75-125	20
Manganese, Total	0.0398	0.5	0.538	100					75-125	20
Nickel, Total	ND	0.5	0.496	99					75-125	20
Potassium, Total	3.12	10	14.8	117					75-125	20
Selenium, Total	ND	0.12	0.131	109					75-125	20
Silver, Total	ND	0.05	0.0556	111					75-125	20
Sodium, Total	84.6	10	93.7	91					75-125	20
Thallium, Total	ND	0.12	0.120	100					75-125	20
Vanadium, Total	ND	0.5	0.517	103					75-125	20
Zinc, Total	0.0030J	0.5	0.487	97					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454081-01		
Matrix Spike	: WG1975964-7	**MS Analysis Date**	: 09/26/24 17:01
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.14	107					75-125	20
Antimony, Total	ND	0.5	0.585	117					75-125	20
Arsenic, Total	ND	0.12	0.130	108					75-125	20
Barium, Total	0.097	2	2.20	105					75-125	20
Beryllium, Total	ND	0.05	0.0504	101					75-125	20
Cadmium, Total	ND	0.053	0.0515	97					75-125	20
Calcium, Total	89.5	10	97.8	83					75-125	20
Chromium, Total	ND	0.2	0.193	96					75-125	20
Cobalt, Total	ND	0.5	0.520	104					75-125	20
Copper, Total	0.007J	0.25	0.279	112					75-125	20
Iron, Total	0.014J	1	1.01	101					75-125	20
Lead, Total	ND	0.53	0.540	102					75-125	20
Magnesium, Total	18.4	10	27.2	88					75-125	20
Manganese, Total	0.024	0.5	0.510	97					75-125	20
Nickel, Total	0.002J	0.5	0.518	104					75-125	20
Potassium, Total	9.08	10	20.3	112					75-125	20
Selenium, Total	ND	0.12	0.127	106					75-125	20
Silver, Total	ND	0.05	0.0556	111					75-125	20
Sodium, Total	296	10	310.	140 Q					75-125	20
Thallium, Total	ND	0.12	0.114	95					75-125	20
Vanadium, Total	ND	0.5	0.506	101					75-125	20
Zinc, Total	0.245	0.5	0.720	95					75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01	**Analysis Date**	: 09/26/24 17:57
Dup Sample ID	: WG1976217-4	**DUP Analysis Date**	: 09/26/24 18:05

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Aluminum, Dissolved	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01	**Analysis Date**	: 09/26/24 17:36
Dup Sample ID	: WG1976217-4	**DUP Analysis Date**	: 09/26/24 17:44

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Antimony, Dissolved	ND	ND	NC	20
Arsenic, Dissolved	ND	ND	NC	20
Barium, Dissolved	0.0986	0.104	5	20
Beryllium, Dissolved	ND	ND	NC	20
Cadmium, Dissolved	ND	ND	NC	20
Calcium, Dissolved	14.8	15.6	5	20
Chromium, Dissolved	ND	ND	NC	20
Cobalt, Dissolved	ND	ND	NC	20
Copper, Dissolved	0.0026J	0.0031J	NC	20
Iron, Dissolved	0.0122J	0.0158J	NC	20
Lead, Dissolved	ND	ND	NC	20
Magnesium, Dissolved	4.23	4.36	3	20
Manganese, Dissolved	0.0322	0.0336	4	20
Nickel, Dissolved	ND	ND	NC	20
Potassium, Dissolved	2.62	2.74	4	20
Selenium, Dissolved	0.0044J	ND	NC	20
Silver, Dissolved	ND	ND	NC	20
Sodium, Dissolved	69.0	72.5	5	20
Thallium, Dissolved	ND	ND	NC	20
Vanadium, Dissolved	ND	ND	NC	20
Zinc, Dissolved	0.0034J	0.0036J	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01	**Analysis Date**	: 09/26/24 15:54
Dup Sample ID	: WG1975964-4	**DUP Analysis Date**	: 09/26/24 16:06

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Aluminum, Total	ND	ND	NC	20
Antimony, Total	ND	ND	NC	20
Arsenic, Total	ND	ND	NC	20
Barium, Total	0.113	0.111	2	20
Beryllium, Total	ND	ND	NC	20
Cadmium, Total	ND	ND	NC	20
Calcium, Total	16.0	15.7	2	20
Chromium, Total	ND	ND	NC	20
Cobalt, Total	ND	ND	NC	20
Copper, Total	0.0031J	0.0031J	NC	20
Iron, Total	0.0191J	0.0175J	NC	20
Lead, Total	ND	ND	NC	20
Magnesium, Total	4.65	4.59	1	20
Manganese, Total	0.0398	0.0391	2	20
Nickel, Total	ND	ND	NC	20
Potassium, Total	3.12	3.13	0	20
Selenium, Total	ND	ND	NC	20
Silver, Total	ND	ND	NC	20
Sodium, Total	84.6	79.7	6	20
Thallium, Total	ND	ND	NC	20
Vanadium, Total	ND	ND	NC	20
Zinc, Total	0.0030J	0.0029J	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/26/24 16:54
Dup Sample ID	: WG1975964-8	**DUP Analysis Date**	: 09/26/24 17:07

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Vanadium, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976217-2	**LCS Analysis Date**	: 09/26/24 17:49
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aluminum, Dissolved	**2.00**	**1.93**	**96.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976217-2	**LCS Analysis Date**	: 09/26/24 17:32
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Arsenic, Dissolved	0.120	0.111	92.					85-115	20
Barium, Dissolved	2.00	1.86	93.					85-115	20
Beryllium, Dissolved	0.0500	0.0473	95.					85-115	20
Cadmium, Dissolved	0.0530	0.0506	95.					85-115	20
Calcium, Dissolved	10.0	9.35	94.					85-115	20
Chromium, Dissolved	0.200	0.185	92.					85-115	20
Cobalt, Dissolved	0.500	0.474	95.					85-115	20
Copper, Dissolved	0.250	0.234	94.					85-115	20
Iron, Dissolved	1.00	0.951	95.					85-115	20
Lead, Dissolved	0.530	0.504	95.					85-115	20
Magnesium, Dissolved	10.0	9.44	94.					85-115	20
Manganese, Dissolved	0.500	0.465	93.					85-115	20
Nickel, Dissolved	0.500	0.469	94.					85-115	20
Potassium, Dissolved	10.0	9.68	97.					85-115	20
Selenium, Dissolved	0.120	0.116	97.					85-115	20
Silver, Dissolved	0.0500	0.0490	98.					85-115	20
Sodium, Dissolved	10.0	9.52	95.					85-115	20
Thallium, Dissolved	0.120	0.113	94.					85-115	20
Vanadium, Dissolved	0.500	0.473	95.					85-115	20
Zinc, Dissolved	0.500	0.477	95.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975964-2	**LCS Analysis Date**	: 09/26/24 15:47
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	2.13	106.					85-115	20
Antimony, Total	0.500	0.508	102.					85-115	20
Arsenic, Total	0.120	0.125	104.					85-115	20
Barium, Total	2.00	2.08	104.					85-115	20
Beryllium, Total	0.0500	0.0501	100.					85-115	20
Cadmium, Total	0.0530	0.0531	100.					85-115	20
Calcium, Total	10.0	9.79	98.					85-115	20
Chromium, Total	0.200	0.197	98.					85-115	20
Cobalt, Total	0.500	0.477	95.					85-115	20
Copper, Total	0.250	0.268	107.					85-115	20
Iron, Total	1.00	1.01	101.					85-115	20
Lead, Total	0.530	0.522	98.					85-115	20
Magnesium, Total	10.0	10.3	103.					85-115	20
Manganese, Total	0.500	0.496	99.					85-115	20
Nickel, Total	0.500	0.476	95.					85-115	20
Potassium, Total	10.0	11.5	115.					85-115	20
Selenium, Total	0.120	0.125	104.					85-115	20
Silver, Total	0.0500	0.0536	107.					85-115	20
Sodium, Total	10.0	11.4	114.					85-115	20
Thallium, Total	0.120	0.120	100.					85-115	20
Vanadium, Total	0.500	0.505	101.					85-115	20
Zinc, Total	0.500	0.453	91.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976217-2	**LCS Analysis Date**	: 09/26/24 18:37
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Antimony, Dissolved	**0.500**	**0.513**	**103.**					**85-115**	**20**

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01	**Analysis Date**	: 09/26/24 17:36
Serial Dilution ID	: WG1976217-6	**Analysis Date**	: 09/26/24 17:52

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Dissolved	14.8	14.6	1	20
Magnesium, Dissolved	4.23	4.13	2	20
Sodium, Dissolved	69.0	69.1	0	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01	**Analysis Date**	: 09/26/24 15:54
Serial Dilution ID	: WG1975964-6	**Analysis Date**	: 09/26/24 16:19

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	16.0	16.2	1	20
Magnesium, Total	4.65	4.86	5	20
Sodium, Total	84.6	83.7	1	20

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10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454059-01	09/25/24 17:23	-	50
L2454059-02	09/25/24 17:23	-	50
WG1976217-1	09/25/24 17:23	-	50
WG1976217-2	09/25/24 17:23	-	50
WG1976217-3	09/25/24 17:23	-	50
WG1976217-4	09/25/24 17:23	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454059-01	09/25/24 17:23	-	50
L2454059-02	09/25/24 17:23	-	50
WG1976217-1	09/25/24 17:23	-	50
WG1976217-2	09/25/24 17:23	-	50
WG1976217-3	09/25/24 17:23	-	50
WG1976217-4	09/25/24 17:23	-	50
WG1976217-6	09/25/24 17:23	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454059-01	09/25/24 11:13	-	50
L2454059-02	09/25/24 11:13	-	50
WG1975964-1	09/25/24 11:13	-	50
WG1975964-2	09/25/24 11:13	-	50
WG1975964-3	09/25/24 11:13	-	50
WG1975964-4	09/25/24 11:13	-	50
WG1975964-6	09/25/24 11:13	-	50
WG1975964-7	09/25/24 11:13	-	50
WG1975964-8	09/25/24 11:13	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1976217-2	09/25/24 17:23	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 04:31	**End Date**	: 09/26/24 18:21

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved
R1880462-1 ICV	1	04:31:45	X
R1880462-2 ICB	1	04:35:41	X
R1880462-3 ICV	1	04:41:11	X
R1880462-4 ICB	1	04:45:14	X
R1880462-5 ICSA	1	04:53:07	X
R1880462-6 CCV	1	06:13:45	X
R1880462-7 CCB	1	06:17:48	X
R1880462-8 CCV	1	06:25:40	X
R1880462-9 CCB	1	06:29:36	X
R1880462-10 CCV	1	07:17:59	X
R1880462-11 CCB	1	07:21:55	X
R1880462-12 CCV	1	07:43:39	X
R1880462-13 CCB	1	07:47:35	X
R1880462-14 CCV	1	08:35:44	X
R1880462-15 CCB	1	08:39:41	X
R1880462-16 CCV	1	09:28:56	X
R1880462-17 CCB	1	09:32:53	X
R1880462-18 CCV	1	09:41:51	X
R1880462-19 CCB	1	09:45:51	X
R1880462-20 CCV	1	10:37:38	X
R1880462-21 CCB	1	10:41:34	X
R1880462-22 CCV	1	11:17:33	X
R1880462-23 CCB	1	11:21:38	X
R1880462-24 CCV	1	11:27:17	X
R1880462-25 CCB	1	11:31:37	X
R1880462-26 ICV	1	11:53:31	X
R1880462-27 ICB	1	11:57:33	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 04:31	**End Date**	: 09/26/24 18:21

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved
R1880462-28 ICV	1	12:01:29	X
R1880462-29 ICB	1	12:05:29	X
R1880462-30 CCV	1	12:41:38	X
R1880462-31 CCB	1	12:45:34	X
R1880462-32 CCV	1	13:27:49	X
R1880462-33 CCB	1	13:31:45	X
R1880462-34 CCV	1	14:17:30	X
R1880462-35 CCB	1	14:21:26	X
R1880462-36 CCV	1	15:06:01	X
R1880462-37 CCB	1	15:09:57	X
R1880462-38 CCV	1	15:58:18	X
R1880462-39 CCB	1	16:02:15	X
R1880462-40 CCV	1	16:48:02	X
R1880462-41 CCB	1	16:52:00	X
R1880462-42 CCV	1	16:59:57	X
R1880462-43 CCB	1	17:03:54	X
R1880462-44 CCV	1	17:31:27	X
R1880462-45 CCB	1	17:35:24	X
WG1976217-1 BLANK	1	17:40:57	X
WG1976217-2 LCS	1	17:49:02	X
L2454059-02	1	17:53:18	X
L2454059-01	1	17:57:16	X
WG1976217-3 MS	1	18:01:14	X
WG1976217-4 DUP	1	18:05:13	X
R1880462-46 CCV	1	18:17:08	X
R1880462-47 CCB	1	18:21:05	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 07:12	**End Date**	: 09/26/24 18:11

Sample Number	Dilution Factor	Analysis Time	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1880535-1 ICV	1	07:12:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-2 ICB	1	07:16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-3 ICV	1	07:24:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-4 ICB	1	07:28:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-5 ICSA	1	07:35:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-6 CCV	1	10:01:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-7 CCB	1	10:05:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-8 CCV	1	10:49:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-9 CCB	1	10:53:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-10 CCV	1	11:20:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-11 CCB	1	11:24:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-12 CCV	1	12:20:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-13 CCB	1	12:24:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-14 CCV	1	13:08:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-15 CCB	1	13:11:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-16 CCV	1	13:28:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-17 CCB	1	13:32:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-18 CCV	1	14:14:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-19 CCB	1	14:18:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-20 CCV	1	15:04:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-21 CCB	1	15:08:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-22 CCV	1	16:01:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-23 CCB	1	16:05:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-24 CCV	1	17:03:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-25 CCB	1	17:07:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-26 CCV	1	17:12:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-27 CCB	1	17:18:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 07:12	**End Date**	: 09/26/24 18:11

Sample Number	Dilution Factor	Analysis Time	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
WG1976217-1 BLANK	1	17:28:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976217-2 LCS	1	17:32:28		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2454059-01	1	17:36:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976217-3 MS	1	17:40:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976217-4 DUP	1	17:44:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976217-6 SERDIL	5	17:52:03						X						X						X			
L2454059-02	1	18:03:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-28 CCV	1	18:07:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-29 CCB	1	18:11:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 09:09	**End Date**	: 09/26/24 17:52

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1880720-1 ICV	1	09:09:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-2 ICB	1	09:15:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-3 ICSA	1	09:30:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-4 CCV	1	13:07:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-5 CCB	1	13:13:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-6 CCV	1	14:23:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-7 CCB	1	14:29:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-8 CCV	1	15:25:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-9 CCB	1	15:31:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975964-1 BLANK	1	15:41:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975964-2 LCS	1	15:47:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2454059-01	1	15:54:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975964-3 MS	1	16:00:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975964-4 DUP	1	16:06:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975964-6 SERDIL	5	16:19:42							X						X						X			
R1880720-10 CCV	1	16:26:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-11 CCB	1	16:32:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2454059-02	1	16:42:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975964-7 MS	1	17:01:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975964-8 DUP	1	17:07:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-12 CCV	1	17:46:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-13 CCB	1	17:52:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:	**Analysis Method**	:
Start Date	: 09/26/24 11:39	**End Date**	: 09/26/24 18:49

Sample Number	Dilution Factor	Analysis Time	Antimony, Dissolved
R1880768-1 ICV	1	11:39:38	X
R1880768-2 ICB	1	11:45:41	X
R1880768-3 ICV	1	11:52:00	X
R1880768-4 ICB	1	11:58:05	X
R1880768-5 ICSA	1	12:10:39	X
R1880768-6 CCV	1	14:00:21	X
R1880768-7 CCB	1	14:06:23	X
R1880768-8 CCV	1	14:16:57	X
R1880768-9 CCB	1	14:23:00	X
R1880768-10 CCV	1	15:55:35	X
R1880768-11 CCB	1	16:01:38	X
R1880768-12 CCV	1	17:04:36	X
R1880768-13 CCB	1	17:10:39	X
R1880768-14 CCV	1	18:20:22	X
R1880768-15 CCB	1	18:26:24	X
WG1976217-2 LCS	2	18:37:40	X
R1880768-16 CCV	1	18:43:46	X
R1880768-17 CCB	1	18:49:49	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

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

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: Blank DHL Trace9
Analysis started at: 9/26/2024 7:04:24 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.3 %	3.1 %	-0.2 %	0.0 %	-1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.8 %	1.1 %	-0.4 %	-0.1 %	0.5 %	-0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.5 %	-0.3 %	2.4 %	-4.9 %	0.3 %	-0.4 %	-1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.5 %	0.0 %	0.4 %	-0.9 %	-0.1 %	3.6 %	-0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	1.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: ICAL
Analysis started at: 9/26/2024 7:08:36 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9996 ppm	24.8629 ppm	1.0000 ppm	1.0026 ppm	0.9944 ppm	0.9919 ppm	9.9904 ppm
Concentration per Run 2	0.9972 ppm	25.2110 ppm	1.0035 ppm	0.9958 ppm	1.0025 ppm	1.0068 ppm	10.0234 ppm
Concentration per Run 3	1.0032 ppm	24.9261 ppm	0.9965 ppm	1.0017 ppm	1.0031 ppm	1.0012 ppm	9.9861 ppm
Concentration RSD	0.3 %	0.7 %	0.3 %	0.4 %	0.5 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9987 ppm	0.9984 ppm	0.9972 ppm	1.0000 ppm	24.8872 ppm	34.8758 ppm	0.9947 ppm
Concentration per Run 2	1.0037 ppm	1.0018 ppm	0.9963 ppm	0.9992 ppm	25.1103 ppm	34.9675 ppm	0.9960 ppm
Concentration per Run 3	0.9977 ppm	0.9998 ppm	1.0065 ppm	1.0008 ppm	25.0025 ppm	35.1566 ppm	1.0093 ppm
Concentration RSD	0.3 %	0.2 %	0.6 %	0.1 %	0.4 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0301 ppm	1.0003 ppm	0.9904 ppm	24.9381 ppm	0.9964 ppm	1.0004 ppm	1.0042 ppm
Concentration per Run 2	9.9554 ppm	0.9967 ppm	0.9992 ppm	25.1750 ppm	0.9945 ppm	1.0033 ppm	0.9979 ppm
Concentration per Run 3	10.0146 ppm	1.0030 ppm	1.0103 ppm	24.8868 ppm	1.0091 ppm	0.9962 ppm	0.9979 ppm
Concentration RSD	0.4 %	0.3 %	1.0 %	0.6 %	0.8 %	0.4 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0014 ppm	9.9484 ppm	0.9997 ppm	0.9966 ppm	1.0030 ppm	1.0001 ppm	0.9986 ppm
Concentration per Run 2	0.9939 ppm	10.0059 ppm	0.9954 ppm	0.9979 ppm	0.9972 ppm	1.0044 ppm	1.0001 ppm
Concentration per Run 3	1.0047 ppm	10.0457 ppm	1.0049 ppm	1.0055 ppm	0.9997 ppm	0.9956 ppm	1.0013 ppm
Concentration RSD	0.6 %	0.5 %	0.5 %	0.5 %	0.3 %	0.4 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	106.2629 %	104.5839 %	102.7417 %	103.7711 %	103.0173 %	103.9007 %
Concentration per Run 1	0.9988 ppm	106.0917 %	104.8585 %	102.7536 %	103.7386 %	103.1256 %	104.0750 %
Concentration per Run 2	0.9982 ppm	106.6115 %	104.3153 %	102.6107 %	103.9930 %	103.1750 %	103.6756 %
Concentration per Run 3	1.0030 ppm	106.0855 %	104.5780 %	102.8608 %	103.5816 %	102.7514 %	103.9517 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.1 %	0.2 %	0.2 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: ICV
Analysis started at: 9/26/2024 7:12:28 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5088 ppm	0.4830 ppm	0.4884 ppm	0.4967 ppm	0.4963 ppm	0.5127 ppm	0.4916 ppm
Concentration per Run 1	0.5068 ppm	0.4899 ppm	0.4878 ppm	0.4938 ppm	0.4940 ppm	0.5122 ppm	0.4890 ppm
Concentration per Run 2	0.5098 ppm	0.4885 ppm	0.4869 ppm	0.5009 ppm	0.4966 ppm	0.5121 ppm	0.4955 ppm
Concentration per Run 3	0.5098 ppm	0.4706 ppm	0.4904 ppm	0.4954 ppm	0.4982 ppm	0.5137 ppm	0.4904 ppm
Recovery Percentage 1	101.762 %	96.605 %	97.670 %	99.344 %	99.258 %	102.541 %	98.325 %
Concentration RSD	0.3 %	2.2 %	0.4 %	0.7 %	0.4 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5045 ppm	0.5136 ppm	0.4984 ppm	0.4977 ppm	0.5050 ppm	5.1552 ppm	0.4845 ppm
Concentration per Run 1	0.5082 ppm	0.5135 ppm	0.4953 ppm	0.4953 ppm	0.5063 ppm	5.1588 ppm	0.4844 ppm
Concentration per Run 2	0.5038 ppm	0.5153 ppm	0.5005 ppm	0.4999 ppm	0.5044 ppm	5.1500 ppm	0.4852 ppm
Concentration per Run 3	0.5015 ppm	0.5121 ppm	0.4996 ppm	0.4979 ppm	0.5044 ppm	5.1567 ppm	0.4840 ppm
Recovery Percentage 1	100.900 %	102.725 %	99.690 %	99.543 %	101.009 %	103.103 %	96.906 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.5 %	0.2 %	0.1 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4933 ppm	0.4918 ppm	0.5013 ppm	9.9481 ppm	0.5132 ppm	0.5078 ppm	0.5170 ppm
Concentration per Run 1	0.4909 ppm	0.4922 ppm	0.4986 ppm	9.9538 ppm	0.5096 ppm	0.5064 ppm	0.5160 ppm
Concentration per Run 2	0.4949 ppm	0.4910 ppm	0.5007 ppm	9.9536 ppm	0.5157 ppm	0.5078 ppm	0.5190 ppm
Concentration per Run 3	0.4942 ppm	0.4923 ppm	0.5047 ppm	9.9370 ppm	0.5143 ppm	0.5090 ppm	0.5161 ppm
Recovery Percentage 1	98.669 %	98.364 %	100.268 %	99.481 %	102.645 %	101.552 %	103.409 %
Concentration RSD	0.4 %	0.1 %	0.6 %	0.1 %	0.6 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4984 ppm	5.4662 ppm	0.4906 ppm	0.4774 ppm	0.5075 ppm	0.5073 ppm	0.4953 ppm
Concentration per Run 1	0.4916 ppm	5.4386 ppm	0.4879 ppm	0.4768 ppm	0.5062 ppm	0.5060 ppm	0.4934 ppm
Concentration per Run 2	0.5035 ppm	5.4805 ppm	0.4954 ppm	0.4772 ppm	0.5073 ppm	0.5079 ppm	0.4963 ppm
Concentration per Run 3	0.5000 ppm	5.4795 ppm	0.4885 ppm	0.4782 ppm	0.5089 ppm	0.5081 ppm	0.4963 ppm
Recovery Percentage 1	99.670 %	104.118 %	98.123 %	95.481 %	101.494 %	101.466 %	99.068 %
Concentration RSD	1.2 %	0.4 %	0.8 %	0.1 %	0.3 %	0.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5139 ppm	107.1520 %	105.5862 %	106.0180 %	105.4815 %	104.1506 %	105.7664 %
Concentration per Run 1	0.5112 ppm	107.3497 %	105.9600 %	107.1530 %	105.4183 %	104.9468 %	106.7082 %
Concentration per Run 2	0.5166 ppm	107.4144 %	105.6792 %	105.5447 %	105.9334 %	104.3165 %	105.2368 %
Concentration per Run 3	0.5139 ppm	106.6918 %	105.1195 %	105.3563 %	105.0927 %	103.1887 %	105.3543 %
Recovery Percentage 1	102.784 %						
Concentration RSD	0.5 %	0.4 %	0.4 %	0.9 %	0.4 %	0.9 %	0.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: ICB
Analysis started at: 9/26/2024 7:16:21 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0058 ppm	0.0008 ppm	0.0022 ppm	0.0003 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 1	-0.0005 ppm	-0.0094 ppm	0.0009 ppm	0.0031 ppm	0.0002 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 2	0.0006 ppm	0.0018 ppm	0.0010 ppm	0.0031 ppm	0.0004 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 3	0.0000 ppm	-0.0100 ppm	0.0005 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0073 ppm
Recovery Percentage 1	0.138 %	-5.847 %	16.138 %	7.480 %	3.139 %	0.875 %	5.816 %
Concentration RSD	5,696.2 %	113.3 %	30.4 %	66.4 %	37.8 %	74.8 %	34.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	-0.0056 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	-0.0403 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0145 ppm	0.0008 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0089 ppm	0.0004 ppm
Recovery Percentage 1	2.267 %	-0.555 %	1.871 %	2.058 %	0.780 %	-0.225 %	0.759 %
Concentration RSD	216.0 %	384.8 %	52.9 %	243.6 %	39.0 %	534.6 %	2,523.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0014 ppm	0.0000 ppm	0.0015 ppm	-0.0094 ppm	0.0004 ppm	0.0003 ppm	0.0037 ppm
Concentration per Run 1	-0.0022 ppm	-0.0001 ppm	0.0020 ppm	-0.0080 ppm	0.0007 ppm	0.0003 ppm	0.0090 ppm
Concentration per Run 2	0.0040 ppm	0.0001 ppm	0.0015 ppm	-0.0106 ppm	-0.0005 ppm	-0.0004 ppm	0.0014 ppm
Concentration per Run 3	0.0024 ppm	-0.0001 ppm	0.0011 ppm	-0.0096 ppm	0.0008 ppm	0.0010 ppm	0.0007 ppm
Recovery Percentage 1	1.409 %	-0.444 %	3.000 %	-0.470 %	1.402 %	3.194 %	7.420 %
Concentration RSD	229.3 %	281.9 %	30.1 %	14.2 %	198.6 %	220.9 %	123.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	-0.0026 ppm	-0.0006 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	0.0038 ppm	-0.0017 ppm	-0.0008 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0054 ppm	-0.0014 ppm	-0.0004 ppm	0.0002 ppm	-0.0003 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 3	0.0047 ppm	-0.0048 ppm	-0.0006 ppm	0.0000 ppm	-0.0004 ppm	0.0010 ppm	0.0003 ppm
Recovery Percentage 1	46.462 %	-0.524 %	-1.206 %	0.798 %	-3.101 %	2.927 %	2.439 %
Concentration RSD	16.8 %	70.8 %	30.7 %	152.4 %	35.4 %	148.2 %	45.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	104.5991 %	100.8712 %	104.1700 %	105.0235 %	100.8108 %	104.6345 %
Concentration per Run 1	0.0002 ppm	104.7381 %	100.5299 %	104.7311 %	104.8379 %	100.9509 %	105.2474 %
Concentration per Run 2	0.0001 ppm	104.1767 %	101.0022 %	103.5604 %	104.6964 %	100.5595 %	104.0982 %
Concentration per Run 3	0.0002 ppm	104.8825 %	101.0816 %	104.2184 %	105.5362 %	100.9220 %	104.5577 %
Recovery Percentage 1	3.531 %						
Concentration RSD	21.3 %	0.4 %	0.3 %	0.6 %	0.4 %	0.2 %	0.6 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: ICV
Analysis started at: 9/26/2024 7:24:02 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5121 ppm	0.4945 ppm	0.4892 ppm	0.4980 ppm	0.5078 ppm	0.5204 ppm	0.5009 ppm
Concentration per Run 1	0.5084 ppm	0.5004 ppm	0.4831 ppm	0.4956 ppm	0.5070 ppm	0.5205 ppm	0.5018 ppm
Concentration per Run 2	0.5138 ppm	0.4930 ppm	0.4940 ppm	0.5000 ppm	0.5071 ppm	0.5194 ppm	0.5066 ppm
Concentration per Run 3	0.5141 ppm	0.4900 ppm	0.4904 ppm	0.4985 ppm	0.5093 ppm	0.5213 ppm	0.4945 ppm
Recovery Percentage 1	102.418 %	98.893 %	97.835 %	99.605 %	101.560 %	104.080 %	100.190 %
Concentration RSD	0.6 %	1.1 %	1.1 %	0.4 %	0.3 %	0.2 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4992 ppm	0.5085 ppm	0.4924 ppm	0.4932 ppm	0.5123 ppm	5.2879 ppm	0.4982 ppm
Concentration per Run 1	0.4958 ppm	0.5054 ppm	0.4887 ppm	0.4921 ppm	0.5116 ppm	5.3099 ppm	0.4971 ppm
Concentration per Run 2	0.5025 ppm	0.5113 ppm	0.4957 ppm	0.4925 ppm	0.5107 ppm	5.2826 ppm	0.4982 ppm
Concentration per Run 3	0.4992 ppm	0.5088 ppm	0.4929 ppm	0.4951 ppm	0.5146 ppm	5.2712 ppm	0.4994 ppm
Recovery Percentage 1	99.832 %	101.696 %	98.483 %	98.642 %	102.460 %	105.758 %	99.645 %
Concentration RSD	0.7 %	0.6 %	0.7 %	0.3 %	0.4 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4888 ppm	0.4991 ppm	0.4901 ppm	10.2188 ppm	0.5094 ppm	0.5050 ppm	0.5090 ppm
Concentration per Run 1	0.4857 ppm	0.5008 ppm	0.4828 ppm	10.2006 ppm	0.5052 ppm	0.4999 ppm	0.5064 ppm
Concentration per Run 2	0.4886 ppm	0.4986 ppm	0.4927 ppm	10.2125 ppm	0.5139 ppm	0.5057 ppm	0.5083 ppm
Concentration per Run 3	0.4922 ppm	0.4978 ppm	0.4948 ppm	10.2432 ppm	0.5090 ppm	0.5094 ppm	0.5122 ppm
Recovery Percentage 1	97.767 %	99.816 %	98.014 %	102.188 %	101.871 %	100.998 %	101.798 %
Concentration RSD	0.7 %	0.3 %	1.3 %	0.2 %	0.9 %	1.0 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5068 ppm	5.3846 ppm	0.4764 ppm	0.4810 ppm	0.5009 ppm	0.5044 ppm	0.4887 ppm
Concentration per Run 1	0.5012 ppm	5.3422 ppm	0.4719 ppm	0.4802 ppm	0.4967 ppm	0.5017 ppm	0.4860 ppm
Concentration per Run 2	0.5093 ppm	5.4028 ppm	0.4803 ppm	0.4803 ppm	0.5040 ppm	0.5025 ppm	0.4895 ppm
Concentration per Run 3	0.5100 ppm	5.4088 ppm	0.4771 ppm	0.4827 ppm	0.5022 ppm	0.5091 ppm	0.4906 ppm
Recovery Percentage 1	101.363 %	102.563 %	95.288 %	96.209 %	100.188 %	100.886 %	97.743 %
Concentration RSD	1.0 %	0.7 %	0.9 %	0.3 %	0.8 %	0.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5092 ppm	107.6880 %	103.5091 %	104.8901 %	105.9280 %	102.3784 %	104.6241 %
Concentration per Run 1	0.5050 ppm	108.5024 %	104.2327 %	105.5054 %	106.5780 %	103.0382 %	105.2435 %
Concentration per Run 2	0.5153 ppm	106.2734 %	103.2941 %	103.7692 %	104.4028 %	102.0206 %	103.8941 %
Concentration per Run 3	0.5074 ppm	108.2882 %	103.0005 %	105.3956 %	106.8033 %	102.0765 %	104.7347 %
Recovery Percentage 1	101.845 %						
Concentration RSD	1.1 %	1.1 %	0.6 %	0.9 %	1.3 %	0.6 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: ICB
Analysis started at: 9/26/2024 7:28:01 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0013 ppm	-0.0013 ppm	0.0025 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	-0.0002 ppm	-0.0015 ppm	-0.0007 ppm	0.0024 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	-0.0003 ppm	0.0032 ppm	-0.0003 ppm	0.0040 ppm	0.0001 ppm	0.0001 ppm	-0.0035 ppm
Concentration per Run 3	-0.0001 ppm	-0.0055 ppm	-0.0029 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Recovery Percentage 1	-3.273 %	-1.273 %	-25.900 %	8.197 %	1.367 %	1.332 %	0.607 %
Concentration RSD	44.6 %	345.6 %	111.5 %	62.4 %	2.1 %	69.6 %	604.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0002 ppm	-0.0012 ppm	0.0019 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0002 ppm	-0.0011 ppm	-0.0132 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0004 ppm	-0.0017 ppm	0.0273 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0001 ppm	-0.0007 ppm	-0.0084 ppm	0.0004 ppm
Recovery Percentage 1	0.557 %	2.074 %	2.656 %	2.392 %	-2.344 %	0.077 %	17.194 %
Concentration RSD	292.5 %	62.1 %	225.2 %	54.9 %	45.2 %	1,154.2 %	48.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0021 ppm	-0.0061 ppm	0.0001 ppm	0.0007 ppm	0.0036 ppm
Concentration per Run 1	-0.0005 ppm	-0.0001 ppm	0.0021 ppm	-0.0041 ppm	-0.0001 ppm	0.0011 ppm	0.0043 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0020 ppm	-0.0095 ppm	0.0001 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0022 ppm	-0.0048 ppm	0.0004 ppm	0.0000 ppm	0.0070 ppm
Recovery Percentage 1	0.317 %	-1.259 %	4.173 %	-0.305 %	0.537 %	6.908 %	7.254 %
Concentration RSD	297.1 %	130.7 %	4.5 %	48.2 %	177.6 %	92.8 %	103.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	-0.0044 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.0045 ppm	-0.0041 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 2	0.0044 ppm	-0.0062 ppm	-0.0003 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0059 ppm	-0.0030 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0003 ppm
Recovery Percentage 1	49.317 %	-0.887 %	-0.585 %	0.015 %	-1.416 %	0.884 %	2.663 %
Concentration RSD	16.5 %	36.7 %	37.6 %	2,846.3 %	69.2 %	848.2 %	5.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	104.1705 %	100.0850 %	103.9049 %	104.1445 %	99.7805 %	104.3322 %
Concentration per Run 1	-0.0001 ppm	103.9094 %	100.6245 %	103.6523 %	104.0858 %	100.1215 %	104.1756 %
Concentration per Run 2	0.0000 ppm	104.5376 %	99.7426 %	103.7599 %	104.3857 %	99.4591 %	104.1358 %
Concentration per Run 3	0.0002 ppm	104.0646 %	99.8878 %	104.3025 %	103.9619 %	99.7611 %	104.6853 %
Recovery Percentage 1	0.711 %						
Concentration RSD	398.2 %	0.3 %	0.5 %	0.3 %	0.2 %	0.3 %	0.3 %

LabBook: WG1976462_09262024T9.imexp

Sample:	No sample
Analysis started at:	9/26/2024 7:31:54 AM
Rack	0
Vial	5
Comment	<Comment>

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: ICSA
Analysis started at: 9/26/2024 7:35:49 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	491.9671 ppm	0.0013 ppm	-0.0051 ppm	0.0015 ppm	0.0001 ppm	**535.5714 ppm**
Concentration per Run 1	0.0022 ppm	491.7981 ppm	0.0031 ppm	-0.0041 ppm	0.0016 ppm	0.0002 ppm	535.4333 ppm
Concentration per Run 2	0.0021 ppm	491.6503 ppm	0.0002 ppm	-0.0066 ppm	0.0014 ppm	0.0001 ppm	535.3984 ppm
Concentration per Run 3	0.0023 ppm	492.4529 ppm	0.0004 ppm	-0.0047 ppm	0.0016 ppm	0.0001 ppm	535.8825 ppm
Recovery Percentage 1	31.772 %		25.198 %	-17.112 %	15.474 %	2.811 %	
Concentration RSD	4.2 %	0.1 %	130.0 %	25.4 %	7.5 %	43.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0006 ppm	0.0008 ppm	0.0002 ppm	178.1769 ppm	-0.0033 ppm	-0.0008 ppm
Concentration per Run 1	-0.0008 ppm	-0.0012 ppm	0.0010 ppm	-0.0008 ppm	177.3928 ppm	0.0214 ppm	0.0003 ppm
Concentration per Run 2	-0.0006 ppm	-0.0001 ppm	0.0005 ppm	-0.0009 ppm	178.2367 ppm	-0.0112 ppm	-0.0017 ppm
Concentration per Run 3	-0.0007 ppm	-0.0006 ppm	0.0008 ppm	0.0022 ppm	178.9010 ppm	-0.0202 ppm	-0.0010 ppm
Recovery Percentage 1	-13.813 %	-3.191 %	7.616 %	1.897 %		-0.133 %	-16.012 %
Concentration RSD	14.7 %	84.1 %	28.4 %	919.2 %	0.4 %	659.9 %	126.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	459.8936 ppm	-0.0006 ppm	-0.0017 ppm	0.0127 ppm	-0.0001 ppm	-0.0001 ppm	-0.0121 ppm
Concentration per Run 1	458.5928 ppm	-0.0006 ppm	-0.0027 ppm	0.0134 ppm	-0.0012 ppm	0.0006 ppm	-0.0079 ppm
Concentration per Run 2	459.4353 ppm	-0.0005 ppm	-0.0010 ppm	0.0107 ppm	0.0010 ppm	-0.0002 ppm	-0.0156 ppm
Concentration per Run 3	461.6526 ppm	-0.0007 ppm	-0.0013 ppm	0.0140 ppm	-0.0002 ppm	-0.0006 ppm	-0.0128 ppm
Recovery Percentage 1		-6.069 %	-3.312 %	0.636 %	-0.562 %	-0.960 %	-24.160 %
Concentration RSD	0.3 %	13.4 %	55.9 %	13.9 %	806.1 %	630.6 %	32.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	0.0052 ppm	0.0000 ppm	-0.0006 ppm	0.0005 ppm	0.0041 ppm	0.0017 ppm
Concentration per Run 1	0.0043 ppm	0.0070 ppm	0.0000 ppm	-0.0006 ppm	0.0002 ppm	0.0051 ppm	0.0021 ppm
Concentration per Run 2	-0.0029 ppm	0.0022 ppm	0.0004 ppm	-0.0006 ppm	0.0010 ppm	0.0023 ppm	0.0018 ppm
Concentration per Run 3	0.0057 ppm	0.0064 ppm	-0.0006 ppm	-0.0006 ppm	0.0005 ppm	0.0048 ppm	0.0011 ppm
Recovery Percentage 1	23.392 %	1.042 %	-0.083 %	-5.908 %	5.484 %	20.310 %	16.873 %
Concentration RSD	196.5 %	49.9 %	1,210.9 %	3.8 %	80.5 %	38.6 %	29.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	96.5167 %	103.3287 %	83.4522 %	94.3593 %	102.6297 %	94.3963 %
Concentration per Run 1	0.0000 ppm	95.9318 %	103.4427 %	83.9883 %	93.6318 %	103.3508 %	94.7720 %
Concentration per Run 2	0.0002 ppm	96.7989 %	103.1629 %	82.8533 %	94.6526 %	102.2208 %	93.5531 %
Concentration per Run 3	0.0003 ppm	96.8194 %	103.3806 %	83.5149 %	94.7935 %	102.3175 %	94.8639 %
Recovery Percentage 1	2.723 %						
Concentration RSD	107.2 %	0.5 %	0.1 %	0.7 %	0.7 %	0.6 %	0.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: SIC Multi
Analysis started at: 9/26/2024 8:13:48 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0187 ppm	-0.0037 ppm	0.0097 ppm	0.0004 ppm	-0.0002 ppm	0.0134 ppm
Concentration per Run 1	-0.0005 ppm	0.0281 ppm	-0.0022 ppm	0.0111 ppm	0.0005 ppm	-0.0003 ppm	0.0178 ppm
Concentration per Run 2	0.0001 ppm	0.0156 ppm	-0.0040 ppm	0.0097 ppm	0.0004 ppm	0.0001 ppm	0.0120 ppm
Concentration per Run 3	-0.0001 ppm	0.0125 ppm	-0.0048 ppm	0.0084 ppm	0.0004 ppm	-0.0004 ppm	0.0105 ppm
Recovery Percentage 1	-2.119 %	18.724 %	-73.603 %	32.480 %	4.387 %	-5.533 %	13.439 %
Concentration RSD	192.2 %	44.2 %	35.4 %	13.6 %	19.2 %	109.3 %	28.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0053 ppm	**20.1424 ppm**	-0.0026 ppm	0.0059 ppm	0.0199 ppm	-0.0009 ppm
Concentration per Run 1	-0.0004 ppm	-0.0065 ppm	20.1951 ppm	-0.0025 ppm	0.0050 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 2	-0.0004 ppm	-0.0040 ppm	20.1111 ppm	-0.0027 ppm	0.0069 ppm	0.0442 ppm	-0.0007 ppm
Concentration per Run 3	-0.0004 ppm	-0.0053 ppm	20.1209 ppm	-0.0027 ppm	0.0059 ppm	0.0158 ppm	-0.0009 ppm
Recovery Percentage 1	-7.462 %	-26.401 %	201,423.798 %	-26.213 %	11.857 %	0.797 %	-17.203 %
Concentration RSD	7.3 %	24.2 %	**0.2 %**	5.2 %	16.3 %	112.6 %	15.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0093 ppm	**20.0570 ppm**	-0.0013 ppm	0.0013 ppm	0.0003 ppm	0.0005 ppm	-0.0124 ppm
Concentration per Run 1	-0.0110 ppm	20.0217 ppm	-0.0013 ppm	0.0088 ppm	0.0007 ppm	0.0008 ppm	-0.0171 ppm
Concentration per Run 2	-0.0069 ppm	20.0619 ppm	-0.0016 ppm	-0.0039 ppm	0.0009 ppm	0.0004 ppm	-0.0074 ppm
Concentration per Run 3	-0.0100 ppm	20.0873 ppm	-0.0012 ppm	-0.0010 ppm	-0.0009 ppm	0.0004 ppm	-0.0127 ppm
Recovery Percentage 1	-9.295 %	200,569.730 %	-2.668 %	0.066 %	1.086 %	5.471 %	-24.775 %
Concentration RSD	22.7 %	**0.2 %**	14.3 %	506.5 %	361.0 %	43.5 %	39.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	**0.0075 ppm**	**0.3281 ppm**	0.0043 ppm	0.0000 ppm	**19.8269 ppm**	0.0048 ppm	**9.9895 ppm**
Concentration per Run 1	0.0071 ppm	0.2952 ppm	0.0049 ppm	0.0002 ppm	19.8451 ppm	0.0022 ppm	9.9687 ppm
Concentration per Run 2	0.0091 ppm	0.3415 ppm	0.0045 ppm	0.0000 ppm	19.8033 ppm	0.0052 ppm	10.0026 ppm
Concentration per Run 3	0.0064 ppm	0.3475 ppm	0.0035 ppm	-0.0001 ppm	19.8324 ppm	0.0069 ppm	9.9972 ppm
Recovery Percentage 1	75.343 %	65.621 %	8.624 %	0.350 %	198,269.086 %	23.871 %	99,895.009 %
Concentration RSD	**18.9 %**	**8.7 %**	17.3 %	363.6 %	**0.1 %**	49.8 %	**0.2 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0013 ppm	108.3066 %	106.4973 %	118.9209 %	106.6470 %	105.4615 %	108.0819 %
Concentration per Run 1	-0.0013 ppm	107.4193 %	106.5204 %	119.2929 %	105.5421 %	105.8396 %	108.5626 %
Concentration per Run 2	-0.0016 ppm	108.8305 %	105.9854 %	117.7880 %	107.4521 %	104.7392 %	106.9279 %
Concentration per Run 3	-0.0010 ppm	108.6701 %	106.9862 %	119.6820 %	106.9468 %	105.8057 %	108.7552 %
Recovery Percentage 1	-26.541 %						
Concentration RSD	23.1 %	0.7 %	0.5 %	0.8 %	0.9 %	0.6 %	0.9 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LDR Check
Analysis started at: 9/26/2024 8:17:50 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0032 ppm	0.0126 ppm	22.1306 ppm	23.4068 ppm	18.7393 ppm	4.7899 ppm	0.0498 ppm
Concentration per Run 1	0.0027 ppm	0.0126 ppm	22.2173 ppm	23.3940 ppm	18.7292 ppm	4.7861 ppm	0.0483 ppm
Concentration per Run 2	0.0038 ppm	0.0204 ppm	22.0538 ppm	23.2705 ppm	18.7772 ppm	4.7890 ppm	0.0517 ppm
Concentration per Run 3	0.0031 ppm	0.0047 ppm	22.1208 ppm	23.5557 ppm	18.7116 ppm	4.7947 ppm	0.0494 ppm
Recovery Percentage 1			110.653 %	117.034 %	93.697 %		
Concentration RSD	16.9 %	62.1 %	0.4 %	0.6 %	0.2 %	0.1 %	3.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.7579 ppm	4.8075 ppm	0.0012 ppm	18.5036 ppm	0.0082 ppm	500.3943 ppm	18.0126 ppm
Concentration per Run 1	4.7953 ppm	4.8242 ppm	0.0017 ppm	18.5431 ppm	0.0065 ppm	496.9400 ppm	17.9463 ppm
Concentration per Run 2	4.6867 ppm	4.7767 ppm	0.0007 ppm	18.4611 ppm	0.0103 ppm	502.8440 ppm	18.0748 ppm
Concentration per Run 3	4.7917 ppm	4.8215 ppm	0.0013 ppm	18.5065 ppm	0.0078 ppm	501.3988 ppm	18.0166 ppm
Recovery Percentage 1	95.158 %	96.149 %		92.518 %		100.079 %	90.063 %
Concentration RSD	1.3 %	0.6 %	44.8 %	0.2 %	23.1 %	0.6 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0027 ppm	0.0005 ppm	4.9302 ppm	455.1786 ppm	9.3650 ppm	49.6230 ppm	4.8367 ppm
Concentration per Run 1	-0.0031 ppm	0.0004 ppm	4.8823 ppm	453.2936 ppm	9.3735 ppm	49.6476 ppm	4.8379 ppm
Concentration per Run 2	-0.0037 ppm	0.0005 ppm	4.9281 ppm	456.0394 ppm	9.3235 ppm	49.5592 ppm	4.8280 ppm
Concentration per Run 3	-0.0013 ppm	0.0006 ppm	4.9800 ppm	456.2029 ppm	9.3980 ppm	49.6624 ppm	4.8442 ppm
Recovery Percentage 1		0.000 %	98.603 %	91.036 %	93.650 %	99.246 %	96.734 %
Concentration RSD	45.6 %	18.4 %	1.0 %	0.4 %	0.4 %	0.1 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.0242 ppm	20.2472 ppm	9.4021 ppm	4.6008 ppm	0.0184 ppm	4.6540 ppm	0.0016 ppm
Concentration per Run 1	5.0403 ppm	20.2028 ppm	9.3843 ppm	4.6064 ppm	0.0210 ppm	4.6732 ppm	0.0019 ppm
Concentration per Run 2	5.0071 ppm	20.1625 ppm	9.3930 ppm	4.6041 ppm	0.0183 ppm	4.6425 ppm	0.0016 ppm
Concentration per Run 3	5.0252 ppm	20.3762 ppm	9.4291 ppm	4.5919 ppm	0.0160 ppm	4.6462 ppm	0.0012 ppm
Recovery Percentage 1	100.485 %	101.236 %	94.021 %	92.016 %	0.000 %	93.080 %	0.000 %
Concentration RSD	0.3 %	0.6 %	0.3 %	0.2 %	13.5 %	0.4 %	19.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.2952 ppm	100.3740 %	105.2209 %	90.4160 %	98.4104 %	103.3974 %	94.6140 %
Concentration per Run 1	19.2556 ppm	101.0247 %	105.4263 %	89.6495 %	98.9654 %	103.4527 %	94.2382 %
Concentration per Run 2	19.2993 ppm	100.4466 %	104.8850 %	90.7292 %	98.6236 %	102.8526 %	94.3971 %
Concentration per Run 3	19.3306 ppm	99.6505 %	105.3514 %	90.8694 %	97.6421 %	103.8868 %	95.2067 %
Recovery Percentage 1	96.476 %						
Concentration RSD	0.2 %	0.7 %	0.3 %	0.7 %	0.7 %	0.5 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 8:27:05 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0054 ppm	0.0921 ppm	**0.0147 ppm**	**0.0380 ppm**	0.0100 ppm	0.0050 ppm	0.0989 ppm
Concentration per Run 1	0.0053 ppm	0.0946 ppm	0.0134 ppm	0.0400 ppm	0.0102 ppm	0.0050 ppm	0.0964 ppm
Concentration per Run 2	0.0056 ppm	0.0933 ppm	0.0153 ppm	0.0374 ppm	0.0099 ppm	0.0049 ppm	0.1027 ppm
Concentration per Run 3	0.0054 ppm	0.0884 ppm	0.0154 ppm	0.0367 ppm	0.0100 ppm	0.0050 ppm	0.0977 ppm
Recovery Percentage 1	108.473 %	92.063 %	293.315 %	126.701 %	100.207 %	99.638 %	98.923 %
Concentration RSD	3.4 %	3.6 %	**7.6 %**	**4.6 %**	1.9 %	1.0 %	3.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0040 ppm	0.0207 ppm	0.0098 ppm	0.0099 ppm	0.0486 ppm	2.6004 ppm	0.0108 ppm
Concentration per Run 1	0.0039 ppm	0.0210 ppm	0.0097 ppm	0.0097 ppm	0.0477 ppm	2.6046 ppm	0.0119 ppm
Concentration per Run 2	0.0041 ppm	0.0208 ppm	0.0097 ppm	0.0096 ppm	0.0495 ppm	2.5835 ppm	0.0097 ppm
Concentration per Run 3	0.0040 ppm	0.0204 ppm	0.0098 ppm	0.0103 ppm	0.0486 ppm	2.6132 ppm	0.0109 ppm
Recovery Percentage 1	100.859 %	103.693 %	97.546 %	98.873 %	97.243 %	104.017 %	108.325 %
Concentration RSD	2.6 %	1.5 %	0.9 %	4.1 %	1.8 %	0.6 %	10.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0985 ppm	0.0101 ppm	0.0532 ppm	2.0078 ppm	0.0201 ppm	0.0111 ppm	**0.0651 ppm**
Concentration per Run 1	0.0951 ppm	0.0099 ppm	0.0525 ppm	2.0120 ppm	0.0219 ppm	0.0119 ppm	0.0645 ppm
Concentration per Run 2	0.0980 ppm	0.0098 ppm	0.0532 ppm	2.0107 ppm	0.0193 ppm	0.0112 ppm	0.0613 ppm
Concentration per Run 3	0.1023 ppm	0.0105 ppm	0.0539 ppm	2.0008 ppm	0.0190 ppm	0.0103 ppm	0.0694 ppm
Recovery Percentage 1	98.453 %	100.594 %	106.364 %	100.391 %	100.270 %	111.248 %	130.190 %
Concentration RSD	3.7 %	3.9 %	1.3 %	0.3 %	8.0 %	7.2 %	**6.2 %**

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0108 ppm	0.5122 ppm	0.0516 ppm	0.0096 ppm	0.0497 ppm	0.0195 ppm	0.0100 ppm
Concentration per Run 1	0.0111 ppm	0.5134 ppm	0.0505 ppm	0.0095 ppm	0.0499 ppm	0.0201 ppm	0.0098 ppm
Concentration per Run 2	0.0102 ppm	0.5101 ppm	0.0535 ppm	0.0097 ppm	0.0491 ppm	0.0191 ppm	0.0098 ppm
Concentration per Run 3	0.0111 ppm	0.5131 ppm	0.0507 ppm	0.0095 ppm	0.0500 ppm	0.0193 ppm	0.0102 ppm
Recovery Percentage 1	108.093 %	102.444 %	103.138 %	95.554 %	99.362 %	97.382 %	99.633 %
Concentration RSD	4.8 %	0.4 %	3.3 %	1.1 %	1.0 %	2.9 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0055 ppm	110.0863 %	106.7308 %	108.6459 %	108.7117 %	105.7221 %	107.8679 %
Concentration per Run 1	0.0056 ppm	110.4142 %	106.2758 %	107.9758 %	108.7935 %	105.4559 %	107.4216 %
Concentration per Run 2	0.0054 ppm	110.4494 %	106.8561 %	108.7084 %	109.1749 %	105.4119 %	108.0229 %
Concentration per Run 3	0.0053 ppm	109.3955 %	107.0605 %	109.2535 %	108.1667 %	106.2986 %	108.1593 %
Recovery Percentage 1	109.218 %						
Concentration RSD	2.9 %	0.5 %	0.4 %	0.6 %	0.5 %	0.5 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 9:03:56 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	0.0935 ppm	0.0040 ppm	0.0329 ppm	0.0101 ppm	0.0050 ppm	0.1014 ppm
Concentration per Run 1	0.0049 ppm	0.0896 ppm	0.0051 ppm	0.0333 ppm	0.0103 ppm	0.0051 ppm	0.0981 ppm
Concentration per Run 2	0.0058 ppm	0.1024 ppm	0.0048 ppm	0.0323 ppm	0.0101 ppm	0.0050 ppm	0.1030 ppm
Concentration per Run 3	0.0058 ppm	0.0886 ppm	0.0023 ppm	0.0331 ppm	0.0099 ppm	0.0050 ppm	0.1030 ppm
Recovery Percentage 1	109.382 %	93.544 %	80.897 %	109.661 %	101.020 %	100.896 %	101.355 %
Concentration RSD	9.6 %	8.2 %	38.2 %	1.6 %	1.8 %	0.3 %	2.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0205 ppm	0.0099 ppm	0.0097 ppm	0.0500 ppm	2.6025 ppm	0.0102 ppm
Concentration per Run 1	0.0040 ppm	0.0203 ppm	0.0101 ppm	0.0098 ppm	0.0480 ppm	2.6202 ppm	0.0101 ppm
Concentration per Run 2	0.0041 ppm	0.0201 ppm	0.0098 ppm	0.0099 ppm	0.0502 ppm	2.5996 ppm	0.0104 ppm
Concentration per Run 3	0.0042 ppm	0.0210 ppm	0.0100 ppm	0.0094 ppm	0.0519 ppm	2.5878 ppm	0.0101 ppm
Recovery Percentage 1	102.203 %	102.306 %	99.452 %	96.850 %	100.043 %	104.101 %	102.068 %
Concentration RSD	3.5 %	2.2 %	1.2 %	2.8 %	3.9 %	0.6 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1034 ppm	0.0102 ppm	0.0497 ppm	2.0197 ppm	0.0204 ppm	0.0122 ppm	0.0558 ppm
Concentration per Run 1	0.1017 ppm	0.0099 ppm	0.0498 ppm	2.0178 ppm	0.0193 ppm	0.0115 ppm	0.0563 ppm
Concentration per Run 2	0.1060 ppm	0.0104 ppm	0.0503 ppm	2.0187 ppm	0.0205 ppm	0.0125 ppm	0.0561 ppm
Concentration per Run 3	0.1025 ppm	0.0101 ppm	0.0491 ppm	2.0225 ppm	0.0213 ppm	0.0128 ppm	0.0551 ppm
Recovery Percentage 1	103.398 %	101.573 %	99.450 %	100.983 %	101.929 %	122.348 %	111.680 %
Concentration RSD	2.2 %	2.7 %	1.2 %	0.1 %	4.9 %	5.5 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0138 ppm	0.5153 ppm	0.0489 ppm	0.0097 ppm	0.0495 ppm	0.0217 ppm	0.0099 ppm
Concentration per Run 1	0.0121 ppm	0.5120 ppm	0.0483 ppm	0.0096 ppm	0.0493 ppm	0.0207 ppm	0.0097 ppm
Concentration per Run 2	0.0146 ppm	0.5167 ppm	0.0504 ppm	0.0098 ppm	0.0500 ppm	0.0231 ppm	0.0099 ppm
Concentration per Run 3	0.0146 ppm	0.5170 ppm	0.0481 ppm	0.0096 ppm	0.0492 ppm	0.0214 ppm	0.0101 ppm
Recovery Percentage 1	137.696 %	103.050 %	97.837 %	96.547 %	98.987 %	108.686 %	99.250 %
Concentration RSD	10.7 %	0.5 %	2.6 %	1.1 %	0.8 %	5.7 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	106.4982 %	105.1001 %	104.8708 %	104.1765 %	104.0620 %	103.8437 %
Concentration per Run 1	0.0054 ppm	107.1355 %	104.3554 %	104.5557 %	104.5496 %	103.6492 %	103.2653 %
Concentration per Run 2	0.0051 ppm	106.1955 %	104.8033 %	104.2737 %	103.6485 %	103.5150 %	103.4531 %
Concentration per Run 3	0.0051 ppm	106.1635 %	106.1415 %	105.7829 %	104.3313 %	105.0218 %	104.8125 %
Recovery Percentage 1	104.105 %						
Concentration RSD	3.4 %	0.5 %	0.9 %	0.8 %	0.5 %	0.8 %	0.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ 0.005
Analysis started at: 9/26/2024 9:29:20 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0051 ppm	0.0095 ppm	0.0045 ppm	0.0067 ppm	0.0053 ppm	0.0053 ppm	0.0108 ppm
Concentration per Run 1	0.0050 ppm	0.0160 ppm	0.0030 ppm	0.0058 ppm	0.0054 ppm	0.0053 ppm	0.0167 ppm
Concentration per Run 2	0.0054 ppm	0.0118 ppm	0.0049 ppm	0.0086 ppm	0.0053 ppm	0.0053 ppm	0.0068 ppm
Concentration per Run 3	0.0050 ppm	0.0007 ppm	0.0057 ppm	0.0056 ppm	0.0053 ppm	0.0053 ppm	0.0088 ppm
Recovery Percentage 1	102.679 %	0.000 %	90.916 %	0.000 %	0.000 %	106.131 %	0.000 %
Concentration RSD	4.6 %	83.7 %	30.4 %	24.8 %	0.8 %	0.5 %	48.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0052 ppm	0.0057 ppm	0.0053 ppm	0.0048 ppm	0.0056 ppm	0.0817 ppm	0.0059 ppm
Concentration per Run 1	0.0053 ppm	0.0056 ppm	0.0049 ppm	0.0049 ppm	0.0037 ppm	0.0821 ppm	0.0067 ppm
Concentration per Run 2	0.0050 ppm	0.0050 ppm	0.0056 ppm	0.0048 ppm	0.0073 ppm	0.0799 ppm	0.0056 ppm
Concentration per Run 3	0.0054 ppm	0.0064 ppm	0.0055 ppm	0.0047 ppm	0.0058 ppm	0.0831 ppm	0.0055 ppm
Recovery Percentage 1	104.820 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.0 %	12.6 %	6.8 %	2.7 %	32.5 %	2.0 %	11.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0070 ppm	0.0053 ppm	0.0052 ppm	0.1048 ppm	0.0054 ppm	0.0063 ppm	0.0091 ppm
Concentration per Run 1	0.0050 ppm	0.0053 ppm	0.0053 ppm	0.1084 ppm	0.0055 ppm	0.0059 ppm	0.0133 ppm
Concentration per Run 2	0.0095 ppm	0.0051 ppm	0.0050 ppm	0.1037 ppm	0.0057 ppm	0.0068 ppm	0.0063 ppm
Concentration per Run 3	0.0066 ppm	0.0055 ppm	0.0053 ppm	0.1024 ppm	0.0049 ppm	0.0062 ppm	0.0076 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	32.7 %	3.8 %	2.8 %	3.1 %	8.0 %	7.2 %	41.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0062 ppm	0.0571 ppm	0.0042 ppm	0.0050 ppm	0.0051 ppm	0.0052 ppm	0.0053 ppm
Concentration per Run 1	0.0092 ppm	0.0568 ppm	0.0045 ppm	0.0050 ppm	0.0047 ppm	0.0055 ppm	0.0057 ppm
Concentration per Run 2	0.0045 ppm	0.0569 ppm	0.0040 ppm	0.0050 ppm	0.0054 ppm	0.0061 ppm	0.0053 ppm
Concentration per Run 3	0.0049 ppm	0.0575 ppm	0.0041 ppm	0.0049 ppm	0.0051 ppm	0.0039 ppm	0.0050 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	42.1 %	0.7 %	6.6 %	1.8 %	6.4 %	21.5 %	6.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0058 ppm	104.2581 %	102.8291 %	104.5640 %	101.3637 %	102.1308 %	103.1471 %
Concentration per Run 1	0.0061 ppm	104.4635 %	103.4979 %	104.9084 %	101.1918 %	103.2676 %	103.4364 %
Concentration per Run 2	0.0056 ppm	104.1802 %	102.9705 %	104.6187 %	101.3680 %	102.1800 %	103.3490 %
Concentration per Run 3	0.0056 ppm	104.1307 %	102.0188 %	104.1648 %	101.5313 %	100.9450 %	102.6560 %
Recovery Percentage 1	115.027 %						
Concentration RSD	4.5 %	0.2 %	0.7 %	0.4 %	0.2 %	1.1 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ 0.01
Analysis started at: 9/26/2024 9:33:31 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0103 ppm	0.0131 ppm	0.0106 ppm	0.0119 ppm	0.0105 ppm	0.0105 ppm	0.0128 ppm
Concentration per Run 1	0.0109 ppm	0.0086 ppm	0.0091 ppm	0.0114 ppm	0.0104 ppm	0.0105 ppm	0.0154 ppm
Concentration per Run 2	0.0101 ppm	0.0157 ppm	0.0115 ppm	0.0115 ppm	0.0104 ppm	0.0105 ppm	0.0128 ppm
Concentration per Run 3	0.0099 ppm	0.0149 ppm	0.0110 ppm	0.0127 ppm	0.0107 ppm	0.0104 ppm	0.0102 ppm
Recovery Percentage 1	0.000 %	0.000 %	105.731 %	118.705 %	104.961 %	0.000 %	0.000 %
Concentration RSD	5.1 %	29.5 %	12.0 %	6.3 %	1.7 %	0.7 %	20.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0105 ppm	0.0107 ppm	0.0109 ppm	0.0099 ppm	0.0115 ppm	0.1289 ppm	0.0104 ppm
Concentration per Run 1	0.0104 ppm	0.0101 ppm	0.0103 ppm	0.0096 ppm	0.0097 ppm	0.1344 ppm	0.0112 ppm
Concentration per Run 2	0.0105 ppm	0.0106 ppm	0.0113 ppm	0.0095 ppm	0.0123 ppm	0.1195 ppm	0.0093 ppm
Concentration per Run 3	0.0106 ppm	0.0115 ppm	0.0110 ppm	0.0104 ppm	0.0126 ppm	0.1329 ppm	0.0107 ppm
Recovery Percentage 1	0.000 %	107.262 %	108.900 %	98.596 %	0.000 %	0.000 %	103.924 %
Concentration RSD	0.9 %	6.3 %	4.8 %	5.0 %	13.9 %	6.4 %	9.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0106 ppm	0.0103 ppm	0.0100 ppm	0.2112 ppm	0.0111 ppm	0.0115 ppm	0.0101 ppm
Concentration per Run 1	0.0110 ppm	0.0103 ppm	0.0096 ppm	0.2098 ppm	0.0113 ppm	0.0109 ppm	0.0144 ppm
Concentration per Run 2	0.0112 ppm	0.0104 ppm	0.0102 ppm	0.2158 ppm	0.0108 ppm	0.0115 ppm	0.0071 ppm
Concentration per Run 3	0.0095 ppm	0.0102 ppm	0.0102 ppm	0.2081 ppm	0.0112 ppm	0.0121 ppm	0.0088 ppm
Recovery Percentage 1	0.000 %	103.208 %	0.000 %	0.000 %	111.126 %	114.771 %	0.000 %
Concentration RSD	8.7 %	1.0 %	3.4 %	1.9 %	2.2 %	5.1 %	38.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0150 ppm	0.1080 ppm	0.0085 ppm	0.0100 ppm	0.0102 ppm	0.0099 ppm	0.0104 ppm
Concentration per Run 1	0.0149 ppm	0.1059 ppm	0.0089 ppm	0.0101 ppm	0.0100 ppm	0.0080 ppm	0.0105 ppm
Concentration per Run 2	0.0114 ppm	0.1082 ppm	0.0080 ppm	0.0101 ppm	0.0104 ppm	0.0106 ppm	0.0105 ppm
Concentration per Run 3	0.0187 ppm	0.1100 ppm	0.0086 ppm	0.0098 ppm	0.0104 ppm	0.0109 ppm	0.0104 ppm
Recovery Percentage 1	149.658 %	0.000 %	85.168 %	99.659 %	102.425 %	98.566 %	104.428 %
Concentration RSD	24.4 %	1.9 %	5.1 %	1.8 %	2.2 %	16.2 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0107 ppm	107.2399 %	102.7468 %	107.3232 %	106.1345 %	102.2651 %	107.2020 %
Concentration per Run 1	0.0108 ppm	108.3854 %	103.2654 %	107.3573 %	106.6218 %	102.6203 %	106.9865 %
Concentration per Run 2	0.0105 ppm	106.2109 %	102.6562 %	107.4438 %	105.5443 %	102.2826 %	107.4640 %
Concentration per Run 3	0.0107 ppm	107.1233 %	102.3188 %	107.1686 %	106.2374 %	101.8925 %	107.1554 %
Recovery Percentage 1	106.653 %						
Concentration RSD	1.5 %	1.0 %	0.5 %	0.1 %	0.5 %	0.4 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LDR 20 As pass
Analysis started at: 9/26/2024 9:37:23 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0039 ppm	19.7832 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	0.0003 ppm	-0.0010 ppm	19.7198 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 2	-0.0004 ppm	-0.0052 ppm	19.8331 ppm	0.0033 ppm	-0.0001 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	-0.0003 ppm	-0.0054 ppm	19.7966 ppm	0.0019 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm
Concentration RSD	234.1 %	64.9 %	0.3 %	134.3 %	131.2 %	155.1 %	87.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0005 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0097 ppm	0.0005 ppm
Concentration per Run 1	-0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	-0.0025 ppm	0.0005 ppm
Concentration per Run 2	-0.0004 ppm	0.0011 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0021 ppm	0.0004 ppm
Concentration per Run 3	-0.0007 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0005 ppm	0.0295 ppm	0.0004 ppm
Concentration RSD	34.6 %	106.1 %	83.6 %	388.8 %	149.1 %	178.1 %	12.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0025 ppm	0.0000 ppm	-0.0005 ppm	0.0036 ppm	0.0004 ppm	0.0013 ppm	0.0016 ppm
Concentration per Run 1	0.0016 ppm	0.0000 ppm	-0.0006 ppm	0.0032 ppm	0.0003 ppm	0.0025 ppm	0.0009 ppm
Concentration per Run 2	0.0018 ppm	0.0000 ppm	-0.0007 ppm	0.0004 ppm	0.0012 ppm	0.0005 ppm	0.0015 ppm
Concentration per Run 3	0.0041 ppm	0.0001 ppm	-0.0003 ppm	0.0072 ppm	-0.0001 ppm	0.0008 ppm	0.0025 ppm
Concentration RSD	56.2 %	236.8 %	43.1 %	95.0 %	152.8 %	83.9 %	49.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	-0.0023 ppm	-0.0011 ppm	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 1	0.0054 ppm	-0.0001 ppm	-0.0027 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 2	0.0024 ppm	-0.0052 ppm	-0.0003 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0062 ppm	-0.0015 ppm	-0.0003 ppm	0.0000 ppm	-0.0004 ppm	0.0014 ppm	0.0003 ppm
Concentration RSD	43.1 %	114.7 %	126.1 %	7.1 %	21.5 %	90.8 %	59.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	109.3291 %	105.0044 %	109.4707 %	107.4820 %	104.2105 %	108.5706 %
Concentration per Run 1	0.0006 ppm	110.2230 %	105.1203 %	109.6980 %	108.1834 %	104.4867 %	108.6547 %
Concentration per Run 2	0.0006 ppm	108.3410 %	104.5212 %	108.8588 %	106.6494 %	103.9420 %	108.5780 %
Concentration per Run 3	0.0007 ppm	109.4233 %	105.3716 %	109.8552 %	107.6133 %	104.2028 %	108.4789 %
Concentration RSD	7.5 %	0.9 %	0.4 %	0.5 %	0.7 %	0.3 %	0.1 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LDR 20 B pass
Analysis started at: 9/26/2024 9:41:15 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0066 ppm	-0.0009 ppm	**21.0122 ppm**	0.0002 ppm	0.0001 ppm	0.0052 ppm
Concentration per Run 1	-0.0002 ppm	-0.0038 ppm	-0.0018 ppm	20.8550 ppm	0.0003 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 2	-0.0006 ppm	-0.0150 ppm	-0.0030 ppm	21.0793 ppm	0.0004 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	-0.0004 ppm	-0.0010 ppm	0.0020 ppm	21.1022 ppm	0.0000 ppm	0.0001 ppm	0.0076 ppm
Concentration RSD	42.4 %	112.1 %	278.2 %	0.7 %	97.8 %	40.7 %	59.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0004 ppm	-0.0001 ppm	0.0010 ppm	-0.0067 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	-0.0293 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	-0.0002 ppm	0.0016 ppm	-0.0189 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0012 ppm	0.0003 ppm	-0.0004 ppm	0.0014 ppm	0.0281 ppm	0.0009 ppm
Concentration RSD	111.9 %	189.5 %	50.2 %	284.9 %	78.9 %	457.9 %	380.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0001 ppm	0.0002 ppm	-0.0036 ppm	0.0005 ppm	0.0008 ppm	0.0033 ppm
Concentration per Run 1	0.0014 ppm	-0.0001 ppm	0.0002 ppm	-0.0107 ppm	0.0003 ppm	0.0007 ppm	0.0023 ppm
Concentration per Run 2	-0.0004 ppm	-0.0002 ppm	-0.0005 ppm	0.0029 ppm	0.0010 ppm	0.0011 ppm	0.0038 ppm
Concentration per Run 3	-0.0022 ppm	0.0001 ppm	0.0008 ppm	-0.0029 ppm	0.0002 ppm	0.0006 ppm	0.0038 ppm
Concentration RSD	473.6 %	204.1 %	405.9 %	191.2 %	85.7 %	28.4 %	26.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	-0.0024 ppm	-0.0007 ppm	0.0001 ppm	-0.0003 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0019 ppm	-0.0009 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0027 ppm	-0.0047 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0017 ppm	0.0003 ppm
Concentration per Run 3	0.0029 ppm	-0.0005 ppm	-0.0010 ppm	0.0002 ppm	-0.0003 ppm	-0.0017 ppm	0.0002 ppm
Concentration RSD	82.1 %	89.5 %	51.3 %	145.0 %	42.9 %	64.4 %	63.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	107.7437 %	103.2428 %	106.9200 %	106.9607 %	102.6579 %	107.1789 %
Concentration per Run 1	0.0001 ppm	108.9594 %	104.4470 %	107.3958 %	107.7275 %	103.7706 %	107.8396 %
Concentration per Run 2	-0.0001 ppm	107.2547 %	103.5403 %	106.2225 %	106.6399 %	102.5327 %	106.4201 %
Concentration per Run 3	0.0000 ppm	107.0170 %	101.7412 %	107.1415 %	106.5148 %	101.6704 %	107.2770 %
Concentration RSD	1,669.6 %	1.0 %	1.3 %	0.6 %	0.6 %	1.0 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LDR 500 Fe pass
Analysis started at: 9/26/2024 9:45:07 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0047 ppm	-0.0029 ppm	0.0172 ppm	0.0006 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 1	0.0000 ppm	0.0039 ppm	-0.0017 ppm	0.0177 ppm	0.0005 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 2	0.0007 ppm	0.0015 ppm	-0.0031 ppm	0.0173 ppm	0.0007 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 3	0.0006 ppm	0.0088 ppm	-0.0037 ppm	0.0165 ppm	0.0005 ppm	0.0000 ppm	0.0088 ppm
Concentration RSD	80.1 %	77.9 %	35.2 %	3.7 %	13.8 %	85.0 %	26.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0020 ppm	0.0001 ppm	0.0002 ppm	462.0892 ppm	-0.0504 ppm	0.0004 ppm
Concentration per Run 1	0.0005 ppm	-0.0019 ppm	0.0002 ppm	-0.0002 ppm	462.5125 ppm	-0.0435 ppm	0.0009 ppm
Concentration per Run 2	0.0004 ppm	-0.0025 ppm	0.0000 ppm	0.0002 ppm	462.4989 ppm	-0.0480 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	-0.0016 ppm	0.0000 ppm	0.0007 ppm	461.2561 ppm	-0.0595 ppm	0.0003 ppm
Concentration RSD	16.6 %	22.6 %	193.3 %	163.5 %	0.2 %	16.4 %	100.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0027 ppm	-0.0029 ppm	0.0028 ppm	-0.0017 ppm	0.0018 ppm	-0.0019 ppm
Concentration per Run 1	-0.0020 ppm	-0.0027 ppm	-0.0034 ppm	0.0011 ppm	-0.0021 ppm	0.0029 ppm	0.0011 ppm
Concentration per Run 2	-0.0008 ppm	-0.0027 ppm	-0.0027 ppm	0.0029 ppm	-0.0013 ppm	0.0024 ppm	-0.0012 ppm
Concentration per Run 3	0.0003 ppm	-0.0028 ppm	-0.0027 ppm	0.0045 ppm	-0.0017 ppm	0.0002 ppm	-0.0056 ppm
Concentration RSD	136.4 %	3.3 %	14.7 %	60.5 %	24.4 %	77.2 %	178.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	-0.0011 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0013 ppm	0.0020 ppm
Concentration per Run 1	-0.0005 ppm	0.0014 ppm	-0.0002 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	0.0023 ppm
Concentration per Run 2	-0.0006 ppm	-0.0016 ppm	0.0004 ppm	0.0005 ppm	0.0000 ppm	0.0026 ppm	0.0021 ppm
Concentration per Run 3	0.0036 ppm	-0.0029 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0016 ppm	0.0016 ppm
Concentration RSD	299.2 %	205.2 %	818.1 %	3.5 %	725.1 %	109.1 %	18.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	107.1377 %	104.8145 %	99.3099 %	105.0923 %	103.6512 %	106.3250 %
Concentration per Run 1	-0.0002 ppm	107.8556 %	104.5627 %	99.6183 %	105.4289 %	103.3010 %	106.7756 %
Concentration per Run 2	-0.0005 ppm	107.5739 %	104.6679 %	99.4157 %	105.6947 %	103.2095 %	106.0352 %
Concentration per Run 3	-0.0008 ppm	105.9835 %	105.2129 %	98.8958 %	104.1533 %	104.4432 %	106.1642 %
Concentration RSD	60.3 %	0.9 %	0.3 %	0.4 %	0.8 %	0.7 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: xLDR 1000 Ca
Analysis started at: 9/26/2024 9:49:00 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0006 ppm	**0.0044 ppm**	0.0095 ppm	0.0010 ppm	0.0001 ppm	**897.2638 ppm**
Concentration per Run 1	-0.0006 ppm	0.0170 ppm	0.0019 ppm	0.0101 ppm	0.0008 ppm	0.0001 ppm	900.4446 ppm
Concentration per Run 2	-0.0003 ppm	-0.0058 ppm	0.0046 ppm	0.0075 ppm	0.0012 ppm	0.0001 ppm	901.4907 ppm
Concentration per Run 3	-0.0008 ppm	-0.0093 ppm	0.0068 ppm	0.0109 ppm	0.0010 ppm	0.0001 ppm	889.8560 ppm
Concentration RSD	40.0 %	2,289.6 %	**55.8 %**	18.9 %	15.8 %	21.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm	0.0108 ppm	0.0157 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0006 ppm	0.0117 ppm	0.0075 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm	0.0106 ppm	0.0204 ppm	-0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0007 ppm	0.0005 ppm	0.0008 ppm	0.0100 ppm	0.0193 ppm	-0.0037 ppm
Concentration RSD	307.2 %	221.7 %	28.9 %	108.2 %	8.0 %	45.7 %	241.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0054 ppm	0.0006 ppm	0.0001 ppm	0.0026 ppm	0.0012 ppm	0.0008 ppm	-0.0015 ppm
Concentration per Run 1	0.0058 ppm	0.0004 ppm	-0.0002 ppm	0.0038 ppm	0.0012 ppm	0.0007 ppm	-0.0030 ppm
Concentration per Run 2	0.0044 ppm	0.0008 ppm	0.0001 ppm	0.0023 ppm	0.0013 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 3	0.0061 ppm	0.0005 ppm	0.0004 ppm	0.0017 ppm	0.0010 ppm	0.0004 ppm	-0.0018 ppm
Concentration RSD	16.2 %	31.3 %	247.7 %	43.7 %	14.9 %	48.9 %	105.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	0.0125 ppm	-0.0012 ppm	-0.0014 ppm	0.0009 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 1	0.0046 ppm	0.0205 ppm	-0.0007 ppm	-0.0014 ppm	0.0009 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 2	-0.0014 ppm	0.0082 ppm	-0.0002 ppm	-0.0015 ppm	0.0011 ppm	0.0024 ppm	0.0009 ppm
Concentration per Run 3	0.0010 ppm	0.0088 ppm	-0.0028 ppm	-0.0013 ppm	0.0009 ppm	-0.0004 ppm	0.0012 ppm
Concentration RSD	217.4 %	55.5 %	112.5 %	5.3 %	15.5 %	188.1 %	41.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0030 ppm	100.5138 %	104.1335 %	89.8046 %	99.3776 %	103.6996 %	98.6302 %
Concentration per Run 1	0.0032 ppm	101.1172 %	104.5018 %	89.7499 %	99.8776 %	104.3174 %	98.7119 %
Concentration per Run 2	0.0029 ppm	100.4087 %	104.0844 %	89.8653 %	99.5725 %	103.9201 %	99.0784 %
Concentration per Run 3	0.0029 ppm	100.0155 %	103.8142 %	89.7987 %	98.6827 %	102.8614 %	98.1004 %
Concentration RSD	6.3 %	0.6 %	0.3 %	0.1 %	0.6 %	0.7 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 10:01:23 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5142 ppm	0.4784 ppm	0.4914 ppm	0.5079 ppm	0.5001 ppm	0.5129 ppm	0.4934 ppm
Concentration per Run 1	0.5134 ppm	0.4809 ppm	0.4934 ppm	0.5109 ppm	0.4984 ppm	0.5116 ppm	0.4918 ppm
Concentration per Run 2	0.5138 ppm	0.4823 ppm	0.4892 ppm	0.5004 ppm	0.5032 ppm	0.5137 ppm	0.4980 ppm
Concentration per Run 3	0.5152 ppm	0.4720 ppm	0.4916 ppm	0.5123 ppm	0.4988 ppm	0.5134 ppm	0.4906 ppm
Recovery Percentage 1	102.832 %	95.677 %	98.283 %	101.579 %	100.029 %	102.584 %	98.688 %
Concentration RSD	0.2 %	1.2 %	0.4 %	1.3 %	0.5 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4997 ppm	0.5131 ppm	0.4928 ppm	0.4927 ppm	0.5046 ppm	5.1963 ppm	0.4942 ppm
Concentration per Run 1	0.4962 ppm	0.5118 ppm	0.4927 ppm	0.4960 ppm	0.5046 ppm	5.1755 ppm	0.4973 ppm
Concentration per Run 2	0.4989 ppm	0.5119 ppm	0.4912 ppm	0.4889 ppm	0.5072 ppm	5.1939 ppm	0.4931 ppm
Concentration per Run 3	0.5038 ppm	0.5155 ppm	0.4946 ppm	0.4933 ppm	0.5020 ppm	5.2195 ppm	0.4922 ppm
Recovery Percentage 1	99.930 %	102.616 %	98.570 %	98.546 %	100.918 %	103.926 %	98.837 %
Concentration RSD	0.8 %	0.4 %	0.3 %	0.7 %	0.5 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4966 ppm	0.4933 ppm	0.4886 ppm	10.0178 ppm	0.5111 ppm	0.5008 ppm	0.5183 ppm
Concentration per Run 1	0.4954 ppm	0.4940 ppm	0.4858 ppm	10.0099 ppm	0.5105 ppm	0.4982 ppm	0.5176 ppm
Concentration per Run 2	0.4928 ppm	0.4941 ppm	0.4863 ppm	10.0326 ppm	0.5049 ppm	0.5036 ppm	0.5167 ppm
Concentration per Run 3	0.5015 ppm	0.4917 ppm	0.4935 ppm	10.0110 ppm	0.5180 ppm	0.5007 ppm	0.5207 ppm
Recovery Percentage 1	99.317 %	98.657 %	97.710 %	100.178 %	102.227 %	100.169 %	103.666 %
Concentration RSD	0.9 %	0.3 %	0.9 %	0.1 %	1.3 %	0.5 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5097 ppm	5.4506 ppm	0.4812 ppm	0.4762 ppm	0.5011 ppm	0.4958 ppm	0.4913 ppm
Concentration per Run 1	0.5071 ppm	5.4478 ppm	0.4829 ppm	0.4734 ppm	0.5004 ppm	0.4936 ppm	0.4899 ppm
Concentration per Run 2	0.5102 ppm	5.4332 ppm	0.4773 ppm	0.4789 ppm	0.5009 ppm	0.4981 ppm	0.4890 ppm
Concentration per Run 3	0.5116 ppm	5.4709 ppm	0.4833 ppm	0.4765 ppm	0.5020 ppm	0.4958 ppm	0.4948 ppm
Recovery Percentage 1	101.930 %	103.821 %	96.234 %	95.247 %	100.223 %	99.164 %	98.251 %
Concentration RSD	0.5 %	0.3 %	0.7 %	0.6 %	0.2 %	0.5 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5166 ppm	105.0016 %	103.8144 %	104.0482 %	102.5112 %	101.8235 %	103.0387 %
Concentration per Run 1	0.5179 ppm	104.9024 %	103.5923 %	105.1320 %	102.7164 %	101.5582 %	103.9163 %
Concentration per Run 2	0.5122 ppm	105.6526 %	103.0876 %	103.6616 %	102.7311 %	101.1548 %	102.7798 %
Concentration per Run 3	0.5196 ppm	104.4498 %	104.7633 %	103.3509 %	102.0862 %	102.7574 %	102.4200 %
Recovery Percentage 1	103.312 %						
Concentration RSD	0.7 %	0.6 %	0.8 %	0.9 %	0.4 %	0.8 %	0.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 10:05:37 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0077 ppm	-0.0013 ppm	0.0032 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0053 ppm	-0.0023 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	-0.0006 ppm	-0.0024 ppm	-0.0003 ppm	0.0035 ppm	0.0002 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 3	0.0002 ppm	-0.0155 ppm	-0.0012 ppm	0.0037 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	0.315 %	-7.721 %	-25.426 %	10.687 %	1.188 %	1.040 %	0.106 %
Concentration RSD	2,658.7 %	89.2 %	76.3 %	20.6 %	85.7 %	21.1 %	2,480.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0002 ppm	0.0003 ppm	-0.0011 ppm	-0.0074 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0012 ppm	0.0004 ppm	0.0005 ppm	-0.0009 ppm	-0.0123 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0247 ppm	0.0018 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm	-0.0028 ppm	0.0147 ppm	-0.0003 ppm
Recovery Percentage 1	-0.327 %	3.901 %	2.403 %	3.073 %	-2.115 %	-0.296 %	16.126 %
Concentration RSD	1,032.7 %	74.1 %	67.1 %	65.1 %	161.3 %	271.9 %	134.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0017 ppm	-0.0002 ppm	0.0015 ppm	-0.0072 ppm	0.0005 ppm	0.0005 ppm	0.0041 ppm
Concentration per Run 1	0.0004 ppm	-0.0003 ppm	0.0019 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0050 ppm
Concentration per Run 2	0.0024 ppm	-0.0002 ppm	0.0015 ppm	-0.0089 ppm	0.0009 ppm	0.0007 ppm	0.0046 ppm
Concentration per Run 3	0.0024 ppm	-0.0001 ppm	0.0010 ppm	-0.0135 ppm	0.0004 ppm	0.0009 ppm	0.0026 ppm
Recovery Percentage 1	1.735 %	-2.043 %	2.918 %	-0.359 %	2.049 %	4.950 %	8.144 %
Concentration RSD	64.9 %	45.5 %	29.6 %	101.8 %	63.4 %	95.8 %	30.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	-0.0031 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0028 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0014 ppm	0.0005 ppm
Concentration per Run 2	0.0046 ppm	-0.0042 ppm	0.0008 ppm	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.0042 ppm	-0.0024 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0005 ppm
Recovery Percentage 1	29.122 %	-0.627 %	-0.674 %	0.129 %	-0.198 %	0.001 %	5.263 %
Concentration RSD	87.0 %	29.5 %	301.5 %	841.8 %	912.5 %	935,579.2 %	16.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	106.0034 %	101.8573 %	105.1846 %	105.8271 %	101.1918 %	105.4370 %
Concentration per Run 1	0.0004 ppm	105.8631 %	101.6235 %	105.3919 %	105.7644 %	100.6577 %	105.4806 %
Concentration per Run 2	0.0001 ppm	106.1329 %	101.6847 %	105.0596 %	105.9377 %	100.9477 %	105.5851 %
Concentration per Run 3	0.0005 ppm	106.0142 %	102.2635 %	105.1023 %	105.7791 %	101.9701 %	105.2452 %
Recovery Percentage 1	6.936 %						
Concentration RSD	51.5 %	0.1 %	0.3 %	0.2 %	0.1 %	0.7 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976360-1 WG1976360
Analysis started at: 9/26/2024 10:14:31 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0029 ppm	0.0013 ppm	0.0033 ppm	0.0003 ppm	0.0001 ppm	0.0133 ppm
Concentration per Run 1	-0.0003 ppm	0.0034 ppm	-0.0004 ppm	0.0018 ppm	0.0002 ppm	0.0001 ppm	0.0080 ppm
Concentration per Run 2	0.0004 ppm	0.0024 ppm	0.0013 ppm	0.0058 ppm	0.0004 ppm	0.0000 ppm	0.0148 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.0028 ppm	0.0023 ppm	0.0004 ppm	0.0001 ppm	0.0171 ppm
Recovery Percentage 1	0.937 %	2.920 %	25.192 %	10.981 %	3.249 %	1.366 %	13.312 %
Concentration RSD	475.9 %	17.6 %	126.3 %	65.1 %	33.3 %	48.1 %	35.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0009 ppm	0.0000 ppm	0.0180 ppm	0.0200 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0010 ppm	0.0001 ppm	0.0185 ppm	0.0532 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0008 ppm	0.0001 ppm	0.0179 ppm	0.0184 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0007 ppm	0.0010 ppm	-0.0002 ppm	0.0176 ppm	-0.0116 ppm	0.0017 ppm
Recovery Percentage 1	-0.752 %	3.544 %	9.348 %	0.018 %	36.056 %	0.800 %	9.668 %
Concentration RSD	114.3 %	32.2 %	12.5 %	10,871.1 %	2.5 %	162.0 %	236.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0056 ppm	0.0005 ppm	0.0004 ppm	0.0038 ppm	0.0001 ppm	0.0021 ppm	0.0046 ppm
Concentration per Run 1	0.0064 ppm	0.0003 ppm	0.0003 ppm	0.0113 ppm	0.0002 ppm	0.0025 ppm	0.0032 ppm
Concentration per Run 2	0.0023 ppm	0.0007 ppm	0.0003 ppm	0.0012 ppm	0.0001 ppm	0.0022 ppm	0.0074 ppm
Concentration per Run 3	0.0082 ppm	0.0005 ppm	0.0006 ppm	-0.0012 ppm	-0.0001 ppm	0.0016 ppm	0.0030 ppm
Recovery Percentage 1	5.611 %	5.147 %	0.813 %	0.188 %	0.248 %	21.230 %	9.103 %
Concentration RSD	53.3 %	35.5 %	49.2 %	175.7 %	240.4 %	21.5 %	53.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	0.0125 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 1	0.0037 ppm	0.0130 ppm	0.0008 ppm	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0020 ppm	0.0133 ppm	0.0013 ppm	0.0002 ppm	-0.0003 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0035 ppm	0.0114 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	-0.0042 ppm	0.0003 ppm
Recovery Percentage 1	30.936 %	2.508 %	1.817 %	0.698 %	1.340 %	-8.914 %	1.904 %
Concentration RSD	30.6 %	8.2 %	39.5 %	190.2 %	306.5 %	120.3 %	133.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	106.9615 %	107.2870 %	104.0913 %	105.4981 %	106.4750 %	104.9831 %
Concentration per Run 1	0.0016 ppm	108.5718 %	107.1840 %	102.6653 %	106.9955 %	106.7216 %	103.8447 %
Concentration per Run 2	0.0014 ppm	105.4976 %	108.4018 %	104.3704 %	103.6208 %	107.4900 %	105.1183 %
Concentration per Run 3	0.0014 ppm	106.8150 %	106.2751 %	105.2381 %	105.8779 %	105.2134 %	105.9862 %
Recovery Percentage 1	29.799 %						
Concentration RSD	8.7 %	1.4 %	1.0 %	1.3 %	1.6 %	1.1 %	1.0 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976360-2 WG1976360
Analysis started at: 9/26/2024 10:18:36 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0972 ppm	3.8674 ppm	0.2339 ppm	1.8912 ppm	3.8870 ppm	0.1017 ppm	19.3860 ppm
Concentration per Run 1	0.0976 ppm	3.8990 ppm	0.2324 ppm	1.8877 ppm	3.8912 ppm	0.1018 ppm	19.4453 ppm
Concentration per Run 2	0.0969 ppm	3.8394 ppm	0.2340 ppm	1.9018 ppm	3.8812 ppm	0.1016 ppm	19.2739 ppm
Concentration per Run 3	0.0971 ppm	3.8637 ppm	0.2355 ppm	1.8842 ppm	3.8884 ppm	0.1016 ppm	19.4389 ppm
Concentration RSD	0.4 %	0.8 %	0.7 %	0.5 %	0.1 %	0.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1011 ppm	0.9837 ppm	0.3927 ppm	0.5023 ppm	2.0114 ppm	19.9256 ppm	0.0010 ppm
Concentration per Run 1	0.1030 ppm	0.9960 ppm	0.3938 ppm	0.5041 ppm	2.0220 ppm	19.8669 ppm	0.0001 ppm
Concentration per Run 2	0.0998 ppm	0.9763 ppm	0.3941 ppm	0.5016 ppm	2.0046 ppm	19.8919 ppm	0.0033 ppm
Concentration per Run 3	0.1006 ppm	0.9787 ppm	0.3902 ppm	0.5011 ppm	2.0076 ppm	20.0179 ppm	-0.0005 ppm
Concentration RSD	1.7 %	1.1 %	0.6 %	0.3 %	0.5 %	0.4 %	215.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.1546 ppm	1.0038 ppm	1.9928 ppm	19.5752 ppm	0.9832 ppm	1.0356 ppm	1.0026 ppm
Concentration per Run 1	19.1829 ppm	1.0050 ppm	1.9981 ppm	19.6048 ppm	0.9855 ppm	1.0363 ppm	1.0111 ppm
Concentration per Run 2	19.1523 ppm	1.0023 ppm	1.9816 ppm	19.5174 ppm	0.9886 ppm	1.0356 ppm	0.9967 ppm
Concentration per Run 3	19.1284 ppm	1.0042 ppm	1.9988 ppm	19.6035 ppm	0.9755 ppm	1.0348 ppm	0.9999 ppm
Concentration RSD	0.1 %	0.1 %	0.5 %	0.3 %	0.7 %	0.1 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2242 ppm	1.4919 ppm	1.8692 ppm	1.8305 ppm	1.9742 ppm	0.2336 ppm	1.0029 ppm
Concentration per Run 1	0.2222 ppm	1.4982 ppm	1.8780 ppm	1.8344 ppm	1.9759 ppm	0.2328 ppm	1.0060 ppm
Concentration per Run 2	0.2260 ppm	1.4874 ppm	1.8616 ppm	1.8219 ppm	1.9797 ppm	0.2340 ppm	1.0009 ppm
Concentration per Run 3	0.2242 ppm	1.4901 ppm	1.8681 ppm	1.8352 ppm	1.9670 ppm	0.2340 ppm	1.0017 ppm
Concentration RSD	0.8 %	0.4 %	0.4 %	0.4 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9881 ppm	108.6313 %	108.2285 %	105.5502 %	106.7224 %	106.9503 %	106.8445 %
Concentration per Run 1	0.9899 ppm	108.3756 %	108.0246 %	105.2342 %	106.7303 %	107.2340 %	106.3375 %
Concentration per Run 2	0.9879 ppm	108.7575 %	107.7819 %	106.2078 %	106.7880 %	106.3378 %	107.5882 %
Concentration per Run 3	0.9865 ppm	108.7608 %	108.8791 %	105.2088 %	106.6490 %	107.2790 %	106.6079 %
Concentration RSD	0.2 %	0.2 %	0.5 %	0.5 %	0.1 %	0.5 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976360-3 WG1976360
Analysis started at: 9/26/2024 10:22:29 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0945 ppm	3.7538 ppm	0.2298 ppm	1.8631 ppm	3.7772 ppm	0.0983 ppm	18.9884 ppm
Concentration per Run 1	0.0950 ppm	3.7569 ppm	0.2320 ppm	1.8636 ppm	3.7841 ppm	0.0987 ppm	18.9699 ppm
Concentration per Run 2	0.0946 ppm	3.7584 ppm	0.2264 ppm	1.8542 ppm	3.7740 ppm	0.0982 ppm	18.9917 ppm
Concentration per Run 3	0.0939 ppm	3.7461 ppm	0.2310 ppm	1.8716 ppm	3.7736 ppm	0.0981 ppm	19.0035 ppm
Concentration RSD	0.6 %	0.2 %	1.3 %	0.5 %	0.2 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1001 ppm	0.9654 ppm	0.3839 ppm	0.4896 ppm	1.9410 ppm	19.3756 ppm	-0.0002 ppm
Concentration per Run 1	0.0998 ppm	0.9652 ppm	0.3830 ppm	0.4884 ppm	1.9463 ppm	19.3576 ppm	0.0001 ppm
Concentration per Run 2	0.1010 ppm	0.9713 ppm	0.3845 ppm	0.4876 ppm	1.9400 ppm	19.4545 ppm	-0.0003 ppm
Concentration per Run 3	0.0994 ppm	0.9596 ppm	0.3842 ppm	0.4928 ppm	1.9366 ppm	19.3148 ppm	-0.0005 ppm
Concentration RSD	0.8 %	0.6 %	0.2 %	0.6 %	0.3 %	0.4 %	116.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.8098 ppm	0.9742 ppm	1.9623 ppm	19.1118 ppm	0.9606 ppm	1.0150 ppm	0.9728 ppm
Concentration per Run 1	18.8279 ppm	0.9770 ppm	1.9494 ppm	19.1627 ppm	0.9624 ppm	1.0105 ppm	0.9685 ppm
Concentration per Run 2	18.8800 ppm	0.9725 ppm	1.9677 ppm	19.0851 ppm	0.9619 ppm	1.0131 ppm	0.9708 ppm
Concentration per Run 3	18.7214 ppm	0.9730 ppm	1.9697 ppm	19.0877 ppm	0.9577 ppm	1.0214 ppm	0.9792 ppm
Concentration RSD	0.4 %	0.3 %	0.6 %	0.2 %	0.3 %	0.6 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2249 ppm	1.4657 ppm	1.8269 ppm	1.7910 ppm	1.9281 ppm	0.2272 ppm	0.9772 ppm
Concentration per Run 1	0.2245 ppm	1.4644 ppm	1.8191 ppm	1.7943 ppm	1.9324 ppm	0.2266 ppm	0.9752 ppm
Concentration per Run 2	0.2237 ppm	1.4640 ppm	1.8224 ppm	1.7862 ppm	1.9323 ppm	0.2242 ppm	0.9784 ppm
Concentration per Run 3	0.2266 ppm	1.4688 ppm	1.8392 ppm	1.7926 ppm	1.9197 ppm	0.2309 ppm	0.9780 ppm
Concentration RSD	0.7 %	0.2 %	0.6 %	0.2 %	0.4 %	1.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9656 ppm	109.9454 %	109.6747 %	106.7784 %	107.9256 %	108.4996 %	108.0475 %
Concentration per Run 1	0.9662 ppm	111.2222 %	110.6311 %	106.6993 %	109.0528 %	109.4816 %	107.8194 %
Concentration per Run 2	0.9643 ppm	109.0900 %	108.2727 %	107.0018 %	107.0757 %	107.1519 %	107.9922 %
Concentration per Run 3	0.9662 ppm	109.5239 %	110.1204 %	106.6340 %	107.6484 %	108.8654 %	108.3311 %
Concentration RSD	0.1 %	1.0 %	1.1 %	0.2 %	0.9 %	1.1 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455369-01 WG1976360
Analysis started at: 9/26/2024 10:26:23 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.1019 ppm	0.0042 ppm	0.0164 ppm	0.0107 ppm	0.0001 ppm	4.6115 ppm
Concentration per Run 1	0.0005 ppm	0.1054 ppm	0.0023 ppm	0.0168 ppm	0.0108 ppm	0.0000 ppm	4.5842 ppm
Concentration per Run 2	-0.0001 ppm	0.1003 ppm	0.0058 ppm	0.0157 ppm	0.0107 ppm	0.0001 ppm	4.6265 ppm
Concentration per Run 3	0.0002 ppm	0.0998 ppm	0.0044 ppm	0.0165 ppm	0.0107 ppm	0.0001 ppm	4.6239 ppm
Concentration RSD	127.2 %	3.0 %	42.4 %	3.6 %	0.8 %	25.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0029 ppm	0.0494 ppm	0.2353 ppm	2.0716 ppm	0.0016 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	0.0027 ppm	0.0494 ppm	0.2338 ppm	2.0439 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0034 ppm	0.0499 ppm	0.2350 ppm	2.1285 ppm	0.0029 ppm
Concentration per Run 3	-0.0001 ppm	0.0013 ppm	0.0028 ppm	0.0490 ppm	0.2370 ppm	2.0424 ppm	0.0012 ppm
Concentration RSD	199.9 %	141.5 %	12.2 %	0.9 %	0.7 %	2.4 %	75.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3069 ppm	0.0089 ppm	0.0070 ppm	7.9953 ppm	0.0075 ppm	0.0050 ppm	0.0052 ppm
Concentration per Run 1	0.3073 ppm	0.0089 ppm	0.0077 ppm	7.9525 ppm	0.0073 ppm	0.0055 ppm	0.0058 ppm
Concentration per Run 2	0.3060 ppm	0.0088 ppm	0.0069 ppm	8.0173 ppm	0.0073 ppm	0.0046 ppm	0.0026 ppm
Concentration per Run 3	0.3075 ppm	0.0089 ppm	0.0064 ppm	8.0161 ppm	0.0080 ppm	0.0050 ppm	0.0071 ppm
Concentration RSD	0.3 %	0.4 %	9.5 %	0.5 %	5.5 %	9.0 %	45.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0038 ppm	0.4717 ppm	0.0547 ppm	0.0093 ppm	0.0176 ppm	-0.0011 ppm	0.0005 ppm
Concentration per Run 1	0.0034 ppm	0.4775 ppm	0.0552 ppm	0.0094 ppm	0.0167 ppm	-0.0007 ppm	0.0006 ppm
Concentration per Run 2	0.0028 ppm	0.4805 ppm	0.0549 ppm	0.0092 ppm	0.0176 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0050 ppm	0.4570 ppm	0.0540 ppm	0.0094 ppm	0.0186 ppm	-0.0025 ppm	0.0005 ppm
Concentration RSD	29.6 %	2.7 %	1.2 %	0.9 %	5.6 %	116.5 %	35.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1377 ppm	113.1344 %	112.0900 %	109.7464 %	111.4948 %	111.0979 %	110.8129 %
Concentration per Run 1	0.1377 ppm	112.4184 %	113.1639 %	109.0715 %	110.5419 %	111.6045 %	110.2823 %
Concentration per Run 2	0.1370 ppm	113.7581 %	111.3721 %	110.3887 %	112.2805 %	110.9536 %	111.5142 %
Concentration per Run 3	0.1385 ppm	113.2268 %	111.7341 %	109.7789 %	111.6619 %	110.7356 %	110.6423 %
Concentration RSD	0.6 %	0.6 %	0.8 %	0.6 %	0.8 %	0.4 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976490-1 WG1976490
Analysis started at: 9/26/2024 10:30:17 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0048 ppm	0.0042 ppm	0.0036 ppm	0.0000 ppm	0.0001 ppm	0.0109 ppm
Concentration per Run 1	0.0002 ppm	0.0038 ppm	0.0041 ppm	0.0036 ppm	0.0002 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 2	0.0000 ppm	0.0074 ppm	0.0049 ppm	0.0037 ppm	0.0000 ppm	0.0001 ppm	0.0124 ppm
Concentration per Run 3	0.0006 ppm	0.0032 ppm	0.0037 ppm	0.0034 ppm	0.0000 ppm	0.0000 ppm	0.0111 ppm
Concentration RSD	101.2 %	47.3 %	13.9 %	4.1 %	227.9 %	89.7 %	14.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0003 ppm	0.0002 ppm	0.0014 ppm	0.0235 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0095 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0376 ppm	0.0025 ppm
Concentration per Run 3	0.0001 ppm	0.0009 ppm	0.0006 ppm	0.0004 ppm	0.0029 ppm	0.0234 ppm	-0.0018 ppm
Concentration RSD	269.8 %	18.6 %	110.0 %	117.4 %	97.5 %	59.9 %	440.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0028 ppm	0.0001 ppm	0.0005 ppm	130.5729 ppm	-0.0001 ppm	0.0006 ppm	0.0024 ppm
Concentration per Run 1	0.0021 ppm	0.0000 ppm	0.0009 ppm	130.5492 ppm	0.0004 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 2	0.0027 ppm	0.0003 ppm	0.0000 ppm	130.6480 ppm	-0.0010 ppm	0.0001 ppm	0.0020 ppm
Concentration per Run 3	0.0036 ppm	-0.0001 ppm	0.0006 ppm	130.5216 ppm	0.0003 ppm	0.0018 ppm	0.0023 ppm
Concentration RSD	26.2 %	402.1 %	93.3 %	0.1 %	1,144.1 %	157.5 %	16.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	0.0224 ppm	-0.0023 ppm	0.0001 ppm	-0.0003 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0062 ppm	0.0229 ppm	-0.0021 ppm	0.0000 ppm	-0.0006 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0031 ppm	0.0214 ppm	-0.0019 ppm	0.0002 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	0.0229 ppm	-0.0030 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0004 ppm
Concentration RSD	80.1 %	3.7 %	25.6 %	85.9 %	82.6 %	46.3 %	117.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	109.5333 %	109.8985 %	104.9034 %	107.5058 %	108.5883 %	108.4558 %
Concentration per Run 1	0.0008 ppm	108.5870 %	109.4822 %	104.0376 %	106.5146 %	108.2241 %	107.9271 %
Concentration per Run 2	0.0008 ppm	110.4033 %	110.3403 %	105.3857 %	108.3825 %	108.7711 %	108.7292 %
Concentration per Run 3	0.0006 ppm	109.6096 %	109.8729 %	105.2867 %	107.6203 %	108.7698 %	108.7112 %
Concentration RSD	21.0 %	0.8 %	0.4 %	0.7 %	0.9 %	0.3 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976490-2 WG1976490
Analysis started at: 9/26/2024 10:34:11 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0467 ppm	1.8246 ppm	0.1140 ppm	0.9256 ppm	1.8535 ppm	0.0471 ppm	9.7792 ppm
Concentration per Run 1	0.0469 ppm	1.8427 ppm	0.1138 ppm	0.9177 ppm	1.8519 ppm	0.0471 ppm	9.7740 ppm
Concentration per Run 2	0.0459 ppm	1.8215 ppm	0.1158 ppm	0.9238 ppm	1.8539 ppm	0.0471 ppm	9.7826 ppm
Concentration per Run 3	0.0471 ppm	1.8097 ppm	0.1123 ppm	0.9351 ppm	1.8547 ppm	0.0471 ppm	9.7812 ppm
Concentration RSD	1.3 %	0.9 %	1.5 %	1.0 %	0.1 %	0.0 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0489 ppm	0.4654 ppm	0.1852 ppm	0.2323 ppm	0.9568 ppm	9.9025 ppm	0.0003 ppm
Concentration per Run 1	0.0482 ppm	0.4603 ppm	0.1845 ppm	0.2316 ppm	0.9580 ppm	9.8944 ppm	0.0010 ppm
Concentration per Run 2	0.0490 ppm	0.4647 ppm	0.1838 ppm	0.2322 ppm	0.9541 ppm	9.8875 ppm	0.0003 ppm
Concentration per Run 3	0.0494 ppm	0.4712 ppm	0.1873 ppm	0.2330 ppm	0.9583 ppm	9.9256 ppm	-0.0003 ppm
Concentration RSD	1.3 %	1.2 %	1.0 %	0.3 %	0.2 %	0.2 %	201.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6502 ppm	0.4676 ppm	0.9838 ppm	9.9498 ppm	0.4666 ppm	0.5064 ppm	0.4669 ppm
Concentration per Run 1	9.6433 ppm	0.4688 ppm	0.9736 ppm	9.9542 ppm	0.4641 ppm	0.5060 ppm	0.4681 ppm
Concentration per Run 2	9.6230 ppm	0.4667 ppm	0.9840 ppm	9.9450 ppm	0.4643 ppm	0.5061 ppm	0.4617 ppm
Concentration per Run 3	9.6843 ppm	0.4674 ppm	0.9940 ppm	9.9501 ppm	0.4712 ppm	0.5070 ppm	0.4709 ppm
Concentration RSD	0.3 %	0.2 %	1.0 %	0.0 %	0.9 %	0.1 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1124 ppm	1.2965 ppm	0.9401 ppm	0.9137 ppm	0.9885 ppm	0.1141 ppm	0.4690 ppm
Concentration per Run 1	0.1121 ppm	1.2945 ppm	0.9311 ppm	0.9133 ppm	0.9869 ppm	0.1135 ppm	0.4668 ppm
Concentration per Run 2	0.1146 ppm	1.2887 ppm	0.9409 ppm	0.9122 ppm	0.9844 ppm	0.1145 ppm	0.4695 ppm
Concentration per Run 3	0.1105 ppm	1.3064 ppm	0.9482 ppm	0.9157 ppm	0.9941 ppm	0.1145 ppm	0.4707 ppm
Concentration RSD	1.9 %	0.7 %	0.9 %	0.2 %	0.5 %	0.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4630 ppm	111.5408 %	110.5830 %	108.8211 %	109.6796 %	109.3398 %	110.0504 %
Concentration per Run 1	0.4585 ppm	112.1536 %	110.9746 %	108.1190 %	110.5416 %	110.3898 %	109.5145 %
Concentration per Run 2	0.4629 ppm	111.6890 %	110.0345 %	108.9510 %	109.6867 %	109.1573 %	110.1861 %
Concentration per Run 3	0.4677 ppm	110.7798 %	110.7398 %	109.3933 %	108.8104 %	108.4723 %	110.4506 %
Concentration RSD	1.0 %	0.6 %	0.4 %	0.6 %	0.8 %	0.9 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454612-01 WG1976490
Analysis started at: 9/26/2024 10:38:05 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0003 ppm	0.0043 ppm	0.0122 ppm	0.0563 ppm	0.0001 ppm	72.7238 ppm
Concentration per Run 1	-0.0008 ppm	0.0113 ppm	0.0051 ppm	0.0102 ppm	0.0565 ppm	0.0001 ppm	72.7731 ppm
Concentration per Run 2	-0.0003 ppm	-0.0036 ppm	0.0039 ppm	0.0148 ppm	0.0562 ppm	0.0001 ppm	72.8226 ppm
Concentration per Run 3	0.0000 ppm	-0.0066 ppm	0.0039 ppm	0.0116 ppm	0.0561 ppm	0.0001 ppm	72.5756 ppm
Concentration RSD	108.2 %	2,773.9 %	15.8 %	19.5 %	0.3 %	5.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0013 ppm	0.0002 ppm	0.0007 ppm	0.0127 ppm	0.3295 ppm	0.0023 ppm
Concentration per Run 1	-0.0002 ppm	0.0018 ppm	-0.0001 ppm	0.0008 ppm	0.0107 ppm	0.3650 ppm	0.0022 ppm
Concentration per Run 2	-0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0006 ppm	0.0131 ppm	0.3022 ppm	0.0013 ppm
Concentration per Run 3	-0.0003 ppm	0.0017 ppm	0.0006 ppm	0.0006 ppm	0.0142 ppm	0.3214 ppm	0.0035 ppm
Concentration RSD	51.3 %	66.7 %	154.3 %	19.4 %	14.1 %	9.8 %	47.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5575 ppm	0.2564 ppm	0.0022 ppm	133.5432 ppm	0.0030 ppm	0.0030 ppm	0.0044 ppm
Concentration per Run 1	1.5629 ppm	0.2569 ppm	0.0025 ppm	133.2049 ppm	0.0025 ppm	0.0042 ppm	0.0052 ppm
Concentration per Run 2	1.5529 ppm	0.2554 ppm	0.0021 ppm	134.1264 ppm	0.0027 ppm	0.0026 ppm	0.0005 ppm
Concentration per Run 3	1.5568 ppm	0.2569 ppm	0.0019 ppm	133.2982 ppm	0.0037 ppm	0.0023 ppm	0.0074 ppm
Concentration RSD	0.3 %	0.3 %	14.2 %	0.4 %	21.2 %	34.4 %	80.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	2.1297 ppm	-0.0010 ppm	0.1291 ppm	0.0006 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	0.0025 ppm	2.1349 ppm	-0.0012 ppm	0.1297 ppm	0.0006 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 2	-0.0017 ppm	2.1224 ppm	-0.0006 ppm	0.1288 ppm	0.0008 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 3	0.0039 ppm	2.1319 ppm	-0.0012 ppm	0.1288 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm
Concentration RSD	185.3 %	0.3 %	38.2 %	0.4 %	41.5 %	3,091.0 %	28.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0199 ppm	107.6348 %	108.2304 %	101.2535 %	105.5293 %	107.3024 %	106.1377 %
Concentration per Run 1	0.0203 ppm	107.1390 %	107.6677 %	100.9594 %	105.0526 %	106.6528 %	105.8760 %
Concentration per Run 2	0.0194 ppm	108.4311 %	108.2833 %	101.3076 %	106.2636 %	107.7100 %	106.3249 %
Concentration per Run 3	0.0199 ppm	107.3344 %	108.7403 %	101.4936 %	105.2718 %	107.5444 %	106.2122 %
Concentration RSD	2.3 %	0.6 %	0.5 %	0.3 %	0.6 %	0.5 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976490-3 WG1976490
Analysis started at: 9/26/2024 10:41:57 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0451 ppm	1.8141 ppm	0.1162 ppm	0.9071 ppm	1.8575 ppm	0.0464 ppm	78.2442 ppm
Concentration per Run 1	0.0450 ppm	1.8147 ppm	0.1152 ppm	0.9019 ppm	1.8470 ppm	0.0463 ppm	77.7733 ppm
Concentration per Run 2	0.0446 ppm	1.8135 ppm	0.1159 ppm	0.9006 ppm	1.8651 ppm	0.0464 ppm	78.1693 ppm
Concentration per Run 3	0.0457 ppm	1.8142 ppm	0.1173 ppm	0.9187 ppm	1.8604 ppm	0.0466 ppm	78.7900 ppm
Concentration RSD	1.2 %	0.0 %	0.9 %	1.1 %	0.5 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0473 ppm	0.4491 ppm	0.1800 ppm	0.2270 ppm	0.9423 ppm	10.0156 ppm	0.0019 ppm
Concentration per Run 1	0.0479 ppm	0.4486 ppm	0.1796 ppm	0.2251 ppm	0.9351 ppm	9.9801 ppm	0.0023 ppm
Concentration per Run 2	0.0470 ppm	0.4472 ppm	0.1797 ppm	0.2260 ppm	0.9460 ppm	10.0212 ppm	0.0010 ppm
Concentration per Run 3	0.0470 ppm	0.4514 ppm	0.1806 ppm	0.2299 ppm	0.9457 ppm	10.0455 ppm	0.0024 ppm
Concentration RSD	1.1 %	0.5 %	0.3 %	1.1 %	0.7 %	0.3 %	41.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4819 ppm	0.7004 ppm	0.9649 ppm	136.3927 ppm	0.4462 ppm	0.4937 ppm	0.4565 ppm
Concentration per Run 1	10.4309 ppm	0.6982 ppm	0.9584 ppm	135.8610 ppm	0.4416 ppm	0.4932 ppm	0.4510 ppm
Concentration per Run 2	10.4756 ppm	0.6976 ppm	0.9606 ppm	136.6856 ppm	0.4460 ppm	0.4933 ppm	0.4556 ppm
Concentration per Run 3	10.5394 ppm	0.7054 ppm	0.9757 ppm	136.6314 ppm	0.4511 ppm	0.4947 ppm	0.4628 ppm
Concentration RSD	0.5 %	0.6 %	1.0 %	0.3 %	1.1 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1141 ppm	3.3783 ppm	0.9076 ppm	1.0067 ppm	0.9609 ppm	0.1076 ppm	0.4659 ppm
Concentration per Run 1	0.1127 ppm	3.3716 ppm	0.9041 ppm	1.0000 ppm	0.9530 ppm	0.1080 ppm	0.4638 ppm
Concentration per Run 2	0.1128 ppm	3.3608 ppm	0.9059 ppm	1.0106 ppm	0.9608 ppm	0.1077 ppm	0.4642 ppm
Concentration per Run 3	0.1170 ppm	3.4024 ppm	0.9128 ppm	1.0094 ppm	0.9691 ppm	0.1071 ppm	0.4696 ppm
Concentration RSD	2.2 %	0.6 %	0.5 %	0.6 %	0.8 %	0.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4769 ppm	108.1997 %	109.2986 %	101.5839 %	106.2842 %	107.7091 %	106.0857 %
Concentration per Run 1	0.4744 ppm	107.8958 %	109.2212 %	101.9260 %	106.0004 %	107.6887 %	106.6075 %
Concentration per Run 2	0.4754 ppm	108.9617 %	109.7458 %	101.1761 %	107.1457 %	108.0047 %	105.5039 %
Concentration per Run 3	0.4809 ppm	107.7417 %	108.9287 %	101.6496 %	105.7066 %	107.4340 %	106.1457 %
Concentration RSD	0.7 %	0.6 %	0.4 %	0.4 %	0.7 %	0.3 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976490-4 WG1976490
Analysis started at: 9/26/2024 10:45:49 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0057 ppm	0.0025 ppm	0.0103 ppm	0.0547 ppm	0.0001 ppm	70.9377 ppm
Concentration per Run 1	-0.0001 ppm	0.0014 ppm	0.0009 ppm	0.0122 ppm	0.0544 ppm	0.0001 ppm	70.8172 ppm
Concentration per Run 2	0.0002 ppm	0.0065 ppm	0.0050 ppm	0.0088 ppm	0.0546 ppm	0.0001 ppm	70.9094 ppm
Concentration per Run 3	-0.0006 ppm	0.0091 ppm	0.0016 ppm	0.0100 ppm	0.0550 ppm	0.0001 ppm	71.0865 ppm
Concentration RSD	217.7 %	69.2 %	88.1 %	16.6 %	0.6 %	13.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0019 ppm	0.0004 ppm	0.0005 ppm	0.0122 ppm	0.3153 ppm	0.0025 ppm
Concentration per Run 1	-0.0005 ppm	0.0018 ppm	-0.0002 ppm	0.0009 ppm	0.0123 ppm	0.3034 ppm	0.0028 ppm
Concentration per Run 2	-0.0003 ppm	0.0024 ppm	0.0007 ppm	0.0004 ppm	0.0116 ppm	0.3055 ppm	0.0035 ppm
Concentration per Run 3	-0.0002 ppm	0.0015 ppm	0.0008 ppm	0.0004 ppm	0.0126 ppm	0.3371 ppm	0.0012 ppm
Concentration RSD	49.3 %	22.7 %	121.1 %	58.4 %	4.1 %	6.0 %	46.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5128 ppm	0.2502 ppm	0.0023 ppm	130.5304 ppm	0.0030 ppm	0.0030 ppm	-0.0006 ppm
Concentration per Run 1	1.5081 ppm	0.2503 ppm	0.0031 ppm	129.9701 ppm	0.0032 ppm	0.0036 ppm	0.0009 ppm
Concentration per Run 2	1.5163 ppm	0.2500 ppm	0.0017 ppm	130.4457 ppm	0.0036 ppm	0.0015 ppm	0.0021 ppm
Concentration per Run 3	1.5139 ppm	0.2504 ppm	0.0021 ppm	131.1753 ppm	0.0022 ppm	0.0039 ppm	-0.0049 ppm
Concentration RSD	0.3 %	0.1 %	31.0 %	0.5 %	25.0 %	42.7 %	598.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	2.0617 ppm	-0.0005 ppm	0.1256 ppm	0.0005 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0046 ppm	2.0478 ppm	0.0003 ppm	0.1250 ppm	0.0004 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 2	0.0074 ppm	2.0744 ppm	-0.0016 ppm	0.1257 ppm	0.0007 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0035 ppm	2.0629 ppm	-0.0001 ppm	0.1261 ppm	0.0006 ppm	-0.0004 ppm	0.0004 ppm
Concentration RSD	39.1 %	0.6 %	198.0 %	0.5 %	30.0 %	303.1 %	16.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0196 ppm	107.8424 %	108.6974 %	102.5384 %	106.0147 %	107.5552 %	107.1773 %
Concentration per Run 1	0.0199 ppm	107.1024 %	109.3645 %	103.5602 %	105.3302 %	108.2852 %	108.1801 %
Concentration per Run 2	0.0196 ppm	108.1486 %	108.1302 %	102.3374 %	106.1300 %	107.0084 %	106.9775 %
Concentration per Run 3	0.0192 ppm	108.2762 %	108.5976 %	101.7176 %	106.5838 %	107.3720 %	106.3742 %
Concentration RSD	2.0 %	0.6 %	0.6 %	0.9 %	0.6 %	0.6 %	0.9 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 10:49:40 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5075 ppm	0.4825 ppm	0.4813 ppm	0.4981 ppm	0.4961 ppm	0.5083 ppm	0.4916 ppm
Concentration per Run 1	0.5071 ppm	0.4876 ppm	0.4809 ppm	0.4960 ppm	0.4967 ppm	0.5103 ppm	0.4917 ppm
Concentration per Run 2	0.5081 ppm	0.4722 ppm	0.4785 ppm	0.4995 ppm	0.4947 ppm	0.5072 ppm	0.4923 ppm
Concentration per Run 3	0.5074 ppm	0.4876 ppm	0.4843 ppm	0.4988 ppm	0.4969 ppm	0.5073 ppm	0.4909 ppm
Recovery Percentage 1	101.510 %	96.500 %	96.255 %	99.613 %	99.227 %	101.652 %	98.323 %
Concentration RSD	0.1 %	1.8 %	0.6 %	0.4 %	0.2 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5006 ppm	0.5091 ppm	0.4918 ppm	0.4902 ppm	0.5001 ppm	5.1846 ppm	0.4885 ppm
Concentration per Run 1	0.5051 ppm	0.5092 ppm	0.4935 ppm	0.4902 ppm	0.5030 ppm	5.2439 ppm	0.4867 ppm
Concentration per Run 2	0.4927 ppm	0.5067 ppm	0.4897 ppm	0.4906 ppm	0.4958 ppm	5.1675 ppm	0.4885 ppm
Concentration per Run 3	0.5041 ppm	0.5114 ppm	0.4921 ppm	0.4899 ppm	0.5013 ppm	5.1425 ppm	0.4904 ppm
Recovery Percentage 1	100.129 %	101.823 %	98.353 %	98.044 %	100.016 %	103.692 %	97.708 %
Concentration RSD	1.4 %	0.5 %	0.4 %	0.1 %	0.8 %	1.0 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4894 ppm	0.4909 ppm	0.4865 ppm	9.9801 ppm	0.5090 ppm	0.4951 ppm	0.5052 ppm
Concentration per Run 1	0.4875 ppm	0.4914 ppm	0.4833 ppm	9.9401 ppm	0.5075 ppm	0.4921 ppm	0.5109 ppm
Concentration per Run 2	0.4872 ppm	0.4917 ppm	0.4873 ppm	10.0402 ppm	0.5103 ppm	0.4960 ppm	0.5009 ppm
Concentration per Run 3	0.4933 ppm	0.4894 ppm	0.4889 ppm	9.9599 ppm	0.5090 ppm	0.4973 ppm	0.5037 ppm
Recovery Percentage 1	97.871 %	98.170 %	97.299 %	99.801 %	101.791 %	99.021 %	101.035 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.5 %	0.3 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4995 ppm	5.3433 ppm	0.4766 ppm	0.4709 ppm	0.4996 ppm	0.4968 ppm	0.4881 ppm
Concentration per Run 1	0.4972 ppm	5.3810 ppm	0.4749 ppm	0.4721 ppm	0.4985 ppm	0.4941 ppm	0.4877 ppm
Concentration per Run 2	0.4965 ppm	5.3170 ppm	0.4757 ppm	0.4697 ppm	0.4995 ppm	0.4949 ppm	0.4875 ppm
Concentration per Run 3	0.5047 ppm	5.3319 ppm	0.4791 ppm	0.4711 ppm	0.5008 ppm	0.5014 ppm	0.4890 ppm
Recovery Percentage 1	99.897 %	101.777 %	95.316 %	94.189 %	99.923 %	99.357 %	97.610 %
Concentration RSD	0.9 %	0.6 %	0.5 %	0.3 %	0.2 %	0.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5096 ppm	108.3377 %	104.8809 %	107.3710 %	106.8841 %	103.5566 %	107.0428 %
Concentration per Run 1	0.5100 ppm	108.3917 %	105.9221 %	106.6510 %	107.0062 %	104.8056 %	106.0343 %
Concentration per Run 2	0.5100 ppm	109.0245 %	104.1407 %	108.4869 %	107.7834 %	103.1315 %	108.1211 %
Concentration per Run 3	0.5088 ppm	107.5970 %	104.5801 %	106.9750 %	105.8627 %	102.7328 %	106.9730 %
Recovery Percentage 1	101.922 %						
Concentration RSD	0.1 %	0.7 %	0.9 %	0.9 %	0.9 %	1.1 %	1.0 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 10:53:34 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0015 ppm	0.0013 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 1	-0.0001 ppm	-0.0034 ppm	0.0013 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 2	0.0001 ppm	-0.0019 ppm	0.0012 ppm	0.0028 ppm	0.0002 ppm	0.0001 ppm	-0.0042 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0015 ppm	0.0045 ppm	0.0000 ppm	0.0001 ppm	-0.0038 ppm
Recovery Percentage 1	-0.619 %	-1.475 %	25.976 %	9.963 %	1.070 %	1.155 %	-3.109 %
Concentration RSD	226.0 %	144.7 %	10.5 %	46.5 %	90.0 %	52.2 %	50.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0005 ppm	-0.0014 ppm	0.0196 ppm	0.0006 ppm
Concentration per Run 1	-0.0003 ppm	0.0004 ppm	-0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0499 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0003 ppm	-0.0004 ppm	-0.0043 ppm	0.0089 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0006 ppm	-0.0005 ppm	0.0001 ppm	0.0009 ppm
Recovery Percentage 1	-2.537 %	1.975 %	3.139 %	-4.554 %	-2.854 %	0.784 %	11.724 %
Concentration RSD	104.5 %	120.4 %	116.4 %	33.7 %	178.9 %	135.7 %	107.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0028 ppm	0.0000 ppm	0.0011 ppm	-0.0013 ppm	0.0007 ppm	0.0012 ppm	0.0017 ppm
Concentration per Run 1	0.0025 ppm	0.0002 ppm	0.0015 ppm	0.0012 ppm	0.0003 ppm	0.0022 ppm	-0.0016 ppm
Concentration per Run 2	0.0031 ppm	-0.0001 ppm	0.0007 ppm	-0.0059 ppm	0.0008 ppm	0.0003 ppm	0.0029 ppm
Concentration per Run 3	0.0028 ppm	-0.0001 ppm	0.0011 ppm	0.0006 ppm	0.0011 ppm	0.0011 ppm	0.0039 ppm
Recovery Percentage 1	2.782 %	-0.213 %	2.182 %	-0.067 %	2.934 %	12.046 %	3.483 %
Concentration RSD	10.7 %	718.5 %	36.8 %	292.3 %	50.5 %	79.6 %	169.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	-0.0021 ppm	-0.0008 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.0014 ppm	-0.0045 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0028 ppm	-0.0045 ppm	-0.0018 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0025 ppm	0.0027 ppm	-0.0008 ppm	0.0000 ppm	-0.0004 ppm	0.0013 ppm	0.0005 ppm
Recovery Percentage 1	22.408 %	-0.416 %	-1.697 %	-0.112 %	-2.038 %	3.110 %	5.269 %
Concentration RSD	32.6 %	199.8 %	106.6 %	516.3 %	95.1 %	111.6 %	16.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	106.9048 %	102.1873 %	107.5908 %	107.5247 %	101.9915 %	108.3499 %
Concentration per Run 1	0.0002 ppm	106.6388 %	102.4329 %	106.8227 %	107.3363 %	102.3807 %	107.7951 %
Concentration per Run 2	-0.0001 ppm	107.5497 %	102.6651 %	107.7123 %	108.2961 %	102.4637 %	108.4301 %
Concentration per Run 3	0.0004 ppm	106.5258 %	101.4640 %	108.2373 %	106.9417 %	101.1301 %	108.8245 %
Recovery Percentage 1	3.324 %						
Concentration RSD	154.3 %	0.5 %	0.6 %	0.7 %	0.6 %	0.7 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976309-2d2 WG1976309
Analysis started at: 9/26/2024 11:10:31 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.2762 ppm	20.6957 ppm	1.2437 ppm	0.9210 ppm	1.2145 ppm	0.6937 ppm	20.1733 ppm
Concentration per Run 1	0.2741 ppm	20.6474 ppm	1.2301 ppm	0.9166 ppm	1.2098 ppm	0.6906 ppm	20.0732 ppm
Concentration per Run 2	0.2717 ppm	20.7132 ppm	1.2512 ppm	0.9196 ppm	1.2106 ppm	0.6936 ppm	20.2134 ppm
Concentration per Run 3	0.2827 ppm	20.7265 ppm	1.2497 ppm	0.9269 ppm	1.2229 ppm	0.6968 ppm	20.2333 ppm
Concentration RSD	2.1 %	0.2 %	0.9 %	0.6 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8594 ppm	0.3268 ppm	0.7092 ppm	0.8413 ppm	24.6455 ppm	4.8135 ppm	0.5187 ppm
Concentration per Run 1	0.8511 ppm	0.3240 ppm	0.7017 ppm	0.8389 ppm	24.5547 ppm	4.8258 ppm	0.5181 ppm
Concentration per Run 2	0.8613 ppm	0.3270 ppm	0.7085 ppm	0.8357 ppm	24.6562 ppm	4.8119 ppm	0.5171 ppm
Concentration per Run 3	0.8657 ppm	0.3294 ppm	0.7173 ppm	0.8494 ppm	24.7255 ppm	4.8027 ppm	0.5210 ppm
Concentration RSD	0.9 %	0.8 %	1.1 %	0.8 %	0.3 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0071 ppm	2.1442 ppm	0.5099 ppm	7.0992 ppm	1.2604 ppm	0.3703 ppm	0.6633 ppm
Concentration per Run 1	5.9485 ppm	2.1374 ppm	0.5025 ppm	7.0697 ppm	1.2485 ppm	0.3658 ppm	0.6626 ppm
Concentration per Run 2	6.0031 ppm	2.1443 ppm	0.5089 ppm	7.1081 ppm	1.2596 ppm	0.3711 ppm	0.6589 ppm
Concentration per Run 3	6.0697 ppm	2.1509 ppm	0.5182 ppm	7.1197 ppm	1.2729 ppm	0.3740 ppm	0.6685 ppm
Concentration RSD	1.0 %	0.3 %	1.5 %	0.4 %	1.0 %	1.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6907 ppm	9.9042 ppm	0.2679 ppm	0.5274 ppm	1.1271 ppm	0.8682 ppm	0.4032 ppm
Concentration per Run 1	0.6887 ppm	9.7656 ppm	0.2664 ppm	0.5245 ppm	1.1038 ppm	0.8622 ppm	0.3993 ppm
Concentration per Run 2	0.6895 ppm	10.0145 ppm	0.2671 ppm	0.5264 ppm	1.1439 ppm	0.8668 ppm	0.4034 ppm
Concentration per Run 3	0.6940 ppm	9.9326 ppm	0.2701 ppm	0.5312 ppm	1.1337 ppm	0.8757 ppm	0.4070 ppm
Concentration RSD	0.4 %	1.3 %	0.7 %	0.7 %	1.8 %	0.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6660 ppm	106.5598 %	105.1691 %	104.4605 %	107.7958 %	109.3198 %	109.1780 %
Concentration per Run 1	0.6610 ppm	107.0894 %	106.5488 %	104.7476 %	107.7029 %	110.7417 %	109.1462 %
Concentration per Run 2	0.6661 ppm	107.0873 %	104.6333 %	104.1037 %	108.5068 %	108.9020 %	109.2138 %
Concentration per Run 3	0.6709 ppm	105.5026 %	104.3251 %	104.5302 %	107.1777 %	108.3157 %	109.1740 %
Concentration RSD	0.7 %	0.9 %	1.1 %	0.3 %	0.6 %	1.2 %	0.0 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976309-3d2 WG1976309
Analysis started at: 9/26/2024 11:15:38 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.2604 ppm	19.7657 ppm	1.2305 ppm	0.9222 ppm	1.2787 ppm	0.6744 ppm	19.8379 ppm
Concentration per Run 1	0.2562 ppm	19.7496 ppm	1.2267 ppm	0.9244 ppm	1.2681 ppm	0.6699 ppm	19.7597 ppm
Concentration per Run 2	0.2583 ppm	19.7714 ppm	1.2266 ppm	0.9154 ppm	1.2809 ppm	0.6770 ppm	19.9058 ppm
Concentration per Run 3	0.2667 ppm	19.7762 ppm	1.2381 ppm	0.9269 ppm	1.2870 ppm	0.6762 ppm	19.8482 ppm
Concentration RSD	2.1 %	0.1 %	0.5 %	0.7 %	0.8 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8321 ppm	0.3246 ppm	0.7068 ppm	0.8193 ppm	23.5748 ppm	4.5903 ppm	0.5096 ppm
Concentration per Run 1	0.8291 ppm	0.3244 ppm	0.7047 ppm	0.8186 ppm	23.4230 ppm	4.5738 ppm	0.5048 ppm
Concentration per Run 2	0.8274 ppm	0.3227 ppm	0.7080 ppm	0.8185 ppm	23.6485 ppm	4.6120 ppm	0.5076 ppm
Concentration per Run 3	0.8398 ppm	0.3268 ppm	0.7078 ppm	0.8209 ppm	23.6528 ppm	4.5850 ppm	0.5162 ppm
Concentration RSD	0.8 %	0.6 %	0.3 %	0.2 %	0.6 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9016 ppm	2.1838 ppm	0.5113 ppm	7.0758 ppm	1.2499 ppm	0.3712 ppm	0.6704 ppm
Concentration per Run 1	5.8778 ppm	2.1791 ppm	0.5058 ppm	7.0490 ppm	1.2493 ppm	0.3682 ppm	0.6665 ppm
Concentration per Run 2	5.8993 ppm	2.1845 ppm	0.5113 ppm	7.0807 ppm	1.2483 ppm	0.3696 ppm	0.6794 ppm
Concentration per Run 3	5.9278 ppm	2.1878 ppm	0.5169 ppm	7.0976 ppm	1.2522 ppm	0.3759 ppm	0.6651 ppm
Concentration RSD	0.4 %	0.2 %	1.1 %	0.3 %	0.2 %	1.1 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6822 ppm	9.4501 ppm	0.2740 ppm	0.5282 ppm	1.1140 ppm	0.8187 ppm	0.3983 ppm
Concentration per Run 1	0.6817 ppm	9.4627 ppm	0.2739 ppm	0.5248 ppm	1.1109 ppm	0.8153 ppm	0.3983 ppm
Concentration per Run 2	0.6831 ppm	9.3354 ppm	0.2734 ppm	0.5292 ppm	1.1064 ppm	0.8184 ppm	0.3964 ppm
Concentration per Run 3	0.6819 ppm	9.5521 ppm	0.2747 ppm	0.5306 ppm	1.1248 ppm	0.8225 ppm	0.4003 ppm
Concentration RSD	0.1 %	1.2 %	0.2 %	0.6 %	0.9 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6611 ppm	106.5335 %	105.5618 %	104.7012 %	108.3434 %	109.5218 %	110.0571 %
Concentration per Run 1	0.6620 ppm	106.1508 %	106.4553 %	104.8040 %	107.4151 %	110.5147 %	109.7623 %
Concentration per Run 2	0.6595 ppm	106.7465 %	105.0296 %	104.3152 %	108.6754 %	109.2186 %	109.7576 %
Concentration per Run 3	0.6618 ppm	106.7033 %	105.2007 %	104.9842 %	108.9397 %	108.8321 %	110.6513 %
Concentration RSD	0.2 %	0.3 %	0.7 %	0.3 %	0.8 %	0.8 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 11:20:13 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5073 ppm	0.4794 ppm	0.4842 ppm	0.4993 ppm	0.4994 ppm	0.5104 ppm	0.4961 ppm
Concentration per Run 1	0.5080 ppm	0.4742 ppm	0.4861 ppm	0.4984 ppm	0.5004 ppm	0.5110 ppm	0.4986 ppm
Concentration per Run 2	0.5063 ppm	0.4786 ppm	0.4825 ppm	0.5023 ppm	0.5010 ppm	0.5107 ppm	0.5016 ppm
Concentration per Run 3	0.5075 ppm	0.4855 ppm	0.4838 ppm	0.4973 ppm	0.4967 ppm	0.5097 ppm	0.4882 ppm
Recovery Percentage 1	101.455 %	95.882 %	96.833 %	99.867 %	99.873 %	102.088 %	99.220 %
Concentration RSD	0.2 %	1.2 %	0.4 %	0.5 %	0.5 %	0.1 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4947 ppm	0.5071 ppm	0.4914 ppm	0.4899 ppm	0.5051 ppm	5.2065 ppm	0.4882 ppm
Concentration per Run 1	0.4980 ppm	0.5094 ppm	0.4909 ppm	0.4885 ppm	0.5017 ppm	5.2070 ppm	0.4862 ppm
Concentration per Run 2	0.4968 ppm	0.5099 ppm	0.4908 ppm	0.4930 ppm	0.5077 ppm	5.2055 ppm	0.4890 ppm
Concentration per Run 3	0.4892 ppm	0.5020 ppm	0.4925 ppm	0.4883 ppm	0.5058 ppm	5.2071 ppm	0.4894 ppm
Recovery Percentage 1	98.931 %	101.419 %	98.282 %	97.987 %	101.018 %	104.131 %	97.633 %
Concentration RSD	1.0 %	0.9 %	0.2 %	0.5 %	0.6 %	0.0 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4886 ppm	0.4926 ppm	0.4874 ppm	10.0763 ppm	0.5104 ppm	0.4990 ppm	0.5055 ppm
Concentration per Run 1	0.4881 ppm	0.4929 ppm	0.4866 ppm	10.0910 ppm	0.5110 ppm	0.4994 ppm	0.5068 ppm
Concentration per Run 2	0.4894 ppm	0.4935 ppm	0.4928 ppm	10.1072 ppm	0.5119 ppm	0.4970 ppm	0.5055 ppm
Concentration per Run 3	0.4884 ppm	0.4913 ppm	0.4827 ppm	10.0308 ppm	0.5081 ppm	0.5005 ppm	0.5043 ppm
Recovery Percentage 1	97.725 %	98.513 %	97.473 %	100.763 %	102.074 %	99.795 %	101.109 %
Concentration RSD	0.1 %	0.2 %	1.0 %	0.4 %	0.4 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4995 ppm	5.3431 ppm	0.4776 ppm	0.4760 ppm	0.5001 ppm	0.4986 ppm	0.4891 ppm
Concentration per Run 1	0.4997 ppm	5.3390 ppm	0.4759 ppm	0.4781 ppm	0.5008 ppm	0.5001 ppm	0.4890 ppm
Concentration per Run 2	0.4991 ppm	5.3661 ppm	0.4817 ppm	0.4769 ppm	0.4975 ppm	0.4941 ppm	0.4900 ppm
Concentration per Run 3	0.4998 ppm	5.3241 ppm	0.4753 ppm	0.4729 ppm	0.5019 ppm	0.5015 ppm	0.4884 ppm
Recovery Percentage 1	99.907 %	101.773 %	95.529 %	95.199 %	100.014 %	99.714 %	97.822 %
Concentration RSD	0.1 %	0.4 %	0.7 %	0.6 %	0.5 %	0.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5112 ppm	108.3208 %	104.3760 %	107.3066 %	106.6536 %	103.0890 %	107.0819 %
Concentration per Run 1	0.5118 ppm	109.5388 %	103.9303 %	106.8373 %	107.6050 %	102.6600 %	107.0134 %
Concentration per Run 2	0.5141 ppm	108.6425 %	104.1174 %	108.2001 %	107.3750 %	103.0438 %	107.7903 %
Concentration per Run 3	0.5077 ppm	106.7811 %	105.0802 %	106.8823 %	104.9807 %	103.5631 %	106.4422 %
Recovery Percentage 1	102.238 %						
Concentration RSD	0.6 %	1.3 %	0.6 %	0.7 %	1.4 %	0.4 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 11:24:07 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0007 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	-0.0006 ppm	-0.0026 ppm	-0.0007 ppm	0.0029 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 2	-0.0002 ppm	-0.0024 ppm	0.0000 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	0.0004 ppm	0.0045 ppm	-0.0013 ppm	0.0021 ppm	0.0002 ppm	0.0000 ppm	-0.0032 ppm
Recovery Percentage 1	-1.625 %	-0.170 %	-13.351 %	7.703 %	1.776 %	0.320 %	-1.064 %
Concentration RSD	429.7 %	2,373.0 %	93.2 %	24.0 %	14.5 %	276.2 %	200.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0220 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0012 ppm	0.0506 ppm	0.0021 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0002 ppm	-0.0006 ppm	-0.0008 ppm	0.0165 ppm	-0.0018 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	-0.0002 ppm	-0.0003 ppm	0.0020 ppm	-0.0011 ppm	0.0012 ppm
Recovery Percentage 1	0.039 %	2.321 %	-0.787 %	-3.214 %	-0.049 %	0.880 %	9.843 %
Concentration RSD	9,227.6 %	90.3 %	170.2 %	79.9 %	7,149.0 %	119.4 %	415.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0024 ppm	-0.0001 ppm	0.0010 ppm	-0.0124 ppm	0.0010 ppm	0.0019 ppm	0.0016 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0009 ppm	-0.0127 ppm	0.0011 ppm	0.0030 ppm	0.0005 ppm
Concentration per Run 2	0.0038 ppm	-0.0003 ppm	0.0010 ppm	-0.0134 ppm	0.0008 ppm	0.0016 ppm	-0.0007 ppm
Concentration per Run 3	0.0030 ppm	-0.0001 ppm	0.0011 ppm	-0.0112 ppm	0.0011 ppm	0.0010 ppm	0.0050 ppm
Recovery Percentage 1	2.441 %	-1.316 %	1.991 %	-0.622 %	3.940 %	18.608 %	3.108 %
Concentration RSD	72.7 %	86.0 %	9.7 %	8.7 %	18.7 %	53.3 %	193.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	-0.0033 ppm	-0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 1	0.0030 ppm	-0.0026 ppm	-0.0004 ppm	0.0001 ppm	0.0003 ppm	0.0025 ppm	0.0002 ppm
Concentration per Run 2	0.0025 ppm	-0.0020 ppm	-0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0061 ppm	-0.0052 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0015 ppm	0.0003 ppm
Recovery Percentage 1	38.851 %	-0.651 %	-1.842 %	0.548 %	1.599 %	7.554 %	2.369 %
Concentration RSD	50.5 %	51.3 %	129.2 %	42.0 %	62.5 %	62.6 %	19.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	107.4472 %	102.0490 %	107.0198 %	107.7528 %	101.7382 %	107.5881 %
Concentration per Run 1	0.0000 ppm	108.0401 %	101.9870 %	107.9410 %	108.4360 %	102.0271 %	108.4437 %
Concentration per Run 2	0.0003 ppm	107.3890 %	102.4643 %	106.3351 %	107.9150 %	102.2468 %	106.8408 %
Concentration per Run 3	0.0001 ppm	106.9125 %	101.6956 %	106.7834 %	106.9075 %	100.9407 %	107.4798 %
Recovery Percentage 1	3.044 %						
Concentration RSD	100.2 %	0.5 %	0.4 %	0.8 %	0.7 %	0.7 %	0.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-01d2 WG1975362
Analysis started at: 9/26/2024 11:31:13 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	233.4467 ppm	0.0609 ppm	0.0039 ppm	2.0980 ppm	0.0173 ppm	31.2572 ppm
Concentration per Run 1	0.0010 ppm	233.8524 ppm	0.0552 ppm	0.0045 ppm	2.0983 ppm	0.0173 ppm	31.2220 ppm
Concentration per Run 2	0.0011 ppm	231.9846 ppm	0.0641 ppm	0.0028 ppm	2.0908 ppm	0.0174 ppm	31.2030 ppm
Concentration per Run 3	0.0008 ppm	234.5030 ppm	0.0632 ppm	0.0043 ppm	2.1049 ppm	0.0174 ppm	31.3466 ppm
Concentration RSD	15.6 %	0.6 %	8.0 %	24.3 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0028 ppm	0.0485 ppm	0.1592 ppm	0.0648 ppm	92.0016 ppm	4.1859 ppm	0.1455 ppm
Concentration per Run 1	0.0028 ppm	0.0486 ppm	0.1596 ppm	0.0641 ppm	91.8518 ppm	4.1990 ppm	0.1445 ppm
Concentration per Run 2	0.0030 ppm	0.0481 ppm	0.1589 ppm	0.0659 ppm	91.8471 ppm	4.1542 ppm	0.1457 ppm
Concentration per Run 3	0.0026 ppm	0.0487 ppm	0.1591 ppm	0.0645 ppm	92.3060 ppm	4.2046 ppm	0.1464 ppm
Concentration RSD	5.7 %	0.7 %	0.2 %	1.4 %	0.3 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.4353 ppm	2.5481 ppm	0.0019 ppm	0.5355 ppm	0.1425 ppm	0.0967 ppm	-0.0053 ppm
Concentration per Run 1	23.3958 ppm	2.5423 ppm	0.0020 ppm	0.5441 ppm	0.1430 ppm	0.0938 ppm	-0.0049 ppm
Concentration per Run 2	23.3826 ppm	2.5441 ppm	0.0019 ppm	0.5301 ppm	0.1429 ppm	0.0970 ppm	-0.0029 ppm
Concentration per Run 3	23.5274 ppm	2.5580 ppm	0.0019 ppm	0.5324 ppm	0.1416 ppm	0.0993 ppm	-0.0081 ppm
Concentration RSD	0.3 %	0.3 %	4.3 %	1.4 %	0.5 %	2.9 %	49.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	7.9643 ppm	0.0111 ppm	0.2536 ppm	2.0245 ppm	0.0085 ppm	0.1271 ppm
Concentration per Run 1	0.0051 ppm	7.9170 ppm	0.0101 ppm	0.2535 ppm	2.0357 ppm	0.0085 ppm	0.1269 ppm
Concentration per Run 2	0.0029 ppm	7.9715 ppm	0.0121 ppm	0.2532 ppm	2.0150 ppm	0.0087 ppm	0.1271 ppm
Concentration per Run 3	0.0045 ppm	8.0044 ppm	0.0112 ppm	0.2542 ppm	2.0229 ppm	0.0084 ppm	0.1273 ppm
Concentration RSD	27.5 %	0.6 %	9.3 %	0.2 %	0.5 %	1.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5156 ppm	109.3665 %	110.6069 %	102.9376 %	**336.8954 %**	**357.6033 %**	**344.0192 %**
Concentration per Run 1	0.5151 ppm	109.2776 %	110.8040 %	103.0410 %	**334.9061 %**	**358.7743 %**	**345.0187 %**
Concentration per Run 2	0.5151 ppm	109.4911 %	110.2309 %	102.5558 %	**338.5222 %**	**354.7945 %**	**342.2421 %**
Concentration per Run 3	0.5166 ppm	109.3308 %	110.7856 %	103.2159 %	**337.2580 %**	**359.2410 %**	**344.7968 %**
Concentration RSD	0.2 %	0.1 %	0.3 %	0.3 %	**0.5 %**	**0.7 %**	**0.4 %**

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-02d2 WG1975362
Analysis started at: 9/26/2024 11:35:18 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	47.2018 ppm	0.0128 ppm	0.0058 ppm	0.2845 ppm	0.0029 ppm	11.5923 ppm
Concentration per Run 1	0.0010 ppm	47.3258 ppm	0.0144 ppm	0.0047 ppm	0.2839 ppm	0.0029 ppm	11.5960 ppm
Concentration per Run 2	0.0005 ppm	47.0992 ppm	0.0130 ppm	0.0067 ppm	0.2847 ppm	0.0030 ppm	11.5644 ppm
Concentration per Run 3	0.0004 ppm	47.1803 ppm	0.0109 ppm	0.0059 ppm	0.2849 ppm	0.0029 ppm	11.6165 ppm
Concentration RSD	53.4 %	0.2 %	13.9 %	17.1 %	0.2 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0172 ppm	0.0578 ppm	0.0260 ppm	55.5485 ppm	1.3074 ppm	0.0527 ppm
Concentration per Run 1	0.0008 ppm	0.0174 ppm	0.0574 ppm	0.0258 ppm	55.4068 ppm	1.3009 ppm	0.0538 ppm
Concentration per Run 2	0.0006 ppm	0.0170 ppm	0.0578 ppm	0.0259 ppm	55.6635 ppm	1.3101 ppm	0.0512 ppm
Concentration per Run 3	0.0005 ppm	0.0171 ppm	0.0580 ppm	0.0263 ppm	55.5750 ppm	1.3111 ppm	0.0530 ppm
Concentration RSD	20.3 %	1.3 %	0.5 %	1.2 %	0.2 %	0.4 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.2170 ppm	0.4390 ppm	0.0010 ppm	0.3222 ppm	0.0316 ppm	0.0830 ppm	-0.0015 ppm
Concentration per Run 1	11.2116 ppm	0.4389 ppm	0.0002 ppm	0.3288 ppm	0.0313 ppm	0.0824 ppm	-0.0012 ppm
Concentration per Run 2	11.2030 ppm	0.4371 ppm	0.0016 ppm	0.3208 ppm	0.0322 ppm	0.0834 ppm	-0.0034 ppm
Concentration per Run 3	11.2364 ppm	0.4409 ppm	0.0012 ppm	0.3170 ppm	0.0313 ppm	0.0830 ppm	0.0002 ppm
Concentration RSD	0.2 %	0.4 %	69.5 %	1.9 %	1.6 %	0.6 %	126.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	5.8311 ppm	0.0073 ppm	0.0386 ppm	2.6912 ppm	0.0022 ppm	0.0915 ppm
Concentration per Run 1	-0.0012 ppm	5.8334 ppm	0.0072 ppm	0.0386 ppm	2.6884 ppm	0.0027 ppm	0.0921 ppm
Concentration per Run 2	0.0052 ppm	5.8362 ppm	0.0078 ppm	0.0385 ppm	2.6936 ppm	0.0031 ppm	0.0915 ppm
Concentration per Run 3	0.0059 ppm	5.8236 ppm	0.0070 ppm	0.0385 ppm	2.6917 ppm	0.0009 ppm	0.0910 ppm
Concentration RSD	117.6 %	0.1 %	5.3 %	0.1 %	0.1 %	52.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2052 ppm	110.7216 %	108.1413 %	107.9281 %	144.2808 %	142.0772 %	143.7676 %
Concentration per Run 1	0.2057 ppm	110.5059 %	108.2223 %	107.0866 %	143.3594 %	142.5473 %	142.6130 %
Concentration per Run 2	0.2055 ppm	110.5429 %	108.5420 %	108.3467 %	144.7607 %	142.1329 %	144.6377 %
Concentration per Run 3	0.2043 ppm	111.1161 %	107.6595 %	108.3511 %	144.7224 %	141.5514 %	144.0522 %
Concentration RSD	0.4 %	0.3 %	0.4 %	0.7 %	0.6 %	0.4 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-03d2 WG1975362
Analysis started at: 9/26/2024 11:39:11 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	127.3278 ppm	0.0234 ppm	0.0024 ppm	0.7301 ppm	0.0080 ppm	18.0267 ppm
Concentration per Run 1	0.0014 ppm	126.9152 ppm	0.0235 ppm	0.0034 ppm	0.7261 ppm	0.0080 ppm	17.9888 ppm
Concentration per Run 2	0.0012 ppm	127.4214 ppm	0.0253 ppm	0.0013 ppm	0.7310 ppm	0.0080 ppm	18.0576 ppm
Concentration per Run 3	0.0014 ppm	127.6469 ppm	0.0215 ppm	0.0026 ppm	0.7333 ppm	0.0080 ppm	18.0338 ppm
Concentration RSD	8.4 %	0.3 %	8.2 %	44.1 %	0.5 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0193 ppm	0.0881 ppm	0.0340 ppm	54.9106 ppm	2.6150 ppm	0.0780 ppm
Concentration per Run 1	0.0021 ppm	0.0195 ppm	0.0879 ppm	0.0335 ppm	54.8469 ppm	2.6135 ppm	0.0778 ppm
Concentration per Run 2	0.0023 ppm	0.0193 ppm	0.0883 ppm	0.0338 ppm	55.0092 ppm	2.6151 ppm	0.0786 ppm
Concentration per Run 3	0.0023 ppm	0.0193 ppm	0.0882 ppm	0.0348 ppm	54.8758 ppm	2.6164 ppm	0.0777 ppm
Concentration RSD	4.5 %	0.5 %	0.3 %	2.0 %	0.2 %	0.1 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.4291 ppm	0.6135 ppm	0.0014 ppm	0.3626 ppm	0.0458 ppm	0.1098 ppm	0.0017 ppm
Concentration per Run 1	11.3938 ppm	0.6144 ppm	0.0007 ppm	0.3624 ppm	0.0469 ppm	0.1089 ppm	0.0026 ppm
Concentration per Run 2	11.4804 ppm	0.6134 ppm	0.0021 ppm	0.3635 ppm	0.0451 ppm	0.1115 ppm	0.0015 ppm
Concentration per Run 3	11.4131 ppm	0.6126 ppm	0.0016 ppm	0.3621 ppm	0.0454 ppm	0.1090 ppm	0.0011 ppm
Concentration RSD	0.4 %	0.1 %	48.4 %	0.2 %	2.2 %	1.4 %	43.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0080 ppm	7.3809 ppm	0.0089 ppm	0.0949 ppm	0.5851 ppm	0.0050 ppm	0.0733 ppm
Concentration per Run 1	0.0051 ppm	7.3662 ppm	0.0086 ppm	0.0946 ppm	0.5826 ppm	0.0051 ppm	0.0731 ppm
Concentration per Run 2	0.0106 ppm	7.4069 ppm	0.0087 ppm	0.0949 ppm	0.5862 ppm	0.0039 ppm	0.0731 ppm
Concentration per Run 3	0.0082 ppm	7.3695 ppm	0.0096 ppm	0.0951 ppm	0.5865 ppm	0.0059 ppm	0.0737 ppm
Concentration RSD	34.7 %	0.3 %	6.1 %	0.3 %	0.4 %	20.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4324 ppm	109.9341 %	107.1190 %	104.4590 %	171.6659 %	169.4976 %	172.5130 %
Concentration per Run 1	0.4321 ppm	111.0687 %	108.8706 %	104.0570 %	173.8987 %	172.5801 %	171.8981 %
Concentration per Run 2	0.4331 ppm	109.5780 %	105.7720 %	104.5529 %	170.3001 %	166.8111 %	172.6162 %
Concentration per Run 3	0.4320 ppm	109.1556 %	106.7144 %	104.7672 %	170.7989 %	169.1015 %	173.0247 %
Concentration RSD	0.1 %	0.9 %	1.5 %	0.3 %	1.1 %	1.7 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-04d2 WG1975362
Analysis started at: 9/26/2024 11:43:06 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	89.3550 ppm	0.0210 ppm	0.0017 ppm	0.4926 ppm	0.0065 ppm	13.9677 ppm
Concentration per Run 1	0.0010 ppm	89.1657 ppm	0.0226 ppm	0.0008 ppm	0.4918 ppm	0.0064 ppm	13.9306 ppm
Concentration per Run 2	0.0011 ppm	89.2757 ppm	0.0214 ppm	0.0020 ppm	0.4927 ppm	0.0065 ppm	13.9524 ppm
Concentration per Run 3	0.0007 ppm	89.6235 ppm	0.0190 ppm	0.0023 ppm	0.4933 ppm	0.0066 ppm	14.0202 ppm
Concentration RSD	22.9 %	0.3 %	8.8 %	46.0 %	0.2 %	1.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0165 ppm	0.0630 ppm	0.0228 ppm	40.6407 ppm	1.8237 ppm	0.0474 ppm
Concentration per Run 1	0.0022 ppm	0.0170 ppm	0.0625 ppm	0.0228 ppm	40.7500 ppm	1.8310 ppm	0.0474 ppm
Concentration per Run 2	0.0024 ppm	0.0163 ppm	0.0633 ppm	0.0231 ppm	40.4328 ppm	1.8153 ppm	0.0482 ppm
Concentration per Run 3	0.0023 ppm	0.0161 ppm	0.0633 ppm	0.0226 ppm	40.7392 ppm	1.8250 ppm	0.0467 ppm
Concentration RSD	4.3 %	2.9 %	0.7 %	1.0 %	0.4 %	0.4 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.6599 ppm	1.4014 ppm	0.0015 ppm	0.2960 ppm	0.0327 ppm	0.1247 ppm	-0.0004 ppm
Concentration per Run 1	7.6451 ppm	1.4024 ppm	0.0014 ppm	0.2977 ppm	0.0322 ppm	0.1251 ppm	0.0003 ppm
Concentration per Run 2	7.6790 ppm	1.3951 ppm	0.0020 ppm	0.2928 ppm	0.0337 ppm	0.1252 ppm	-0.0001 ppm
Concentration per Run 3	7.6556 ppm	1.4066 ppm	0.0012 ppm	0.2976 ppm	0.0322 ppm	0.1237 ppm	-0.0015 ppm
Concentration RSD	0.2 %	0.4 %	26.6 %	0.9 %	2.6 %	0.7 %	212.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0058 ppm	6.6905 ppm	0.0067 ppm	0.0814 ppm	0.4408 ppm	0.0015 ppm	0.0615 ppm
Concentration per Run 1	0.0033 ppm	6.6887 ppm	0.0059 ppm	0.0816 ppm	0.4378 ppm	0.0002 ppm	0.0613 ppm
Concentration per Run 2	0.0056 ppm	6.7001 ppm	0.0082 ppm	0.0811 ppm	0.4415 ppm	0.0015 ppm	0.0618 ppm
Concentration per Run 3	0.0085 ppm	6.6826 ppm	0.0061 ppm	0.0814 ppm	0.4430 ppm	0.0028 ppm	0.0615 ppm
Concentration RSD	44.2 %	0.1 %	19.1 %	0.3 %	0.6 %	88.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3064 ppm	112.1491 %	109.0492 %	107.1569 %	**165.1835 %**	**162.6108 %**	**166.0294 %**
Concentration per Run 1	0.3060 ppm	113.1126 %	110.3333 %	106.3951 %	**166.9274 %**	**164.6019 %**	**165.0722 %**
Concentration per Run 2	0.3070 ppm	111.7733 %	108.4616 %	107.3238 %	**164.5686 %**	**161.4512 %**	**166.3744 %**
Concentration per Run 3	0.3062 ppm	111.5614 %	108.3526 %	107.7519 %	**164.0545 %**	**161.7792 %**	**166.6415 %**
Concentration RSD	0.2 %	0.8 %	1.0 %	0.6 %	**0.9 %**	**1.1 %**	**0.5 %**

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-05d2 WG1975362
Analysis started at: 9/26/2024 11:47:00 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	79.2135 ppm	0.0199 ppm	0.0116 ppm	0.4215 ppm	0.0056 ppm	60.2879 ppm
Concentration per Run 1	0.0001 ppm	79.3505 ppm	0.0200 ppm	0.0099 ppm	0.4219 ppm	0.0056 ppm	60.4005 ppm
Concentration per Run 2	0.0007 ppm	79.0790 ppm	0.0219 ppm	0.0122 ppm	0.4196 ppm	0.0055 ppm	60.1700 ppm
Concentration per Run 3	0.0006 ppm	79.2110 ppm	0.0179 ppm	0.0128 ppm	0.4229 ppm	0.0057 ppm	60.2933 ppm
Concentration RSD	62.7 %	0.2 %	10.0 %	13.2 %	0.4 %	1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0242 ppm	0.0581 ppm	0.0624 ppm	141.7018 ppm	4.4780 ppm	0.0747 ppm
Concentration per Run 1	0.0012 ppm	0.0239 ppm	0.0574 ppm	0.0626 ppm	142.2580 ppm	4.4659 ppm	0.0742 ppm
Concentration per Run 2	0.0009 ppm	0.0241 ppm	0.0579 ppm	0.0619 ppm	140.9784 ppm	4.5077 ppm	0.0754 ppm
Concentration per Run 3	0.0009 ppm	0.0245 ppm	0.0589 ppm	0.0627 ppm	141.8690 ppm	4.4604 ppm	0.0744 ppm
Concentration RSD	18.4 %	1.4 %	1.3 %	0.7 %	0.5 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.9158 ppm	1.6275 ppm	0.0051 ppm	0.5638 ppm	0.0353 ppm	0.0815 ppm	-0.0007 ppm
Concentration per Run 1	17.8589 ppm	1.6310 ppm	0.0049 ppm	0.5595 ppm	0.0364 ppm	0.0801 ppm	0.0007 ppm
Concentration per Run 2	17.9908 ppm	1.6283 ppm	0.0050 ppm	0.5581 ppm	0.0350 ppm	0.0807 ppm	-0.0044 ppm
Concentration per Run 3	17.8975 ppm	1.6231 ppm	0.0053 ppm	0.5738 ppm	0.0346 ppm	0.0837 ppm	0.0017 ppm
Concentration RSD	0.4 %	0.2 %	4.5 %	1.5 %	2.6 %	2.4 %	494.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	7.0989 ppm	0.0109 ppm	0.0976 ppm	3.0004 ppm	0.0032 ppm	0.1275 ppm
Concentration per Run 1	0.0040 ppm	7.0710 ppm	0.0094 ppm	0.0979 ppm	2.9899 ppm	0.0021 ppm	0.1280 ppm
Concentration per Run 2	0.0021 ppm	7.1289 ppm	0.0125 ppm	0.0969 ppm	3.0139 ppm	0.0048 ppm	0.1280 ppm
Concentration per Run 3	0.0039 ppm	7.0966 ppm	0.0110 ppm	0.0979 ppm	2.9973 ppm	0.0027 ppm	0.1265 ppm
Concentration RSD	31.7 %	0.4 %	14.0 %	0.6 %	0.4 %	45.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4449 ppm	111.5962 %	110.0623 %	106.3017 %	**163.4527 %**	**163.9256 %**	**164.3718 %**
Concentration per Run 1	0.4448 ppm	111.8527 %	110.3190 %	106.3155 %	**164.1614 %**	**164.6803 %**	**164.2390 %**
Concentration per Run 2	0.4461 ppm	111.9599 %	110.1965 %	106.5975 %	**163.7925 %**	**163.6345 %**	**164.9870 %**
Concentration per Run 3	0.4439 ppm	110.9760 %	109.6715 %	105.9921 %	**162.4043 %**	**163.4619 %**	**163.8895 %**
Concentration RSD	0.2 %	0.5 %	0.3 %	0.3 %	**0.6 %**	**0.4 %**	**0.3 %**

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-06d2 WG1975362
Analysis started at: 9/26/2024 11:50:54 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	59.8911 ppm	0.0157 ppm	0.0094 ppm	0.3121 ppm	0.0040 ppm	22.1845 ppm
Concentration per Run 1	0.0006 ppm	59.4840 ppm	0.0123 ppm	0.0086 ppm	0.3123 ppm	0.0040 ppm	22.0622 ppm
Concentration per Run 2	0.0007 ppm	60.3826 ppm	0.0172 ppm	0.0092 ppm	0.3133 ppm	0.0040 ppm	22.3712 ppm
Concentration per Run 3	0.0003 ppm	59.8069 ppm	0.0175 ppm	0.0103 ppm	0.3108 ppm	0.0040 ppm	22.1201 ppm
Concentration RSD	36.1 %	0.8 %	18.7 %	9.2 %	0.4 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0124 ppm	0.0418 ppm	0.1189 ppm	76.2869 ppm	3.4553 ppm	0.0500 ppm
Concentration per Run 1	0.0014 ppm	0.0120 ppm	0.0415 ppm	0.1184 ppm	76.2338 ppm	3.4743 ppm	0.0508 ppm
Concentration per Run 2	0.0013 ppm	0.0123 ppm	0.0420 ppm	0.1190 ppm	76.7262 ppm	3.4628 ppm	0.0491 ppm
Concentration per Run 3	0.0011 ppm	0.0129 ppm	0.0419 ppm	0.1192 ppm	75.9006 ppm	3.4288 ppm	0.0502 ppm
Concentration RSD	11.5 %	3.8 %	0.6 %	0.3 %	0.5 %	0.7 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8622 ppm	0.4397 ppm	0.0014 ppm	0.3547 ppm	0.0231 ppm	0.0787 ppm	-0.0003 ppm
Concentration per Run 1	6.8548 ppm	0.4398 ppm	0.0014 ppm	0.3529 ppm	0.0223 ppm	0.0778 ppm	0.0000 ppm
Concentration per Run 2	6.8585 ppm	0.4394 ppm	0.0019 ppm	0.3588 ppm	0.0240 ppm	0.0795 ppm	0.0036 ppm
Concentration per Run 3	6.8733 ppm	0.4400 ppm	0.0010 ppm	0.3525 ppm	0.0230 ppm	0.0787 ppm	-0.0045 ppm
Concentration RSD	0.1 %	0.1 %	31.9 %	1.0 %	3.6 %	1.0 %	1,301.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	6.5989 ppm	0.0080 ppm	0.0521 ppm	1.4303 ppm	0.0029 ppm	0.0934 ppm
Concentration per Run 1	0.0027 ppm	6.5880 ppm	0.0073 ppm	0.0520 ppm	1.4278 ppm	0.0033 ppm	0.0932 ppm
Concentration per Run 2	0.0077 ppm	6.5901 ppm	0.0072 ppm	0.0522 ppm	1.4304 ppm	0.0023 ppm	0.0934 ppm
Concentration per Run 3	0.0034 ppm	6.6185 ppm	0.0096 ppm	0.0521 ppm	1.4327 ppm	0.0030 ppm	0.0936 ppm
Concentration RSD	58.1 %	0.3 %	16.9 %	0.2 %	0.2 %	18.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3417 ppm	111.0347 %	108.7301 %	107.2577 %	139.4069 %	137.6176 %	139.5423 %
Concentration per Run 1	0.3415 ppm	111.1284 %	109.6847 %	107.7197 %	139.2474 %	138.8321 %	139.5463 %
Concentration per Run 2	0.3412 ppm	110.9232 %	107.5918 %	106.1156 %	139.3899 %	135.9136 %	138.4852 %
Concentration per Run 3	0.3424 ppm	111.0525 %	108.9139 %	107.9377 %	139.5834 %	138.1072 %	140.5953 %
Concentration RSD	0.2 %	0.1 %	1.0 %	0.9 %	0.1 %	1.1 %	0.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-07d2 WG1975362
Analysis started at: 9/26/2024 11:54:48 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	118.4043 ppm	0.0273 ppm	0.0121 ppm	0.6387 ppm	0.0099 ppm	26.1547 ppm
Concentration per Run 1	0.0010 ppm	117.7240 ppm	0.0260 ppm	0.0122 ppm	0.6361 ppm	0.0099 ppm	26.1086 ppm
Concentration per Run 2	0.0010 ppm	118.4263 ppm	0.0245 ppm	0.0122 ppm	0.6377 ppm	0.0099 ppm	26.1140 ppm
Concentration per Run 3	0.0002 ppm	119.0627 ppm	0.0314 ppm	0.0120 ppm	0.6424 ppm	0.0098 ppm	26.2414 ppm
Concentration RSD	60.7 %	0.6 %	13.3 %	1.2 %	0.5 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0509 ppm	0.0951 ppm	0.1485 ppm	214.2332 ppm	9.1444 ppm	0.1154 ppm
Concentration per Run 1	0.0016 ppm	0.0506 ppm	0.0948 ppm	0.1487 ppm	213.9272 ppm	9.1308 ppm	0.1149 ppm
Concentration per Run 2	0.0019 ppm	0.0506 ppm	0.0956 ppm	0.1500 ppm	213.7078 ppm	9.0946 ppm	0.1147 ppm
Concentration per Run 3	0.0016 ppm	0.0515 ppm	0.0949 ppm	0.1468 ppm	215.0647 ppm	9.2076 ppm	0.1168 ppm
Concentration RSD	9.6 %	1.0 %	0.5 %	1.1 %	0.3 %	0.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.8457 ppm	3.3378 ppm	0.0037 ppm	0.8847 ppm	0.0579 ppm	0.0945 ppm	-0.0037 ppm
Concentration per Run 1	23.8689 ppm	3.3243 ppm	0.0040 ppm	0.8817 ppm	0.0589 ppm	0.0947 ppm	-0.0022 ppm
Concentration per Run 2	23.9043 ppm	3.3412 ppm	0.0034 ppm	0.8859 ppm	0.0574 ppm	0.0941 ppm	-0.0027 ppm
Concentration per Run 3	23.7640 ppm	3.3479 ppm	0.0038 ppm	0.8865 ppm	0.0574 ppm	0.0948 ppm	-0.0063 ppm
Concentration RSD	0.3 %	0.4 %	8.4 %	0.3 %	1.5 %	0.4 %	59.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0071 ppm	6.7311 ppm	0.0150 ppm	0.0834 ppm	4.3496 ppm	0.0047 ppm	0.2304 ppm
Concentration per Run 1	0.0064 ppm	6.7312 ppm	0.0144 ppm	0.0831 ppm	4.3535 ppm	0.0042 ppm	0.2320 ppm
Concentration per Run 2	0.0110 ppm	6.7852 ppm	0.0156 ppm	0.0832 ppm	4.3532 ppm	0.0042 ppm	0.2298 ppm
Concentration per Run 3	0.0038 ppm	6.6769 ppm	0.0152 ppm	0.0839 ppm	4.3421 ppm	0.0058 ppm	0.2294 ppm
Concentration RSD	51.0 %	0.8 %	4.1 %	0.5 %	0.2 %	19.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6429 ppm	114.4496 %	112.6465 %	109.2080 %	**183.4840 %**	**184.0299 %**	**185.0934 %**
Concentration per Run 1	0.6445 ppm	113.7486 %	112.4424 %	109.2671 %	**182.7058 %**	**183.1505 %**	**185.4444 %**
Concentration per Run 2	0.6441 ppm	113.9394 %	113.5980 %	109.0920 %	**182.5476 %**	**185.1890 %**	**184.2661 %**
Concentration per Run 3	0.6400 ppm	115.6607 %	111.8992 %	109.2650 %	**185.1985 %**	**183.7502 %**	**185.5697 %**
Concentration RSD	0.4 %	0.9 %	0.8 %	0.1 %	**0.8 %**	**0.6 %**	**0.4 %**

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-08d2 WG1975362
Analysis started at: 9/26/2024 11:58:43 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	118.3381 ppm	0.0256 ppm	0.0122 ppm	0.6741 ppm	0.0093 ppm	28.2311 ppm
Concentration per Run 1	0.0007 ppm	118.0382 ppm	0.0257 ppm	0.0125 ppm	0.6721 ppm	0.0094 ppm	28.1703 ppm
Concentration per Run 2	0.0011 ppm	119.6268 ppm	0.0248 ppm	0.0130 ppm	0.6836 ppm	0.0093 ppm	28.5047 ppm
Concentration per Run 3	0.0010 ppm	117.3492 ppm	0.0263 ppm	0.0111 ppm	0.6666 ppm	0.0092 ppm	28.0184 ppm
Concentration RSD	26.7 %	1.0 %	3.0 %	8.1 %	1.3 %	1.1 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0254 ppm	0.0822 ppm	0.2282 ppm	167.4706 ppm	6.8507 ppm	0.0963 ppm
Concentration per Run 1	0.0021 ppm	0.0250 ppm	0.0820 ppm	0.2272 ppm	167.1085 ppm	6.8036 ppm	0.0969 ppm
Concentration per Run 2	0.0021 ppm	0.0254 ppm	0.0826 ppm	0.2280 ppm	169.4947 ppm	6.9672 ppm	0.0972 ppm
Concentration per Run 3	0.0018 ppm	0.0257 ppm	0.0821 ppm	0.2293 ppm	165.8087 ppm	6.7813 ppm	0.0947 ppm
Concentration RSD	8.1 %	1.3 %	0.4 %	0.5 %	1.1 %	1.5 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.1275 ppm	0.9323 ppm	0.0064 ppm	0.5990 ppm	0.0488 ppm	0.0916 ppm	-0.0005 ppm
Concentration per Run 1	16.0928 ppm	0.9290 ppm	0.0056 ppm	0.6028 ppm	0.0490 ppm	0.0927 ppm	0.0064 ppm
Concentration per Run 2	16.1520 ppm	0.9443 ppm	0.0071 ppm	0.6050 ppm	0.0491 ppm	0.0901 ppm	-0.0032 ppm
Concentration per Run 3	16.1378 ppm	0.9236 ppm	0.0067 ppm	0.5893 ppm	0.0484 ppm	0.0919 ppm	-0.0045 ppm
Concentration RSD	0.2 %	1.2 %	12.0 %	1.4 %	0.8 %	1.4 %	1,277.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	7.2463 ppm	0.0133 ppm	0.0831 ppm	2.6029 ppm	0.0034 ppm	0.1895 ppm
Concentration per Run 1	0.0027 ppm	7.2181 ppm	0.0141 ppm	0.0829 ppm	2.6040 ppm	0.0037 ppm	0.1887 ppm
Concentration per Run 2	0.0035 ppm	7.2630 ppm	0.0131 ppm	0.0841 ppm	2.5975 ppm	0.0035 ppm	0.1901 ppm
Concentration per Run 3	0.0046 ppm	7.2578 ppm	0.0126 ppm	0.0823 ppm	2.6071 ppm	0.0030 ppm	0.1897 ppm
Concentration RSD	26.8 %	0.3 %	5.7 %	1.1 %	0.2 %	10.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5446 ppm	114.8836 %	110.7085 %	109.5020 %	**200.2270 %**	**198.2212 %**	**202.1622 %**
Concentration per Run 1	0.5430 ppm	114.6623 %	110.3979 %	109.1025 %	**199.9374 %**	**195.6493 %**	**201.4162 %**
Concentration per Run 2	0.5469 ppm	114.2237 %	109.6796 %	109.4085 %	**198.6233 %**	**197.8689 %**	**202.0624 %**
Concentration per Run 3	0.5440 ppm	115.7647 %	112.0480 %	109.9949 %	**202.1203 %**	**201.1455 %**	**203.0082 %**
Concentration RSD	0.4 %	0.7 %	1.1 %	0.4 %	**0.9 %**	**1.4 %**	**0.4 %**

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-09d2 WG1975362
Analysis started at: 9/26/2024 12:12:09 PM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	142.8592 ppm	0.0240 ppm	0.0165 ppm	0.7575 ppm	0.0106 ppm	22.2845 ppm
Concentration per Run 1	0.0021 ppm	142.5247 ppm	0.0240 ppm	0.0164 ppm	0.7519 ppm	0.0105 ppm	22.2008 ppm
Concentration per Run 2	0.0015 ppm	142.6966 ppm	0.0225 ppm	0.0160 ppm	0.7594 ppm	0.0106 ppm	22.2720 ppm
Concentration per Run 3	0.0012 ppm	143.3562 ppm	0.0256 ppm	0.0170 ppm	0.7611 ppm	0.0106 ppm	22.3808 ppm
Concentration RSD	28.4 %	0.3 %	6.5 %	3.1 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0679 ppm	0.1071 ppm	0.2369 ppm	227.2380 ppm	9.6087 ppm	0.1212 ppm
Concentration per Run 1	0.0019 ppm	0.0675 ppm	0.1065 ppm	0.2357 ppm	226.0671 ppm	9.6303 ppm	0.1224 ppm
Concentration per Run 2	0.0021 ppm	0.0691 ppm	0.1074 ppm	0.2366 ppm	227.5355 ppm	9.5642 ppm	0.1204 ppm
Concentration per Run 3	0.0020 ppm	0.0670 ppm	0.1075 ppm	0.2384 ppm	228.1114 ppm	9.6316 ppm	0.1209 ppm
Concentration RSD	5.9 %	1.6 %	0.5 %	0.6 %	0.5 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.2668 ppm	6.7242 ppm	0.0045 ppm	0.8821 ppm	0.0674 ppm	0.1217 ppm	-0.0060 ppm
Concentration per Run 1	25.9985 ppm	6.6973 ppm	0.0048 ppm	0.8845 ppm	0.0668 ppm	0.1236 ppm	-0.0105 ppm
Concentration per Run 2	26.3680 ppm	6.7526 ppm	0.0044 ppm	0.8680 ppm	0.0666 ppm	0.1219 ppm	-0.0016 ppm
Concentration per Run 3	26.4339 ppm	6.7227 ppm	0.0044 ppm	0.8937 ppm	0.0689 ppm	0.1195 ppm	-0.0058 ppm
Concentration RSD	0.9 %	0.4 %	5.6 %	1.5 %	1.9 %	1.7 %	75.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	7.0883 ppm	0.0171 ppm	0.0841 ppm	4.5923 ppm	0.0045 ppm	0.2509 ppm
Concentration per Run 1	0.0082 ppm	7.0575 ppm	0.0171 ppm	0.0838 ppm	4.5417 ppm	0.0046 ppm	0.2493 ppm
Concentration per Run 2	0.0032 ppm	7.0925 ppm	0.0165 ppm	0.0841 ppm	4.6029 ppm	0.0042 ppm	0.2509 ppm
Concentration per Run 3	-0.0013 ppm	7.1148 ppm	0.0176 ppm	0.0842 ppm	4.6323 ppm	0.0046 ppm	0.2525 ppm
Concentration RSD	141.2 %	0.4 %	3.0 %	0.2 %	1.0 %	5.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8323 ppm	108.7493 %	109.4420 %	104.0041 %	148.7983 %	154.7488 %	151.4765 %
Concentration per Run 1	0.8277 ppm	109.5724 %	110.0299 %	103.3312 %	149.5153 %	155.3055 %	150.0125 %
Concentration per Run 2	0.8315 ppm	109.2597 %	109.0575 %	104.0503 %	149.5294 %	154.3339 %	151.5466 %
Concentration per Run 3	0.8378 ppm	107.4156 %	109.2385 %	104.6309 %	147.3503 %	154.6069 %	152.8705 %
Concentration RSD	0.6 %	1.1 %	0.5 %	0.6 %	0.8 %	0.3 %	0.9 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-10d2 WG1975362
Analysis started at: 9/26/2024 12:16:13 PM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	50.5783 ppm	0.0085 ppm	0.0109 ppm	0.2443 ppm	0.0027 ppm	17.3182 ppm
Concentration per Run 1	0.0008 ppm	50.5481 ppm	0.0080 ppm	0.0130 ppm	0.2434 ppm	0.0027 ppm	17.2579 ppm
Concentration per Run 2	0.0003 ppm	50.4362 ppm	0.0085 ppm	0.0073 ppm	0.2457 ppm	0.0027 ppm	17.3189 ppm
Concentration per Run 3	0.0006 ppm	50.7508 ppm	0.0090 ppm	0.0125 ppm	0.2440 ppm	0.0026 ppm	17.3778 ppm
Concentration RSD	42.7 %	0.3 %	5.7 %	28.6 %	0.5 %	1.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0094 ppm	0.0348 ppm	0.1511 ppm	63.6179 ppm	2.2763 ppm	0.0323 ppm
Concentration per Run 1	0.0009 ppm	0.0093 ppm	0.0347 ppm	0.1511 ppm	63.2820 ppm	2.2802 ppm	0.0333 ppm
Concentration per Run 2	0.0010 ppm	0.0097 ppm	0.0349 ppm	0.1504 ppm	63.8485 ppm	2.2538 ppm	0.0324 ppm
Concentration per Run 3	0.0009 ppm	0.0093 ppm	0.0349 ppm	0.1516 ppm	63.7234 ppm	2.2951 ppm	0.0313 ppm
Concentration RSD	5.6 %	2.7 %	0.4 %	0.4 %	0.5 %	0.9 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.3777 ppm	0.4068 ppm	0.0029 ppm	0.4007 ppm	0.0183 ppm	0.0711 ppm	-0.0023 ppm
Concentration per Run 1	9.3909 ppm	0.4063 ppm	0.0028 ppm	0.3988 ppm	0.0183 ppm	0.0695 ppm	-0.0054 ppm
Concentration per Run 2	9.3410 ppm	0.4070 ppm	0.0030 ppm	0.3957 ppm	0.0185 ppm	0.0723 ppm	0.0001 ppm
Concentration per Run 3	9.4011 ppm	0.4070 ppm	0.0028 ppm	0.4077 ppm	0.0180 ppm	0.0715 ppm	-0.0014 ppm
Concentration RSD	0.3 %	0.1 %	3.9 %	1.6 %	1.5 %	2.0 %	125.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0050 ppm	6.2657 ppm	0.0086 ppm	0.0360 ppm	2.4235 ppm	0.0010 ppm	0.0850 ppm
Concentration per Run 1	0.0059 ppm	6.2583 ppm	0.0083 ppm	0.0361 ppm	2.4224 ppm	0.0007 ppm	0.0852 ppm
Concentration per Run 2	0.0012 ppm	6.2610 ppm	0.0086 ppm	0.0359 ppm	2.4169 ppm	0.0012 ppm	0.0848 ppm
Concentration per Run 3	0.0078 ppm	6.2779 ppm	0.0088 ppm	0.0362 ppm	2.4311 ppm	0.0011 ppm	0.0850 ppm
Concentration RSD	68.9 %	0.2 %	2.9 %	0.4 %	0.3 %	26.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2542 ppm	110.3108 %	107.3608 %	107.1610 %	127.5282 %	124.8152 %	126.8780 %
Concentration per Run 1	0.2533 ppm	110.2398 %	108.2171 %	107.0145 %	127.3951 %	126.2593 %	126.6476 %
Concentration per Run 2	0.2550 ppm	110.1919 %	107.2906 %	106.7750 %	127.4938 %	124.3107 %	126.5415 %
Concentration per Run 3	0.2543 ppm	110.5009 %	106.5746 %	107.6934 %	127.6956 %	123.8757 %	127.4449 %
Concentration RSD	0.3 %	0.2 %	0.8 %	0.4 %	0.1 %	1.0 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 12:20:05 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5093 ppm	0.4778 ppm	0.4837 ppm	0.4974 ppm	0.5011 ppm	0.5130 ppm	0.4931 ppm
Concentration per Run 1	0.5105 ppm	0.4798 ppm	0.4820 ppm	0.5001 ppm	0.5033 ppm	0.5128 ppm	0.4974 ppm
Concentration per Run 2	0.5067 ppm	0.4690 ppm	0.4813 ppm	0.4933 ppm	0.5015 ppm	0.5143 ppm	0.4943 ppm
Concentration per Run 3	0.5109 ppm	0.4846 ppm	0.4877 ppm	0.4989 ppm	0.4985 ppm	0.5119 ppm	0.4877 ppm
Recovery Percentage 1	101.867 %	95.564 %	96.735 %	99.484 %	100.219 %	102.595 %	98.628 %
Concentration RSD	0.5 %	1.7 %	0.7 %	0.7 %	0.5 %	0.2 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5025 ppm	0.5147 ppm	0.4935 ppm	0.4925 ppm	0.5086 ppm	5.1910 ppm	0.4929 ppm
Concentration per Run 1	0.5045 ppm	0.5151 ppm	0.4943 ppm	0.4915 ppm	0.5081 ppm	5.2137 ppm	0.4948 ppm
Concentration per Run 2	0.5013 ppm	0.5124 ppm	0.4929 ppm	0.4901 ppm	0.5089 ppm	5.2024 ppm	0.4916 ppm
Concentration per Run 3	0.5016 ppm	0.5166 ppm	0.4932 ppm	0.4960 ppm	0.5088 ppm	5.1569 ppm	0.4923 ppm
Recovery Percentage 1	100.495 %	102.942 %	98.694 %	98.504 %	101.714 %	103.820 %	98.583 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.6 %	0.1 %	0.6 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4921 ppm	0.4950 ppm	0.4873 ppm	10.0727 ppm	0.5120 ppm	0.5019 ppm	0.5111 ppm
Concentration per Run 1	0.4946 ppm	0.4942 ppm	0.4837 ppm	10.0974 ppm	0.5129 ppm	0.5019 ppm	0.5018 ppm
Concentration per Run 2	0.4914 ppm	0.4947 ppm	0.4869 ppm	10.0993 ppm	0.5075 ppm	0.5018 ppm	0.5123 ppm
Concentration per Run 3	0.4904 ppm	0.4961 ppm	0.4913 ppm	10.0215 ppm	0.5156 ppm	0.5021 ppm	0.5191 ppm
Recovery Percentage 1	98.427 %	99.000 %	97.460 %	100.727 %	102.395 %	100.383 %	102.216 %
Concentration RSD	0.4 %	0.2 %	0.8 %	0.4 %	0.8 %	0.0 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5015 ppm	5.3863 ppm	0.4812 ppm	0.4758 ppm	0.5031 ppm	0.4986 ppm	0.4911 ppm
Concentration per Run 1	0.4959 ppm	5.3737 ppm	0.4815 ppm	0.4771 ppm	0.5045 ppm	0.4977 ppm	0.4911 ppm
Concentration per Run 2	0.5024 ppm	5.3643 ppm	0.4799 ppm	0.4767 ppm	0.5017 ppm	0.4989 ppm	0.4900 ppm
Concentration per Run 3	0.5063 ppm	5.4211 ppm	0.4823 ppm	0.4736 ppm	0.5031 ppm	0.4991 ppm	0.4922 ppm
Recovery Percentage 1	100.310 %	102.597 %	96.242 %	95.163 %	100.622 %	99.716 %	98.222 %
Concentration RSD	1.0 %	0.6 %	0.3 %	0.4 %	0.3 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5122 ppm	107.9265 %	104.6850 %	106.8009 %	106.5856 %	103.2495 %	106.7678 %
Concentration per Run 1	0.5134 ppm	107.3243 %	104.7208 %	107.3118 %	106.1248 %	103.2822 %	107.0642 %
Concentration per Run 2	0.5111 ppm	108.4550 %	105.2283 %	106.8350 %	106.6956 %	103.9434 %	106.7575 %
Concentration per Run 3	0.5122 ppm	108.0002 %	104.1060 %	106.2558 %	106.9365 %	102.5229 %	106.4818 %
Recovery Percentage 1	102.440 %						
Concentration RSD	0.2 %	0.5 %	0.5 %	0.5 %	0.4 %	0.7 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 12:24:00 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0035 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	-0.0009 ppm	-0.0106 ppm	0.0008 ppm	0.0023 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	-0.0003 ppm	0.0040 ppm	-0.0031 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	-0.0038 ppm	0.0019 ppm	-0.0013 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	-6.256 %	-3.458 %	-2.578 %	0.597 %	2.275 %	1.145 %	-0.567 %
Concentration RSD	94.7 %	210.0 %	2,035.2 %	1,054.2 %	31.1 %	30.9 %	189.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0006 ppm	-0.0007 ppm	0.0001 ppm	-0.0129 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	0.0005 ppm	-0.0007 ppm	-0.0002 ppm	0.0175 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0009 ppm	-0.0009 ppm	-0.0008 ppm	-0.0137 ppm	0.0016 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0002 ppm	-0.0005 ppm	0.0015 ppm	-0.0426 ppm	-0.0016 ppm
Recovery Percentage 1	0.136 %	4.097 %	5.550 %	-6.870 %	0.296 %	-0.518 %	-1.654 %
Concentration RSD	1,609.2 %	6.6 %	65.4 %	22.9 %	793.5 %	232.3 %	1,902.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0026 ppm	-0.0001 ppm	0.0003 ppm	-0.0161 ppm	0.0005 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 1	0.0042 ppm	0.0000 ppm	0.0004 ppm	-0.0192 ppm	0.0006 ppm	-0.0004 ppm	-0.0049 ppm
Concentration per Run 2	0.0039 ppm	0.0000 ppm	-0.0001 ppm	-0.0144 ppm	-0.0003 ppm	0.0014 ppm	0.0063 ppm
Concentration per Run 3	-0.0004 ppm	-0.0002 ppm	0.0006 ppm	-0.0148 ppm	0.0012 ppm	0.0004 ppm	0.0008 ppm
Recovery Percentage 1	2.570 %	-0.946 %	0.546 %	-0.806 %	2.138 %	4.544 %	1.438 %
Concentration RSD	98.6 %	123.3 %	131.0 %	16.4 %	139.7 %	188.9 %	774.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	-0.0027 ppm	-0.0011 ppm	0.0000 ppm	-0.0003 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	0.0025 ppm	-0.0015 ppm	-0.0012 ppm	0.0000 ppm	-0.0002 ppm	0.0010 ppm	0.0007 ppm
Concentration per Run 2	0.0020 ppm	-0.0022 ppm	-0.0012 ppm	0.0002 ppm	-0.0002 ppm	0.0016 ppm	-0.0001 ppm
Concentration per Run 3	0.0050 ppm	-0.0044 ppm	-0.0009 ppm	-0.0003 ppm	-0.0003 ppm	0.0010 ppm	0.0002 ppm
Recovery Percentage 1	31.800 %	-0.543 %	-2.178 %	-0.271 %	-2.536 %	5.920 %	2.907 %
Concentration RSD	51.3 %	57.1 %	13.2 %	788.9 %	25.5 %	31.2 %	147.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	107.9431 %	102.4727 %	107.7681 %	108.8269 %	101.4614 %	108.4957 %
Concentration per Run 1	0.0002 ppm	107.2153 %	102.4718 %	108.0778 %	108.7411 %	101.8700 %	108.9280 %
Concentration per Run 2	-0.0003 ppm	108.9636 %	102.3684 %	107.8648 %	109.6430 %	101.0290 %	108.5832 %
Concentration per Run 3	-0.0003 ppm	107.6503 %	102.5777 %	107.3616 %	108.0966 %	101.4851 %	107.9760 %
Recovery Percentage 1	-3.392 %						
Concentration RSD	180.1 %	0.8 %	0.1 %	0.3 %	0.7 %	0.4 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975909-1 WG1975909
Analysis started at: 9/26/2024 12:28:53 PM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0021 ppm	0.0002 ppm	0.0036 ppm	0.0002 ppm	0.0000 ppm	0.0205 ppm
Concentration per Run 1	-0.0003 ppm	0.0049 ppm	0.0009 ppm	0.0034 ppm	0.0002 ppm	0.0000 ppm	0.0188 ppm
Concentration per Run 2	-0.0006 ppm	-0.0104 ppm	0.0010 ppm	0.0041 ppm	0.0003 ppm	0.0000 ppm	0.0217 ppm
Concentration per Run 3	0.0002 ppm	-0.0010 ppm	-0.0013 ppm	0.0033 ppm	0.0002 ppm	0.0001 ppm	0.0211 ppm
Concentration RSD	178.8 %	361.2 %	623.6 %	11.6 %	26.5 %	57.7 %	7.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0159 ppm	0.0823 ppm	0.0010 ppm
Concentration per Run 1	-0.0003 ppm	0.0013 ppm	0.0000 ppm	0.0003 ppm	0.0181 ppm	0.1019 ppm	0.0015 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0155 ppm	0.0581 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0141 ppm	0.0869 ppm	0.0012 ppm
Concentration RSD	377.2 %	122.8 %	126.7 %	29.0 %	12.6 %	27.1 %	56.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	0.0005 ppm	-0.0005 ppm	-0.0016 ppm	0.0006 ppm	0.0020 ppm	0.0028 ppm
Concentration per Run 1	0.0030 ppm	0.0004 ppm	-0.0007 ppm	0.0008 ppm	0.0009 ppm	0.0029 ppm	-0.0016 ppm
Concentration per Run 2	0.0039 ppm	0.0006 ppm	-0.0005 ppm	-0.0074 ppm	0.0000 ppm	0.0011 ppm	0.0051 ppm
Concentration per Run 3	0.0026 ppm	0.0004 ppm	-0.0003 ppm	0.0020 ppm	0.0008 ppm	0.0020 ppm	0.0051 ppm
Concentration RSD	19.7 %	27.2 %	41.5 %	329.7 %	82.4 %	44.2 %	136.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	0.0058 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0034 ppm	0.0077 ppm	0.0016 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 2	0.0042 ppm	0.0038 ppm	0.0012 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0032 ppm	0.0060 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0004 ppm
Concentration RSD	14.7 %	33.7 %	44.3 %	546.7 %	169.4 %	21.8 %	19.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0044 ppm	108.6097 %	108.4655 %	106.5650 %	106.9142 %	107.2730 %	106.8213 %
Concentration per Run 1	0.0042 ppm	109.4710 %	108.9967 %	106.4451 %	107.5410 %	107.9902 %	106.7610 %
Concentration per Run 2	0.0042 ppm	107.3962 %	108.0192 %	107.0924 %	105.8360 %	106.6717 %	107.4164 %
Concentration per Run 3	0.0049 ppm	108.9620 %	108.3806 %	106.1575 %	107.3655 %	107.1572 %	106.2865 %
Concentration RSD	9.5 %	1.0 %	0.5 %	0.4 %	0.9 %	0.6 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975909-2d2 WG1975909
Analysis started at: 9/26/2024 12:32:55 PM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3454 ppm	21.0110 ppm	1.2789 ppm	0.9837 ppm	1.3067 ppm	0.6986 ppm	20.6005 ppm
Concentration per Run 1	0.3482 ppm	20.8955 ppm	1.2765 ppm	0.9875 ppm	1.3046 ppm	0.6966 ppm	20.5793 ppm
Concentration per Run 2	0.3457 ppm	21.1445 ppm	1.2758 ppm	0.9792 ppm	1.3103 ppm	0.7011 ppm	20.6660 ppm
Concentration per Run 3	0.3424 ppm	20.9931 ppm	1.2844 ppm	0.9843 ppm	1.3053 ppm	0.6980 ppm	20.5562 ppm
Concentration RSD	0.8 %	0.6 %	0.4 %	0.4 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8762 ppm	0.3417 ppm	0.7489 ppm	0.8615 ppm	25.2381 ppm	4.8589 ppm	0.5329 ppm
Concentration per Run 1	0.8861 ppm	0.3438 ppm	0.7523 ppm	0.8631 ppm	25.1119 ppm	4.8407 ppm	0.5318 ppm
Concentration per Run 2	0.8762 ppm	0.3429 ppm	0.7493 ppm	0.8634 ppm	25.3848 ppm	4.8638 ppm	0.5335 ppm
Concentration per Run 3	0.8664 ppm	0.3384 ppm	0.7450 ppm	0.8579 ppm	25.2177 ppm	4.8722 ppm	0.5335 ppm
Concentration RSD	1.1 %	0.9 %	0.5 %	0.4 %	0.5 %	0.3 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.3839 ppm	2.2771 ppm	0.5718 ppm	7.3499 ppm	1.3185 ppm	0.3916 ppm	0.8992 ppm
Concentration per Run 1	6.4221 ppm	2.2852 ppm	0.5706 ppm	7.3246 ppm	1.3232 ppm	0.3931 ppm	0.8972 ppm
Concentration per Run 2	6.3876 ppm	2.2769 ppm	0.5755 ppm	7.3569 ppm	1.3192 ppm	0.3905 ppm	0.8998 ppm
Concentration per Run 3	6.3420 ppm	2.2692 ppm	0.5692 ppm	7.3683 ppm	1.3131 ppm	0.3911 ppm	0.9007 ppm
Concentration RSD	0.6 %	0.4 %	0.6 %	0.3 %	0.4 %	0.3 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6930 ppm	6.1864 ppm	0.3097 ppm	0.5511 ppm	1.3111 ppm	0.8687 ppm	0.4269 ppm
Concentration per Run 1	0.6910 ppm	6.1686 ppm	0.3104 ppm	0.5490 ppm	1.3130 ppm	0.8722 ppm	0.4282 ppm
Concentration per Run 2	0.6852 ppm	6.2943 ppm	0.3111 ppm	0.5529 ppm	1.3124 ppm	0.8643 ppm	0.4274 ppm
Concentration per Run 3	0.7028 ppm	6.0964 ppm	0.3075 ppm	0.5515 ppm	1.3079 ppm	0.8695 ppm	0.4252 ppm
Concentration RSD	1.3 %	1.6 %	0.6 %	0.4 %	0.2 %	0.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6984 ppm	110.4159 %	108.0507 %	108.2726 %	114.9971 %	112.5900 %	115.9729 %
Concentration per Run 1	0.7003 ppm	110.5013 %	108.1702 %	107.3480 %	115.0262 %	112.7017 %	115.2020 %
Concentration per Run 2	0.6980 ppm	110.2544 %	108.1904 %	108.9677 %	114.8098 %	113.0611 %	116.3236 %
Concentration per Run 3	0.6969 ppm	110.4919 %	107.7916 %	108.5022 %	115.1552 %	112.0073 %	116.3930 %
Concentration RSD	0.3 %	0.1 %	0.2 %	0.8 %	0.2 %	0.5 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975909-3d2 WG1975909
Analysis started at: 9/26/2024 12:36:50 PM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3364 ppm	19.4839 ppm	1.2445 ppm	0.9562 ppm	1.3843 ppm	0.6924 ppm	19.9943 ppm
Concentration per Run 1	0.3364 ppm	19.5428 ppm	1.2479 ppm	0.9591 ppm	1.3761 ppm	0.6899 ppm	20.0334 ppm
Concentration per Run 2	0.3358 ppm	19.4488 ppm	1.2432 ppm	0.9546 ppm	1.3907 ppm	0.6930 ppm	19.8990 ppm
Concentration per Run 3	0.3369 ppm	19.4601 ppm	1.2425 ppm	0.9550 ppm	1.3863 ppm	0.6944 ppm	20.0505 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.3 %	0.5 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8641 ppm	0.3373 ppm	0.7414 ppm	0.8585 ppm	23.7198 ppm	4.6116 ppm	0.5162 ppm
Concentration per Run 1	0.8629 ppm	0.3371 ppm	0.7424 ppm	0.8604 ppm	23.5877 ppm	4.6351 ppm	0.5106 ppm
Concentration per Run 2	0.8669 ppm	0.3378 ppm	0.7384 ppm	0.8548 ppm	23.7985 ppm	4.6101 ppm	0.5196 ppm
Concentration per Run 3	0.8624 ppm	0.3370 ppm	0.7434 ppm	0.8602 ppm	23.7733 ppm	4.5897 ppm	0.5183 ppm
Concentration RSD	0.3 %	0.1 %	0.4 %	0.4 %	0.5 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0610 ppm	2.4242 ppm	0.5679 ppm	7.1936 ppm	1.3059 ppm	0.3867 ppm	0.8811 ppm
Concentration per Run 1	6.0551 ppm	2.4192 ppm	0.5633 ppm	7.2035 ppm	1.3050 ppm	0.3883 ppm	0.8865 ppm
Concentration per Run 2	6.0553 ppm	2.4189 ppm	0.5651 ppm	7.1781 ppm	1.3038 ppm	0.3855 ppm	0.8735 ppm
Concentration per Run 3	6.0725 ppm	2.4344 ppm	0.5753 ppm	7.1991 ppm	1.3088 ppm	0.3863 ppm	0.8833 ppm
Concentration RSD	0.2 %	0.4 %	1.1 %	0.2 %	0.2 %	0.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6740 ppm	5.9635 ppm	0.2999 ppm	0.5588 ppm	1.2580 ppm	0.8551 ppm	0.4241 ppm
Concentration per Run 1	0.6709 ppm	6.1783 ppm	0.3013 ppm	0.5558 ppm	1.2567 ppm	0.8566 ppm	0.4233 ppm
Concentration per Run 2	0.6788 ppm	5.8124 ppm	0.2951 ppm	0.5612 ppm	1.2610 ppm	0.8545 ppm	0.4237 ppm
Concentration per Run 3	0.6723 ppm	5.8997 ppm	0.3032 ppm	0.5594 ppm	1.2564 ppm	0.8542 ppm	0.4252 ppm
Concentration RSD	0.6 %	3.2 %	1.4 %	0.5 %	0.2 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6806 ppm	110.3657 %	107.8686 %	107.1129 %	114.5889 %	112.3424 %	113.7888 %
Concentration per Run 1	0.6815 ppm	110.1551 %	109.9824 %	106.5436 %	114.5160 %	115.0259 %	113.5176 %
Concentration per Run 2	0.6776 ppm	110.4157 %	106.5969 %	108.2541 %	114.4837 %	110.3569 %	114.5869 %
Concentration per Run 3	0.6826 ppm	110.5264 %	107.0264 %	106.5411 %	114.7670 %	111.6443 %	113.2619 %
Concentration RSD	0.4 %	0.2 %	1.7 %	0.9 %	0.1 %	2.1 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455216-01d2 WG1975909
Analysis started at: 9/26/2024 12:40:44 PM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	123.6307 ppm	0.0802 ppm	0.0075 ppm	0.7551 ppm	0.0073 ppm	26.7554 ppm
Concentration per Run 1	0.0020 ppm	123.8875 ppm	0.0800 ppm	0.0068 ppm	0.7565 ppm	0.0073 ppm	26.7728 ppm
Concentration per Run 2	0.0018 ppm	123.5320 ppm	0.0801 ppm	0.0058 ppm	0.7554 ppm	0.0073 ppm	26.7528 ppm
Concentration per Run 3	0.0018 ppm	123.4725 ppm	0.0804 ppm	0.0100 ppm	0.7534 ppm	0.0072 ppm	26.7406 ppm
Concentration RSD	4.9 %	0.2 %	0.3 %	29.2 %	0.2 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.0776 ppm	0.2254 ppm	0.5827 ppm	192.9314 ppm	6.0699 ppm	0.1608 ppm
Concentration per Run 1	0.0023 ppm	0.0794 ppm	0.2297 ppm	0.5913 ppm	193.1233 ppm	6.0709 ppm	0.1610 ppm
Concentration per Run 2	0.0025 ppm	0.0734 ppm	0.2120 ppm	0.5541 ppm	193.1780 ppm	6.0676 ppm	0.1587 ppm
Concentration per Run 3	0.0025 ppm	0.0800 ppm	0.2344 ppm	0.6026 ppm	192.4929 ppm	6.0712 ppm	0.1627 ppm
Concentration RSD	4.6 %	4.7 %	5.3 %	4.4 %	0.2 %	0.0 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.1059 ppm	3.6029 ppm	0.0124 ppm	1.4921 ppm	0.1957 ppm	3.4480 ppm	0.0105 ppm
Concentration per Run 1	40.7244 ppm	3.6223 ppm	0.0124 ppm	1.5051 ppm	0.1991 ppm	3.5191 ppm	0.0073 ppm
Concentration per Run 2	38.0794 ppm	3.5879 ppm	0.0119 ppm	1.4885 ppm	0.1853 ppm	3.4124 ppm	0.0100 ppm
Concentration per Run 3	41.5140 ppm	3.5985 ppm	0.0129 ppm	1.4828 ppm	0.2028 ppm	3.4125 ppm	0.0143 ppm
Concentration RSD	4.5 %	0.5 %	4.1 %	0.8 %	4.7 %	1.8 %	33.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0089 ppm	3.9357 ppm	0.0556 ppm	0.1544 ppm	5.0944 ppm	0.0049 ppm	0.3743 ppm
Concentration per Run 1	0.0099 ppm	4.1743 ppm	0.0568 ppm	0.1542 ppm	5.1878 ppm	0.0057 ppm	0.3800 ppm
Concentration per Run 2	0.0088 ppm	3.5850 ppm	0.0514 ppm	0.1550 ppm	4.8255 ppm	0.0034 ppm	0.3557 ppm
Concentration per Run 3	0.0079 ppm	4.0479 ppm	0.0586 ppm	0.1539 ppm	5.2699 ppm	0.0056 ppm	0.3873 ppm
Concentration RSD	11.1 %	7.9 %	6.8 %	0.3 %	4.6 %	27.1 %	4.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3628 ppm	113.4959 %	112.0131 %	106.3067 %	142.6678 %	146.8074 %	144.7141 %
Concentration per Run 1	1.3820 ppm	111.9551 %	112.8332 %	104.4857 %	144.0102 %	148.1055 %	142.0843 %
Concentration per Run 2	1.2905 ppm	118.8001 %	112.0082 %	106.4361 %	145.6581 %	146.7986 %	145.5328 %
Concentration per Run 3	1.4160 ppm	109.7326 %	111.1979 %	107.9983 %	138.3350 %	145.5181 %	146.5251 %
Concentration RSD	4.8 %	4.2 %	0.7 %	1.7 %	2.7 %	0.9 %	1.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-11d2 WG1975362
Analysis started at: 9/26/2024 12:44:39 PM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	55.9660 ppm	0.0175 ppm	0.0057 ppm	0.3285 ppm	0.0059 ppm	16.2324 ppm
Concentration per Run 1	0.0006 ppm	55.8461 ppm	0.0171 ppm	0.0052 ppm	0.3296 ppm	0.0059 ppm	16.2572 ppm
Concentration per Run 2	0.0002 ppm	55.9269 ppm	0.0175 ppm	0.0063 ppm	0.3275 ppm	0.0059 ppm	16.2298 ppm
Concentration per Run 3	0.0013 ppm	56.1250 ppm	0.0180 ppm	0.0056 ppm	0.3286 ppm	0.0059 ppm	16.2102 ppm
Concentration RSD	78.8 %	0.3 %	2.6 %	10.3 %	0.3 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0239 ppm	0.0490 ppm	0.0425 ppm	158.8450 ppm	2.6223 ppm	0.0518 ppm
Concentration per Run 1	0.0002 ppm	0.0237 ppm	0.0490 ppm	0.0425 ppm	159.0593 ppm	2.6188 ppm	0.0521 ppm
Concentration per Run 2	0.0004 ppm	0.0245 ppm	0.0488 ppm	0.0422 ppm	158.6421 ppm	2.6337 ppm	0.0505 ppm
Concentration per Run 3	0.0003 ppm	0.0234 ppm	0.0491 ppm	0.0427 ppm	158.8336 ppm	2.6145 ppm	0.0529 ppm
Concentration RSD	41.8 %	2.4 %	0.3 %	0.6 %	0.1 %	0.4 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.7739 ppm	1.0047 ppm	0.0052 ppm	0.6910 ppm	0.0280 ppm	0.0289 ppm	0.0009 ppm
Concentration per Run 1	12.7839 ppm	1.0070 ppm	0.0053 ppm	0.6954 ppm	0.0282 ppm	0.0290 ppm	0.0046 ppm
Concentration per Run 2	12.7669 ppm	1.0053 ppm	0.0055 ppm	0.6828 ppm	0.0270 ppm	0.0277 ppm	0.0008 ppm
Concentration per Run 3	12.7710 ppm	1.0018 ppm	0.0047 ppm	0.6949 ppm	0.0287 ppm	0.0300 ppm	-0.0028 ppm
Concentration RSD	0.1 %	0.3 %	7.7 %	1.0 %	3.1 %	3.9 %	427.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	4.8267 ppm	0.0087 ppm	0.0605 ppm	3.8121 ppm	0.0056 ppm	0.1459 ppm
Concentration per Run 1	0.0012 ppm	4.8544 ppm	0.0089 ppm	0.0609 ppm	3.8178 ppm	0.0060 ppm	0.1453 ppm
Concentration per Run 2	0.0049 ppm	4.8179 ppm	0.0070 ppm	0.0600 ppm	3.8074 ppm	0.0055 ppm	0.1461 ppm
Concentration per Run 3	0.0020 ppm	4.8079 ppm	0.0101 ppm	0.0605 ppm	3.8111 ppm	0.0052 ppm	0.1462 ppm
Concentration RSD	73.4 %	0.5 %	17.6 %	0.7 %	0.1 %	6.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3044 ppm	113.3338 %	110.7567 %	110.2862 %	**204.3325 %**	**203.7206 %**	**206.5309 %**
Concentration per Run 1	0.3035 ppm	113.7557 %	110.3611 %	109.8974 %	**204.6108 %**	**203.0774 %**	**205.1110 %**
Concentration per Run 2	0.3055 ppm	113.5709 %	111.7960 %	111.0944 %	**204.7597 %**	**205.8813 %**	**208.5561 %**
Concentration per Run 3	0.3041 ppm	112.6747 %	110.1132 %	109.8667 %	**203.6271 %**	**202.2030 %**	**205.9258 %**
Concentration RSD	0.3 %	0.5 %	0.8 %	0.6 %	**0.3 %**	**0.9 %**	**0.9 %**

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: xL2454093-12d2 WG1975362
Analysis started at: 9/26/2024 12:48:31 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	80.4100 ppm	0.0127 ppm	0.0056 ppm	0.3870 ppm	0.0045 ppm	16.7401 ppm
Concentration per Run 1	0.0007 ppm	80.1251 ppm	0.0132 ppm	0.0063 ppm	0.3862 ppm	0.0045 ppm	16.7077 ppm
Concentration per Run 2	0.0003 ppm	80.3905 ppm	0.0078 ppm	0.0056 ppm	0.3871 ppm	0.0044 ppm	16.7079 ppm
Concentration per Run 3	0.0011 ppm	80.7144 ppm	0.0169 ppm	0.0050 ppm	0.3877 ppm	0.0045 ppm	16.8048 ppm
Concentration RSD	54.3 %	0.4 %	36.2 %	11.6 %	0.2 %	0.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0136 ppm	0.0491 ppm	0.0362 ppm	51.8981 ppm	2.0332 ppm	0.0552 ppm
Concentration per Run 1	0.0014 ppm	0.0138 ppm	0.0487 ppm	0.0356 ppm	51.9475 ppm	2.0437 ppm	0.0562 ppm
Concentration per Run 2	0.0016 ppm	0.0133 ppm	0.0499 ppm	0.0365 ppm	51.9163 ppm	2.0201 ppm	0.0543 ppm
Concentration per Run 3	0.0015 ppm	0.0137 ppm	0.0486 ppm	0.0363 ppm	51.8304 ppm	2.0358 ppm	0.0550 ppm
Concentration RSD	4.2 %	1.8 %	1.4 %	1.3 %	0.1 %	0.6 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5399 ppm	0.3100 ppm	0.0014 ppm	0.6811 ppm	0.0320 ppm	0.0848 ppm	0.0026 ppm
Concentration per Run 1	8.5182 ppm	0.3111 ppm	0.0012 ppm	0.6800 ppm	0.0317 ppm	0.0844 ppm	-0.0025 ppm
Concentration per Run 2	8.5673 ppm	0.3089 ppm	0.0012 ppm	0.6730 ppm	0.0315 ppm	0.0857 ppm	0.0048 ppm
Concentration per Run 3	8.5344 ppm	0.3099 ppm	0.0018 ppm	0.6905 ppm	0.0328 ppm	0.0842 ppm	0.0055 ppm
Concentration RSD	0.3 %	0.4 %	24.7 %	1.3 %	2.3 %	1.0 %	172.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	6.3263 ppm	0.0095 ppm	0.0636 ppm	1.8763 ppm	0.0016 ppm	0.0789 ppm
Concentration per Run 1	0.0065 ppm	6.3417 ppm	0.0095 ppm	0.0637 ppm	1.8639 ppm	0.0028 ppm	0.0789 ppm
Concentration per Run 2	0.0019 ppm	6.3242 ppm	0.0093 ppm	0.0634 ppm	1.8869 ppm	0.0009 ppm	0.0793 ppm
Concentration per Run 3	0.0052 ppm	6.3130 ppm	0.0098 ppm	0.0637 ppm	1.8780 ppm	0.0012 ppm	0.0787 ppm
Concentration RSD	52.5 %	0.2 %	3.0 %	0.3 %	0.6 %	64.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2533 ppm	111.9032 %	108.4982 %	108.4412 %	148.5115 %	145.5876 %	148.9796 %
Concentration per Run 1	0.2529 ppm	111.9899 %	108.2192 %	108.8374 %	148.5400 %	145.0526 %	149.1147 %
Concentration per Run 2	0.2541 ppm	110.8592 %	109.2914 %	108.5514 %	147.1622 %	146.5084 %	149.4324 %
Concentration per Run 3	0.2527 ppm	112.8604 %	107.9841 %	107.9347 %	149.8322 %	145.2018 %	148.3916 %
Concentration RSD	0.3 %	0.9 %	0.6 %	0.4 %	0.9 %	0.6 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-13d2 WG1975362
Analysis started at: 9/26/2024 12:52:24 PM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	112.1161 ppm	0.0192 ppm	0.0237 ppm	0.7018 ppm	0.0077 ppm	64.0149 ppm
Concentration per Run 1	0.0010 ppm	112.1132 ppm	0.0168 ppm	0.0259 ppm	0.7001 ppm	0.0077 ppm	64.0875 ppm
Concentration per Run 2	0.0010 ppm	110.9164 ppm	0.0216 ppm	0.0235 ppm	0.6952 ppm	0.0076 ppm	63.3717 ppm
Concentration per Run 3	0.0011 ppm	113.3188 ppm	0.0191 ppm	0.0216 ppm	0.7100 ppm	0.0078 ppm	64.5856 ppm
Concentration RSD	7.4 %	1.1 %	12.7 %	9.1 %	1.1 %	1.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0385 ppm	0.0864 ppm	0.1049 ppm	163.1095 ppm	10.6364 ppm	0.1054 ppm
Concentration per Run 1	0.0009 ppm	0.0388 ppm	0.0862 ppm	0.1050 ppm	162.5911 ppm	10.6326 ppm	0.1051 ppm
Concentration per Run 2	0.0012 ppm	0.0385 ppm	0.0856 ppm	0.1042 ppm	161.5737 ppm	10.5429 ppm	0.1051 ppm
Concentration per Run 3	0.0013 ppm	0.0384 ppm	0.0875 ppm	0.1056 ppm	165.1638 ppm	10.7338 ppm	0.1060 ppm
Concentration RSD	15.9 %	0.5 %	1.1 %	0.7 %	1.1 %	0.9 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.0888 ppm	2.4848 ppm	0.0029 ppm	1.7427 ppm	0.0565 ppm	0.0725 ppm	0.0008 ppm
Concentration per Run 1	25.0771 ppm	2.4899 ppm	0.0030 ppm	1.7436 ppm	0.0568 ppm	0.0739 ppm	0.0014 ppm
Concentration per Run 2	25.0298 ppm	2.4644 ppm	0.0031 ppm	1.7220 ppm	0.0561 ppm	0.0721 ppm	-0.0043 ppm
Concentration per Run 3	25.1594 ppm	2.5001 ppm	0.0028 ppm	1.7625 ppm	0.0566 ppm	0.0714 ppm	0.0054 ppm
Concentration RSD	0.3 %	0.7 %	5.3 %	1.2 %	0.7 %	1.8 %	580.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0053 ppm	5.7032 ppm	0.0143 ppm	0.1482 ppm	3.9183 ppm	0.0038 ppm	0.1625 ppm
Concentration per Run 1	0.0089 ppm	5.6703 ppm	0.0148 ppm	0.1479 ppm	3.9098 ppm	0.0035 ppm	0.1628 ppm
Concentration per Run 2	0.0058 ppm	5.7086 ppm	0.0146 ppm	0.1470 ppm	3.9139 ppm	0.0033 ppm	0.1618 ppm
Concentration per Run 3	0.0014 ppm	5.7306 ppm	0.0134 ppm	0.1497 ppm	3.9311 ppm	0.0046 ppm	0.1627 ppm
Concentration RSD	70.1 %	0.5 %	5.4 %	0.9 %	0.3 %	18.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5491 ppm	113.4709 %	113.0076 %	109.0989 %	**176.3668 %**	**178.9456 %**	**177.8162 %**
Concentration per Run 1	0.5496 ppm	112.7655 %	114.2626 %	109.8805 %	**175.2531 %**	**180.7718 %**	**179.0213 %**
Concentration per Run 2	0.5451 ppm	114.0548 %	113.0112 %	108.5669 %	**176.7952 %**	**178.4017 %**	**176.5193 %**
Concentration per Run 3	0.5525 ppm	113.5924 %	111.7490 %	108.8494 %	**177.0522 %**	**177.6633 %**	**177.9081 %**
Concentration RSD	0.7 %	0.6 %	1.1 %	0.6 %	**0.6 %**	**0.9 %**	**0.7 %**

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-14d2 WG1975362
Analysis started at: 9/26/2024 12:56:17 PM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	149.8102 ppm	0.0190 ppm	0.0097 ppm	0.7419 ppm	0.0100 ppm	22.7961 ppm
Concentration per Run 1	0.0019 ppm	149.9135 ppm	0.0153 ppm	0.0103 ppm	0.7438 ppm	0.0100 ppm	22.7968 ppm
Concentration per Run 2	0.0021 ppm	149.4539 ppm	0.0213 ppm	0.0093 ppm	0.7395 ppm	0.0100 ppm	22.6720 ppm
Concentration per Run 3	0.0016 ppm	150.0632 ppm	0.0204 ppm	0.0093 ppm	0.7424 ppm	0.0100 ppm	22.9194 ppm
Concentration RSD	12.9 %	0.2 %	17.0 %	5.8 %	0.3 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0411 ppm	0.1121 ppm	0.1272 ppm	180.6667 ppm	5.5969 ppm	0.1296 ppm
Concentration per Run 1	0.0020 ppm	0.0408 ppm	0.1116 ppm	0.1277 ppm	180.3942 ppm	5.6134 ppm	0.1297 ppm
Concentration per Run 2	0.0019 ppm	0.0418 ppm	0.1130 ppm	0.1272 ppm	180.3293 ppm	5.5933 ppm	0.1300 ppm
Concentration per Run 3	0.0018 ppm	0.0405 ppm	0.1117 ppm	0.1268 ppm	181.2765 ppm	5.5839 ppm	0.1293 ppm
Concentration RSD	4.8 %	1.7 %	0.7 %	0.3 %	0.3 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.0821 ppm	1.8580 ppm	0.0030 ppm	1.2989 ppm	0.0632 ppm	0.1095 ppm	-0.0048 ppm
Concentration per Run 1	24.0319 ppm	1.8652 ppm	0.0029 ppm	1.3017 ppm	0.0630 ppm	0.1091 ppm	-0.0033 ppm
Concentration per Run 2	24.1462 ppm	1.8501 ppm	0.0036 ppm	1.2979 ppm	0.0633 ppm	0.1098 ppm	-0.0026 ppm
Concentration per Run 3	24.0684 ppm	1.8587 ppm	0.0025 ppm	1.2969 ppm	0.0633 ppm	0.1094 ppm	-0.0085 ppm
Concentration RSD	0.2 %	0.4 %	18.8 %	0.2 %	0.3 %	0.3 %	68.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0056 ppm	6.6619 ppm	0.0170 ppm	0.0854 ppm	5.2437 ppm	0.0047 ppm	0.2387 ppm
Concentration per Run 1	0.0054 ppm	6.6729 ppm	0.0172 ppm	0.0853 ppm	5.2433 ppm	0.0064 ppm	0.2390 ppm
Concentration per Run 2	0.0079 ppm	6.6477 ppm	0.0167 ppm	0.0855 ppm	5.2766 ppm	0.0046 ppm	0.2380 ppm
Concentration per Run 3	0.0036 ppm	6.6651 ppm	0.0169 ppm	0.0855 ppm	5.2113 ppm	0.0031 ppm	0.2391 ppm
Concentration RSD	39.1 %	0.2 %	1.3 %	0.1 %	0.6 %	35.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7645 ppm	113.4010 %	112.6430 %	108.9775 %	**161.4019 %**	**162.1852 %**	**161.6009 %**
Concentration per Run 1	0.7647 ppm	114.3274 %	113.8083 %	109.3754 %	**162.5889 %**	**163.3504 %**	**162.0123 %**
Concentration per Run 2	0.7671 ppm	112.7941 %	112.9454 %	108.6448 %	**160.2646 %**	**162.5439 %**	**160.7075 %**
Concentration per Run 3	0.7616 ppm	113.0814 %	111.1753 %	108.9122 %	**161.3521 %**	**160.6614 %**	**162.0827 %**
Concentration RSD	0.4 %	0.7 %	1.2 %	0.3 %	**0.7 %**	**0.9 %**	**0.5 %**

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-12d2 WG1975362
Analysis started at: 9/26/2024 1:00:12 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	80.6213 ppm	0.0131 ppm	0.0062 ppm	0.3866 ppm	0.0045 ppm	16.7300 ppm
Concentration per Run 1	0.0003 ppm	81.2374 ppm	0.0132 ppm	0.0055 ppm	0.3902 ppm	0.0046 ppm	16.8566 ppm
Concentration per Run 2	0.0011 ppm	80.1464 ppm	0.0146 ppm	0.0060 ppm	0.3837 ppm	0.0044 ppm	16.6302 ppm
Concentration per Run 3	0.0007 ppm	80.4800 ppm	0.0117 ppm	0.0072 ppm	0.3860 ppm	0.0044 ppm	16.7032 ppm
Concentration RSD	60.0 %	0.7 %	11.0 %	13.8 %	0.8 %	2.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0141 ppm	0.0497 ppm	0.0365 ppm	51.8059 ppm	2.0173 ppm	0.0550 ppm
Concentration per Run 1	0.0014 ppm	0.0138 ppm	0.0492 ppm	0.0358 ppm	52.1630 ppm	2.0621 ppm	0.0561 ppm
Concentration per Run 2	0.0017 ppm	0.0146 ppm	0.0496 ppm	0.0369 ppm	51.3056 ppm	1.9973 ppm	0.0537 ppm
Concentration per Run 3	0.0013 ppm	0.0139 ppm	0.0502 ppm	0.0368 ppm	51.9490 ppm	1.9925 ppm	0.0551 ppm
Concentration RSD	11.4 %	3.0 %	0.9 %	1.7 %	0.9 %	1.9 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5879 ppm	0.3095 ppm	0.0012 ppm	0.6837 ppm	0.0316 ppm	0.0839 ppm	-0.0016 ppm
Concentration per Run 1	8.5075 ppm	0.3097 ppm	0.0013 ppm	0.6839 ppm	0.0311 ppm	0.0826 ppm	-0.0031 ppm
Concentration per Run 2	8.6395 ppm	0.3079 ppm	0.0014 ppm	0.6802 ppm	0.0317 ppm	0.0857 ppm	0.0002 ppm
Concentration per Run 3	8.6167 ppm	0.3109 ppm	0.0010 ppm	0.6869 ppm	0.0321 ppm	0.0835 ppm	-0.0018 ppm
Concentration RSD	0.8 %	0.5 %	17.3 %	0.5 %	1.6 %	1.9 %	106.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0058 ppm	6.3076 ppm	0.0095 ppm	0.0635 ppm	1.8901 ppm	0.0013 ppm	0.0791 ppm
Concentration per Run 1	0.0037 ppm	6.2349 ppm	0.0100 ppm	0.0639 ppm	1.8722 ppm	0.0015 ppm	0.0780 ppm
Concentration per Run 2	0.0067 ppm	6.3364 ppm	0.0098 ppm	0.0631 ppm	1.8977 ppm	0.0001 ppm	0.0799 ppm
Concentration per Run 3	0.0071 ppm	6.3516 ppm	0.0086 ppm	0.0634 ppm	1.9005 ppm	0.0023 ppm	0.0795 ppm
Concentration RSD	31.9 %	1.0 %	8.1 %	0.7 %	0.8 %	86.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2552 ppm	111.0526 %	108.9620 %	108.3693 %	147.8991 %	146.6367 %	148.9796 %
Concentration per Run 1	0.2536 ppm	112.4440 %	108.8006 %	107.4600 %	149.8163 %	147.4073 %	147.7940 %
Concentration per Run 2	0.2560 ppm	110.0791 %	108.9109 %	108.6651 %	146.8557 %	146.0568 %	149.5102 %
Concentration per Run 3	0.2559 ppm	110.6346 %	109.1745 %	108.9828 %	147.0253 %	146.4459 %	149.6347 %
Concentration RSD	0.5 %	1.1 %	0.2 %	0.7 %	1.1 %	0.5 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: xL2453602-17d20 WG1974094
Analysis started at: 9/26/2024 1:04:06 PM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0034 ppm	7.1090 ppm	0.0098 ppm	0.0019 ppm	0.0450 ppm	0.0003 ppm	1.0026 ppm
Concentration per Run 1	0.0034 ppm	7.1244 ppm	0.0097 ppm	0.0021 ppm	0.0450 ppm	0.0003 ppm	1.0027 ppm
Concentration per Run 2	0.0035 ppm	7.1313 ppm	0.0076 ppm	0.0012 ppm	0.0452 ppm	0.0003 ppm	0.9991 ppm
Concentration per Run 3	0.0033 ppm	7.0712 ppm	0.0120 ppm	0.0023 ppm	0.0450 ppm	0.0003 ppm	1.0059 ppm
Concentration RSD	2.6 %	0.5 %	22.3 %	31.2 %	0.3 %	8.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0062 ppm	0.0155 ppm	75.8199 ppm	12.4505 ppm	0.7790 ppm	0.0085 ppm
Concentration per Run 1	0.0001 ppm	0.0053 ppm	0.0161 ppm	75.8367 ppm	12.4958 ppm	0.7950 ppm	0.0097 ppm
Concentration per Run 2	0.0001 ppm	0.0062 ppm	0.0150 ppm	75.6343 ppm	12.4726 ppm	0.7767 ppm	0.0070 ppm
Concentration per Run 3	0.0002 ppm	0.0071 ppm	0.0155 ppm	75.9888 ppm	12.3829 ppm	0.7652 ppm	0.0087 ppm
Concentration RSD	69.3 %	14.3 %	3.5 %	0.2 %	0.5 %	1.9 %	16.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.4218 ppm	0.4280 ppm	0.0004 ppm	0.0745 ppm	0.0137 ppm	4.0900 ppm	0.0349 ppm
Concentration per Run 1	2.4338 ppm	0.4300 ppm	-0.0001 ppm	0.0771 ppm	0.0132 ppm	4.1561 ppm	0.0345 ppm
Concentration per Run 2	2.4135 ppm	0.4274 ppm	0.0011 ppm	0.0730 ppm	0.0137 ppm	4.1637 ppm	0.0359 ppm
Concentration per Run 3	2.4183 ppm	0.4265 ppm	0.0002 ppm	0.0732 ppm	0.0140 ppm	3.9503 ppm	0.0345 ppm
Concentration RSD	0.4 %	0.4 %	168.6 %	3.1 %	3.0 %	3.0 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0169 ppm	0.3536 ppm	8.4626 ppm	0.0079 ppm	0.4860 ppm	0.0005 ppm	0.0243 ppm
Concentration per Run 1	0.0149 ppm	0.3605 ppm	8.4691 ppm	0.0081 ppm	0.4888 ppm	0.0012 ppm	0.0244 ppm
Concentration per Run 2	0.0171 ppm	0.3492 ppm	8.4480 ppm	0.0079 ppm	0.4846 ppm	-0.0005 ppm	0.0244 ppm
Concentration per Run 3	0.0187 ppm	0.3511 ppm	8.4707 ppm	0.0077 ppm	0.4847 ppm	0.0007 ppm	0.0242 ppm
Concentration RSD	11.1 %	1.7 %	0.1 %	2.6 %	0.5 %	182.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0876 ppm	109.9871 %	107.0419 %	110.8569 %	109.4376 %	106.6145 %	94.1403 %
Concentration per Run 1	0.0877 ppm	110.5021 %	107.2709 %	109.5398 %	109.5024 %	107.2114 %	92.8394 %
Concentration per Run 2	0.0873 ppm	109.7955 %	107.2484 %	108.8484 %	109.3896 %	106.7274 %	92.3869 %
Concentration per Run 3	0.0878 ppm	109.6636 %	106.6064 %	114.1825 %	109.4209 %	105.9047 %	97.1947 %
Concentration RSD	0.3 %	0.4 %	0.4 %	2.6 %	0.1 %	0.6 %	2.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 1:08:00 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4947 ppm	0.4729 ppm	0.4749 ppm	0.4853 ppm	0.4891 ppm	0.5023 ppm	0.4829 ppm
Concentration per Run 1	0.4915 ppm	0.4675 ppm	0.4701 ppm	0.4822 ppm	0.4884 ppm	0.5012 ppm	0.4836 ppm
Concentration per Run 2	0.4964 ppm	0.4819 ppm	0.4785 ppm	0.4873 ppm	0.4882 ppm	0.5026 ppm	0.4829 ppm
Concentration per Run 3	0.4962 ppm	0.4693 ppm	0.4760 ppm	0.4864 ppm	0.4906 ppm	0.5030 ppm	0.4822 ppm
Recovery Percentage 1	98.939 %	94.581 %	94.971 %	97.060 %	97.812 %	100.451 %	96.578 %
Concentration RSD	0.6 %	1.7 %	0.9 %	0.6 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4899 ppm	0.4987 ppm	0.4802 ppm	0.4824 ppm	0.4922 ppm	5.1231 ppm	0.4800 ppm
Concentration per Run 1	0.4887 ppm	0.4956 ppm	0.4784 ppm	0.4807 ppm	0.4906 ppm	5.1176 ppm	0.4804 ppm
Concentration per Run 2	0.4960 ppm	0.5009 ppm	0.4804 ppm	0.4806 ppm	0.4918 ppm	5.1183 ppm	0.4777 ppm
Concentration per Run 3	0.4851 ppm	0.4997 ppm	0.4819 ppm	0.4860 ppm	0.4941 ppm	5.1335 ppm	0.4818 ppm
Recovery Percentage 1	97.981 %	99.744 %	96.046 %	96.487 %	98.432 %	102.462 %	95.997 %
Concentration RSD	1.1 %	0.5 %	0.4 %	0.6 %	0.4 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4761 ppm	0.4800 ppm	0.4771 ppm	9.8176 ppm	0.4957 ppm	0.4928 ppm	0.4964 ppm
Concentration per Run 1	0.4749 ppm	0.4794 ppm	0.4738 ppm	9.8505 ppm	0.4958 ppm	0.4890 ppm	0.4962 ppm
Concentration per Run 2	0.4789 ppm	0.4791 ppm	0.4765 ppm	9.8019 ppm	0.4931 ppm	0.4954 ppm	0.4955 ppm
Concentration per Run 3	0.4746 ppm	0.4815 ppm	0.4811 ppm	9.8004 ppm	0.4982 ppm	0.4941 ppm	0.4974 ppm
Recovery Percentage 1	95.224 %	96.003 %	95.427 %	98.176 %	99.138 %	98.564 %	99.280 %
Concentration RSD	0.5 %	0.3 %	0.8 %	0.3 %	0.5 %	0.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4914 ppm	5.2210 ppm	0.4829 ppm	0.4629 ppm	0.4875 ppm	0.4888 ppm	0.4781 ppm
Concentration per Run 1	0.4867 ppm	5.1845 ppm	0.4859 ppm	0.4625 ppm	0.4853 ppm	0.4846 ppm	0.4776 ppm
Concentration per Run 2	0.4935 ppm	5.2526 ppm	0.4806 ppm	0.4619 ppm	0.4891 ppm	0.4931 ppm	0.4789 ppm
Concentration per Run 3	0.4939 ppm	5.2261 ppm	0.4821 ppm	0.4643 ppm	0.4881 ppm	0.4885 ppm	0.4778 ppm
Recovery Percentage 1	98.272 %	99.448 %	96.573 %	92.577 %	97.500 %	97.751 %	95.619 %
Concentration RSD	0.8 %	0.7 %	0.6 %	0.3 %	0.4 %	0.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4970 ppm	110.4245 %	107.4630 %	109.6009 %	109.1164 %	106.1917 %	109.4413 %
Concentration per Run 1	0.4963 ppm	111.3202 %	107.9390 %	110.2074 %	110.1552 %	106.9775 %	110.0767 %
Concentration per Run 2	0.4956 ppm	111.0761 %	107.3271 %	108.5517 %	109.6653 %	105.9710 %	108.6952 %
Concentration per Run 3	0.4992 ppm	108.8772 %	107.1228 %	110.0437 %	107.5288 %	105.6266 %	109.5519 %
Recovery Percentage 1	99.405 %						
Concentration RSD	0.4 %	1.2 %	0.4 %	0.8 %	1.3 %	0.7 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 1:11:54 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0067 ppm	0.0012 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 1	0.0003 ppm	-0.0043 ppm	0.0030 ppm	0.0033 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 2	0.0002 ppm	-0.0009 ppm	-0.0005 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	-0.0004 ppm	-0.0148 ppm	0.0011 ppm	0.0039 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm
Recovery Percentage 1	0.269 %	-6.661 %	24.261 %	9.992 %	0.952 %	1.118 %	2.075 %
Concentration RSD	2,056.0 %	108.8 %	144.9 %	36.8 %	27.9 %	42.8 %	32.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0123 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0172 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0122 ppm	-0.0008 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0008 ppm	0.0076 ppm	0.0009 ppm
Recovery Percentage 1	0.235 %	2.430 %	0.512 %	-0.110 %	2.211 %	0.493 %	-2.106 %
Concentration RSD	1,185.9 %	70.5 %	298.6 %	5,161.1 %	28.1 %	39.1 %	866.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	-0.0001 ppm	0.0009 ppm	-0.0146 ppm	0.0005 ppm	0.0008 ppm	0.0027 ppm
Concentration per Run 1	0.0015 ppm	-0.0001 ppm	0.0011 ppm	-0.0136 ppm	0.0002 ppm	0.0011 ppm	0.0013 ppm
Concentration per Run 2	0.0023 ppm	-0.0003 ppm	0.0012 ppm	-0.0190 ppm	0.0004 ppm	0.0005 ppm	0.0055 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	0.0005 ppm	-0.0113 ppm	0.0010 ppm	0.0009 ppm	0.0012 ppm
Recovery Percentage 1	0.877 %	-1.155 %	1.847 %	-0.732 %	2.078 %	8.447 %	5.345 %
Concentration RSD	202.1 %	115.1 %	37.8 %	27.1 %	81.1 %	35.9 %	90.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	-0.0021 ppm	0.0016 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.0090 ppm	-0.0035 ppm	0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0061 ppm	-0.0015 ppm	0.0015 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 3	0.0005 ppm	-0.0012 ppm	0.0011 ppm	0.0001 ppm	-0.0002 ppm	0.0023 ppm	0.0001 ppm
Recovery Percentage 1	51.870 %	-0.415 %	3.284 %	0.406 %	-0.674 %	5.881 %	1.447 %
Concentration RSD	83.5 %	61.8 %	37.8 %	240.8 %	294.6 %	100.4 %	61.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	108.0835 %	104.4424 %	108.0767 %	108.9482 %	104.5360 %	108.8739 %
Concentration per Run 1	0.0001 ppm	107.8906 %	103.9143 %	108.2885 %	109.1159 %	104.3595 %	109.2612 %
Concentration per Run 2	-0.0001 ppm	108.2278 %	104.0816 %	108.4141 %	108.9455 %	104.0125 %	108.9175 %
Concentration per Run 3	0.0003 ppm	108.1321 %	105.3314 %	107.5276 %	108.7832 %	105.2362 %	108.4431 %
Recovery Percentage 1	2.478 %						
Concentration RSD	153.5 %	0.2 %	0.7 %	0.4 %	0.2 %	0.6 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453602-19d10 WG1974094
Analysis started at: 9/26/2024 1:18:54 PM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0077 ppm	5.0884 ppm	0.0167 ppm	0.0058 ppm	0.0521 ppm	0.0003 ppm	65.7346 ppm
Concentration per Run 1	0.0076 ppm	5.1048 ppm	0.0156 ppm	0.0054 ppm	0.0524 ppm	0.0003 ppm	65.7458 ppm
Concentration per Run 2	0.0076 ppm	5.0705 ppm	0.0164 ppm	0.0083 ppm	0.0522 ppm	0.0002 ppm	65.7763 ppm
Concentration per Run 3	0.0080 ppm	5.0899 ppm	0.0182 ppm	0.0036 ppm	0.0519 ppm	0.0003 ppm	65.6817 ppm
Concentration RSD	2.5 %	0.3 %	8.0 %	41.6 %	0.4 %	12.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0051 ppm	0.0083 ppm	0.2442 ppm	10.0971 ppm	2.9072 ppm	0.0277 ppm
Concentration per Run 1	0.0010 ppm	0.0058 ppm	0.0085 ppm	0.2441 ppm	10.1161 ppm	2.9185 ppm	0.0285 ppm
Concentration per Run 2	0.0014 ppm	0.0044 ppm	0.0083 ppm	0.2437 ppm	10.0800 ppm	2.8865 ppm	0.0274 ppm
Concentration per Run 3	0.0011 ppm	0.0050 ppm	0.0082 ppm	0.2447 ppm	10.0952 ppm	2.9166 ppm	0.0271 ppm
Concentration RSD	14.4 %	14.2 %	1.8 %	0.2 %	0.2 %	0.6 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1439 ppm	0.1622 ppm	0.0000 ppm	1.1841 ppm	0.0082 ppm	32.3436 ppm	0.4257 ppm
Concentration per Run 1	3.1222 ppm	0.1623 ppm	-0.0003 ppm	1.1820 ppm	0.0080 ppm	32.1692 ppm	0.4200 ppm
Concentration per Run 2	3.1485 ppm	0.1624 ppm	0.0005 ppm	1.1833 ppm	0.0084 ppm	32.3662 ppm	0.4245 ppm
Concentration per Run 3	3.1611 ppm	0.1619 ppm	-0.0001 ppm	1.1869 ppm	0.0081 ppm	32.4952 ppm	0.4327 ppm
Concentration RSD	0.6 %	0.2 %	1,121.7 %	0.2 %	2.4 %	0.5 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	1.9204 ppm	1.2077 ppm	0.8148 ppm	0.2827 ppm	0.0008 ppm	0.0268 ppm
Concentration per Run 1	0.0066 ppm	1.9211 ppm	1.2028 ppm	0.8198 ppm	0.2811 ppm	0.0000 ppm	0.0266 ppm
Concentration per Run 2	0.0005 ppm	1.9056 ppm	1.2006 ppm	0.8119 ppm	0.2827 ppm	-0.0002 ppm	0.0267 ppm
Concentration per Run 3	0.0020 ppm	1.9345 ppm	1.2198 ppm	0.8127 ppm	0.2844 ppm	0.0026 ppm	0.0270 ppm
Concentration RSD	105.2 %	0.8 %	0.9 %	0.5 %	0.6 %	196.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0801 ppm	107.0272 %	106.9242 %	103.7830 %	104.6021 %	107.1925 %	105.3980 %
Concentration per Run 1	0.0796 ppm	107.0204 %	106.2539 %	103.9033 %	104.2570 %	106.6830 %	105.4946 %
Concentration per Run 2	0.0798 ppm	107.4927 %	107.5954 %	103.4557 %	105.0256 %	107.7732 %	104.7000 %
Concentration per Run 3	0.0808 ppm	106.5683 %	106.9232 %	103.9900 %	104.5237 %	107.1213 %	105.9995 %
Concentration RSD	0.9 %	0.4 %	0.6 %	0.3 %	0.4 %	0.5 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453602-17d200 WG1974094
Analysis started at: 9/26/2024 1:23:01 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.7223 ppm	-0.0003 ppm	0.0026 ppm	0.0047 ppm	0.0001 ppm	0.1023 ppm
Concentration per Run 1	0.0004 ppm	0.7181 ppm	0.0002 ppm	0.0025 ppm	0.0047 ppm	0.0001 ppm	0.1051 ppm
Concentration per Run 2	0.0002 ppm	0.7251 ppm	-0.0011 ppm	0.0028 ppm	0.0047 ppm	0.0001 ppm	0.1000 ppm
Concentration per Run 3	0.0004 ppm	0.7238 ppm	0.0000 ppm	0.0023 ppm	0.0047 ppm	0.0001 ppm	0.1019 ppm
Concentration RSD	44.7 %	0.5 %	235.0 %	10.4 %	0.9 %	41.5 %	2.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0018 ppm	8.4223 ppm	1.2610 ppm	0.0917 ppm	0.0021 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0018 ppm	8.4543 ppm	1.2654 ppm	0.0681 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0017 ppm	8.4216 ppm	1.2584 ppm	0.1272 ppm	0.0029 ppm
Concentration per Run 3	-0.0001 ppm	0.0011 ppm	0.0018 ppm	8.3911 ppm	1.2592 ppm	0.0797 ppm	0.0029 ppm
Concentration RSD	5,202.3 %	37.5 %	5.2 %	0.4 %	0.3 %	34.2 %	60.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2539 ppm	0.0432 ppm	0.0002 ppm	-0.0041 ppm	0.0020 ppm	0.4267 ppm	0.0052 ppm
Concentration per Run 1	0.2577 ppm	0.0434 ppm	0.0002 ppm	0.0003 ppm	0.0021 ppm	0.4286 ppm	0.0047 ppm
Concentration per Run 2	0.2510 ppm	0.0431 ppm	0.0004 ppm	-0.0083 ppm	0.0014 ppm	0.4271 ppm	0.0084 ppm
Concentration per Run 3	0.2529 ppm	0.0432 ppm	0.0000 ppm	-0.0043 ppm	0.0025 ppm	0.4245 ppm	0.0025 ppm
Concentration RSD	1.4 %	0.4 %	84.7 %	105.2 %	28.9 %	0.5 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.0359 ppm	0.8779 ppm	0.0009 ppm	0.0493 ppm	-0.0006 ppm	0.0025 ppm
Concentration per Run 1	0.0030 ppm	0.0367 ppm	0.8842 ppm	0.0011 ppm	0.0498 ppm	-0.0028 ppm	0.0029 ppm
Concentration per Run 2	0.0025 ppm	0.0359 ppm	0.8680 ppm	0.0007 ppm	0.0488 ppm	0.0019 ppm	0.0022 ppm
Concentration per Run 3	0.0008 ppm	0.0349 ppm	0.8813 ppm	0.0009 ppm	0.0492 ppm	-0.0009 ppm	0.0024 ppm
Concentration RSD	54.5 %	2.5 %	1.0 %	19.6 %	1.1 %	410.9 %	14.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0089 ppm	109.0372 %	105.2020 %	109.2229 %	108.6296 %	104.7754 %	107.1187 %
Concentration per Run 1	0.0089 ppm	109.0662 %	105.4275 %	109.3518 %	108.5931 %	105.2234 %	107.3152 %
Concentration per Run 2	0.0090 ppm	109.4073 %	104.8527 %	109.2620 %	109.0502 %	104.1643 %	106.8755 %
Concentration per Run 3	0.0089 ppm	108.6381 %	105.3259 %	109.0549 %	108.2456 %	104.9386 %	107.1653 %
Concentration RSD	0.6 %	0.4 %	0.3 %	0.1 %	0.4 %	0.5 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 1:28:26 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5007 ppm	0.4701 ppm	0.4736 ppm	0.4877 ppm	0.4903 ppm	0.5039 ppm	0.4876 ppm
Concentration per Run 1	0.5006 ppm	0.4762 ppm	0.4790 ppm	0.4883 ppm	0.4923 ppm	0.5037 ppm	0.4895 ppm
Concentration per Run 2	0.4999 ppm	0.4705 ppm	0.4693 ppm	0.4838 ppm	0.4883 ppm	0.5051 ppm	0.4855 ppm
Concentration per Run 3	0.5017 ppm	0.4637 ppm	0.4724 ppm	0.4912 ppm	0.4903 ppm	0.5028 ppm	0.4879 ppm
Recovery Percentage 1	100.144 %	94.024 %	94.718 %	97.549 %	98.063 %	100.776 %	97.528 %
Concentration RSD	0.2 %	1.3 %	1.0 %	0.8 %	0.4 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4994 ppm	0.5043 ppm	0.4837 ppm	0.4836 ppm	0.4958 ppm	5.1284 ppm	0.4838 ppm
Concentration per Run 1	0.5035 ppm	0.5061 ppm	0.4858 ppm	0.4835 ppm	0.4978 ppm	5.1408 ppm	0.4868 ppm
Concentration per Run 2	0.4943 ppm	0.5010 ppm	0.4836 ppm	0.4822 ppm	0.4957 ppm	5.1600 ppm	0.4840 ppm
Concentration per Run 3	0.5006 ppm	0.5059 ppm	0.4819 ppm	0.4851 ppm	0.4939 ppm	5.0843 ppm	0.4806 ppm
Recovery Percentage 1	99.890 %	100.869 %	96.748 %	96.722 %	99.161 %	102.567 %	96.758 %
Concentration RSD	0.9 %	0.6 %	0.4 %	0.3 %	0.4 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4807 ppm	0.4824 ppm	0.4794 ppm	9.8409 ppm	0.4994 ppm	0.4925 ppm	0.5005 ppm
Concentration per Run 1	0.4806 ppm	0.4821 ppm	0.4768 ppm	9.8501 ppm	0.5008 ppm	0.4911 ppm	0.5006 ppm
Concentration per Run 2	0.4814 ppm	0.4833 ppm	0.4777 ppm	9.8453 ppm	0.4986 ppm	0.4931 ppm	0.4946 ppm
Concentration per Run 3	0.4801 ppm	0.4818 ppm	0.4837 ppm	9.8273 ppm	0.4989 ppm	0.4932 ppm	0.5064 ppm
Recovery Percentage 1	96.137 %	96.484 %	95.883 %	98.409 %	99.890 %	98.496 %	100.105 %
Concentration RSD	0.1 %	0.2 %	0.8 %	0.1 %	0.2 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4910 ppm	5.2741 ppm	0.4726 ppm	0.4648 ppm	0.4917 ppm	0.4889 ppm	0.4825 ppm
Concentration per Run 1	0.4911 ppm	5.2577 ppm	0.4727 ppm	0.4661 ppm	0.4923 ppm	0.4865 ppm	0.4821 ppm
Concentration per Run 2	0.4894 ppm	5.2753 ppm	0.4724 ppm	0.4635 ppm	0.4915 ppm	0.4886 ppm	0.4824 ppm
Concentration per Run 3	0.4925 ppm	5.2894 ppm	0.4729 ppm	0.4647 ppm	0.4912 ppm	0.4916 ppm	0.4831 ppm
Recovery Percentage 1	98.201 %	100.459 %	94.530 %	92.959 %	98.333 %	97.775 %	96.504 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.3 %	0.1 %	0.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5022 ppm	109.1811 %	107.5446 %	109.0343 %	107.9756 %	106.5391 %	108.6866 %
Concentration per Run 1	0.5023 ppm	108.7760 %	108.0805 %	109.5976 %	107.3464 %	107.0317 %	109.4397 %
Concentration per Run 2	0.5016 ppm	109.6652 %	106.4429 %	108.7036 %	108.5531 %	105.3977 %	107.9198 %
Concentration per Run 3	0.5027 ppm	109.1022 %	108.1104 %	108.8017 %	108.0274 %	107.1879 %	108.7003 %
Recovery Percentage 1	100.442 %						
Concentration RSD	0.1 %	0.4 %	0.9 %	0.4 %	0.6 %	0.9 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 1:32:23 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0050 ppm	-0.0012 ppm	0.0006 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0003 ppm	0.0124 ppm	-0.0011 ppm	0.0015 ppm	0.0003 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0023 ppm	0.0001 ppm	0.0001 ppm	-0.0045 ppm
Concentration per Run 3	-0.0003 ppm	0.0031 ppm	-0.0025 ppm	-0.0019 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	-0.721 %	5.002 %	-24.691 %	2.032 %	2.036 %	1.870 %	-0.315 %
Concentration RSD	597.2 %	133.1 %	96.0 %	366.5 %	55.2 %	44.3 %	1,245.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0211 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0001 ppm	0.0018 ppm	-0.0109 ppm	-0.0010 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0004 ppm	0.0001 ppm	0.0013 ppm	0.0169 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm	0.0574 ppm	-0.0001 ppm
Recovery Percentage 1	0.010 %	3.353 %	0.387 %	0.722 %	3.482 %	0.845 %	-19.594 %
Concentration RSD	29,206.8 %	27.3 %	1,087.1 %	75.5 %	24.1 %	162.5 %	87.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	-0.0002 ppm	0.0007 ppm	-0.0134 ppm	-0.0005 ppm	0.0016 ppm	0.0036 ppm
Concentration per Run 1	0.0010 ppm	-0.0002 ppm	0.0004 ppm	-0.0141 ppm	-0.0002 ppm	0.0020 ppm	-0.0003 ppm
Concentration per Run 2	0.0024 ppm	-0.0001 ppm	0.0009 ppm	-0.0144 ppm	-0.0003 ppm	0.0020 ppm	0.0071 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	-0.0119 ppm	-0.0009 ppm	0.0008 ppm	0.0040 ppm
Recovery Percentage 1	0.999 %	-1.558 %	1.354 %	-0.672 %	-1.860 %	15.939 %	7.186 %
Concentration RSD	134.8 %	46.7 %	32.0 %	10.2 %	75.0 %	43.7 %	103.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	-0.0019 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	-0.0001 ppm	-0.0011 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0044 ppm	-0.0041 ppm	-0.0006 ppm	0.0002 ppm	0.0003 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0016 ppm	-0.0015 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm	-0.0003 ppm
Recovery Percentage 1	18.785 %	-0.382 %	-1.720 %	0.690 %	0.307 %	0.794 %	-0.714 %
Concentration RSD	130.0 %	107.5 %	32.8 %	138.1 %	696.4 %	746.9 %	249.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	106.2587 %	102.0003 %	107.5556 %	107.6056 %	102.9229 %	108.3013 %
Concentration per Run 1	0.0003 ppm	106.9435 %	99.9932 %	107.3255 %	108.7727 %	101.5510 %	108.2351 %
Concentration per Run 2	-0.0003 ppm	106.3182 %	102.1070 %	107.7175 %	107.5164 %	102.8254 %	108.6581 %
Concentration per Run 3	0.0001 ppm	105.5143 %	103.9006 %	107.6237 %	106.5278 %	104.3923 %	108.0108 %
Recovery Percentage 1	1.083 %						
Concentration RSD	527.8 %	0.7 %	1.9 %	0.2 %	1.0 %	1.4 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-08d2 WG1975918
Analysis started at: 9/26/2024 1:39:13 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	147.9812 ppm	-0.0026 ppm	0.0023 ppm	1.3316 ppm	0.0024 ppm	8.9264 ppm
Concentration per Run 1	0.0007 ppm	148.3920 ppm	-0.0038 ppm	0.0029 ppm	1.3387 ppm	0.0023 ppm	8.9814 ppm
Concentration per Run 2	0.0015 ppm	147.9287 ppm	-0.0032 ppm	0.0019 ppm	1.3288 ppm	0.0024 ppm	8.9163 ppm
Concentration per Run 3	0.0016 ppm	147.6230 ppm	-0.0007 ppm	0.0021 ppm	1.3275 ppm	0.0024 ppm	8.8814 ppm
Concentration RSD	39.7 %	0.3 %	63.9 %	24.1 %	0.5 %	1.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.1052 ppm	0.3212 ppm	0.2176 ppm	283.1105 ppm	110.0863 ppm	0.1685 ppm
Concentration per Run 1	0.0004 ppm	0.1037 ppm	0.3208 ppm	0.2152 ppm	283.3758 ppm	110.7203 ppm	0.1693 ppm
Concentration per Run 2	0.0007 ppm	0.1068 ppm	0.3223 ppm	0.2194 ppm	283.6282 ppm	110.5616 ppm	0.1699 ppm
Concentration per Run 3	0.0002 ppm	0.1050 ppm	0.3204 ppm	0.2181 ppm	282.3274 ppm	108.9772 ppm	0.1663 ppm
Concentration RSD	57.9 %	1.4 %	0.3 %	1.0 %	0.2 %	0.9 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	69.8220 ppm	4.5655 ppm	0.0011 ppm	2.1613 ppm	0.2681 ppm	0.0275 ppm	-0.0059 ppm
Concentration per Run 1	69.7925 ppm	4.5803 ppm	0.0006 ppm	2.1719 ppm	0.2689 ppm	0.0295 ppm	-0.0094 ppm
Concentration per Run 2	69.8646 ppm	4.5721 ppm	0.0017 ppm	2.1684 ppm	0.2690 ppm	0.0279 ppm	-0.0049 ppm
Concentration per Run 3	69.8089 ppm	4.5440 ppm	0.0008 ppm	2.1437 ppm	0.2665 ppm	0.0253 ppm	-0.0036 ppm
Concentration RSD	0.1 %	0.4 %	55.0 %	0.7 %	0.5 %	7.7 %	51.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	0.9678 ppm	0.0252 ppm	0.0917 ppm	20.5542 ppm	0.0112 ppm	0.4294 ppm
Concentration per Run 1	0.0004 ppm	0.9535 ppm	0.0249 ppm	0.0924 ppm	20.5282 ppm	0.0127 ppm	0.4284 ppm
Concentration per Run 2	0.0058 ppm	0.9908 ppm	0.0252 ppm	0.0916 ppm	20.6007 ppm	0.0099 ppm	0.4293 ppm
Concentration per Run 3	0.0010 ppm	0.9590 ppm	0.0253 ppm	0.0911 ppm	20.5336 ppm	0.0111 ppm	0.4304 ppm
Concentration RSD	125.3 %	2.1 %	0.8 %	0.8 %	0.2 %	12.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6027 ppm	117.0965 %	123.7137 %	119.9985 %	112.4686 %	119.0336 %	113.5652 %
Concentration per Run 1	0.6073 ppm	117.6812 %	123.6147 %	119.5794 %	112.6708 %	119.0857 %	112.8621 %
Concentration per Run 2	0.6031 ppm	117.0895 %	123.3587 %	120.3344 %	112.7359 %	118.6972 %	113.9336 %
Concentration per Run 3	0.5978 ppm	116.5189 %	124.1677 %	120.0819 %	111.9991 %	119.3180 %	113.8999 %
Concentration RSD	0.8 %	0.5 %	0.3 %	0.3 %	0.4 %	0.3 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-09d2 WG1975918
Analysis started at: 9/26/2024 1:43:23 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0031 ppm	103.8774 ppm	0.0272 ppm	0.0361 ppm	1.4961 ppm	0.0040 ppm	125.2137 ppm
Concentration per Run 1	0.0033 ppm	103.7040 ppm	0.0260 ppm	0.0374 ppm	1.4951 ppm	0.0040 ppm	125.2208 ppm
Concentration per Run 2	0.0031 ppm	104.2453 ppm	0.0281 ppm	0.0340 ppm	1.5009 ppm	0.0041 ppm	125.7388 ppm
Concentration per Run 3	0.0029 ppm	103.6829 ppm	0.0273 ppm	0.0369 ppm	1.4924 ppm	0.0039 ppm	124.6813 ppm
Concentration RSD	6.8 %	0.3 %	3.9 %	5.1 %	0.3 %	2.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0628 ppm	0.0836 ppm	0.3593 ppm	0.9058 ppm	252.8430 ppm	46.7416 ppm	0.1225 ppm
Concentration per Run 1	0.0636 ppm	0.0837 ppm	0.3599 ppm	0.9088 ppm	252.8554 ppm	46.8221 ppm	0.1225 ppm
Concentration per Run 2	0.0625 ppm	0.0834 ppm	0.3596 ppm	0.9070 ppm	253.0484 ppm	46.7309 ppm	0.1208 ppm
Concentration per Run 3	0.0624 ppm	0.0837 ppm	0.3584 ppm	0.9017 ppm	252.6251 ppm	46.6717 ppm	0.1241 ppm
Concentration RSD	1.1 %	0.2 %	0.2 %	0.4 %	0.1 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.9743 ppm	5.6855 ppm	0.0113 ppm	1.2306 ppm	0.3176 ppm	1.1482 ppm	0.0110 ppm
Concentration per Run 1	56.2844 ppm	5.6816 ppm	0.0112 ppm	1.2308 ppm	0.3182 ppm	1.1515 ppm	0.0087 ppm
Concentration per Run 2	55.8551 ppm	5.7003 ppm	0.0106 ppm	1.2367 ppm	0.3173 ppm	1.1492 ppm	0.0130 ppm
Concentration per Run 3	55.7833 ppm	5.6745 ppm	0.0122 ppm	1.2242 ppm	0.3173 ppm	1.1440 ppm	0.0114 ppm
Concentration RSD	0.5 %	0.2 %	7.5 %	0.5 %	0.2 %	0.3 %	19.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	6.0470 ppm	0.0814 ppm	0.6693 ppm	11.3258 ppm	0.0092 ppm	0.3153 ppm
Concentration per Run 1	0.0057 ppm	6.1137 ppm	0.0810 ppm	0.6697 ppm	11.3915 ppm	0.0098 ppm	0.3170 ppm
Concentration per Run 2	0.0019 ppm	6.0141 ppm	0.0819 ppm	0.6710 ppm	11.3181 ppm	0.0084 ppm	0.3144 ppm
Concentration per Run 3	0.0041 ppm	6.0131 ppm	0.0814 ppm	0.6671 ppm	11.2679 ppm	0.0095 ppm	0.3144 ppm
Concentration RSD	48.3 %	1.0 %	0.5 %	0.3 %	0.5 %	7.9 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.9831 ppm	115.3927 %	119.6420 %	111.4186 %	122.4047 %	127.3035 %	122.0316 %
Concentration per Run 1	3.9990 ppm	115.6095 %	120.5256 %	110.5123 %	122.5720 %	127.9667 %	120.9458 %
Concentration per Run 2	3.9832 ppm	114.9749 %	118.8947 %	111.5827 %	121.8434 %	127.0012 %	122.4997 %
Concentration per Run 3	3.9671 ppm	115.5936 %	119.5057 %	112.1609 %	122.7987 %	126.9426 %	122.6493 %
Concentration RSD	0.4 %	0.3 %	0.7 %	0.8 %	0.4 %	0.5 %	0.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-10d2 WG1975918
Analysis started at: 9/26/2024 1:47:17 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	165.2377 ppm	-0.0023 ppm	0.0027 ppm	2.4354 ppm	0.0041 ppm	21.5645 ppm
Concentration per Run 1	0.0006 ppm	164.9260 ppm	-0.0023 ppm	0.0036 ppm	2.4367 ppm	0.0040 ppm	21.5020 ppm
Concentration per Run 2	0.0003 ppm	164.8576 ppm	-0.0032 ppm	0.0033 ppm	2.4230 ppm	0.0040 ppm	21.4334 ppm
Concentration per Run 3	0.0008 ppm	165.9295 ppm	-0.0015 ppm	0.0014 ppm	2.4464 ppm	0.0042 ppm	21.7580 ppm
Concentration RSD	45.9 %	0.4 %	36.3 %	42.4 %	0.5 %	2.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.1276 ppm	0.7702 ppm	0.1249 ppm	321.5656 ppm	119.5802 ppm	0.1788 ppm
Concentration per Run 1	0.0005 ppm	0.1297 ppm	0.7679 ppm	0.1259 ppm	320.8973 ppm	119.0933 ppm	0.1794 ppm
Concentration per Run 2	0.0003 ppm	0.1246 ppm	0.7761 ppm	0.1248 ppm	320.3203 ppm	119.1627 ppm	0.1783 ppm
Concentration per Run 3	0.0001 ppm	0.1287 ppm	0.7667 ppm	0.1241 ppm	323.4793 ppm	120.4846 ppm	0.1786 ppm
Concentration RSD	62.5 %	2.1 %	0.7 %	0.7 %	0.5 %	0.7 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	94.2957 ppm	3.1394 ppm	-0.0018 ppm	1.0898 ppm	0.5625 ppm	0.1484 ppm	-0.0071 ppm
Concentration per Run 1	94.3459 ppm	3.1499 ppm	-0.0017 ppm	1.0864 ppm	0.5592 ppm	0.1477 ppm	-0.0088 ppm
Concentration per Run 2	94.4675 ppm	3.1159 ppm	-0.0024 ppm	1.0892 ppm	0.5660 ppm	0.1502 ppm	-0.0074 ppm
Concentration per Run 3	94.0737 ppm	3.1525 ppm	-0.0012 ppm	1.0938 ppm	0.5625 ppm	0.1472 ppm	-0.0050 ppm
Concentration RSD	0.2 %	0.7 %	32.9 %	0.3 %	0.6 %	1.1 %	27.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.8259 ppm	0.0233 ppm	0.1019 ppm	22.3159 ppm	0.0151 ppm	0.6006 ppm
Concentration per Run 1	-0.0031 ppm	0.8342 ppm	0.0241 ppm	0.1018 ppm	22.3090 ppm	0.0181 ppm	0.5996 ppm
Concentration per Run 2	0.0036 ppm	0.8075 ppm	0.0245 ppm	0.1015 ppm	22.4112 ppm	0.0120 ppm	0.5997 ppm
Concentration per Run 3	0.0021 ppm	0.8361 ppm	0.0212 ppm	0.1026 ppm	22.2275 ppm	0.0152 ppm	0.6024 ppm
Concentration RSD	405.3 %	1.9 %	7.7 %	0.6 %	0.4 %	20.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6711 ppm	126.0410 %	129.1603 %	125.8619 %	120.7814 %	124.2583 %	119.4745 %
Concentration per Run 1	0.6676 ppm	126.8438 %	130.1813 %	126.0221 %	121.4745 %	124.9173 %	119.3019 %
Concentration per Run 2	0.6741 ppm	124.7518 %	129.7177 %	125.7717 %	119.5691 %	124.3728 %	119.6967 %
Concentration per Run 3	0.6716 ppm	126.5273 %	127.5819 %	125.7921 %	121.3007 %	123.4849 %	119.4247 %
Concentration RSD	0.5 %	0.9 %	1.1 %	0.1 %	0.9 %	0.6 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454097-04 WG1976490
Analysis started at: 9/26/2024 1:51:12 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0385 ppm	0.0012 ppm	0.0064 ppm	0.0681 ppm	0.0001 ppm	22.4973 ppm
Concentration per Run 1	0.0002 ppm	0.0233 ppm	0.0003 ppm	0.0063 ppm	0.0678 ppm	0.0001 ppm	22.5353 ppm
Concentration per Run 2	0.0004 ppm	0.0431 ppm	0.0016 ppm	0.0064 ppm	0.0682 ppm	0.0001 ppm	22.5209 ppm
Concentration per Run 3	-0.0003 ppm	0.0491 ppm	0.0017 ppm	0.0064 ppm	0.0684 ppm	0.0000 ppm	22.4359 ppm
Concentration RSD	345.8 %	35.1 %	66.2 %	1.1 %	0.4 %	40.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0006 ppm	0.0002 ppm	0.0020 ppm	0.0243 ppm	0.2703 ppm	0.0000 ppm
Concentration per Run 1	0.0011 ppm	0.0010 ppm	-0.0001 ppm	0.0023 ppm	0.0258 ppm	0.2655 ppm	0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.0004 ppm	0.0005 ppm	0.0018 ppm	0.0246 ppm	0.2823 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	0.0005 ppm	0.0002 ppm	0.0018 ppm	0.0227 ppm	0.2631 ppm	-0.0002 ppm
Concentration RSD	1.9 %	43.4 %	144.9 %	15.5 %	6.3 %	3.9 %	33,763.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.6281 ppm	0.0470 ppm	-0.0004 ppm	123.5359 ppm	0.0008 ppm	0.0372 ppm	0.0061 ppm
Concentration per Run 1	0.6287 ppm	0.0468 ppm	0.0002 ppm	123.2884 ppm	0.0001 ppm	0.0370 ppm	0.0064 ppm
Concentration per Run 2	0.6284 ppm	0.0471 ppm	-0.0006 ppm	123.6470 ppm	0.0010 ppm	0.0380 ppm	0.0074 ppm
Concentration per Run 3	0.6272 ppm	0.0472 ppm	-0.0006 ppm	123.6723 ppm	0.0014 ppm	0.0366 ppm	0.0044 ppm
Concentration RSD	0.1 %	0.4 %	127.0 %	0.2 %	83.4 %	2.0 %	25.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	0.4827 ppm	-0.0018 ppm	0.1234 ppm	0.0043 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0013 ppm	0.4796 ppm	-0.0020 ppm	0.1228 ppm	0.0043 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 2	0.0051 ppm	0.4846 ppm	-0.0015 ppm	0.1235 ppm	0.0039 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0060 ppm	0.4840 ppm	-0.0020 ppm	0.1241 ppm	0.0047 ppm	-0.0010 ppm	0.0004 ppm
Concentration RSD	60.9 %	0.6 %	16.1 %	0.5 %	9.0 %	663.8 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9942 ppm	111.6751 %	114.0644 %	105.5766 %	110.2259 %	113.2778 %	109.6861 %
Concentration per Run 1	1.9789 ppm	111.3044 %	113.3062 %	105.7853 %	110.2836 %	112.6342 %	109.7260 %
Concentration per Run 2	2.0059 ppm	111.3511 %	113.9272 %	105.8111 %	109.6223 %	112.9836 %	110.0166 %
Concentration per Run 3	1.9978 ppm	112.3697 %	114.9599 %	105.1334 %	110.7717 %	114.2156 %	109.3158 %
Concentration RSD	0.7 %	0.5 %	0.7 %	0.4 %	0.5 %	0.7 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-01 WG1976490
Analysis started at: 9/26/2024 1:55:06 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0547 ppm	0.0063 ppm	0.0345 ppm	0.0325 ppm	0.0001 ppm	1.0024 ppm
Concentration per Run 1	0.0001 ppm	0.0635 ppm	0.0051 ppm	0.0350 ppm	0.0326 ppm	0.0001 ppm	1.0027 ppm
Concentration per Run 2	0.0002 ppm	0.0421 ppm	0.0060 ppm	0.0338 ppm	0.0327 ppm	0.0001 ppm	1.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0586 ppm	0.0080 ppm	0.0348 ppm	0.0323 ppm	0.0001 ppm	1.0043 ppm
Concentration RSD	57.9 %	20.4 %	23.6 %	1.8 %	0.7 %	33.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0005 ppm	0.0089 ppm	0.2168 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0097 ppm	0.2305 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0005 ppm	0.0076 ppm	0.2031 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0014 ppm	0.0001 ppm	0.0005 ppm	0.0094 ppm	0.2169 ppm	-0.0008 ppm
Concentration RSD	81.5 %	142.1 %	104.1 %	4.5 %	12.7 %	6.3 %	1,558.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1081 ppm	0.0189 ppm	-0.0002 ppm	125.2937 ppm	0.0000 ppm	1.2298 ppm	0.0352 ppm
Concentration per Run 1	0.1073 ppm	0.0189 ppm	-0.0002 ppm	124.9215 ppm	-0.0017 ppm	1.2299 ppm	0.0313 ppm
Concentration per Run 2	0.1113 ppm	0.0188 ppm	-0.0001 ppm	125.1512 ppm	0.0004 ppm	1.2329 ppm	0.0375 ppm
Concentration per Run 3	0.1057 ppm	0.0189 ppm	-0.0004 ppm	125.8083 ppm	0.0012 ppm	1.2267 ppm	0.0369 ppm
Concentration RSD	2.7 %	0.2 %	74.6 %	0.4 %	5,244.8 %	0.3 %	9.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	0.0987 ppm	-0.0013 ppm	0.0025 ppm	0.0010 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	0.0039 ppm	0.0944 ppm	-0.0011 ppm	0.0024 ppm	0.0008 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 2	0.0034 ppm	0.1065 ppm	-0.0013 ppm	0.0026 ppm	0.0012 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0008 ppm	0.0951 ppm	-0.0016 ppm	0.0024 ppm	0.0010 ppm	-0.0007 ppm	0.0003 ppm
Concentration RSD	62.0 %	6.9 %	17.5 %	5.3 %	23.6 %	31.6 %	49.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	110.9183 %	111.3978 %	105.5547 %	109.8606 %	110.7422 %	109.5607 %
Concentration per Run 1	0.0015 ppm	110.8120 %	111.0089 %	105.9792 %	109.7063 %	110.1166 %	109.9622 %
Concentration per Run 2	0.0013 ppm	111.5482 %	111.3353 %	105.1443 %	110.4787 %	110.6409 %	109.4869 %
Concentration per Run 3	0.0012 ppm	110.3947 %	111.8492 %	105.5407 %	109.3968 %	111.4692 %	109.2329 %
Concentration RSD	10.3 %	0.5 %	0.4 %	0.4 %	0.5 %	0.6 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-02 WG1976490
Analysis started at: 9/26/2024 1:59:00 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0628 ppm	0.0006 ppm	0.0177 ppm	0.0298 ppm	0.0001 ppm	1.6306 ppm
Concentration per Run 1	0.0004 ppm	0.0612 ppm	0.0019 ppm	0.0179 ppm	0.0296 ppm	0.0001 ppm	1.6428 ppm
Concentration per Run 2	0.0000 ppm	0.0654 ppm	-0.0007 ppm	0.0167 ppm	0.0300 ppm	0.0001 ppm	1.6322 ppm
Concentration per Run 3	0.0002 ppm	0.0617 ppm	0.0006 ppm	0.0184 ppm	0.0299 ppm	0.0001 ppm	1.6169 ppm
Concentration RSD	100.0 %	3.7 %	210.5 %	5.0 %	0.6 %	21.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0124 ppm	0.1379 ppm	-0.0010 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	-0.0005 ppm	0.0006 ppm	0.0120 ppm	0.1504 ppm	-0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.0137 ppm	0.1281 ppm	-0.0003 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0006 ppm	0.0005 ppm	0.0115 ppm	0.1352 ppm	-0.0023 ppm
Concentration RSD	901.8 %	29,204.5 %	744.9 %	21.0 %	9.1 %	8.3 %	116.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3916 ppm	0.0097 ppm	-0.0001 ppm	123.3899 ppm	0.0003 ppm	0.1044 ppm	0.0023 ppm
Concentration per Run 1	0.3908 ppm	0.0098 ppm	0.0000 ppm	123.8318 ppm	0.0011 ppm	0.1034 ppm	0.0048 ppm
Concentration per Run 2	0.3931 ppm	0.0097 ppm	0.0003 ppm	123.4957 ppm	-0.0005 ppm	0.1037 ppm	0.0020 ppm
Concentration per Run 3	0.3908 ppm	0.0097 ppm	-0.0006 ppm	122.8424 ppm	0.0005 ppm	0.1061 ppm	0.0001 ppm
Concentration RSD	0.3 %	0.5 %	622.8 %	0.4 %	237.3 %	1.4 %	103.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	0.1014 ppm	-0.0015 ppm	0.0046 ppm	0.0006 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0048 ppm	0.1111 ppm	-0.0016 ppm	0.0045 ppm	0.0005 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0024 ppm	0.0990 ppm	-0.0017 ppm	0.0046 ppm	0.0004 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0066 ppm	0.0943 ppm	-0.0011 ppm	0.0046 ppm	0.0010 ppm	0.0004 ppm	-0.0006 ppm
Concentration RSD	45.2 %	8.5 %	22.2 %	1.3 %	49.6 %	270.2 %	1,006.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	110.0434 %	111.5137 %	105.4519 %	109.0921 %	110.3500 %	109.5055 %
Concentration per Run 1	0.0061 ppm	109.8802 %	111.3604 %	105.3674 %	108.9200 %	110.5033 %	109.7443 %
Concentration per Run 2	0.0060 ppm	110.4700 %	111.6277 %	105.6980 %	109.6282 %	110.6161 %	109.8132 %
Concentration per Run 3	0.0060 ppm	109.7800 %	111.5529 %	105.2902 %	108.7280 %	109.9305 %	108.9591 %
Concentration RSD	0.8 %	0.3 %	0.1 %	0.2 %	0.4 %	0.3 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-03 WG1976490
Analysis started at: 9/26/2024 2:02:54 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0720 ppm	0.0010 ppm	0.0399 ppm	0.0260 ppm	0.0001 ppm	0.7426 ppm
Concentration per Run 1	0.0003 ppm	0.0645 ppm	-0.0007 ppm	0.0421 ppm	0.0261 ppm	0.0001 ppm	0.7431 ppm
Concentration per Run 2	0.0001 ppm	0.0689 ppm	0.0015 ppm	0.0386 ppm	0.0259 ppm	0.0001 ppm	0.7415 ppm
Concentration per Run 3	0.0009 ppm	0.0827 ppm	0.0023 ppm	0.0390 ppm	0.0260 ppm	0.0001 ppm	0.7434 ppm
Concentration RSD	96.3 %	13.2 %	147.8 %	4.8 %	0.3 %	26.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0007 ppm	0.0152 ppm	0.1200 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0158 ppm	0.1158 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0121 ppm	0.1325 ppm	-0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0004 ppm	0.0001 ppm	0.0177 ppm	0.1117 ppm	0.0004 ppm
Concentration RSD	1,181.5 %	86.9 %	252.3 %	73.6 %	18.6 %	9.2 %	227.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1537 ppm	0.0132 ppm	-0.0004 ppm	127.0791 ppm	0.0004 ppm	0.0409 ppm	0.0020 ppm
Concentration per Run 1	0.1560 ppm	0.0129 ppm	-0.0005 ppm	126.9054 ppm	-0.0002 ppm	0.0416 ppm	-0.0010 ppm
Concentration per Run 2	0.1516 ppm	0.0135 ppm	-0.0006 ppm	127.1905 ppm	0.0004 ppm	0.0397 ppm	0.0030 ppm
Concentration per Run 3	0.1534 ppm	0.0131 ppm	-0.0001 ppm	127.1414 ppm	0.0009 ppm	0.0414 ppm	0.0041 ppm
Concentration RSD	1.4 %	2.0 %	73.2 %	0.1 %	145.2 %	2.6 %	134.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	0.0998 ppm	-0.0014 ppm	0.0046 ppm	0.0009 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0029 ppm	0.0975 ppm	-0.0016 ppm	0.0047 ppm	0.0006 ppm	0.0024 ppm	0.0000 ppm
Concentration per Run 2	0.0038 ppm	0.0997 ppm	-0.0014 ppm	0.0046 ppm	0.0010 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0021 ppm	0.1021 ppm	-0.0013 ppm	0.0046 ppm	0.0010 ppm	-0.0013 ppm	0.0003 ppm
Concentration RSD	30.2 %	2.3 %	8.4 %	1.5 %	25.8 %	537.5 %	92.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0110 ppm	110.1754 %	110.4161 %	105.1937 %	109.0989 %	109.7461 %	109.2019 %
Concentration per Run 1	0.0108 ppm	110.1037 %	110.2679 %	104.9881 %	109.1508 %	109.1824 %	108.9689 %
Concentration per Run 2	0.0108 ppm	110.9204 %	109.9896 %	105.2251 %	109.7702 %	109.6908 %	109.3943 %
Concentration per Run 3	0.0113 ppm	109.5021 %	110.9909 %	105.3679 %	108.3757 %	110.3651 %	109.2423 %
Concentration RSD	3.0 %	0.6 %	0.5 %	0.2 %	0.6 %	0.5 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-04 WG1976490
Analysis started at: 9/26/2024 2:06:49 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0900 ppm	0.0070 ppm	0.0070 ppm	0.0267 ppm	0.0001 ppm	0.6425 ppm
Concentration per Run 1	0.0003 ppm	0.0867 ppm	0.0076 ppm	0.0059 ppm	0.0267 ppm	0.0001 ppm	0.6423 ppm
Concentration per Run 2	0.0004 ppm	0.0923 ppm	0.0053 ppm	0.0080 ppm	0.0265 ppm	0.0001 ppm	0.6451 ppm
Concentration per Run 3	0.0004 ppm	0.0909 ppm	0.0079 ppm	0.0072 ppm	0.0269 ppm	0.0001 ppm	0.6401 ppm
Concentration RSD	15.7 %	3.2 %	20.1 %	15.0 %	0.7 %	37.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0079 ppm	0.1046 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0008 ppm	0.0065 ppm	0.0893 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0011 ppm	0.0096 ppm	0.1185 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	0.0012 ppm	0.0001 ppm	0.0007 ppm	0.0076 ppm	0.1060 ppm	-0.0008 ppm
Concentration RSD	45.6 %	175.0 %	32.4 %	23.8 %	20.3 %	14.0 %	394.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1045 ppm	0.0042 ppm	0.0000 ppm	124.3203 ppm	0.0002 ppm	1.0260 ppm	0.0202 ppm
Concentration per Run 1	0.1050 ppm	0.0041 ppm	-0.0001 ppm	123.5234 ppm	-0.0007 ppm	1.0218 ppm	0.0164 ppm
Concentration per Run 2	0.1049 ppm	0.0042 ppm	0.0001 ppm	124.6932 ppm	0.0001 ppm	1.0205 ppm	0.0204 ppm
Concentration per Run 3	0.1034 ppm	0.0044 ppm	-0.0001 ppm	124.7444 ppm	0.0011 ppm	1.0359 ppm	0.0239 ppm
Concentration RSD	0.8 %	2.5 %	770.6 %	0.6 %	511.7 %	0.8 %	18.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0051 ppm	0.0658 ppm	-0.0014 ppm	0.0021 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0026 ppm	0.0643 ppm	-0.0014 ppm	0.0022 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	0.0044 ppm	0.0682 ppm	-0.0002 ppm	0.0021 ppm	0.0003 ppm	0.0023 ppm	0.0003 ppm
Concentration per Run 3	0.0082 ppm	0.0650 ppm	-0.0024 ppm	0.0020 ppm	-0.0004 ppm	-0.0003 ppm	0.0006 ppm
Concentration RSD	55.9 %	3.1 %	79.7 %	4.0 %	7,394.0 %	456.8 %	51.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0037 ppm	110.1497 %	110.0538 %	105.2272 %	109.2181 %	109.1901 %	109.2623 %
Concentration per Run 1	0.0037 ppm	111.2333 %	110.9055 %	104.5859 %	110.1751 %	109.6254 %	108.7367 %
Concentration per Run 2	0.0033 ppm	110.2415 %	109.5547 %	106.1599 %	109.6555 %	109.0081 %	109.9816 %
Concentration per Run 3	0.0039 ppm	108.9743 %	109.7014 %	104.9357 %	107.8235 %	108.9369 %	109.0684 %
Concentration RSD	8.0 %	1.0 %	0.7 %	0.8 %	1.1 %	0.3 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-05 WG1976490
Analysis started at: 9/26/2024 2:10:43 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0236 ppm	0.0007 ppm	0.0097 ppm	0.0245 ppm	0.0000 ppm	2.4295 ppm
Concentration per Run 1	0.0000 ppm	0.0326 ppm	0.0011 ppm	0.0096 ppm	0.0244 ppm	0.0000 ppm	2.4335 ppm
Concentration per Run 2	0.0005 ppm	0.0243 ppm	0.0010 ppm	0.0077 ppm	0.0244 ppm	0.0001 ppm	2.4256 ppm
Concentration per Run 3	0.0004 ppm	0.0139 ppm	0.0000 ppm	0.0119 ppm	0.0246 ppm	0.0001 ppm	2.4294 ppm
Concentration RSD	83.9 %	39.6 %	88.9 %	21.2 %	0.4 %	72.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0003 ppm	0.0005 ppm	0.0074 ppm	0.6048 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0075 ppm	0.6304 ppm	-0.0027 ppm
Concentration per Run 2	-0.0001 ppm	0.0012 ppm	0.0003 ppm	0.0004 ppm	0.0067 ppm	0.5815 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0017 ppm	0.0005 ppm	0.0009 ppm	0.0081 ppm	0.6025 ppm	0.0000 ppm
Concentration RSD	19.5 %	28.8 %	100.7 %	88.9 %	9.4 %	4.1 %	230.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2991 ppm	0.0035 ppm	0.0002 ppm	122.9818 ppm	-0.0001 ppm	0.0166 ppm	0.0016 ppm
Concentration per Run 1	0.2990 ppm	0.0035 ppm	-0.0001 ppm	122.5238 ppm	0.0000 ppm	0.0156 ppm	0.0001 ppm
Concentration per Run 2	0.2962 ppm	0.0034 ppm	-0.0004 ppm	122.6748 ppm	-0.0007 ppm	0.0186 ppm	0.0046 ppm
Concentration per Run 3	0.3022 ppm	0.0036 ppm	0.0010 ppm	123.7469 ppm	0.0003 ppm	0.0156 ppm	0.0000 ppm
Concentration RSD	1.0 %	2.1 %	404.2 %	0.5 %	360.8 %	10.5 %	167.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.0813 ppm	-0.0008 ppm	0.0045 ppm	0.0004 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0007 ppm	0.0769 ppm	-0.0005 ppm	0.0046 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0031 ppm	0.0824 ppm	-0.0021 ppm	0.0044 ppm	0.0001 ppm	0.0018 ppm	0.0000 ppm
Concentration per Run 3	0.0030 ppm	0.0845 ppm	0.0001 ppm	0.0045 ppm	0.0007 ppm	0.0003 ppm	0.0002 ppm
Concentration RSD	60.2 %	4.8 %	135.3 %	2.0 %	75.8 %	160.0 %	120.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0024 ppm	108.1658 %	110.4217 %	105.4824 %	107.1804 %	109.7143 %	109.1316 %
Concentration per Run 1	0.0025 ppm	106.9104 %	110.3297 %	105.3521 %	106.0979 %	109.6178 %	108.7543 %
Concentration per Run 2	0.0024 ppm	109.4388 %	110.3323 %	105.6892 %	108.3923 %	109.4965 %	109.1063 %
Concentration per Run 3	0.0023 ppm	108.1482 %	110.6031 %	105.4058 %	107.0509 %	110.0285 %	109.5340 %
Concentration RSD	4.5 %	1.2 %	0.1 %	0.2 %	1.1 %	0.3 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:14:39 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4953 ppm	0.4652 ppm	0.4694 ppm	0.4799 ppm	0.4814 ppm	0.4951 ppm	0.4785 ppm
Concentration per Run 1	0.4933 ppm	0.4731 ppm	0.4719 ppm	0.4785 ppm	0.4797 ppm	0.4932 ppm	0.4769 ppm
Concentration per Run 2	0.4943 ppm	0.4593 ppm	0.4690 ppm	0.4806 ppm	0.4838 ppm	0.4966 ppm	0.4806 ppm
Concentration per Run 3	0.4983 ppm	0.4632 ppm	0.4672 ppm	0.4806 ppm	0.4808 ppm	0.4954 ppm	0.4782 ppm
Recovery Percentage 1	99.056 %	93.044 %	93.874 %	95.976 %	96.283 %	99.014 %	95.710 %
Concentration RSD	0.5 %	1.5 %	0.5 %	0.2 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4934 ppm	0.4971 ppm	0.4785 ppm	0.4759 ppm	0.4858 ppm	5.0345 ppm	0.4727 ppm
Concentration per Run 1	0.4918 ppm	0.4956 ppm	0.4770 ppm	0.4768 ppm	0.4851 ppm	5.0472 ppm	0.4731 ppm
Concentration per Run 2	0.4920 ppm	0.4973 ppm	0.4788 ppm	0.4767 ppm	0.4831 ppm	5.0475 ppm	0.4742 ppm
Concentration per Run 3	0.4963 ppm	0.4983 ppm	0.4797 ppm	0.4743 ppm	0.4892 ppm	5.0087 ppm	0.4709 ppm
Recovery Percentage 1	98.676 %	99.413 %	95.699 %	95.190 %	97.159 %	100.689 %	94.547 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.3 %	0.6 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4750 ppm	0.4711 ppm	0.4718 ppm	9.6510 ppm	0.4920 ppm	0.4856 ppm	0.4864 ppm
Concentration per Run 1	0.4765 ppm	0.4719 ppm	0.4688 ppm	9.6273 ppm	0.4888 ppm	0.4874 ppm	0.4821 ppm
Concentration per Run 2	0.4738 ppm	0.4691 ppm	0.4731 ppm	9.6977 ppm	0.4951 ppm	0.4845 ppm	0.4837 ppm
Concentration per Run 3	0.4748 ppm	0.4723 ppm	0.4735 ppm	9.6280 ppm	0.4920 ppm	0.4850 ppm	0.4935 ppm
Recovery Percentage 1	95.008 %	94.225 %	94.363 %	96.510 %	98.396 %	97.122 %	97.288 %
Concentration RSD	0.3 %	0.4 %	0.6 %	0.4 %	0.6 %	0.3 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4873 ppm	5.2231 ppm	0.4631 ppm	0.4548 ppm	0.4841 ppm	0.4849 ppm	0.4762 ppm
Concentration per Run 1	0.4897 ppm	5.1832 ppm	0.4617 ppm	0.4529 ppm	0.4826 ppm	0.4875 ppm	0.4758 ppm
Concentration per Run 2	0.4833 ppm	5.2266 ppm	0.4639 ppm	0.4562 ppm	0.4838 ppm	0.4842 ppm	0.4764 ppm
Concentration per Run 3	0.4890 ppm	5.2596 ppm	0.4636 ppm	0.4552 ppm	0.4860 ppm	0.4832 ppm	0.4763 ppm
Recovery Percentage 1	97.465 %	99.488 %	92.615 %	90.954 %	96.824 %	96.989 %	95.237 %
Concentration RSD	0.7 %	0.7 %	0.3 %	0.4 %	0.4 %	0.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4954 ppm	111.9082 %	109.6683 %	110.2121 %	110.9296 %	109.2103 %	109.8745 %
Concentration per Run 1	0.4931 ppm	111.7170 %	110.4887 %	110.4163 %	110.6577 %	110.0504 %	110.3691 %
Concentration per Run 2	0.4986 ppm	111.8497 %	108.8819 %	110.6992 %	111.0988 %	108.5926 %	110.1551 %
Concentration per Run 3	0.4945 ppm	112.1578 %	109.6342 %	109.5208 %	111.0325 %	108.9878 %	109.0993 %
Recovery Percentage 1	99.075 %						
Concentration RSD	0.6 %	0.2 %	0.7 %	0.6 %	0.2 %	0.7 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:18:33 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0077 ppm	0.0012 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0067 ppm	0.0006 ppm	0.0022 ppm	0.0001 ppm	0.0001 ppm	0.0061 ppm
Concentration per Run 2	0.0001 ppm	-0.0098 ppm	0.0007 ppm	0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0039 ppm
Concentration per Run 3	0.0008 ppm	-0.0065 ppm	0.0023 ppm	0.0029 ppm	0.0000 ppm	0.0001 ppm	-0.0030 ppm
Recovery Percentage 1	4.234 %	-7.651 %	24.060 %	8.258 %	0.479 %	1.785 %	2.335 %
Concentration RSD	154.2 %	24.0 %	80.9 %	14.1 %	176.7 %	11.3 %	203.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0151 ppm	-0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0000 ppm	0.0020 ppm	0.0338 ppm	-0.0011 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	-0.0001 ppm	-0.0003 ppm	-0.0012 ppm	0.0003 ppm	-0.0012 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0113 ppm	-0.0017 ppm
Recovery Percentage 1	2.727 %	1.379 %	-0.754 %	-0.531 %	0.562 %	0.605 %	-26.626 %
Concentration RSD	71.2 %	199.9 %	392.1 %	387.4 %	573.2 %	112.8 %	22.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0000 ppm	0.0008 ppm	-0.0038 ppm	0.0000 ppm	0.0005 ppm	0.0045 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0096 ppm	0.0000 ppm	0.0003 ppm	0.0035 ppm
Concentration per Run 2	0.0024 ppm	0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0084 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0009 ppm	-0.0025 ppm	0.0000 ppm	0.0011 ppm	0.0017 ppm
Recovery Percentage 1	0.870 %	0.494 %	1.684 %	-0.191 %	-0.118 %	5.133 %	9.080 %
Concentration RSD	155.1 %	236.4 %	24.2 %	138.7 %	94.4 %	96.5 %	76.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0042 ppm	-0.0046 ppm	-0.0008 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0038 ppm	-0.0069 ppm	-0.0014 ppm	0.0000 ppm	-0.0003 ppm	-0.0012 ppm	0.0005 ppm
Concentration per Run 2	0.0054 ppm	-0.0042 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0034 ppm	-0.0028 ppm	-0.0012 ppm	0.0000 ppm	-0.0003 ppm	0.0020 ppm	0.0006 ppm
Recovery Percentage 1	41.992 %	-0.920 %	-1.688 %	0.668 %	-3.219 %	1.967 %	4.674 %
Concentration RSD	24.8 %	45.4 %	97.5 %	156.1 %	7.7 %	411.9 %	36.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	109.9609 %	108.4709 %	110.7227 %	111.3165 %	108.8535 %	111.0895 %
Concentration per Run 1	0.0001 ppm	109.6746 %	107.2126 %	111.1677 %	110.9230 %	107.8875 %	111.7066 %
Concentration per Run 2	-0.0003 ppm	109.7092 %	109.1416 %	110.5751 %	110.9441 %	109.7550 %	110.8816 %
Concentration per Run 3	0.0001 ppm	110.4990 %	109.0587 %	110.4253 %	112.0824 %	108.9181 %	110.6804 %
Recovery Percentage 1	-0.311 %						
Concentration RSD	1,523.1 %	0.4 %	1.0 %	0.4 %	0.6 %	0.9 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-1 WG1975918
Analysis started at: 9/26/2024 2:25:41 PM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0258 ppm	0.0024 ppm	0.0039 ppm	0.0001 ppm	0.0001 ppm	0.0174 ppm
Concentration per Run 1	0.0002 ppm	0.0293 ppm	0.0018 ppm	0.0064 ppm	0.0001 ppm	0.0001 ppm	0.0171 ppm
Concentration per Run 2	0.0004 ppm	0.0183 ppm	0.0014 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm	0.0164 ppm
Concentration per Run 3	0.0009 ppm	0.0297 ppm	0.0038 ppm	0.0036 ppm	0.0002 ppm	0.0001 ppm	0.0186 ppm
Concentration RSD	74.8 %	25.1 %	53.6 %	62.7 %	71.5 %	33.0 %	6.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0109 ppm	0.0173 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0004 ppm	0.0007 ppm	0.0109 ppm	0.0092 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm	0.0117 ppm	0.0377 ppm	-0.0014 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0101 ppm	0.0051 ppm	-0.0005 ppm
Concentration RSD	69.9 %	121.3 %	69.1 %	37.5 %	7.2 %	102.7 %	49.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0047 ppm	0.0003 ppm	0.0006 ppm	0.0047 ppm	0.0000 ppm	0.0014 ppm	0.0049 ppm
Concentration per Run 1	0.0028 ppm	0.0005 ppm	0.0001 ppm	-0.0025 ppm	0.0003 ppm	0.0013 ppm	0.0064 ppm
Concentration per Run 2	0.0057 ppm	0.0002 ppm	0.0009 ppm	0.0065 ppm	-0.0001 ppm	0.0018 ppm	0.0047 ppm
Concentration per Run 3	0.0056 ppm	0.0003 ppm	0.0008 ppm	0.0100 ppm	-0.0002 ppm	0.0010 ppm	0.0036 ppm
Concentration RSD	34.5 %	57.8 %	67.6 %	138.5 %	6,146.6 %	27.2 %	28.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	0.0028 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0048 ppm	0.0050 ppm	-0.0006 ppm	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0036 ppm	0.0014 ppm	-0.0014 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0018 ppm	0.0019 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm
Concentration RSD	44.3 %	70.2 %	56.9 %	100.4 %	783.3 %	39.2 %	101.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	108.2800 %	109.8058 %	107.7591 %	107.1283 %	109.4945 %	106.4465 %
Concentration per Run 1	0.0021 ppm	109.1000 %	109.8028 %	107.8925 %	107.4175 %	109.3340 %	106.5445 %
Concentration per Run 2	0.0021 ppm	108.0987 %	110.1566 %	107.7299 %	107.0234 %	110.0218 %	106.1751 %
Concentration per Run 3	0.0021 ppm	107.6413 %	109.4580 %	107.6549 %	106.9440 %	109.1277 %	106.6198 %
Concentration RSD	1.7 %	0.7 %	0.3 %	0.1 %	0.2 %	0.4 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-2d2 WG1975918
Analysis started at: 9/26/2024 2:29:49 PM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0498 ppm	1.8785 ppm	0.1174 ppm	0.9669 ppm	1.9176 ppm	0.0494 ppm	9.6653 ppm
Concentration per Run 1	0.0502 ppm	1.9013 ppm	0.1200 ppm	0.9648 ppm	1.9244 ppm	0.0495 ppm	9.7123 ppm
Concentration per Run 2	0.0497 ppm	1.8696 ppm	0.1174 ppm	0.9729 ppm	1.9200 ppm	0.0493 ppm	9.6679 ppm
Concentration per Run 3	0.0496 ppm	1.8647 ppm	0.1149 ppm	0.9630 ppm	1.9085 ppm	0.0494 ppm	9.6158 ppm
Concentration RSD	0.6 %	1.1 %	2.1 %	0.5 %	0.4 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.5007 ppm	0.1971 ppm	0.2486 ppm	1.0366 ppm	9.9703 ppm	-0.0009 ppm
Concentration per Run 1	0.0520 ppm	0.5029 ppm	0.1976 ppm	0.2493 ppm	1.0331 ppm	9.9754 ppm	-0.0008 ppm
Concentration per Run 2	0.0524 ppm	0.5036 ppm	0.1975 ppm	0.2498 ppm	1.0380 ppm	9.9555 ppm	-0.0011 ppm
Concentration per Run 3	0.0518 ppm	0.4955 ppm	0.1962 ppm	0.2466 ppm	1.0387 ppm	9.9802 ppm	-0.0008 ppm
Concentration RSD	0.6 %	0.9 %	0.4 %	0.7 %	0.3 %	0.1 %	22.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9567 ppm	0.4825 ppm	0.9995 ppm	9.7813 ppm	0.4952 ppm	0.5306 ppm	0.5006 ppm
Concentration per Run 1	9.8966 ppm	0.4842 ppm	0.9959 ppm	9.7727 ppm	0.4949 ppm	0.5339 ppm	0.5037 ppm
Concentration per Run 2	9.9935 ppm	0.4842 ppm	1.0052 ppm	9.8092 ppm	0.4975 ppm	0.5276 ppm	0.5048 ppm
Concentration per Run 3	9.9800 ppm	0.4791 ppm	0.9974 ppm	9.7620 ppm	0.4931 ppm	0.5305 ppm	0.4932 ppm
Concentration RSD	0.5 %	0.6 %	0.5 %	0.3 %	0.4 %	0.6 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1209 ppm	0.7328 ppm	0.9638 ppm	0.9247 ppm	1.0063 ppm	0.1196 ppm	0.4988 ppm
Concentration per Run 1	0.1197 ppm	0.7342 ppm	0.9653 ppm	0.9276 ppm	1.0038 ppm	0.1210 ppm	0.4995 ppm
Concentration per Run 2	0.1216 ppm	0.7373 ppm	0.9680 ppm	0.9250 ppm	1.0083 ppm	0.1193 ppm	0.5005 ppm
Concentration per Run 3	0.1213 ppm	0.7270 ppm	0.9582 ppm	0.9215 ppm	1.0068 ppm	0.1184 ppm	0.4965 ppm
Concentration RSD	0.8 %	0.7 %	0.5 %	0.3 %	0.2 %	1.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4984 ppm	110.8709 %	111.2893 %	109.6771 %	110.2831 %	109.7671 %	110.0474 %
Concentration per Run 1	0.4998 ppm	110.7518 %	111.5258 %	109.0124 %	110.1303 %	110.3273 %	109.5250 %
Concentration per Run 2	0.5001 ppm	110.2173 %	110.8652 %	110.2350 %	109.7439 %	109.3541 %	110.5678 %
Concentration per Run 3	0.4952 ppm	111.6437 %	111.4767 %	109.7839 %	110.9752 %	109.6199 %	110.0493 %
Concentration RSD	0.5 %	0.6 %	0.3 %	0.6 %	0.6 %	0.5 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2452494-11d2 WG1975366
Analysis started at: 9/26/2024 2:33:42 PM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	80.1217 ppm	0.0412 ppm	0.0614 ppm	0.7066 ppm	0.0089 ppm	32.3878 ppm
Concentration per Run 1	0.0006 ppm	80.3128 ppm	0.0399 ppm	0.0608 ppm	0.7078 ppm	0.0088 ppm	32.5311 ppm
Concentration per Run 2	0.0006 ppm	80.1281 ppm	0.0425 ppm	0.0608 ppm	0.7076 ppm	0.0089 ppm	32.3333 ppm
Concentration per Run 3	0.0004 ppm	79.9241 ppm	0.0413 ppm	0.0626 ppm	0.7045 ppm	0.0090 ppm	32.2990 ppm
Concentration RSD	16.8 %	0.2 %	3.2 %	1.8 %	0.3 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.1466 ppm	0.3826 ppm	0.2663 ppm	316.2781 ppm	4.7477 ppm	0.1953 ppm
Concentration per Run 1	0.0005 ppm	0.1454 ppm	0.3793 ppm	0.2650 ppm	315.2166 ppm	4.7245 ppm	0.1958 ppm
Concentration per Run 2	0.0006 ppm	0.1472 ppm	0.3846 ppm	0.2670 ppm	316.4753 ppm	4.7779 ppm	0.1953 ppm
Concentration per Run 3	0.0008 ppm	0.1473 ppm	0.3840 ppm	0.2669 ppm	317.1423 ppm	4.7407 ppm	0.1949 ppm
Concentration RSD	22.9 %	0.7 %	0.8 %	0.4 %	0.3 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.7046 ppm	8.1783 ppm	0.0034 ppm	2.6704 ppm	0.2652 ppm	0.2686 ppm	0.0091 ppm
Concentration per Run 1	41.4459 ppm	8.2116 ppm	0.0032 ppm	2.6661 ppm	0.2629 ppm	0.2686 ppm	0.0073 ppm
Concentration per Run 2	41.8215 ppm	8.1633 ppm	0.0033 ppm	2.6629 ppm	0.2655 ppm	0.2679 ppm	0.0068 ppm
Concentration per Run 3	41.8465 ppm	8.1599 ppm	0.0037 ppm	2.6822 ppm	0.2671 ppm	0.2694 ppm	0.0131 ppm
Concentration RSD	0.5 %	0.4 %	7.5 %	0.4 %	0.8 %	0.3 %	38.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	1.0103 ppm	0.0080 ppm	0.2862 ppm	3.9287 ppm	0.0050 ppm	0.2992 ppm
Concentration per Run 1	0.0007 ppm	1.0084 ppm	0.0088 ppm	0.2865 ppm	3.8931 ppm	0.0045 ppm	0.2991 ppm
Concentration per Run 2	0.0018 ppm	1.0102 ppm	0.0081 ppm	0.2859 ppm	3.9453 ppm	0.0047 ppm	0.2999 ppm
Concentration per Run 3	0.0015 ppm	1.0124 ppm	0.0073 ppm	0.2862 ppm	3.9476 ppm	0.0057 ppm	0.2985 ppm
Concentration RSD	43.9 %	0.2 %	9.3 %	0.1 %	0.8 %	12.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4530 ppm	115.0992 %	116.0498 %	108.2399 %	154.6096 %	156.0573 %	154.2598 %
Concentration per Run 1	0.4472 ppm	115.5586 %	117.0139 %	108.8245 %	154.7563 %	157.9592 %	155.0979 %
Concentration per Run 2	0.4560 ppm	115.1563 %	115.4202 %	108.1582 %	154.9046 %	155.1901 %	154.2263 %
Concentration per Run 3	0.4557 ppm	114.5826 %	115.7153 %	107.7370 %	154.1678 %	155.0227 %	153.4553 %
Concentration RSD	1.1 %	0.4 %	0.7 %	0.5 %	0.3 %	1.1 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453692-03d2 WG1975366
Analysis started at: 9/26/2024 2:37:37 PM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	73.2747 ppm	0.0344 ppm	0.6857 ppm	0.8653 ppm	0.0035 ppm	124.9876 ppm
Concentration per Run 1	0.0028 ppm	72.8863 ppm	0.0339 ppm	0.6861 ppm	0.8609 ppm	0.0036 ppm	124.3913 ppm
Concentration per Run 2	0.0017 ppm	73.7709 ppm	0.0334 ppm	0.6890 ppm	0.8687 ppm	0.0036 ppm	125.7660 ppm
Concentration per Run 3	0.0013 ppm	73.1669 ppm	0.0359 ppm	0.6820 ppm	0.8662 ppm	0.0035 ppm	124.8055 ppm
Concentration RSD	42.4 %	0.6 %	3.8 %	0.5 %	0.5 %	2.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0030 ppm	0.0926 ppm	0.1435 ppm	0.6307 ppm	186.7682 ppm	12.0443 ppm	0.1076 ppm
Concentration per Run 1	0.0029 ppm	0.0932 ppm	0.1434 ppm	0.6305 ppm	186.2380 ppm	12.0236 ppm	0.1082 ppm
Concentration per Run 2	0.0030 ppm	0.0934 ppm	0.1435 ppm	0.6306 ppm	187.5443 ppm	12.0490 ppm	0.1082 ppm
Concentration per Run 3	0.0030 ppm	0.0913 ppm	0.1435 ppm	0.6309 ppm	186.5224 ppm	12.0603 ppm	0.1063 ppm
Concentration RSD	2.5 %	1.2 %	0.1 %	0.0 %	0.4 %	0.2 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.1177 ppm	2.4131 ppm	0.0046 ppm	4.5669 ppm	0.2270 ppm	1.1732 ppm	0.0067 ppm
Concentration per Run 1	54.2099 ppm	2.4090 ppm	0.0051 ppm	4.5522 ppm	0.2265 ppm	1.1716 ppm	0.0049 ppm
Concentration per Run 2	53.9132 ppm	2.4203 ppm	0.0040 ppm	4.6022 ppm	0.2278 ppm	1.1760 ppm	0.0075 ppm
Concentration per Run 3	54.2299 ppm	2.4102 ppm	0.0048 ppm	4.5463 ppm	0.2268 ppm	1.1719 ppm	0.0076 ppm
Concentration RSD	0.3 %	0.3 %	12.1 %	0.7 %	0.3 %	0.2 %	23.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	1.2768 ppm	0.0314 ppm	0.5263 ppm	5.1310 ppm	0.0054 ppm	0.5376 ppm
Concentration per Run 1	-0.0004 ppm	1.2974 ppm	0.0321 ppm	0.5241 ppm	5.1372 ppm	0.0061 ppm	0.5374 ppm
Concentration per Run 2	0.0086 ppm	1.2715 ppm	0.0310 ppm	0.5285 ppm	5.0958 ppm	0.0048 ppm	0.5368 ppm
Concentration per Run 3	0.0019 ppm	1.2613 ppm	0.0310 ppm	0.5265 ppm	5.1599 ppm	0.0055 ppm	0.5385 ppm
Concentration RSD	138.2 %	1.5 %	2.0 %	0.4 %	0.6 %	12.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0416 ppm	112.7871 %	114.2975 %	106.5928 %	142.0921 %	144.1923 %	140.1146 %
Concentration per Run 1	1.0424 ppm	112.6594 %	114.6209 %	105.7815 %	142.2411 %	144.0209 %	139.0177 %
Concentration per Run 2	1.0409 ppm	112.5593 %	113.2465 %	106.4470 %	141.6883 %	143.6066 %	139.8760 %
Concentration per Run 3	1.0413 ppm	113.1425 %	115.0252 %	107.5500 %	142.3470 %	144.9495 %	141.4502 %
Concentration RSD	0.1 %	0.3 %	0.8 %	0.8 %	0.2 %	0.5 %	0.9 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453692-09d2 WG1975366
Analysis started at: 9/26/2024 2:41:30 PM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0024 ppm	87.0772 ppm	0.0382 ppm	1.1853 ppm	1.0503 ppm	0.0045 ppm	159.5530 ppm
Concentration per Run 1	0.0029 ppm	86.7036 ppm	0.0350 ppm	1.1838 ppm	1.0436 ppm	0.0045 ppm	158.7827 ppm
Concentration per Run 2	0.0026 ppm	87.2195 ppm	0.0390 ppm	1.1892 ppm	1.0518 ppm	0.0045 ppm	159.7523 ppm
Concentration per Run 3	0.0018 ppm	87.3085 ppm	0.0406 ppm	1.1830 ppm	1.0556 ppm	0.0046 ppm	160.1240 ppm
Concentration RSD	23.1 %	0.4 %	7.6 %	0.3 %	0.6 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0038 ppm	0.1020 ppm	0.1515 ppm	0.6782 ppm	196.2671 ppm	13.3942 ppm	0.1172 ppm
Concentration per Run 1	0.0035 ppm	0.1034 ppm	0.1521 ppm	0.6809 ppm	195.6377 ppm	13.3380 ppm	0.1178 ppm
Concentration per Run 2	0.0039 ppm	0.1009 ppm	0.1522 ppm	0.6777 ppm	196.4435 ppm	13.4113 ppm	0.1164 ppm
Concentration per Run 3	0.0040 ppm	0.1018 ppm	0.1503 ppm	0.6762 ppm	196.7201 ppm	13.4333 ppm	0.1173 ppm
Concentration RSD	6.6 %	1.2 %	0.7 %	0.4 %	0.3 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.3552 ppm	3.3174 ppm	0.0023 ppm	5.4802 ppm	0.2380 ppm	1.6135 ppm	0.0163 ppm
Concentration per Run 1	60.4349 ppm	3.2929 ppm	0.0026 ppm	5.4619 ppm	0.2386 ppm	1.6160 ppm	0.0159 ppm
Concentration per Run 2	60.3987 ppm	3.3224 ppm	0.0017 ppm	5.4941 ppm	0.2380 ppm	1.6091 ppm	0.0184 ppm
Concentration per Run 3	60.2321 ppm	3.3370 ppm	0.0026 ppm	5.4845 ppm	0.2374 ppm	1.6153 ppm	0.0145 ppm
Concentration RSD	0.2 %	0.7 %	22.5 %	0.3 %	0.2 %	0.2 %	12.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0038 ppm	2.1922 ppm	0.0435 ppm	0.5446 ppm	5.4266 ppm	0.0050 ppm	0.4896 ppm
Concentration per Run 1	0.0041 ppm	2.2090 ppm	0.0439 ppm	0.5404 ppm	5.4425 ppm	0.0070 ppm	0.4900 ppm
Concentration per Run 2	0.0031 ppm	2.1883 ppm	0.0432 ppm	0.5452 ppm	5.4250 ppm	0.0046 ppm	0.4894 ppm
Concentration per Run 3	0.0042 ppm	2.1793 ppm	0.0433 ppm	0.5483 ppm	5.4122 ppm	0.0033 ppm	0.4893 ppm
Concentration RSD	16.4 %	0.7 %	0.9 %	0.7 %	0.3 %	37.8 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4237 ppm	112.1127 %	114.8256 %	105.5914 %	140.9359 %	144.5131 %	139.3051 %
Concentration per Run 1	1.4188 ppm	112.4895 %	114.8635 %	105.0440 %	141.8287 %	144.4719 %	138.5342 %
Concentration per Run 2	1.4299 ppm	111.7542 %	115.2756 %	105.6850 %	140.2370 %	145.0289 %	139.1677 %
Concentration per Run 3	1.4224 ppm	112.0944 %	114.3378 %	106.0452 %	140.7420 %	144.0386 %	140.2134 %
Concentration RSD	0.4 %	0.3 %	0.4 %	0.5 %	0.6 %	0.3 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-13d2 WG1975918
Analysis started at: 9/26/2024 2:45:23 PM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0023 ppm	154.8988 ppm	0.0651 ppm	0.0174 ppm	2.4988 ppm	0.0103 ppm	182.8829 ppm
Concentration per Run 1	0.0023 ppm	154.2034 ppm	0.0643 ppm	0.0188 ppm	2.4884 ppm	0.0104 ppm	182.5528 ppm
Concentration per Run 2	0.0023 ppm	155.9948 ppm	0.0635 ppm	0.0165 ppm	2.5115 ppm	0.0103 ppm	183.7438 ppm
Concentration per Run 3	0.0025 ppm	154.4981 ppm	0.0676 ppm	0.0169 ppm	2.4966 ppm	0.0103 ppm	182.3521 ppm
Concentration RSD	4.3 %	0.6 %	3.3 %	7.0 %	0.5 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.3669 ppm	0.2136 ppm	0.3938 ppm	370.3866 ppm	9.8275 ppm	0.3200 ppm
Concentration per Run 1	0.0004 ppm	0.3666 ppm	0.2131 ppm	0.3961 ppm	369.3790 ppm	9.8039 ppm	0.3176 ppm
Concentration per Run 2	-0.0004 ppm	0.3652 ppm	0.2149 ppm	0.3916 ppm	371.2686 ppm	9.8460 ppm	0.3216 ppm
Concentration per Run 3	-0.0001 ppm	0.3688 ppm	0.2127 ppm	0.3936 ppm	370.5122 ppm	9.8326 ppm	0.3207 ppm
Concentration RSD	1,573.3 %	0.5 %	0.5 %	0.6 %	0.3 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	160.0701 ppm	13.0617 ppm	0.0015 ppm	1.6350 ppm	0.4573 ppm	0.1533 ppm	0.0037 ppm
Concentration per Run 1	160.2557 ppm	13.0668 ppm	0.0015 ppm	1.6223 ppm	0.4574 ppm	0.1551 ppm	0.0071 ppm
Concentration per Run 2	160.0662 ppm	13.1106 ppm	0.0020 ppm	1.6530 ppm	0.4607 ppm	0.1528 ppm	0.0003 ppm
Concentration per Run 3	159.8885 ppm	13.0077 ppm	0.0012 ppm	1.6296 ppm	0.4539 ppm	0.1519 ppm	0.0038 ppm
Concentration RSD	0.1 %	0.4 %	27.0 %	1.0 %	0.7 %	1.1 %	92.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0101 ppm	1.6965 ppm	0.0039 ppm	0.2956 ppm	0.8596 ppm	0.0058 ppm	0.2476 ppm
Concentration per Run 1	0.0088 ppm	1.7039 ppm	0.0034 ppm	0.2948 ppm	0.8613 ppm	0.0073 ppm	0.2486 ppm
Concentration per Run 2	0.0104 ppm	1.6827 ppm	0.0032 ppm	0.2963 ppm	0.8635 ppm	0.0040 ppm	0.2473 ppm
Concentration per Run 3	0.0111 ppm	1.7030 ppm	0.0052 ppm	0.2956 ppm	0.8540 ppm	0.0060 ppm	0.2468 ppm
Concentration RSD	11.6 %	0.7 %	27.1 %	0.3 %	0.6 %	28.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6729 ppm	117.1865 %	120.3538 %	101.9909 %	146.9528 %	150.5753 %	144.1375 %
Concentration per Run 1	0.6710 ppm	117.7043 %	121.1919 %	102.8329 %	148.3269 %	151.5380 %	145.2672 %
Concentration per Run 2	0.6754 ppm	116.8778 %	119.4534 %	101.4714 %	146.0121 %	150.0144 %	143.6718 %
Concentration per Run 3	0.6724 ppm	116.9775 %	120.4159 %	101.6684 %	146.5195 %	150.1736 %	143.4734 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.7 %	0.8 %	0.6 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-3d2 WG1975918
Analysis started at: 9/26/2024 2:49:17 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0467 ppm	191.1493 ppm	0.1634 ppm	0.7588 ppm	4.5482 ppm	0.0549 ppm	88.3774 ppm
Concentration per Run 1	0.0474 ppm	190.9139 ppm	0.1641 ppm	0.7591 ppm	4.5439 ppm	0.0548 ppm	88.2483 ppm
Concentration per Run 2	0.0468 ppm	191.8573 ppm	0.1623 ppm	0.7614 ppm	4.5701 ppm	0.0550 ppm	88.6327 ppm
Concentration per Run 3	0.0458 ppm	190.6767 ppm	0.1639 ppm	0.7560 ppm	4.5307 ppm	0.0550 ppm	88.2511 ppm
Concentration RSD	1.7 %	0.3 %	0.6 %	0.4 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0422 ppm	0.7249 ppm	0.4208 ppm	0.6562 ppm	404.6045 ppm	21.3000 ppm	0.3671 ppm
Concentration per Run 1	0.0425 ppm	0.7303 ppm	0.4208 ppm	0.6585 ppm	405.6551 ppm	21.2439 ppm	0.3663 ppm
Concentration per Run 2	0.0424 ppm	0.7231 ppm	0.4221 ppm	0.6563 ppm	404.9599 ppm	21.3918 ppm	0.3676 ppm
Concentration per Run 3	0.0416 ppm	0.7215 ppm	0.4194 ppm	0.6540 ppm	403.1984 ppm	21.2643 ppm	0.3674 ppm
Concentration RSD	1.2 %	0.6 %	0.3 %	0.3 %	0.3 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	120.1165 ppm	11.3809 ppm	0.8342 ppm	10.4625 ppm	0.9086 ppm	0.6027 ppm	0.4135 ppm
Concentration per Run 1	119.9595 ppm	11.3597 ppm	0.8353 ppm	10.4530 ppm	0.9075 ppm	0.6043 ppm	0.4180 ppm
Concentration per Run 2	120.1555 ppm	11.3848 ppm	0.8327 ppm	10.4665 ppm	0.9110 ppm	0.6055 ppm	0.4147 ppm
Concentration per Run 3	120.2345 ppm	11.3984 ppm	0.8347 ppm	10.4680 ppm	0.9072 ppm	0.5983 ppm	0.4079 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	0.1 %	0.2 %	0.6 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1124 ppm	2.7842 ppm	0.7916 ppm	0.9812 ppm	1.8209 ppm	0.1075 ppm	0.7137 ppm
Concentration per Run 1	0.1108 ppm	2.7812 ppm	0.7919 ppm	0.9796 ppm	1.8157 ppm	0.1093 ppm	0.7153 ppm
Concentration per Run 2	0.1119 ppm	2.8000 ppm	0.7928 ppm	0.9850 ppm	1.8203 ppm	0.1063 ppm	0.7124 ppm
Concentration per Run 3	0.1144 ppm	2.7714 ppm	0.7901 ppm	0.9788 ppm	1.8267 ppm	0.1070 ppm	0.7134 ppm
Concentration RSD	1.6 %	0.5 %	0.2 %	0.3 %	0.3 %	1.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2027 ppm	118.8307 %	124.0664 %	105.2826 %	147.8556 %	153.7303 %	146.9397 %
Concentration per Run 1	1.2020 ppm	118.9652 %	124.4050 %	105.5660 %	148.1257 %	153.9079 %	147.5020 %
Concentration per Run 2	1.2035 ppm	118.7051 %	124.4297 %	104.7851 %	147.0957 %	154.3109 %	145.7923 %
Concentration per Run 3	1.2027 ppm	118.8218 %	123.3647 %	105.4966 %	148.3454 %	152.9721 %	147.5249 %
Concentration RSD	0.1 %	0.1 %	0.5 %	0.4 %	0.5 %	0.4 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-4d2 WG1975918
Analysis started at: 9/26/2024 2:53:11 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	163.0930 ppm	0.0558 ppm	0.0150 ppm	2.5650 ppm	0.0107 ppm	112.0502 ppm
Concentration per Run 1	0.0014 ppm	162.6896 ppm	0.0531 ppm	0.0151 ppm	2.5622 ppm	0.0106 ppm	112.1807 ppm
Concentration per Run 2	0.0019 ppm	163.5504 ppm	0.0582 ppm	0.0149 ppm	2.5560 ppm	0.0107 ppm	112.0448 ppm
Concentration per Run 3	0.0016 ppm	163.0392 ppm	0.0560 ppm	0.0151 ppm	2.5766 ppm	0.0107 ppm	111.9252 ppm
Concentration RSD	15.5 %	0.3 %	4.6 %	0.8 %	0.4 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.3139 ppm	0.2305 ppm	0.4242 ppm	369.2311 ppm	10.3878 ppm	0.3316 ppm
Concentration per Run 1	0.0002 ppm	0.3142 ppm	0.2312 ppm	0.4237 ppm	370.2729 ppm	10.3401 ppm	0.3339 ppm
Concentration per Run 2	-0.0001 ppm	0.3139 ppm	0.2311 ppm	0.4265 ppm	367.9947 ppm	10.4050 ppm	0.3280 ppm
Concentration per Run 3	-0.0001 ppm	0.3135 ppm	0.2294 ppm	0.4224 ppm	369.4259 ppm	10.4181 ppm	0.3329 ppm
Concentration RSD	1,147.0 %	0.1 %	0.4 %	0.5 %	0.3 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	123.1784 ppm	11.3711 ppm	0.0020 ppm	1.6746 ppm	0.4648 ppm	0.1324 ppm	0.0045 ppm
Concentration per Run 1	123.2394 ppm	11.3838 ppm	0.0023 ppm	1.6754 ppm	0.4663 ppm	0.1303 ppm	0.0048 ppm
Concentration per Run 2	123.0523 ppm	11.3742 ppm	0.0020 ppm	1.6772 ppm	0.4627 ppm	0.1337 ppm	0.0042 ppm
Concentration per Run 3	123.2434 ppm	11.3552 ppm	0.0017 ppm	1.6711 ppm	0.4654 ppm	0.1331 ppm	0.0045 ppm
Concentration RSD	0.1 %	0.1 %	14.3 %	0.2 %	0.4 %	1.4 %	6.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0074 ppm	1.7699 ppm	0.0047 ppm	0.2160 ppm	0.8990 ppm	0.0061 ppm	0.2536 ppm
Concentration per Run 1	0.0102 ppm	1.7701 ppm	0.0047 ppm	0.2159 ppm	0.8981 ppm	0.0066 ppm	0.2548 ppm
Concentration per Run 2	0.0056 ppm	1.7769 ppm	0.0051 ppm	0.2151 ppm	0.8992 ppm	0.0048 ppm	0.2536 ppm
Concentration per Run 3	0.0063 ppm	1.7627 ppm	0.0044 ppm	0.2170 ppm	0.8999 ppm	0.0069 ppm	0.2524 ppm
Concentration RSD	33.6 %	0.4 %	7.2 %	0.4 %	0.1 %	18.9 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7115 ppm	119.0156 %	121.1651 %	105.5957 %	150.6267 %	152.8538 %	148.6333 %
Concentration per Run 1	0.7132 ppm	118.4137 %	120.2559 %	105.7423 %	149.9192 %	151.9527 %	148.7103 %
Concentration per Run 2	0.7091 ppm	120.0237 %	122.1571 %	106.0403 %	152.4183 %	154.1111 %	149.4749 %
Concentration per Run 3	0.7122 ppm	118.6093 %	121.0824 %	105.0044 %	149.5427 %	152.4975 %	147.7148 %
Concentration RSD	0.3 %	0.7 %	0.8 %	0.5 %	1.0 %	0.7 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-5d2 WG1975918
Analysis started at: 9/26/2024 2:57:05 PM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0456 ppm	144.2190 ppm	0.1675 ppm	0.8156 ppm	4.0183 ppm	0.0526 ppm	177.5643 ppm
Concentration per Run 1	0.0451 ppm	144.6261 ppm	0.1682 ppm	0.8158 ppm	4.0121 ppm	0.0528 ppm	178.3073 ppm
Concentration per Run 2	0.0462 ppm	142.9593 ppm	0.1666 ppm	0.8132 ppm	3.9591 ppm	0.0518 ppm	175.5726 ppm
Concentration per Run 3	0.0456 ppm	145.0717 ppm	0.1678 ppm	0.8177 ppm	4.0838 ppm	0.0532 ppm	178.8129 ppm
Concentration RSD	1.1 %	0.8 %	0.5 %	0.3 %	1.6 %	1.3 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0414 ppm	0.7305 ppm	0.3595 ppm	0.5747 ppm	345.4692 ppm	18.1789 ppm	0.2963 ppm
Concentration per Run 1	0.0405 ppm	0.7276 ppm	0.3598 ppm	0.5751 ppm	348.1486 ppm	18.1069 ppm	0.2983 ppm
Concentration per Run 2	0.0413 ppm	0.7285 ppm	0.3586 ppm	0.5733 ppm	338.3589 ppm	17.9576 ppm	0.2899 ppm
Concentration per Run 3	0.0424 ppm	0.7354 ppm	0.3601 ppm	0.5757 ppm	349.9001 ppm	18.4721 ppm	0.3007 ppm
Concentration RSD	2.2 %	0.6 %	0.2 %	0.2 %	1.8 %	1.5 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	153.2920 ppm	12.4949 ppm	0.8434 ppm	10.4357 ppm	0.8100 ppm	0.6002 ppm	0.4236 ppm
Concentration per Run 1	153.1789 ppm	12.5602 ppm	0.8340 ppm	10.5227 ppm	0.8139 ppm	0.5965 ppm	0.4193 ppm
Concentration per Run 2	153.6544 ppm	12.3454 ppm	0.8493 ppm	10.2875 ppm	0.8097 ppm	0.5984 ppm	0.4285 ppm
Concentration per Run 3	153.0428 ppm	12.5791 ppm	0.8469 ppm	10.4968 ppm	0.8063 ppm	0.6059 ppm	0.4231 ppm
Concentration RSD	0.2 %	1.0 %	1.0 %	1.2 %	0.5 %	0.8 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1152 ppm	1.9126 ppm	0.8004 ppm	1.1031 ppm	1.6389 ppm	0.1076 ppm	0.6522 ppm
Concentration per Run 1	0.1191 ppm	1.9017 ppm	0.7998 ppm	1.1060 ppm	1.6366 ppm	0.1085 ppm	0.6520 ppm
Concentration per Run 2	0.1144 ppm	1.9225 ppm	0.8029 ppm	1.0838 ppm	1.6419 ppm	0.1065 ppm	0.6536 ppm
Concentration per Run 3	0.1121 ppm	1.9135 ppm	0.7984 ppm	1.1194 ppm	1.6381 ppm	0.1078 ppm	0.6511 ppm
Concentration RSD	3.1 %	0.5 %	0.3 %	1.6 %	0.2 %	1.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0142 ppm	115.0996 %	119.3988 %	101.6019 %	141.1468 %	147.1600 %	139.3366 %
Concentration per Run 1	1.0178 ppm	115.3572 %	120.0909 %	101.4403 %	141.6571 %	148.0596 %	138.7376 %
Concentration per Run 2	1.0154 ppm	114.8830 %	121.0684 %	102.0315 %	140.8071 %	149.2084 %	139.4214 %
Concentration per Run 3	1.0092 ppm	115.0588 %	117.0372 %	101.3339 %	140.9761 %	144.2121 %	139.8509 %
Concentration RSD	0.4 %	0.2 %	1.8 %	0.4 %	0.3 %	1.8 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-6d10 WG1975918
Analysis started at: 9/26/2024 3:01:00 PM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	31.6860 ppm	0.0117 ppm	0.0068 ppm	0.5187 ppm	0.0022 ppm	39.4334 ppm
Concentration per Run 1	0.0015 ppm	31.9126 ppm	0.0135 ppm	0.0075 ppm	0.5206 ppm	0.0022 ppm	39.4721 ppm
Concentration per Run 2	0.0009 ppm	31.7157 ppm	0.0111 ppm	0.0077 ppm	0.5182 ppm	0.0023 ppm	39.5097 ppm
Concentration per Run 3	0.0011 ppm	31.4295 ppm	0.0104 ppm	0.0052 ppm	0.5174 ppm	0.0023 ppm	39.3182 ppm
Concentration RSD	25.3 %	0.8 %	14.0 %	20.6 %	0.3 %	2.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0801 ppm	0.0453 ppm	0.0808 ppm	83.8971 ppm	2.0139 ppm	0.0649 ppm
Concentration per Run 1	-0.0002 ppm	0.0799 ppm	0.0454 ppm	0.0809 ppm	83.4106 ppm	2.0608 ppm	0.0657 ppm
Concentration per Run 2	0.0001 ppm	0.0797 ppm	0.0456 ppm	0.0806 ppm	83.9295 ppm	2.0153 ppm	0.0643 ppm
Concentration per Run 3	0.0001 ppm	0.0806 ppm	0.0448 ppm	0.0808 ppm	84.3511 ppm	1.9658 ppm	0.0648 ppm
Concentration RSD	8,485.1 %	0.6 %	0.8 %	0.2 %	0.6 %	2.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.8956 ppm	2.8360 ppm	0.0010 ppm	0.3318 ppm	0.1010 ppm	0.0320 ppm	0.0027 ppm
Concentration per Run 1	33.8051 ppm	2.8468 ppm	0.0013 ppm	0.3340 ppm	0.1000 ppm	0.0326 ppm	0.0002 ppm
Concentration per Run 2	33.9282 ppm	2.8308 ppm	0.0008 ppm	0.3329 ppm	0.1018 ppm	0.0308 ppm	0.0033 ppm
Concentration per Run 3	33.9535 ppm	2.8302 ppm	0.0009 ppm	0.3287 ppm	0.1011 ppm	0.0326 ppm	0.0046 ppm
Concentration RSD	0.2 %	0.3 %	26.1 %	0.8 %	0.9 %	3.2 %	84.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	0.3403 ppm	0.0019 ppm	0.0612 ppm	0.1756 ppm	0.0007 ppm	0.0507 ppm
Concentration per Run 1	0.0048 ppm	0.3420 ppm	0.0021 ppm	0.0614 ppm	0.1751 ppm	0.0004 ppm	0.0509 ppm
Concentration per Run 2	0.0048 ppm	0.3428 ppm	0.0015 ppm	0.0612 ppm	0.1760 ppm	0.0010 ppm	0.0510 ppm
Concentration per Run 3	0.0051 ppm	0.3361 ppm	0.0020 ppm	0.0611 ppm	0.1756 ppm	0.0009 ppm	0.0502 ppm
Concentration RSD	3.4 %	1.1 %	17.4 %	0.2 %	0.3 %	39.3 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1468 ppm	112.9152 %	112.5410 %	107.6635 %	118.3932 %	117.2379 %	117.3135 %
Concentration per Run 1	0.1467 ppm	113.4766 %	112.9994 %	108.4812 %	118.8718 %	118.2734 %	117.9167 %
Concentration per Run 2	0.1479 ppm	112.4310 %	112.2110 %	106.5823 %	117.7643 %	116.7735 %	116.3177 %
Concentration per Run 3	0.1457 ppm	112.8380 %	112.4126 %	107.9271 %	118.5434 %	116.6668 %	117.7062 %
Concentration RSD	0.8 %	0.5 %	0.4 %	0.9 %	0.5 %	0.8 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:04:55 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4939 ppm	0.4549 ppm	0.4732 ppm	0.4763 ppm	0.4824 ppm	0.4948 ppm	0.4794 ppm
Concentration per Run 1	0.4943 ppm	0.4526 ppm	0.4719 ppm	0.4787 ppm	0.4827 ppm	0.4941 ppm	0.4807 ppm
Concentration per Run 2	0.4940 ppm	0.4590 ppm	0.4733 ppm	0.4752 ppm	0.4841 ppm	0.4973 ppm	0.4799 ppm
Concentration per Run 3	0.4933 ppm	0.4531 ppm	0.4744 ppm	0.4751 ppm	0.4803 ppm	0.4930 ppm	0.4777 ppm
Recovery Percentage 1	98.780 %	90.980 %	94.641 %	95.266 %	96.476 %	98.956 %	95.883 %
Concentration RSD	0.1 %	0.8 %	0.3 %	0.4 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4909 ppm	0.4976 ppm	0.4759 ppm	0.4765 ppm	0.4929 ppm	5.0049 ppm	0.4724 ppm
Concentration per Run 1	0.4889 ppm	0.4973 ppm	0.4766 ppm	0.4757 ppm	0.4910 ppm	5.0001 ppm	0.4737 ppm
Concentration per Run 2	0.4914 ppm	0.4992 ppm	0.4771 ppm	0.4763 ppm	0.4948 ppm	5.0215 ppm	0.4733 ppm
Concentration per Run 3	0.4925 ppm	0.4962 ppm	0.4740 ppm	0.4773 ppm	0.4931 ppm	4.9931 ppm	0.4701 ppm
Recovery Percentage 1	98.181 %	99.510 %	95.178 %	95.291 %	98.585 %	100.099 %	94.475 %
Concentration RSD	0.4 %	0.3 %	0.3 %	0.2 %	0.4 %	0.3 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4755 ppm	0.4732 ppm	0.4709 ppm	9.6196 ppm	0.4885 ppm	0.4851 ppm	0.4966 ppm
Concentration per Run 1	0.4769 ppm	0.4737 ppm	0.4702 ppm	9.5937 ppm	0.4905 ppm	0.4846 ppm	0.4950 ppm
Concentration per Run 2	0.4718 ppm	0.4718 ppm	0.4722 ppm	9.6537 ppm	0.4872 ppm	0.4839 ppm	0.4959 ppm
Concentration per Run 3	0.4778 ppm	0.4741 ppm	0.4704 ppm	9.6114 ppm	0.4880 ppm	0.4867 ppm	0.4989 ppm
Recovery Percentage 1	95.101 %	94.642 %	94.188 %	96.196 %	97.708 %	97.013 %	99.319 %
Concentration RSD	0.7 %	0.3 %	0.2 %	0.3 %	0.4 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4910 ppm	5.2369 ppm	0.4621 ppm	0.4569 ppm	0.4808 ppm	0.4825 ppm	0.4755 ppm
Concentration per Run 1	0.4870 ppm	5.2256 ppm	0.4634 ppm	0.4579 ppm	0.4811 ppm	0.4804 ppm	0.4754 ppm
Concentration per Run 2	0.4922 ppm	5.2389 ppm	0.4613 ppm	0.4578 ppm	0.4813 ppm	0.4830 ppm	0.4745 ppm
Concentration per Run 3	0.4938 ppm	5.2461 ppm	0.4616 ppm	0.4549 ppm	0.4800 ppm	0.4840 ppm	0.4766 ppm
Recovery Percentage 1	98.192 %	99.751 %	92.419 %	91.381 %	96.159 %	96.493 %	95.099 %
Concentration RSD	0.7 %	0.2 %	0.3 %	0.4 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4933 ppm	111.1331 %	109.2937 %	110.8260 %	110.6853 %	107.9582 %	110.4332 %
Concentration per Run 1	0.4948 ppm	111.0265 %	109.5423 %	111.7598 %	110.5933 %	108.4746 %	111.1424 %
Concentration per Run 2	0.4938 ppm	111.7558 %	109.1336 %	109.8745 %	111.4075 %	107.7920 %	109.5186 %
Concentration per Run 3	0.4914 ppm	110.6171 %	109.2051 %	110.8437 %	110.0550 %	107.6081 %	110.6388 %
Recovery Percentage 1	98.665 %						
Concentration RSD	0.4 %	0.5 %	0.2 %	0.9 %	0.6 %	0.4 %	0.8 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 3:08:49 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0043 ppm	0.0007 ppm	0.0022 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 1	0.0003 ppm	-0.0009 ppm	0.0012 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	0.0003 ppm	-0.0080 ppm	0.0000 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	-0.0022 ppm
Concentration per Run 3	0.0011 ppm	-0.0042 ppm	0.0008 ppm	0.0032 ppm	0.0000 ppm	0.0001 ppm	0.0058 ppm
Recovery Percentage 1	7.826 %	-4.339 %	13.203 %	7.456 %	1.088 %	1.327 %	1.327 %
Concentration RSD	81.1 %	81.5 %	96.1 %	40.2 %	76.0 %	92.9 %	307.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0015 ppm	0.0129 ppm	-0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0009 ppm	-0.0002 ppm	-0.0001 ppm	0.0034 ppm	-0.0013 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	-0.0005 ppm	0.0007 ppm	0.0003 ppm	0.0302 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0002 ppm	0.0042 ppm	0.0051 ppm	-0.0007 ppm
Recovery Percentage 1	-0.516 %	3.654 %	0.438 %	2.162 %	2.984 %	0.516 %	-18.417 %
Concentration RSD	288.0 %	47.6 %	1,731.4 %	208.9 %	158.1 %	116.4 %	34.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0001 ppm	0.0011 ppm	-0.0095 ppm	-0.0005 ppm	0.0005 ppm	0.0026 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0011 ppm	-0.0090 ppm	-0.0012 ppm	0.0012 ppm	0.0025 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0013 ppm	-0.0114 ppm	0.0000 ppm	0.0003 ppm	0.0042 ppm
Concentration per Run 3	0.0025 ppm	0.0000 ppm	0.0008 ppm	-0.0081 ppm	-0.0002 ppm	-0.0001 ppm	0.0012 ppm
Recovery Percentage 1	0.764 %	0.896 %	2.211 %	-0.474 %	-1.807 %	4.590 %	5.236 %
Concentration RSD	200.8 %	171.7 %	22.2 %	17.8 %	142.3 %	152.9 %	57.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	-0.0008 ppm	-0.0007 ppm	0.0002 ppm	-0.0006 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0005 ppm	-0.0018 ppm	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 2	0.0044 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 3	0.0024 ppm	-0.0019 ppm	-0.0004 ppm	0.0003 ppm	-0.0011 ppm	-0.0010 ppm	0.0002 ppm
Recovery Percentage 1	24.659 %	-0.152 %	-1.496 %	1.522 %	-5.886 %	-1.188 %	0.724 %
Concentration RSD	77.8 %	139.4 %	122.1 %	75.9 %	72.4 %	339.7 %	177.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	110.7950 %	108.6873 %	111.3878 %	111.7910 %	108.5606 %	110.8819 %
Concentration per Run 1	0.0002 ppm	110.8049 %	109.1385 %	111.7303 %	111.9864 %	108.4606 %	110.6358 %
Concentration per Run 2	-0.0001 ppm	110.1180 %	109.6054 %	111.8549 %	111.7803 %	109.6911 %	111.4259 %
Concentration per Run 3	-0.0002 ppm	111.4622 %	107.3180 %	110.5781 %	111.6063 %	107.5300 %	110.5838 %
Recovery Percentage 1	-0.748 %						
Concentration RSD	457.9 %	0.6 %	1.1 %	0.6 %	0.2 %	1.0 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2452855-11d2 WG1975918
Analysis started at: 9/26/2024 3:22:29 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	133.9578 ppm	0.0344 ppm	0.4264 ppm	0.9476 ppm	0.0091 ppm	63.5902 ppm
Concentration per Run 1	0.0016 ppm	134.5305 ppm	0.0361 ppm	0.4198 ppm	0.9481 ppm	0.0092 ppm	63.8649 ppm
Concentration per Run 2	0.0028 ppm	133.3771 ppm	0.0356 ppm	0.4263 ppm	0.9493 ppm	0.0091 ppm	63.3495 ppm
Concentration per Run 3	0.0030 ppm	133.9657 ppm	0.0315 ppm	0.4331 ppm	0.9453 ppm	0.0091 ppm	63.5561 ppm
Concentration RSD	29.1 %	0.4 %	7.2 %	1.6 %	0.2 %	0.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.1685 ppm	0.3162 ppm	1.3138 ppm	304.4196 ppm	7.3911 ppm	0.3033 ppm
Concentration per Run 1	0.0013 ppm	0.1681 ppm	0.3125 ppm	1.3095 ppm	305.6853 ppm	7.4095 ppm	0.3033 ppm
Concentration per Run 2	0.0013 ppm	0.1663 ppm	0.3172 ppm	1.3044 ppm	303.9238 ppm	7.3741 ppm	0.3035 ppm
Concentration per Run 3	0.0012 ppm	0.1710 ppm	0.3187 ppm	1.3275 ppm	303.6498 ppm	7.3898 ppm	0.3031 ppm
Concentration RSD	5.1 %	1.4 %	1.0 %	0.9 %	0.4 %	0.2 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	118.3530 ppm	6.3710 ppm	0.0033 ppm	4.3972 ppm	0.3287 ppm	0.1578 ppm	0.0016 ppm
Concentration per Run 1	117.7620 ppm	6.3975 ppm	0.0036 ppm	4.4213 ppm	0.3248 ppm	0.1572 ppm	0.0068 ppm
Concentration per Run 2	117.9375 ppm	6.3510 ppm	0.0028 ppm	4.3982 ppm	0.3286 ppm	0.1593 ppm	0.0021 ppm
Concentration per Run 3	119.3593 ppm	6.3644 ppm	0.0034 ppm	4.3720 ppm	0.3326 ppm	0.1567 ppm	-0.0040 ppm
Concentration RSD	0.7 %	0.4 %	12.8 %	0.6 %	1.2 %	0.9 %	328.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	1.8674 ppm	0.0079 ppm	0.4265 ppm	5.4287 ppm	0.0050 ppm	0.5314 ppm
Concentration per Run 1	-0.0007 ppm	1.8486 ppm	0.0074 ppm	0.4265 ppm	5.3992 ppm	0.0073 ppm	0.5278 ppm
Concentration per Run 2	-0.0005 ppm	1.8668 ppm	0.0072 ppm	0.4267 ppm	5.4152 ppm	0.0034 ppm	0.5305 ppm
Concentration per Run 3	-0.0007 ppm	1.8868 ppm	0.0092 ppm	0.4262 ppm	5.4717 ppm	0.0042 ppm	0.5359 ppm
Concentration RSD	20.4 %	1.0 %	13.4 %	0.1 %	0.7 %	42.2 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7468 ppm	111.9443 %	118.2139 %	105.0861 %	137.9932 %	146.1602 %	137.8167 %
Concentration per Run 1	0.7389 ppm	112.4546 %	117.6450 %	105.5843 %	138.1281 %	145.5216 %	138.4687 %
Concentration per Run 2	0.7489 ppm	111.5083 %	119.2299 %	104.1864 %	137.2617 %	146.9692 %	136.7174 %
Concentration per Run 3	0.7527 ppm	111.8699 %	117.7667 %	105.4876 %	138.5896 %	145.9898 %	138.2640 %
Concentration RSD	1.0 %	0.4 %	0.7 %	0.7 %	0.5 %	0.5 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-14d2 WG1975918
Analysis started at: 9/26/2024 3:26:38 PM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	146.2519 ppm	0.2016 ppm	0.0048 ppm	0.8193 ppm	0.0084 ppm	9.9457 ppm
Concentration per Run 1	0.0017 ppm	146.5326 ppm	0.2032 ppm	0.0052 ppm	0.8192 ppm	0.0084 ppm	9.9625 ppm
Concentration per Run 2	0.0014 ppm	145.9216 ppm	0.2020 ppm	0.0037 ppm	0.8155 ppm	0.0084 ppm	9.9218 ppm
Concentration per Run 3	0.0022 ppm	146.3015 ppm	0.1996 ppm	0.0056 ppm	0.8231 ppm	0.0083 ppm	9.9527 ppm
Concentration RSD	22.1 %	0.2 %	0.9 %	20.5 %	0.5 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0852 ppm	0.2217 ppm	0.4312 ppm	303.9164 ppm	6.5888 ppm	0.1244 ppm
Concentration per Run 1	0.0009 ppm	0.0853 ppm	0.2216 ppm	0.4301 ppm	304.3963 ppm	6.6133 ppm	0.1270 ppm
Concentration per Run 2	0.0010 ppm	0.0850 ppm	0.2216 ppm	0.4306 ppm	302.2827 ppm	6.5653 ppm	0.1230 ppm
Concentration per Run 3	0.0012 ppm	0.0853 ppm	0.2219 ppm	0.4330 ppm	305.0701 ppm	6.5876 ppm	0.1233 ppm
Concentration RSD	17.3 %	0.2 %	0.1 %	0.4 %	0.5 %	0.4 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.6623 ppm	3.7999 ppm	0.0118 ppm	1.0750 ppm	0.1608 ppm	0.1756 ppm	0.0095 ppm
Concentration per Run 1	24.6105 ppm	3.7923 ppm	0.0121 ppm	1.0836 ppm	0.1611 ppm	0.1772 ppm	0.0062 ppm
Concentration per Run 2	24.6916 ppm	3.7928 ppm	0.0115 ppm	1.0660 ppm	0.1608 ppm	0.1740 ppm	0.0070 ppm
Concentration per Run 3	24.6848 ppm	3.8147 ppm	0.0117 ppm	1.0755 ppm	0.1604 ppm	0.1754 ppm	0.0153 ppm
Concentration RSD	0.2 %	0.3 %	2.7 %	0.8 %	0.2 %	0.9 %	52.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0125 ppm	1.7116 ppm	0.0044 ppm	0.0560 ppm	0.2859 ppm	0.0035 ppm	0.3832 ppm
Concentration per Run 1	0.0141 ppm	1.7148 ppm	0.0044 ppm	0.0561 ppm	0.2831 ppm	0.0047 ppm	0.3828 ppm
Concentration per Run 2	0.0128 ppm	1.7009 ppm	0.0027 ppm	0.0556 ppm	0.2865 ppm	0.0017 ppm	0.3829 ppm
Concentration per Run 3	0.0104 ppm	1.7192 ppm	0.0062 ppm	0.0561 ppm	0.2882 ppm	0.0040 ppm	0.3839 ppm
Concentration RSD	15.0 %	0.6 %	39.3 %	0.5 %	0.9 %	46.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5768 ppm	117.1881 %	119.1738 %	107.6055 %	144.9307 %	147.6604 %	144.6124 %
Concentration per Run 1	0.5776 ppm	117.4344 %	119.1369 %	107.3067 %	144.2492 %	147.3935 %	144.8808 %
Concentration per Run 2	0.5746 ppm	117.2182 %	119.5139 %	107.3867 %	145.6415 %	148.1493 %	143.6568 %
Concentration per Run 3	0.5782 ppm	116.9117 %	118.8707 %	108.1231 %	144.9016 %	147.4385 %	145.2997 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.4 %	0.5 %	0.3 %	0.6 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-15d2 WG1975918
Analysis started at: 9/26/2024 3:30:32 PM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0027 ppm	172.0697 ppm	0.1328 ppm	0.0063 ppm	1.4847 ppm	0.0101 ppm	9.4869 ppm
Concentration per Run 1	0.0023 ppm	172.1752 ppm	0.1335 ppm	0.0077 ppm	1.4806 ppm	0.0101 ppm	9.5016 ppm
Concentration per Run 2	0.0025 ppm	171.5401 ppm	0.1325 ppm	0.0045 ppm	1.4832 ppm	0.0101 ppm	9.4622 ppm
Concentration per Run 3	0.0035 ppm	172.4937 ppm	0.1323 ppm	0.0068 ppm	1.4904 ppm	0.0102 ppm	9.4967 ppm
Concentration RSD	22.9 %	0.3 %	0.5 %	25.6 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.2159 ppm	0.2465 ppm	0.4440 ppm	369.2677 ppm	8.6254 ppm	0.2754 ppm
Concentration per Run 1	0.0001 ppm	0.2150 ppm	0.2466 ppm	0.4407 ppm	369.3612 ppm	8.6257 ppm	0.2760 ppm
Concentration per Run 2	0.0003 ppm	0.2165 ppm	0.2458 ppm	0.4433 ppm	368.7491 ppm	8.6120 ppm	0.2754 ppm
Concentration per Run 3	0.0005 ppm	0.2163 ppm	0.2471 ppm	0.4480 ppm	369.6929 ppm	8.6386 ppm	0.2748 ppm
Concentration RSD	63.8 %	0.4 %	0.3 %	0.8 %	0.1 %	0.2 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.4828 ppm	4.3318 ppm	0.0033 ppm	5.4996 ppm	0.3000 ppm	0.1600 ppm	0.0065 ppm
Concentration per Run 1	53.4486 ppm	4.3331 ppm	0.0033 ppm	5.5190 ppm	0.2995 ppm	0.1592 ppm	0.0068 ppm
Concentration per Run 2	53.5703 ppm	4.3295 ppm	0.0036 ppm	5.4888 ppm	0.3004 ppm	0.1607 ppm	0.0094 ppm
Concentration per Run 3	53.4295 ppm	4.3327 ppm	0.0031 ppm	5.4911 ppm	0.3001 ppm	0.1600 ppm	0.0031 ppm
Concentration RSD	0.1 %	0.0 %	6.4 %	0.3 %	0.2 %	0.5 %	48.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0063 ppm	1.0985 ppm	0.0044 ppm	0.0705 ppm	0.5724 ppm	0.0032 ppm	0.2947 ppm
Concentration per Run 1	0.0084 ppm	1.0936 ppm	0.0052 ppm	0.0705 ppm	0.5725 ppm	0.0032 ppm	0.2942 ppm
Concentration per Run 2	0.0046 ppm	1.0931 ppm	0.0038 ppm	0.0704 ppm	0.5706 ppm	0.0033 ppm	0.2951 ppm
Concentration per Run 3	0.0059 ppm	1.1088 ppm	0.0042 ppm	0.0708 ppm	0.5740 ppm	0.0031 ppm	0.2948 ppm
Concentration RSD	30.2 %	0.8 %	16.3 %	0.3 %	0.3 %	2.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6497 ppm	118.3694 %	121.5140 %	107.0064 %	142.1637 %	145.8286 %	141.4754 %
Concentration per Run 1	0.6496 ppm	119.4203 %	121.8740 %	106.6063 %	142.8984 %	146.7098 %	140.7953 %
Concentration per Run 2	0.6494 ppm	117.2744 %	121.1087 %	107.6857 %	140.6828 %	144.9540 %	142.6023 %
Concentration per Run 3	0.6500 ppm	118.4136 %	121.5594 %	106.7274 %	142.9099 %	145.8220 %	141.0287 %
Concentration RSD	0.1 %	0.9 %	0.3 %	0.6 %	0.9 %	0.6 %	0.7 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-01d2 WG1975918
Analysis started at: 9/26/2024 3:34:25 PM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	241.1044 ppm	-0.0004 ppm	0.0041 ppm	2.4953 ppm	0.0080 ppm	22.6496 ppm
Concentration per Run 1	0.0018 ppm	241.7658 ppm	-0.0031 ppm	0.0062 ppm	2.4937 ppm	0.0084 ppm	22.6899 ppm
Concentration per Run 2	0.0011 ppm	240.2219 ppm	0.0024 ppm	0.0030 ppm	2.4936 ppm	0.0079 ppm	22.6173 ppm
Concentration per Run 3	0.0024 ppm	241.3256 ppm	-0.0005 ppm	0.0031 ppm	2.4984 ppm	0.0078 ppm	22.6415 ppm
Concentration RSD	35.1 %	0.3 %	663.7 %	44.2 %	0.1 %	4.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1988 ppm	0.6344 ppm	0.5612 ppm	361.9704 ppm	137.3071 ppm	0.2578 ppm
Concentration per Run 1	0.0004 ppm	0.1969 ppm	0.6322 ppm	0.5570 ppm	362.5244 ppm	136.5728 ppm	0.2592 ppm
Concentration per Run 2	0.0003 ppm	0.1977 ppm	0.6298 ppm	0.5626 ppm	361.5986 ppm	137.2995 ppm	0.2563 ppm
Concentration per Run 3	-0.0001 ppm	0.2018 ppm	0.6411 ppm	0.5641 ppm	361.7881 ppm	138.0490 ppm	0.2579 ppm
Concentration RSD	126.9 %	1.3 %	0.9 %	0.7 %	0.1 %	0.5 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	105.9578 ppm	5.1746 ppm	0.0015 ppm	1.7439 ppm	0.4860 ppm	0.1385 ppm	-0.0035 ppm
Concentration per Run 1	105.8097 ppm	5.1718 ppm	0.0011 ppm	1.7512 ppm	0.4837 ppm	0.1389 ppm	-0.0031 ppm
Concentration per Run 2	105.4597 ppm	5.1707 ppm	0.0011 ppm	1.7309 ppm	0.4843 ppm	0.1386 ppm	-0.0031 ppm
Concentration per Run 3	106.6041 ppm	5.1814 ppm	0.0023 ppm	1.7497 ppm	0.4899 ppm	0.1382 ppm	-0.0043 ppm
Concentration RSD	0.6 %	0.1 %	45.4 %	0.6 %	0.7 %	0.3 %	20.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	0.5674 ppm	0.0310 ppm	0.1674 ppm	28.9998 ppm	0.0197 ppm	0.6639 ppm
Concentration per Run 1	-0.0009 ppm	0.5562 ppm	0.0313 ppm	0.1674 ppm	28.9976 ppm	0.0205 ppm	0.6607 ppm
Concentration per Run 2	0.0027 ppm	0.5595 ppm	0.0295 ppm	0.1673 ppm	28.8209 ppm	0.0212 ppm	0.6660 ppm
Concentration per Run 3	0.0038 ppm	0.5866 ppm	0.0323 ppm	0.1674 ppm	29.1809 ppm	0.0175 ppm	0.6649 ppm
Concentration RSD	132.3 %	2.9 %	4.6 %	0.0 %	0.6 %	10.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8641 ppm	124.8724 %	131.2041 %	129.0689 %	128.4791 %	134.9115 %	128.4516 %
Concentration per Run 1	0.8593 ppm	126.0723 %	131.1414 %	128.3737 %	129.6352 %	135.7805 %	128.0145 %
Concentration per Run 2	0.8606 ppm	124.2051 %	130.9313 %	129.6795 %	127.9162 %	134.1138 %	128.3151 %
Concentration per Run 3	0.8724 ppm	124.3399 %	131.5397 %	129.1536 %	127.8857 %	134.8401 %	129.0253 %
Concentration RSD	0.8 %	0.8 %	0.2 %	0.5 %	0.8 %	0.6 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-02d2 WG1975918
Analysis started at: 9/26/2024 3:38:19 PM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	168.8312 ppm	0.0002 ppm	0.0017 ppm	1.8960 ppm	0.0038 ppm	11.9255 ppm
Concentration per Run 1	0.0010 ppm	168.1335 ppm	0.0008 ppm	0.0010 ppm	1.8977 ppm	0.0038 ppm	11.8952 ppm
Concentration per Run 2	0.0008 ppm	169.1062 ppm	0.0006 ppm	0.0019 ppm	1.8955 ppm	0.0038 ppm	11.9323 ppm
Concentration per Run 3	0.0017 ppm	169.2540 ppm	-0.0009 ppm	0.0022 ppm	1.8947 ppm	0.0038 ppm	11.9491 ppm
Concentration RSD	39.9 %	0.4 %	489.1 %	37.6 %	0.1 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1768 ppm	0.3736 ppm	0.4309 ppm	268.2668 ppm	111.1660 ppm	0.1659 ppm
Concentration per Run 1	0.0005 ppm	0.1770 ppm	0.3741 ppm	0.4313 ppm	268.6093 ppm	110.9292 ppm	0.1673 ppm
Concentration per Run 2	-0.0001 ppm	0.1749 ppm	0.3720 ppm	0.4292 ppm	268.2797 ppm	111.3144 ppm	0.1664 ppm
Concentration per Run 3	0.0001 ppm	0.1783 ppm	0.3746 ppm	0.4323 ppm	267.9114 ppm	111.2545 ppm	0.1640 ppm
Concentration RSD	145.3 %	1.0 %	0.4 %	0.4 %	0.1 %	0.2 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	70.0818 ppm	3.0889 ppm	0.0046 ppm	1.8215 ppm	0.1971 ppm	0.0620 ppm	0.0018 ppm
Concentration per Run 1	70.1493 ppm	3.0786 ppm	0.0048 ppm	1.8183 ppm	0.1967 ppm	0.0611 ppm	0.0040 ppm
Concentration per Run 2	69.8824 ppm	3.0948 ppm	0.0048 ppm	1.8215 ppm	0.1968 ppm	0.0622 ppm	-0.0003 ppm
Concentration per Run 3	70.2137 ppm	3.0932 ppm	0.0041 ppm	1.8247 ppm	0.1978 ppm	0.0626 ppm	0.0017 ppm
Concentration RSD	0.3 %	0.3 %	8.3 %	0.2 %	0.3 %	1.2 %	120.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	0.6793 ppm	0.0196 ppm	0.0572 ppm	22.5282 ppm	0.0152 ppm	0.4995 ppm
Concentration per Run 1	0.0014 ppm	0.6881 ppm	0.0195 ppm	0.0572 ppm	22.4599 ppm	0.0156 ppm	0.4986 ppm
Concentration per Run 2	-0.0009 ppm	0.6784 ppm	0.0190 ppm	0.0571 ppm	22.4772 ppm	0.0154 ppm	0.4993 ppm
Concentration per Run 3	0.0045 ppm	0.6713 ppm	0.0203 ppm	0.0572 ppm	22.6475 ppm	0.0145 ppm	0.5005 ppm
Concentration RSD	162.8 %	1.2 %	3.3 %	0.1 %	0.5 %	3.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5690 ppm	121.3566 %	125.0973 %	124.0427 %	122.3647 %	125.4843 %	121.5312 %
Concentration per Run 1	0.5708 ppm	121.8254 %	123.8749 %	124.6997 %	122.7703 %	123.8704 %	121.9121 %
Concentration per Run 2	0.5699 ppm	121.4411 %	126.2872 %	123.3423 %	122.4799 %	126.8901 %	121.8012 %
Concentration per Run 3	0.5661 ppm	120.8033 %	125.1298 %	124.0860 %	121.8439 %	125.6924 %	120.8802 %
Concentration RSD	0.4 %	0.4 %	1.0 %	0.5 %	0.4 %	1.2 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-03d2 WG1975918
Analysis started at: 9/26/2024 3:42:12 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	121.2859 ppm	0.0029 ppm	0.0096 ppm	1.5101 ppm	0.0031 ppm	36.2018 ppm
Concentration per Run 1	0.0009 ppm	121.8414 ppm	0.0045 ppm	0.0073 ppm	1.5204 ppm	0.0029 ppm	36.3541 ppm
Concentration per Run 2	0.0010 ppm	121.1227 ppm	0.0026 ppm	0.0103 ppm	1.5057 ppm	0.0033 ppm	36.0712 ppm
Concentration per Run 3	0.0009 ppm	120.8938 ppm	0.0016 ppm	0.0111 ppm	1.5040 ppm	0.0031 ppm	36.1802 ppm
Concentration RSD	2.3 %	0.4 %	51.5 %	20.9 %	0.6 %	5.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1028 ppm	0.2545 ppm	0.1448 ppm	227.4062 ppm	93.8173 ppm	0.1783 ppm
Concentration per Run 1	0.0001 ppm	0.1009 ppm	0.2553 ppm	0.1443 ppm	227.2178 ppm	94.4529 ppm	0.1802 ppm
Concentration per Run 2	0.0005 ppm	0.1050 ppm	0.2549 ppm	0.1458 ppm	228.1741 ppm	93.5022 ppm	0.1774 ppm
Concentration per Run 3	0.0002 ppm	0.1023 ppm	0.2534 ppm	0.1443 ppm	226.8269 ppm	93.4966 ppm	0.1773 ppm
Concentration RSD	75.9 %	2.0 %	0.4 %	0.6 %	0.3 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	57.1604 ppm	2.7599 ppm	0.0023 ppm	1.5126 ppm	0.2345 ppm	0.0822 ppm	0.0055 ppm
Concentration per Run 1	57.2347 ppm	2.7669 ppm	0.0021 ppm	1.5100 ppm	0.2360 ppm	0.0829 ppm	0.0027 ppm
Concentration per Run 2	57.2387 ppm	2.7571 ppm	0.0020 ppm	1.5184 ppm	0.2327 ppm	0.0802 ppm	0.0049 ppm
Concentration per Run 3	57.0077 ppm	2.7556 ppm	0.0026 ppm	1.5093 ppm	0.2347 ppm	0.0836 ppm	0.0089 ppm
Concentration RSD	0.2 %	0.2 %	14.4 %	0.3 %	0.7 %	2.2 %	56.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	3.0849 ppm	0.0232 ppm	0.1802 ppm	20.0835 ppm	0.0108 ppm	0.4109 ppm
Concentration per Run 1	0.0038 ppm	3.0930 ppm	0.0210 ppm	0.1804 ppm	20.1188 ppm	0.0131 ppm	0.4112 ppm
Concentration per Run 2	0.0034 ppm	3.0982 ppm	0.0249 ppm	0.1804 ppm	20.0994 ppm	0.0100 ppm	0.4104 ppm
Concentration per Run 3	0.0035 ppm	3.0635 ppm	0.0236 ppm	0.1799 ppm	20.0322 ppm	0.0094 ppm	0.4110 ppm
Concentration RSD	6.3 %	0.6 %	8.5 %	0.2 %	0.2 %	18.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5283 ppm	118.7965 %	121.4879 %	119.9835 %	125.1836 %	127.7891 %	124.0628 %
Concentration per Run 1	0.5293 ppm	120.3758 %	121.3542 %	121.2146 %	126.7294 %	127.7041 %	124.5762 %
Concentration per Run 2	0.5303 ppm	117.9051 %	121.2515 %	119.9522 %	124.2099 %	127.4400 %	124.0964 %
Concentration per Run 3	0.5254 ppm	118.1086 %	121.8578 %	118.7836 %	124.6113 %	128.2232 %	123.5159 %
Concentration RSD	0.5 %	1.2 %	0.3 %	1.0 %	1.1 %	0.3 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-04d2 WG1975918
Analysis started at: 9/26/2024 3:46:05 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	148.6103 ppm	-0.0014 ppm	0.0026 ppm	1.6503 ppm	0.0028 ppm	13.4197 ppm
Concentration per Run 1	0.0004 ppm	148.5837 ppm	0.0006 ppm	0.0010 ppm	1.6584 ppm	0.0025 ppm	13.4231 ppm
Concentration per Run 2	0.0005 ppm	148.9043 ppm	-0.0018 ppm	0.0025 ppm	1.6507 ppm	0.0028 ppm	13.4221 ppm
Concentration per Run 3	0.0005 ppm	148.3429 ppm	-0.0031 ppm	0.0041 ppm	1.6417 ppm	0.0032 ppm	13.4140 ppm
Concentration RSD	17.1 %	0.2 %	130.0 %	60.4 %	0.5 %	11.7 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0884 ppm	0.3337 ppm	0.3772 ppm	260.5257 ppm	107.0194 ppm	0.1857 ppm
Concentration per Run 1	0.0001 ppm	0.0898 ppm	0.3310 ppm	0.3765 ppm	259.7936 ppm	107.1930 ppm	0.1881 ppm
Concentration per Run 2	0.0002 ppm	0.0885 ppm	0.3369 ppm	0.3798 ppm	260.7504 ppm	107.5323 ppm	0.1856 ppm
Concentration per Run 3	0.0002 ppm	0.0869 ppm	0.3332 ppm	0.3754 ppm	261.0330 ppm	106.3328 ppm	0.1834 ppm
Concentration RSD	32.8 %	1.6 %	0.9 %	0.6 %	0.2 %	0.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	62.9009 ppm	2.6803 ppm	0.0009 ppm	1.4758 ppm	0.1540 ppm	0.0423 ppm	0.0012 ppm
Concentration per Run 1	62.8531 ppm	2.6908 ppm	0.0012 ppm	1.4768 ppm	0.1523 ppm	0.0420 ppm	0.0041 ppm
Concentration per Run 2	63.2080 ppm	2.6877 ppm	0.0005 ppm	1.4752 ppm	0.1554 ppm	0.0429 ppm	-0.0014 ppm
Concentration per Run 3	62.6414 ppm	2.6623 ppm	0.0009 ppm	1.4754 ppm	0.1541 ppm	0.0422 ppm	0.0009 ppm
Concentration RSD	0.5 %	0.6 %	38.2 %	0.1 %	1.0 %	1.1 %	225.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	1.1457 ppm	0.0241 ppm	0.1078 ppm	21.8406 ppm	0.0134 ppm	0.5057 ppm
Concentration per Run 1	0.0059 ppm	1.1634 ppm	0.0229 ppm	0.1081 ppm	21.7512 ppm	0.0129 ppm	0.5057 ppm
Concentration per Run 2	-0.0032 ppm	1.1400 ppm	0.0241 ppm	0.1077 ppm	21.9605 ppm	0.0127 ppm	0.5075 ppm
Concentration per Run 3	0.0023 ppm	1.1336 ppm	0.0254 ppm	0.1075 ppm	21.8101 ppm	0.0147 ppm	0.5040 ppm
Concentration RSD	276.5 %	1.4 %	5.2 %	0.3 %	0.5 %	8.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5858 ppm	120.4157 %	123.6395 %	123.3963 %	117.4440 %	120.2817 %	117.6002 %
Concentration per Run 1	0.5816 ppm	121.1619 %	123.9612 %	123.2477 %	118.1957 %	120.6079 %	117.5690 %
Concentration per Run 2	0.5881 ppm	119.9917 %	123.2798 %	123.3274 %	117.2687 %	119.7697 %	117.8251 %
Concentration per Run 3	0.5877 ppm	120.0937 %	123.6777 %	123.6139 %	116.8674 %	120.4675 %	117.4066 %
Concentration RSD	0.6 %	0.5 %	0.3 %	0.2 %	0.6 %	0.4 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-05d2 WG1975918
Analysis started at: 9/26/2024 3:49:59 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	148.1981 ppm	0.0036 ppm	0.0074 ppm	2.1943 ppm	0.0031 ppm	39.7665 ppm
Concentration per Run 1	0.0004 ppm	151.5395 ppm	0.0026 ppm	0.0079 ppm	2.2245 ppm	0.0035 ppm	40.6272 ppm
Concentration per Run 2	0.0011 ppm	147.4387 ppm	0.0025 ppm	0.0079 ppm	2.1891 ppm	0.0026 ppm	39.4120 ppm
Concentration per Run 3	0.0019 ppm	145.6162 ppm	0.0058 ppm	0.0063 ppm	2.1693 ppm	0.0034 ppm	39.2602 ppm
Concentration RSD	66.2 %	2.0 %	51.7 %	12.6 %	1.3 %	15.4 %	1.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0030 ppm	0.1182 ppm	0.3002 ppm	0.6745 ppm	290.1842 ppm	116.0360 ppm	0.2364 ppm
Concentration per Run 1	0.0028 ppm	0.1158 ppm	0.3018 ppm	0.6772 ppm	297.0328 ppm	116.6426 ppm	0.2398 ppm
Concentration per Run 2	0.0028 ppm	0.1192 ppm	0.2982 ppm	0.6716 ppm	286.2699 ppm	116.6605 ppm	0.2364 ppm
Concentration per Run 3	0.0033 ppm	0.1198 ppm	0.3007 ppm	0.6749 ppm	287.2499 ppm	114.8049 ppm	0.2330 ppm
Concentration RSD	10.5 %	1.8 %	0.6 %	0.4 %	2.1 %	0.9 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.9650 ppm	3.6206 ppm	0.0014 ppm	3.2773 ppm	0.2402 ppm	0.7202 ppm	0.0015 ppm
Concentration per Run 1	76.8144 ppm	3.6901 ppm	0.0014 ppm	3.3526 ppm	0.2432 ppm	0.7202 ppm	0.0040 ppm
Concentration per Run 2	76.7660 ppm	3.5920 ppm	0.0021 ppm	3.2575 ppm	0.2384 ppm	0.7180 ppm	-0.0001 ppm
Concentration per Run 3	77.3145 ppm	3.5797 ppm	0.0008 ppm	3.2220 ppm	0.2389 ppm	0.7224 ppm	0.0006 ppm
Concentration RSD	0.4 %	1.7 %	45.2 %	2.1 %	1.1 %	0.3 %	149.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	1.4374 ppm	0.0482 ppm	0.2475 ppm	22.5549 ppm	0.0144 ppm	0.5124 ppm
Concentration per Run 1	0.0027 ppm	1.4128 ppm	0.0479 ppm	0.2516 ppm	22.5742 ppm	0.0148 ppm	0.5137 ppm
Concentration per Run 2	0.0045 ppm	1.4361 ppm	0.0472 ppm	0.2461 ppm	22.5288 ppm	0.0142 ppm	0.5104 ppm
Concentration per Run 3	0.0019 ppm	1.4634 ppm	0.0495 ppm	0.2447 ppm	22.5617 ppm	0.0142 ppm	0.5131 ppm
Concentration RSD	44.2 %	1.8 %	2.5 %	1.5 %	0.1 %	2.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6495 ppm	120.9767 %	121.8882 %	122.7227 %	121.6543 %	122.7627 %	120.7203 %
Concentration per Run 1	1.6608 ppm	120.9438 %	120.4119 %	122.6805 %	121.6104 %	121.5813 %	120.9078 %
Concentration per Run 2	1.6344 ppm	121.0388 %	121.8437 %	122.8842 %	121.5352 %	122.8082 %	120.5514 %
Concentration per Run 3	1.6531 ppm	120.9473 %	123.4088 %	122.6033 %	121.8174 %	123.8985 %	120.7016 %
Concentration RSD	0.8 %	0.0 %	1.2 %	0.1 %	0.1 %	0.9 %	0.1 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-06d2 WG1975918
Analysis started at: 9/26/2024 3:53:53 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	342.8228 ppm	0.0019 ppm	-0.0007 ppm	2.1508 ppm	0.0164 ppm	57.5179 ppm
Concentration per Run 1	0.0012 ppm	342.2018 ppm	0.0015 ppm	-0.0018 ppm	2.1399 ppm	0.0164 ppm	57.4820 ppm
Concentration per Run 2	0.0005 ppm	343.5373 ppm	0.0018 ppm	0.0008 ppm	2.1645 ppm	0.0163 ppm	57.7001 ppm
Concentration per Run 3	0.0017 ppm	342.7294 ppm	0.0023 ppm	-0.0012 ppm	2.1479 ppm	0.0163 ppm	57.3717 ppm
Concentration RSD	55.5 %	0.2 %	21.1 %	183.6 %	0.6 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1316 ppm	0.6820 ppm	0.0002 ppm	184.0683 ppm	75.7454 ppm	0.2983 ppm
Concentration per Run 1	-0.0001 ppm	0.1319 ppm	0.6830 ppm	0.0007 ppm	183.9562 ppm	75.0289 ppm	0.2981 ppm
Concentration per Run 2	-0.0005 ppm	0.1307 ppm	0.6810 ppm	-0.0002 ppm	184.7997 ppm	76.4133 ppm	0.2982 ppm
Concentration per Run 3	-0.0003 ppm	0.1322 ppm	0.6819 ppm	0.0000 ppm	183.4488 ppm	75.7940 ppm	0.2987 ppm
Concentration RSD	61.7 %	0.6 %	0.1 %	282.6 %	0.4 %	0.9 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	168.8661 ppm	6.2168 ppm	-0.0010 ppm	2.9767 ppm	2.3317 ppm	0.0892 ppm	-0.0051 ppm
Concentration per Run 1	169.5941 ppm	6.2228 ppm	-0.0002 ppm	2.9773 ppm	2.3337 ppm	0.0907 ppm	-0.0057 ppm
Concentration per Run 2	168.6015 ppm	6.2220 ppm	-0.0016 ppm	2.9964 ppm	2.3323 ppm	0.0875 ppm	-0.0084 ppm
Concentration per Run 3	168.4026 ppm	6.2056 ppm	-0.0010 ppm	2.9565 ppm	2.3291 ppm	0.0895 ppm	-0.0010 ppm
Concentration RSD	0.4 %	0.2 %	73.1 %	0.7 %	0.1 %	1.8 %	73.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	1.0706 ppm	0.0111 ppm	0.2972 ppm	11.2689 ppm	0.0126 ppm	0.1854 ppm
Concentration per Run 1	0.0081 ppm	1.0892 ppm	0.0108 ppm	0.2964 ppm	11.2993 ppm	0.0107 ppm	0.1855 ppm
Concentration per Run 2	0.0016 ppm	1.0566 ppm	0.0112 ppm	0.2990 ppm	11.2358 ppm	0.0136 ppm	0.1863 ppm
Concentration per Run 3	0.0027 ppm	1.0659 ppm	0.0113 ppm	0.2961 ppm	11.2715 ppm	0.0134 ppm	0.1843 ppm
Concentration RSD	84.9 %	1.6 %	2.1 %	0.5 %	0.3 %	12.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4441 ppm	113.0295 %	118.8244 %	109.0197 %	144.6046 %	153.2103 %	146.4471 %
Concentration per Run 1	0.4446 ppm	113.0545 %	119.2748 %	108.9916 %	144.2537 %	153.5922 %	146.7172 %
Concentration per Run 2	0.4445 ppm	112.2747 %	117.6415 %	108.9708 %	143.8877 %	152.0769 %	146.0354 %
Concentration per Run 3	0.4433 ppm	113.7593 %	119.5569 %	109.0966 %	145.6723 %	153.9617 %	146.5887 %
Concentration RSD	0.2 %	0.7 %	0.9 %	0.1 %	0.7 %	0.7 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: xL2454047-07d2 WG1975918
Analysis started at: 9/26/2024 3:57:47 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	416.9339 ppm	-0.0028 ppm	-0.0033 ppm	0.9370 ppm	0.0128 ppm	73.4898 ppm
Concentration per Run 1	0.0012 ppm	416.9671 ppm	0.0000 ppm	-0.0043 ppm	0.9382 ppm	0.0129 ppm	73.5700 ppm
Concentration per Run 2	0.0020 ppm	417.9973 ppm	-0.0054 ppm	-0.0022 ppm	0.9367 ppm	0.0127 ppm	73.7098 ppm
Concentration per Run 3	0.0025 ppm	415.8372 ppm	-0.0031 ppm	-0.0035 ppm	0.9361 ppm	0.0128 ppm	73.1895 ppm
Concentration RSD	35.0 %	0.3 %	96.1 %	32.2 %	0.1 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.3874 ppm	7.6790 ppm	0.0005 ppm	316.6489 ppm	103.6170 ppm	0.3341 ppm
Concentration per Run 1	-0.0008 ppm	0.3844 ppm	7.6485 ppm	0.0006 ppm	316.9722 ppm	103.1228 ppm	0.3338 ppm
Concentration per Run 2	-0.0007 ppm	0.3857 ppm	7.7082 ppm	-0.0003 ppm	316.0491 ppm	103.8501 ppm	0.3362 ppm
Concentration per Run 3	-0.0007 ppm	0.3920 ppm	7.6801 ppm	0.0013 ppm	316.9255 ppm	103.8780 ppm	0.3323 ppm
Concentration RSD	10.7 %	1.0 %	0.4 %	147.6 %	0.2 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	568.7057 ppm	2.7436 ppm	0.0000 ppm	21.0112 ppm	6.0403 ppm	0.0448 ppm	-0.0067 ppm
Concentration per Run 1	566.5890 ppm	2.7444 ppm	0.0014 ppm	21.0044 ppm	6.0108 ppm	0.0458 ppm	-0.0110 ppm
Concentration per Run 2	567.7337 ppm	2.7436 ppm	-0.0013 ppm	21.1044 ppm	6.0418 ppm	0.0438 ppm	-0.0054 ppm
Concentration per Run 3	571.7943 ppm	2.7428 ppm	-0.0002 ppm	20.9248 ppm	6.0683 ppm	0.0448 ppm	-0.0037 ppm
Concentration RSD	0.5 %	0.0 %	56,936.4 %	0.4 %	0.5 %	2.3 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.4752 ppm	0.0143 ppm	0.2775 ppm	18.7247 ppm	0.0236 ppm	0.4867 ppm
Concentration per Run 1	0.0031 ppm	0.4726 ppm	0.0142 ppm	0.2769 ppm	18.6119 ppm	0.0245 ppm	0.4852 ppm
Concentration per Run 2	-0.0018 ppm	0.4719 ppm	0.0144 ppm	0.2773 ppm	18.7392 ppm	0.0221 ppm	0.4846 ppm
Concentration per Run 3	0.0054 ppm	0.4810 ppm	0.0143 ppm	0.2782 ppm	18.8230 ppm	0.0241 ppm	0.4903 ppm
Concentration RSD	166.3 %	1.1 %	0.9 %	0.3 %	0.6 %	5.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6827 ppm	105.2363 %	110.4210 %	100.8330 %	109.4067 %	114.9750 %	107.5686 %
Concentration per Run 1	0.6794 ppm	105.6148 %	109.6058 %	100.2770 %	109.7025 %	114.1727 %	107.2227 %
Concentration per Run 2	0.6847 ppm	105.4497 %	110.4366 %	100.8688 %	109.5972 %	115.4585 %	107.1753 %
Concentration per Run 3	0.6839 ppm	104.6445 %	111.2207 %	101.3530 %	108.9203 %	115.2937 %	108.3078 %
Concentration RSD	0.4 %	0.5 %	0.7 %	0.5 %	0.4 %	0.6 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 4:01:41 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5004 ppm	0.4798 ppm	0.4776 ppm	0.4822 ppm	0.4923 ppm	0.5016 ppm	0.4857 ppm
Concentration per Run 1	0.5010 ppm	0.4763 ppm	0.4752 ppm	0.4829 ppm	0.4893 ppm	0.5001 ppm	0.4897 ppm
Concentration per Run 2	0.4991 ppm	0.4744 ppm	0.4778 ppm	0.4807 ppm	0.4951 ppm	0.5045 ppm	0.4814 ppm
Concentration per Run 3	0.5010 ppm	0.4885 ppm	0.4799 ppm	0.4829 ppm	0.4924 ppm	0.5003 ppm	0.4859 ppm
Recovery Percentage 1	100.073 %	95.955 %	95.522 %	96.431 %	98.456 %	100.327 %	97.130 %
Concentration RSD	0.2 %	1.6 %	0.5 %	0.3 %	0.6 %	0.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4969 ppm	0.5069 ppm	0.4830 ppm	0.4823 ppm	0.5026 ppm	5.1469 ppm	0.4803 ppm
Concentration per Run 1	0.4964 ppm	0.5074 ppm	0.4846 ppm	0.4797 ppm	0.5011 ppm	5.1446 ppm	0.4768 ppm
Concentration per Run 2	0.4963 ppm	0.5065 ppm	0.4811 ppm	0.4840 ppm	0.5076 ppm	5.1637 ppm	0.4836 ppm
Concentration per Run 3	0.4981 ppm	0.5068 ppm	0.4833 ppm	0.4830 ppm	0.4989 ppm	5.1325 ppm	0.4806 ppm
Recovery Percentage 1	99.384 %	101.376 %	96.602 %	96.451 %	100.512 %	102.939 %	96.061 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.5 %	0.9 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4981 ppm	0.4806 ppm	0.4778 ppm	9.7525 ppm	0.4955 ppm	0.4913 ppm	0.5054 ppm
Concentration per Run 1	0.5039 ppm	0.4813 ppm	0.4736 ppm	9.7432 ppm	0.4955 ppm	0.4910 ppm	0.5059 ppm
Concentration per Run 2	0.4964 ppm	0.4820 ppm	0.4771 ppm	9.7447 ppm	0.4931 ppm	0.4910 ppm	0.5028 ppm
Concentration per Run 3	0.4942 ppm	0.4785 ppm	0.4828 ppm	9.7697 ppm	0.4979 ppm	0.4917 ppm	0.5075 ppm
Recovery Percentage 1	99.624 %	96.122 %	95.563 %	97.525 %	99.097 %	98.251 %	101.079 %
Concentration RSD	1.0 %	0.4 %	1.0 %	0.2 %	0.5 %	0.1 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4937 ppm	5.3088 ppm	0.4694 ppm	0.4637 ppm	0.4944 ppm	0.4890 ppm	0.4814 ppm
Concentration per Run 1	0.4927 ppm	5.2724 ppm	0.4684 ppm	0.4628 ppm	0.4962 ppm	0.4891 ppm	0.4806 ppm
Concentration per Run 2	0.4918 ppm	5.3031 ppm	0.4672 ppm	0.4662 ppm	0.4930 ppm	0.4885 ppm	0.4824 ppm
Concentration per Run 3	0.4967 ppm	5.3508 ppm	0.4727 ppm	0.4621 ppm	0.4940 ppm	0.4893 ppm	0.4812 ppm
Recovery Percentage 1	98.747 %	101.120 %	93.890 %	92.744 %	98.882 %	97.791 %	96.280 %
Concentration RSD	0.5 %	0.7 %	0.6 %	0.5 %	0.3 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4997 ppm	110.8578 %	108.1407 %	109.1447 %	110.4461 %	107.0148 %	108.7580 %
Concentration per Run 1	0.5009 ppm	110.8167 %	108.3724 %	108.9217 %	110.5428 %	107.1431 %	108.5852 %
Concentration per Run 2	0.4965 ppm	111.3798 %	108.9053 %	109.6172 %	110.8776 %	107.5491 %	109.1195 %
Concentration per Run 3	0.5016 ppm	110.3769 %	107.1445 %	108.8951 %	109.9178 %	106.3523 %	108.5694 %
Recovery Percentage 1	99.937 %						
Concentration RSD	0.6 %	0.5 %	0.8 %	0.4 %	0.4 %	0.6 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:05:36 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	-0.0013 ppm	0.0033 ppm	0.0037 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 1	0.0008 ppm	-0.0047 ppm	0.0005 ppm	0.0034 ppm	0.0001 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0012 ppm	0.0004 ppm	0.0046 ppm	0.0014 ppm	-0.0002 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 3	0.0005 ppm	0.0002 ppm	0.0049 ppm	0.0063 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	11.855 %	-1.350 %	66.908 %	12.309 %	-0.209 %	1.958 %	1.590 %
Concentration RSD	46.4 %	212.6 %	72.9 %	67.7 %	693.8 %	49.6 %	101.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0033 ppm	0.0306 ppm	-0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0040 ppm	0.0485 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0000 ppm	0.0030 ppm	0.0138 ppm	-0.0006 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0004 ppm	-0.0002 ppm	0.0028 ppm	0.0295 ppm	-0.0020 ppm
Recovery Percentage 1	0.689 %	-0.675 %	3.470 %	-0.415 %	6.543 %	1.224 %	-15.991 %
Concentration RSD	451.9 %	144.7 %	125.5 %	271.8 %	19.8 %	56.9 %	136.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0027 ppm	0.0000 ppm	0.0008 ppm	-0.0100 ppm	-0.0002 ppm	0.0013 ppm	0.0033 ppm
Concentration per Run 1	0.0034 ppm	0.0001 ppm	0.0007 ppm	-0.0049 ppm	-0.0004 ppm	0.0014 ppm	0.0052 ppm
Concentration per Run 2	0.0008 ppm	0.0001 ppm	0.0010 ppm	-0.0089 ppm	0.0004 ppm	0.0020 ppm	0.0032 ppm
Concentration per Run 3	0.0038 ppm	-0.0003 ppm	0.0008 ppm	-0.0162 ppm	-0.0007 ppm	0.0005 ppm	0.0015 ppm
Recovery Percentage 1	2.687 %	-0.421 %	1.693 %	-0.499 %	-0.846 %	12.777 %	6.622 %
Concentration RSD	60.3 %	508.3 %	22.1 %	57.4 %	277.2 %	60.6 %	55.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	-0.0001 ppm	-0.0012 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0008 ppm	-0.0007 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0016 ppm	0.0006 ppm
Concentration per Run 2	0.0015 ppm	-0.0002 ppm	-0.0016 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 3	0.0045 ppm	0.0006 ppm	-0.0015 ppm	0.0002 ppm	-0.0004 ppm	-0.0008 ppm	0.0004 ppm
Recovery Percentage 1	22.603 %	-0.019 %	-2.343 %	1.233 %	-0.857 %	1.774 %	4.655 %
Concentration RSD	85.3 %	728.7 %	53.2 %	93.8 %	452.8 %	327.1 %	16.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	113.5929 %	112.2923 %	111.9722 %	115.0771 %	111.9905 %	112.3872 %
Concentration per Run 1	-0.0001 ppm	113.6828 %	111.8459 %	112.5457 %	114.9201 %	111.8318 %	112.9922 %
Concentration per Run 2	-0.0002 ppm	113.7255 %	112.7480 %	111.8044 %	115.5404 %	112.3786 %	112.3837 %
Concentration per Run 3	-0.0003 ppm	113.3705 %	112.2829 %	111.5666 %	114.7708 %	111.7609 %	111.7855 %
Recovery Percentage 1	-3.796 %						
Concentration RSD	53.5 %	0.2 %	0.4 %	0.5 %	0.4 %	0.3 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-07d4 WG1975918
Analysis started at: 9/26/2024 4:23:47 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	200.7098 ppm	-0.0011 ppm	0.0009 ppm	0.4529 ppm	0.0062 ppm	36.0417 ppm
Concentration per Run 1	0.0018 ppm	200.0895 ppm	-0.0002 ppm	0.0019 ppm	0.4512 ppm	0.0062 ppm	35.8995 ppm
Concentration per Run 2	0.0018 ppm	200.6883 ppm	-0.0004 ppm	0.0024 ppm	0.4528 ppm	0.0062 ppm	36.1081 ppm
Concentration per Run 3	0.0010 ppm	201.3517 ppm	-0.0028 ppm	-0.0016 ppm	0.4548 ppm	0.0064 ppm	36.1176 ppm
Concentration RSD	29.6 %	0.3 %	126.9 %	252.6 %	0.4 %	2.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.1966 ppm	3.7873 ppm	0.0012 ppm	158.5409 ppm	49.7536 ppm	0.1607 ppm
Concentration per Run 1	0.0000 ppm	0.1971 ppm	3.7852 ppm	0.0012 ppm	158.1134 ppm	49.4009 ppm	0.1609 ppm
Concentration per Run 2	-0.0001 ppm	0.1969 ppm	3.7980 ppm	0.0017 ppm	158.3432 ppm	49.8252 ppm	0.1609 ppm
Concentration per Run 3	0.0000 ppm	0.1957 ppm	3.7787 ppm	0.0007 ppm	159.1662 ppm	50.0347 ppm	0.1604 ppm
Concentration RSD	268.6 %	0.4 %	0.3 %	43.4 %	0.3 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	289.1653 ppm	1.3527 ppm	-0.0004 ppm	10.1507 ppm	3.0185 ppm	0.0212 ppm	-0.0009 ppm
Concentration per Run 1	288.8630 ppm	1.3446 ppm	-0.0007 ppm	10.1454 ppm	3.0198 ppm	0.0224 ppm	0.0006 ppm
Concentration per Run 2	289.6486 ppm	1.3576 ppm	-0.0006 ppm	10.1126 ppm	3.0197 ppm	0.0219 ppm	-0.0023 ppm
Concentration per Run 3	288.9844 ppm	1.3560 ppm	0.0001 ppm	10.1941 ppm	3.0159 ppm	0.0192 ppm	-0.0009 ppm
Concentration RSD	0.1 %	0.5 %	110.1 %	0.4 %	0.1 %	8.1 %	164.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0038 ppm	0.2339 ppm	0.0063 ppm	0.1330 ppm	9.1782 ppm	0.0088 ppm	0.2364 ppm
Concentration per Run 1	0.0008 ppm	0.2220 ppm	0.0063 ppm	0.1327 ppm	9.1570 ppm	0.0092 ppm	0.2360 ppm
Concentration per Run 2	0.0077 ppm	0.2371 ppm	0.0060 ppm	0.1331 ppm	9.2070 ppm	0.0107 ppm	0.2368 ppm
Concentration per Run 3	0.0030 ppm	0.2428 ppm	0.0066 ppm	0.1334 ppm	9.1706 ppm	0.0066 ppm	0.2365 ppm
Concentration RSD	91.4 %	4.6 %	4.2 %	0.3 %	0.3 %	23.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3429 ppm	106.3279 %	113.9410 %	101.4090 %	107.4010 %	115.3562 %	106.1311 %
Concentration per Run 1	0.3433 ppm	106.5538 %	114.5173 %	100.8997 %	107.6029 %	115.8938 %	105.4306 %
Concentration per Run 2	0.3428 ppm	105.7744 %	114.1303 %	101.7495 %	106.4917 %	115.5567 %	106.4172 %
Concentration per Run 3	0.3425 ppm	106.6556 %	113.1754 %	101.5778 %	108.1083 %	114.6180 %	106.5456 %
Concentration RSD	0.1 %	0.5 %	0.6 %	0.4 %	0.8 %	0.6 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-14 WG1975733
Analysis started at: 9/26/2024 4:27:57 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0194 ppm	0.0014 ppm	0.0055 ppm	0.0459 ppm	0.0001 ppm	2.3412 ppm
Concentration per Run 1	0.0002 ppm	0.0102 ppm	0.0007 ppm	0.0066 ppm	0.0458 ppm	0.0001 ppm	2.3309 ppm
Concentration per Run 2	0.0004 ppm	0.0237 ppm	0.0021 ppm	0.0058 ppm	0.0461 ppm	0.0001 ppm	2.3487 ppm
Concentration per Run 3	0.0008 ppm	0.0241 ppm	0.0014 ppm	0.0040 ppm	0.0458 ppm	0.0001 ppm	2.3440 ppm
Concentration RSD	74.4 %	40.9 %	52.5 %	24.9 %	0.4 %	27.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0005 ppm	0.0007 ppm	0.0059 ppm	0.4651 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0009 ppm	0.0061 ppm	0.4662 ppm	-0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0006 ppm	0.0008 ppm	0.0074 ppm	0.4765 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0006 ppm	0.0004 ppm	0.0041 ppm	0.4525 ppm	0.0002 ppm
Concentration RSD	124.8 %	31.7 %	27.5 %	34.7 %	27.8 %	2.6 %	129.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5870 ppm	0.0149 ppm	0.0005 ppm	121.4284 ppm	0.0001 ppm	0.0013 ppm	0.0046 ppm
Concentration per Run 1	0.6001 ppm	0.0150 ppm	0.0006 ppm	121.0694 ppm	0.0004 ppm	0.0012 ppm	0.0058 ppm
Concentration per Run 2	0.5816 ppm	0.0148 ppm	0.0000 ppm	121.2076 ppm	0.0003 ppm	0.0016 ppm	0.0046 ppm
Concentration per Run 3	0.5792 ppm	0.0147 ppm	0.0008 ppm	122.0081 ppm	-0.0004 ppm	0.0012 ppm	0.0034 ppm
Concentration RSD	1.9 %	1.2 %	85.1 %	0.4 %	515.3 %	15.8 %	26.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	0.1439 ppm	-0.0021 ppm	0.0081 ppm	0.0011 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0016 ppm	0.1462 ppm	-0.0026 ppm	0.0081 ppm	0.0012 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0024 ppm	0.1425 ppm	-0.0021 ppm	0.0082 ppm	0.0012 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 3	0.0070 ppm	0.1429 ppm	-0.0016 ppm	0.0081 ppm	0.0011 ppm	-0.0009 ppm	0.0002 ppm
Concentration RSD	80.2 %	1.4 %	25.5 %	0.7 %	5.8 %	158.4 %	114.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	110.1186 %	112.3684 %	104.2416 %	109.4740 %	110.9831 %	108.0627 %
Concentration per Run 1	0.0018 ppm	108.5369 %	112.8413 %	103.3438 %	107.7711 %	111.2319 %	107.3247 %
Concentration per Run 2	0.0016 ppm	111.1564 %	112.3709 %	104.9820 %	110.9074 %	111.3226 %	108.8841 %
Concentration per Run 3	0.0015 ppm	110.6626 %	111.8930 %	104.3988 %	109.7435 %	110.3947 %	107.9792 %
Concentration RSD	8.2 %	1.3 %	0.4 %	0.8 %	1.4 %	0.5 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-15 WG1975733
Analysis started at: 9/26/2024 4:31:51 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0204 ppm	-0.0004 ppm	0.0035 ppm	0.0817 ppm	0.0000 ppm	2.3283 ppm
Concentration per Run 1	0.0006 ppm	0.0144 ppm	0.0004 ppm	0.0048 ppm	0.0821 ppm	0.0000 ppm	2.3426 ppm
Concentration per Run 2	0.0009 ppm	0.0185 ppm	-0.0012 ppm	0.0040 ppm	0.0813 ppm	0.0000 ppm	2.3217 ppm
Concentration per Run 3	0.0005 ppm	0.0282 ppm	-0.0003 ppm	0.0018 ppm	0.0818 ppm	0.0001 ppm	2.3205 ppm
Concentration RSD	33.7 %	34.8 %	226.1 %	43.3 %	0.5 %	95.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0004 ppm	0.0001 ppm	0.0055 ppm	0.3431 ppm	-0.0007 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	0.0007 ppm	-0.0003 ppm	0.0038 ppm	0.3369 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	0.0002 ppm	0.0005 ppm	0.0061 ppm	0.3362 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0016 ppm	0.0004 ppm	0.0002 ppm	0.0064 ppm	0.3563 ppm	-0.0010 ppm
Concentration RSD	415.6 %	20.8 %	58.4 %	280.0 %	26.2 %	3.3 %	162.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3335 ppm	0.0197 ppm	-0.0003 ppm	117.1974 ppm	-0.0005 ppm	0.0011 ppm	0.0023 ppm
Concentration per Run 1	0.3343 ppm	0.0199 ppm	-0.0003 ppm	117.4992 ppm	-0.0003 ppm	0.0010 ppm	0.0011 ppm
Concentration per Run 2	0.3337 ppm	0.0194 ppm	-0.0001 ppm	117.2920 ppm	-0.0001 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 3	0.3325 ppm	0.0198 ppm	-0.0005 ppm	116.8008 ppm	-0.0010 ppm	0.0011 ppm	0.0059 ppm
Concentration RSD	0.3 %	1.4 %	68.3 %	0.3 %	102.4 %	13.6 %	135.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	0.1983 ppm	-0.0028 ppm	0.0107 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0021 ppm	0.1975 ppm	-0.0021 ppm	0.0108 ppm	-0.0003 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 2	0.0059 ppm	0.1986 ppm	-0.0027 ppm	0.0107 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 3	0.0021 ppm	0.1988 ppm	-0.0036 ppm	0.0107 ppm	0.0002 ppm	0.0014 ppm	0.0004 ppm
Concentration RSD	65.7 %	0.3 %	26.8 %	0.8 %	298.0 %	1,196.9 %	131.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	111.8764 %	113.4920 %	105.6268 %	111.2621 %	112.4816 %	109.6229 %
Concentration per Run 1	0.0015 ppm	112.2807 %	112.6274 %	105.8515 %	111.4730 %	111.9708 %	110.0775 %
Concentration per Run 2	0.0013 ppm	112.0244 %	113.6060 %	105.3786 %	111.7056 %	112.7075 %	109.0621 %
Concentration per Run 3	0.0013 ppm	111.3241 %	114.2425 %	105.6503 %	110.6078 %	112.7665 %	109.7291 %
Concentration RSD	8.4 %	0.4 %	0.7 %	0.2 %	0.5 %	0.4 %	0.5 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2453869-01 WG1975733
Analysis started at: 9/26/2024 4:35:46 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	0.0109 ppm	**0.0067 ppm**	0.0113 ppm	0.1978 ppm	0.0000 ppm	41.9668 ppm
Concentration per Run 1	0.0009 ppm	0.0082 ppm	0.0043 ppm	0.0121 ppm	0.1970 ppm	0.0001 ppm	41.9967 ppm
Concentration per Run 2	0.0010 ppm	0.0218 ppm	0.0060 ppm	0.0122 ppm	0.1982 ppm	0.0000 ppm	41.9137 ppm
Concentration per Run 3	0.0007 ppm	0.0028 ppm	0.0097 ppm	0.0095 ppm	0.1984 ppm	0.0001 ppm	41.9900 ppm
Concentration RSD	18.8 %	89.5 %	**41.1 %**	13.8 %	0.4 %	143.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0029 ppm	0.0002 ppm	0.0006 ppm	6.3401 ppm	0.3577 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0025 ppm	0.0001 ppm	0.0006 ppm	6.3181 ppm	0.3506 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0032 ppm	0.0003 ppm	0.0005 ppm	6.3417 ppm	0.3650 ppm	-0.0020 ppm
Concentration per Run 3	-0.0002 ppm	0.0030 ppm	0.0003 ppm	0.0007 ppm	6.3605 ppm	0.3576 ppm	-0.0016 ppm
Concentration RSD	61.2 %	11.6 %	38.0 %	17.6 %	0.3 %	2.0 %	40.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6182 ppm	0.2289 ppm	0.0008 ppm	120.3380 ppm	0.0222 ppm	0.2176 ppm	0.0053 ppm
Concentration per Run 1	1.6224 ppm	0.2297 ppm	0.0010 ppm	119.3860 ppm	0.0225 ppm	0.2178 ppm	0.0040 ppm
Concentration per Run 2	1.6183 ppm	0.2286 ppm	0.0010 ppm	120.7894 ppm	0.0221 ppm	0.2162 ppm	0.0054 ppm
Concentration per Run 3	1.6138 ppm	0.2284 ppm	0.0004 ppm	120.8385 ppm	0.0220 ppm	0.2188 ppm	0.0066 ppm
Concentration RSD	0.3 %	0.3 %	39.7 %	0.7 %	1.0 %	0.6 %	24.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0037 ppm	0.3258 ppm	-0.0014 ppm	0.0935 ppm	-0.0004 ppm	-0.0008 ppm	0.0011 ppm
Concentration per Run 1	0.0042 ppm	0.3252 ppm	-0.0013 ppm	0.0931 ppm	-0.0003 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 2	0.0031 ppm	0.3253 ppm	-0.0023 ppm	0.0936 ppm	-0.0004 ppm	-0.0013 ppm	0.0009 ppm
Concentration per Run 3	0.0038 ppm	0.3268 ppm	-0.0007 ppm	0.0939 ppm	-0.0004 ppm	-0.0005 ppm	0.0013 ppm
Concentration RSD	15.2 %	0.3 %	55.9 %	0.4 %	9.9 %	58.7 %	16.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4465 ppm	110.8746 %	113.1246 %	104.5147 %	109.5224 %	112.0394 %	108.9360 %
Concentration per Run 1	0.4471 ppm	110.2386 %	113.1868 %	104.3260 %	108.6924 %	112.0916 %	108.8516 %
Concentration per Run 2	0.4474 ppm	110.8562 %	113.9395 %	105.0839 %	109.3306 %	113.0155 %	109.2857 %
Concentration per Run 3	0.4449 ppm	111.5289 %	112.2474 %	104.1342 %	110.5440 %	111.0111 %	108.6707 %
Concentration RSD	0.3 %	0.6 %	0.7 %	0.5 %	0.9 %	0.9 %	0.3 %

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LabBook: WG1976462_09262024T9.imexp

Sample: L2453869-02 WG1975733
Analysis started at: 9/26/2024 4:39:40 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0505 ppm	0.0009 ppm	0.0136 ppm	0.0496 ppm	0.0001 ppm	28.0402 ppm
Concentration per Run 1	-0.0002 ppm	0.0475 ppm	0.0021 ppm	0.0139 ppm	0.0496 ppm	0.0000 ppm	28.0127 ppm
Concentration per Run 2	0.0008 ppm	0.0538 ppm	-0.0013 ppm	0.0112 ppm	0.0495 ppm	0.0001 ppm	28.1147 ppm
Concentration per Run 3	0.0006 ppm	0.0501 ppm	0.0019 ppm	0.0156 ppm	0.0495 ppm	0.0001 ppm	27.9933 ppm
Concentration RSD	130.2 %	6.3 %	205.2 %	16.2 %	0.1 %	63.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0022 ppm	0.0005 ppm	0.0028 ppm	0.2588 ppm	0.7077 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0014 ppm	0.0006 ppm	0.0029 ppm	0.2584 ppm	0.7182 ppm	0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0026 ppm	0.0005 ppm	0.0028 ppm	0.2590 ppm	0.6947 ppm	-0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0024 ppm	0.0006 ppm	0.0029 ppm	0.2590 ppm	0.7100 ppm	-0.0001 ppm
Concentration RSD	27.7 %	28.8 %	12.1 %	0.8 %	0.1 %	1.7 %	93,186.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6143 ppm	0.4271 ppm	-0.0001 ppm	121.2270 ppm	0.0066 ppm	0.0194 ppm	0.0039 ppm
Concentration per Run 1	1.6227 ppm	0.4272 ppm	-0.0006 ppm	121.1431 ppm	0.0070 ppm	0.0180 ppm	0.0052 ppm
Concentration per Run 2	1.6166 ppm	0.4292 ppm	0.0003 ppm	121.5091 ppm	0.0061 ppm	0.0203 ppm	0.0025 ppm
Concentration per Run 3	1.6037 ppm	0.4250 ppm	0.0000 ppm	121.0288 ppm	0.0065 ppm	0.0199 ppm	0.0041 ppm
Concentration RSD	0.6 %	0.5 %	371.6 %	0.2 %	7.0 %	6.2 %	34.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0060 ppm	0.6985 ppm	-0.0023 ppm	0.0700 ppm	-0.0004 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0017 ppm	0.7014 ppm	-0.0028 ppm	0.0703 ppm	-0.0008 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0067 ppm	0.6967 ppm	-0.0019 ppm	0.0701 ppm	0.0001 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0094 ppm	0.6975 ppm	-0.0023 ppm	0.0695 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	65.5 %	0.4 %	19.7 %	0.6 %	126.1 %	330.7 %	77.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0450 ppm	110.5671 %	111.0476 %	104.8063 %	109.9878 %	110.1932 %	109.1928 %
Concentration per Run 1	0.0455 ppm	110.2250 %	111.9331 %	105.0605 %	109.3207 %	111.0849 %	109.0295 %
Concentration per Run 2	0.0448 ppm	111.7347 %	110.1168 %	103.7640 %	111.0247 %	109.5359 %	108.4648 %
Concentration per Run 3	0.0447 ppm	109.7415 %	111.0930 %	105.5942 %	109.6180 %	109.9589 %	110.0842 %
Concentration RSD	0.9 %	0.9 %	0.8 %	0.9 %	0.8 %	0.7 %	0.8 %

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LabBook: WG1976462_09262024T9.imexp

Sample: L2453869-03 WG1975733
Analysis started at: 9/26/2024 4:43:35 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	0.0324 ppm	0.0014 ppm	0.0118 ppm	0.0482 ppm	0.0001 ppm	29.4451 ppm
Concentration per Run 1	0.0012 ppm	0.0366 ppm	0.0006 ppm	0.0117 ppm	0.0484 ppm	0.0001 ppm	29.4922 ppm
Concentration per Run 2	0.0006 ppm	0.0228 ppm	0.0008 ppm	0.0118 ppm	0.0480 ppm	0.0001 ppm	29.4722 ppm
Concentration per Run 3	0.0004 ppm	0.0376 ppm	0.0028 ppm	0.0119 ppm	0.0482 ppm	0.0001 ppm	29.3708 ppm
Concentration RSD	54.4 %	25.6 %	86.1 %	1.1 %	0.4 %	40.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0025 ppm	0.0008 ppm	0.0025 ppm	0.2273 ppm	0.7329 ppm	0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0019 ppm	0.0004 ppm	0.0025 ppm	0.2269 ppm	0.7693 ppm	0.0017 ppm
Concentration per Run 2	0.0003 ppm	0.0029 ppm	0.0011 ppm	0.0026 ppm	0.2263 ppm	0.7369 ppm	-0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0026 ppm	0.0009 ppm	0.0025 ppm	0.2286 ppm	0.6926 ppm	-0.0007 ppm
Concentration RSD	29.7 %	19.1 %	43.2 %	2.1 %	0.5 %	5.2 %	662.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1591 ppm	0.3859 ppm	0.0000 ppm	120.8510 ppm	0.0043 ppm	0.0405 ppm	0.0002 ppm
Concentration per Run 1	1.1571 ppm	0.3872 ppm	0.0003 ppm	120.9048 ppm	0.0034 ppm	0.0420 ppm	-0.0011 ppm
Concentration per Run 2	1.1545 ppm	0.3843 ppm	0.0000 ppm	120.9363 ppm	0.0042 ppm	0.0402 ppm	0.0001 ppm
Concentration per Run 3	1.1655 ppm	0.3863 ppm	-0.0004 ppm	120.7118 ppm	0.0052 ppm	0.0394 ppm	0.0016 ppm
Concentration RSD	0.5 %	0.4 %	5,327.7 %	0.1 %	20.1 %	3.3 %	640.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0043 ppm	0.5288 ppm	-0.0016 ppm	0.0703 ppm	-0.0004 ppm	-0.0016 ppm	0.0004 ppm
Concentration per Run 1	0.0036 ppm	0.5300 ppm	-0.0019 ppm	0.0702 ppm	-0.0004 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 2	0.0031 ppm	0.5227 ppm	-0.0017 ppm	0.0702 ppm	-0.0005 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0064 ppm	0.5339 ppm	-0.0013 ppm	0.0704 ppm	-0.0002 ppm	-0.0041 ppm	0.0004 ppm
Concentration RSD	40.8 %	1.1 %	20.0 %	0.1 %	48.6 %	147.6 %	14.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0446 ppm	112.1220 %	113.5375 %	105.3136 %	111.0353 %	112.3946 %	109.4110 %
Concentration per Run 1	0.0445 ppm	112.5543 %	112.5082 %	105.5721 %	111.6144 %	111.4831 %	109.8788 %
Concentration per Run 2	0.0447 ppm	111.8018 %	114.0255 %	104.7896 %	110.7692 %	113.0140 %	108.6475 %
Concentration per Run 3	0.0445 ppm	112.0101 %	114.0787 %	105.5789 %	110.7224 %	112.6865 %	109.7068 %
Concentration RSD	0.2 %	0.3 %	0.8 %	0.4 %	0.5 %	0.7 %	0.6 %

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454077-01 WG1975733
Analysis started at: 9/26/2024 4:47:29 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	0.0287 ppm	0.0017 ppm	0.0035 ppm	0.0073 ppm	0.0000 ppm	0.6694 ppm
Concentration per Run 1	0.0008 ppm	0.0318 ppm	0.0000 ppm	0.0030 ppm	0.0075 ppm	0.0000 ppm	0.6681 ppm
Concentration per Run 2	0.0011 ppm	0.0242 ppm	0.0022 ppm	0.0035 ppm	0.0074 ppm	0.0000 ppm	0.6671 ppm
Concentration per Run 3	0.0004 ppm	0.0302 ppm	0.0030 ppm	0.0039 ppm	0.0071 ppm	0.0001 ppm	0.6729 ppm
Concentration RSD	43.6 %	14.0 %	91.2 %	13.2 %	2.4 %	8.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0010 ppm	0.0005 ppm	0.0014 ppm	0.0192 ppm	0.2602 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0009 ppm	0.0005 ppm	0.0015 ppm	0.0199 ppm	0.2406 ppm	0.0002 ppm
Concentration per Run 2	0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0012 ppm	0.0187 ppm	0.2669 ppm	-0.0007 ppm
Concentration per Run 3	0.0003 ppm	0.0011 ppm	0.0004 ppm	0.0015 ppm	0.0190 ppm	0.2731 ppm	0.0004 ppm
Concentration RSD	23.0 %	11.9 %	8.0 %	12.8 %	3.5 %	6.6 %	7,687.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1084 ppm	0.0137 ppm	-0.0003 ppm	116.0917 ppm	0.0013 ppm	0.0023 ppm	0.0032 ppm
Concentration per Run 1	0.1112 ppm	0.0134 ppm	-0.0007 ppm	116.2429 ppm	0.0009 ppm	0.0030 ppm	-0.0019 ppm
Concentration per Run 2	0.1049 ppm	0.0140 ppm	-0.0001 ppm	115.6440 ppm	0.0018 ppm	0.0023 ppm	0.0031 ppm
Concentration per Run 3	0.1092 ppm	0.0139 ppm	0.0000 ppm	116.3884 ppm	0.0012 ppm	0.0015 ppm	0.0084 ppm
Concentration RSD	3.0 %	2.5 %	136.5 %	0.3 %	36.2 %	31.8 %	159.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	0.1028 ppm	-0.0010 ppm	0.0051 ppm	-0.0005 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0052 ppm	0.1021 ppm	-0.0028 ppm	0.0050 ppm	-0.0005 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0013 ppm	0.1042 ppm	0.0008 ppm	0.0049 ppm	-0.0003 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0054 ppm	0.1022 ppm	-0.0009 ppm	0.0052 ppm	-0.0007 ppm	-0.0002 ppm	0.0004 ppm
Concentration RSD	59.2 %	1.1 %	186.4 %	3.1 %	39.0 %	1,425.7 %	26.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0151 ppm	112.2140 %	113.7883 %	107.0144 %	111.2141 %	112.3651 %	110.5966 %
Concentration per Run 1	0.0151 ppm	112.5559 %	113.4956 %	107.2157 %	110.9075 %	112.0961 %	110.8452 %
Concentration per Run 2	0.0153 ppm	111.3686 %	114.6618 %	106.9839 %	110.7684 %	113.2640 %	110.7019 %
Concentration per Run 3	0.0148 ppm	112.7176 %	113.2076 %	106.8435 %	111.9662 %	111.7353 %	110.2427 %
Concentration RSD	1.7 %	0.7 %	0.7 %	0.2 %	0.6 %	0.7 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2453909-01 WG1975733
Analysis started at: 9/26/2024 4:51:24 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0267 ppm	0.2742 ppm	0.0019 ppm	0.1688 ppm	0.0210 ppm	0.0004 ppm	1.7105 ppm
Concentration per Run 1	0.0262 ppm	0.2772 ppm	0.0004 ppm	0.1675 ppm	0.0210 ppm	0.0004 ppm	1.7153 ppm
Concentration per Run 2	0.0268 ppm	0.2708 ppm	0.0017 ppm	0.1684 ppm	0.0210 ppm	0.0004 ppm	1.7111 ppm
Concentration per Run 3	0.0272 ppm	0.2745 ppm	0.0035 ppm	0.1703 ppm	0.0211 ppm	0.0004 ppm	1.7050 ppm
Concentration RSD	1.8 %	1.2 %	84.1 %	0.8 %	0.2 %	3.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0022 ppm	0.0023 ppm	0.6212 ppm	0.0131 ppm	2.4590 ppm	0.0798 ppm
Concentration per Run 1	0.0022 ppm	0.0025 ppm	0.0027 ppm	0.6188 ppm	0.0137 ppm	2.4533 ppm	0.0786 ppm
Concentration per Run 2	0.0024 ppm	0.0019 ppm	0.0015 ppm	0.6221 ppm	0.0133 ppm	2.4688 ppm	0.0815 ppm
Concentration per Run 3	0.0026 ppm	0.0022 ppm	0.0028 ppm	0.6228 ppm	0.0123 ppm	2.4549 ppm	0.0793 ppm
Concentration RSD	7.4 %	13.2 %	31.4 %	0.3 %	5.5 %	0.3 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3075 ppm	0.1824 ppm	0.0011 ppm	121.3392 ppm	0.0173 ppm	0.0192 ppm	0.0043 ppm
Concentration per Run 1	0.3075 ppm	0.1834 ppm	0.0018 ppm	121.2890 ppm	0.0173 ppm	0.0192 ppm	0.0071 ppm
Concentration per Run 2	0.3087 ppm	0.1815 ppm	0.0008 ppm	121.5634 ppm	0.0173 ppm	0.0205 ppm	0.0039 ppm
Concentration per Run 3	0.3063 ppm	0.1823 ppm	0.0007 ppm	121.1651 ppm	0.0173 ppm	0.0179 ppm	0.0020 ppm
Concentration RSD	0.4 %	0.5 %	53.1 %	0.2 %	0.1 %	6.6 %	58.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	0.3524 ppm	0.0004 ppm	0.0216 ppm	0.0007 ppm	-0.0006 ppm	0.0084 ppm
Concentration per Run 1	-0.0019 ppm	0.3514 ppm	0.0016 ppm	0.0217 ppm	0.0006 ppm	-0.0009 ppm	0.0084 ppm
Concentration per Run 2	0.0076 ppm	0.3559 ppm	0.0000 ppm	0.0215 ppm	0.0009 ppm	-0.0004 ppm	0.0088 ppm
Concentration per Run 3	0.0037 ppm	0.3499 ppm	-0.0004 ppm	0.0215 ppm	0.0006 ppm	-0.0004 ppm	0.0081 ppm
Concentration RSD	152.5 %	0.9 %	264.9 %	0.5 %	23.3 %	52.6 %	4.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3647 ppm	113.9199 %	115.3258 %	108.5856 %	113.0956 %	114.1466 %	112.5468 %
Concentration per Run 1	0.3632 ppm	114.6741 %	116.3339 %	108.8982 %	113.6521 %	115.8088 %	112.7588 %
Concentration per Run 2	0.3659 ppm	113.2787 %	115.1044 %	109.2356 %	112.6294 %	113.7666 %	113.0533 %
Concentration per Run 3	0.3651 ppm	113.8070 %	114.5392 %	107.6229 %	113.0053 %	112.8644 %	111.8283 %
Concentration RSD	0.4 %	0.6 %	0.8 %	0.8 %	0.5 %	1.3 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453909-02 WG1975733
Analysis started at: 9/26/2024 4:55:19 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0686 ppm	0.3138 ppm	0.0004 ppm	0.8299 ppm	0.0047 ppm	0.0001 ppm	2.9646 ppm
Concentration per Run 1	0.0685 ppm	0.3097 ppm	0.0000 ppm	0.8273 ppm	0.0046 ppm	0.0001 ppm	2.9627 ppm
Concentration per Run 2	0.0687 ppm	0.3193 ppm	-0.0002 ppm	0.8343 ppm	0.0046 ppm	0.0001 ppm	2.9692 ppm
Concentration per Run 3	0.0686 ppm	0.3124 ppm	0.0013 ppm	0.8280 ppm	0.0048 ppm	0.0001 ppm	2.9621 ppm
Concentration RSD	0.2 %	1.6 %	214.0 %	0.5 %	2.5 %	8.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0045 ppm	0.0109 ppm	0.6094 ppm	0.0249 ppm	5.7248 ppm	0.0177 ppm
Concentration per Run 1	0.0016 ppm	0.0045 ppm	0.0108 ppm	0.6095 ppm	0.0258 ppm	5.7338 ppm	0.0174 ppm
Concentration per Run 2	0.0018 ppm	0.0042 ppm	0.0110 ppm	0.6093 ppm	0.0229 ppm	5.7522 ppm	0.0180 ppm
Concentration per Run 3	0.0016 ppm	0.0048 ppm	0.0109 ppm	0.6093 ppm	0.0259 ppm	5.6884 ppm	0.0176 ppm
Concentration RSD	6.1 %	6.6 %	0.8 %	0.0 %	6.8 %	0.6 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.6921 ppm	0.0438 ppm	0.0006 ppm	115.8706 ppm	0.4129 ppm	0.0269 ppm	0.0067 ppm
Concentration per Run 1	0.6916 ppm	0.0438 ppm	0.0007 ppm	115.9168 ppm	0.4152 ppm	0.0269 ppm	0.0068 ppm
Concentration per Run 2	0.6935 ppm	0.0436 ppm	0.0006 ppm	115.9198 ppm	0.4115 ppm	0.0265 ppm	0.0096 ppm
Concentration per Run 3	0.6911 ppm	0.0438 ppm	0.0006 ppm	115.7750 ppm	0.4119 ppm	0.0271 ppm	0.0038 ppm
Concentration RSD	0.2 %	0.3 %	6.2 %	0.1 %	0.5 %	1.1 %	42.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	0.1258 ppm	0.0359 ppm	0.0145 ppm	-0.0001 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	0.0016 ppm	0.1278 ppm	0.0362 ppm	0.0145 ppm	-0.0003 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 2	0.0042 ppm	0.1249 ppm	0.0364 ppm	0.0145 ppm	-0.0001 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 3	0.0040 ppm	0.1248 ppm	0.0351 ppm	0.0144 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm
Concentration RSD	45.2 %	1.3 %	1.9 %	0.4 %	101.8 %	90.6 %	26.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6370 ppm	113.6361 %	114.6127 %	107.9767 %	112.4233 %	113.3214 %	111.2249 %
Concentration per Run 1	0.6384 ppm	112.6486 %	114.8870 %	108.6944 %	111.6451 %	113.8841 %	111.7301 %
Concentration per Run 2	0.6379 ppm	113.4091 %	113.8658 %	107.5291 %	111.9542 %	112.4635 %	110.7723 %
Concentration per Run 3	0.6348 ppm	114.8505 %	115.0852 %	107.7066 %	113.6705 %	113.6168 %	111.1723 %
Concentration RSD	0.3 %	1.0 %	0.6 %	0.6 %	1.0 %	0.7 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454008-01 WG1975733
Analysis started at: 9/26/2024 4:59:13 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0385 ppm	0.0014 ppm	0.0070 ppm	0.0644 ppm	0.0000 ppm	6.7206 ppm
Concentration per Run 1	0.0002 ppm	0.0420 ppm	0.0003 ppm	0.0073 ppm	0.0658 ppm	0.0000 ppm	6.8464 ppm
Concentration per Run 2	0.0003 ppm	0.0376 ppm	0.0025 ppm	0.0071 ppm	0.0646 ppm	0.0000 ppm	6.7380 ppm
Concentration per Run 3	0.0010 ppm	0.0359 ppm	0.0013 ppm	0.0066 ppm	0.0626 ppm	0.0000 ppm	6.5774 ppm
Concentration RSD	75.8 %	8.3 %	79.6 %	4.7 %	2.5 %	15.9 %	2.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0020 ppm	0.0065 ppm	0.3160 ppm	-0.0020 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	0.0005 ppm	0.0020 ppm	0.0062 ppm	0.3290 ppm	-0.0019 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0016 ppm	0.0074 ppm	0.3080 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0005 ppm	0.0024 ppm	0.0059 ppm	0.3111 ppm	-0.0024 ppm
Concentration RSD	69.4 %	98.7 %	4.7 %	19.3 %	12.5 %	3.6 %	18.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1635 ppm	0.0078 ppm	-0.0001 ppm	119.7900 ppm	-0.0002 ppm	0.2988 ppm	0.0059 ppm
Concentration per Run 1	0.1617 ppm	0.0080 ppm	0.0002 ppm	121.9860 ppm	-0.0002 ppm	0.3003 ppm	0.0040 ppm
Concentration per Run 2	0.1636 ppm	0.0077 ppm	0.0002 ppm	119.9759 ppm	0.0001 ppm	0.2996 ppm	0.0070 ppm
Concentration per Run 3	0.1653 ppm	0.0076 ppm	-0.0007 ppm	117.4081 ppm	-0.0005 ppm	0.2964 ppm	0.0066 ppm
Concentration RSD	1.1 %	2.5 %	581.9 %	1.9 %	131.3 %	0.7 %	28.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	0.1386 ppm	-0.0018 ppm	0.0082 ppm	-0.0006 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0033 ppm	0.1390 ppm	-0.0022 ppm	0.0084 ppm	-0.0003 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 2	0.0016 ppm	0.1343 ppm	-0.0022 ppm	0.0082 ppm	-0.0007 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0010 ppm	0.1426 ppm	-0.0010 ppm	0.0082 ppm	-0.0006 ppm	-0.0009 ppm	0.0003 ppm
Concentration RSD	60.4 %	3.0 %	37.2 %	1.6 %	37.7 %	228.9 %	21.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0177 ppm	112.6069 %	111.0358 %	106.0090 %	111.4608 %	109.7705 %	109.7996 %
Concentration per Run 1	0.0176 ppm	111.7798 %	108.8990 %	105.6335 %	110.8132 %	107.9512 %	108.9640 %
Concentration per Run 2	0.0178 ppm	112.9764 %	111.2986 %	106.2171 %	111.8111 %	109.6172 %	110.4461 %
Concentration per Run 3	0.0177 ppm	113.0646 %	112.9099 %	106.1764 %	111.7580 %	111.7431 %	109.9886 %
Concentration RSD	0.5 %	0.6 %	1.8 %	0.3 %	0.5 %	1.7 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:03:08 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4761 ppm	0.4338 ppm	0.4506 ppm	0.4589 ppm	0.4578 ppm	0.4669 ppm	0.4459 ppm
Concentration per Run 1	0.4741 ppm	0.4340 ppm	0.4492 ppm	0.4577 ppm	0.4568 ppm	0.4660 ppm	0.4486 ppm
Concentration per Run 2	0.4771 ppm	0.4350 ppm	0.4481 ppm	0.4577 ppm	0.4578 ppm	0.4668 ppm	0.4438 ppm
Concentration per Run 3	0.4770 ppm	0.4325 ppm	0.4544 ppm	0.4612 ppm	0.4587 ppm	0.4681 ppm	0.4451 ppm
Recovery Percentage 1	95.216 %	86.763 %	90.116 %	91.774 %	91.552 %	93.388 %	89.173 %
Concentration RSD	0.4 %	0.3 %	0.7 %	0.4 %	0.2 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4723 ppm	0.4796 ppm	0.4559 ppm	0.4565 ppm	0.4577 ppm	4.7589 ppm	0.4495 ppm
Concentration per Run 1	0.4700 ppm	0.4776 ppm	0.4536 ppm	0.4562 ppm	0.4551 ppm	4.7496 ppm	0.4488 ppm
Concentration per Run 2	0.4732 ppm	0.4804 ppm	0.4582 ppm	0.4569 ppm	0.4616 ppm	4.7670 ppm	0.4498 ppm
Concentration per Run 3	0.4739 ppm	0.4808 ppm	0.4559 ppm	0.4564 ppm	0.4565 ppm	4.7602 ppm	0.4500 ppm
Recovery Percentage 1	94.470 %	95.921 %	91.177 %	91.298 %	91.542 %	95.179 %	89.904 %
Concentration RSD	0.4 %	0.4 %	0.5 %	0.1 %	0.8 %	0.2 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4536 ppm	0.4443 ppm	0.4519 ppm	9.1036 ppm	0.4680 ppm	0.4672 ppm	0.4753 ppm
Concentration per Run 1	0.4517 ppm	0.4464 ppm	0.4471 ppm	9.0751 ppm	0.4647 ppm	0.4683 ppm	0.4701 ppm
Concentration per Run 2	0.4537 ppm	0.4424 ppm	0.4539 ppm	9.1177 ppm	0.4705 ppm	0.4657 ppm	0.4756 ppm
Concentration per Run 3	0.4554 ppm	0.4440 ppm	0.4546 ppm	9.1180 ppm	0.4689 ppm	0.4674 ppm	0.4802 ppm
Recovery Percentage 1	90.714 %	88.853 %	90.373 %	91.036 %	93.603 %	93.430 %	95.058 %
Concentration RSD	0.4 %	0.5 %	0.9 %	0.3 %	0.6 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4693 ppm	5.0332 ppm	0.4441 ppm	0.4315 ppm	0.4625 ppm	0.4640 ppm	0.4570 ppm
Concentration per Run 1	0.4721 ppm	5.0078 ppm	0.4460 ppm	0.4284 ppm	0.4601 ppm	0.4637 ppm	0.4550 ppm
Concentration per Run 2	0.4645 ppm	5.0535 ppm	0.4442 ppm	0.4332 ppm	0.4639 ppm	0.4621 ppm	0.4578 ppm
Concentration per Run 3	0.4714 ppm	5.0383 ppm	0.4422 ppm	0.4330 ppm	0.4634 ppm	0.4662 ppm	0.4581 ppm
Recovery Percentage 1	93.867 %	95.870 %	88.828 %	86.306 %	92.494 %	92.799 %	91.392 %
Concentration RSD	0.9 %	0.5 %	0.4 %	0.6 %	0.5 %	0.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4714 ppm	116.1769 %	115.6088 %	113.9712 %	115.3530 %	114.1158 %	113.7589 %
Concentration per Run 1	0.4678 ppm	116.5263 %	115.5863 %	113.3442 %	115.6649 %	114.2223 %	113.2233 %
Concentration per Run 2	0.4735 ppm	116.1150 %	115.5526 %	114.1250 %	115.4898 %	113.9266 %	113.8981 %
Concentration per Run 3	0.4728 ppm	115.8893 %	115.6874 %	114.4442 %	114.9042 %	114.1985 %	114.1552 %
Recovery Percentage 1	94.279 %						
Concentration RSD	0.7 %	0.3 %	0.1 %	0.5 %	0.3 %	0.1 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:07:03 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	-0.0061 ppm	0.0002 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	-0.0165 ppm	0.0010 ppm	0.0027 ppm	0.0001 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 2	0.0009 ppm	-0.0009 ppm	-0.0006 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 3	0.0005 ppm	-0.0009 ppm	0.0001 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0028 ppm
Recovery Percentage 1	8.551 %	-6.097 %	4.062 %	6.984 %	0.300 %	0.431 %	-0.148 %
Concentration RSD	39.1 %	148.0 %	393.7 %	63.9 %	232.1 %	188.8 %	1,752.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0297 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	-0.0005 ppm	0.0418 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0357 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0016 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0115 ppm	-0.0024 ppm
Recovery Percentage 1	-0.891 %	3.655 %	2.580 %	0.299 %	0.263 %	1.186 %	-29.025 %
Concentration RSD	103.3 %	125.9 %	152.7 %	209.9 %	452.9 %	54.0 %	101.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0018 ppm	0.0001 ppm	0.0007 ppm	-0.0023 ppm	-0.0002 ppm	0.0012 ppm	0.0034 ppm
Concentration per Run 1	0.0027 ppm	0.0002 ppm	0.0011 ppm	0.0022 ppm	-0.0009 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 2	0.0019 ppm	-0.0001 ppm	0.0003 ppm	-0.0040 ppm	0.0003 ppm	0.0015 ppm	0.0073 ppm
Concentration per Run 3	0.0008 ppm	0.0002 ppm	0.0006 ppm	-0.0050 ppm	0.0001 ppm	0.0006 ppm	0.0026 ppm
Recovery Percentage 1	1.807 %	1.195 %	1.336 %	-0.114 %	-0.686 %	12.141 %	6.796 %
Concentration RSD	51.6 %	145.7 %	58.4 %	170.1 %	353.1 %	43.1 %	103.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	-0.0022 ppm	-0.0005 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0063 ppm	-0.0015 ppm	0.0007 ppm	-0.0001 ppm	-0.0006 ppm	0.0011 ppm	-0.0002 ppm
Concentration per Run 2	0.0058 ppm	-0.0032 ppm	-0.0015 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 3	0.0004 ppm	-0.0021 ppm	-0.0006 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0005 ppm
Recovery Percentage 1	41.451 %	-0.449 %	-0.993 %	-0.097 %	-4.903 %	1.584 %	2.287 %
Concentration RSD	78.8 %	38.9 %	221.3 %	1,085.3 %	19.1 %	217.1 %	170.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	112.8515 %	112.9256 %	112.5865 %	113.9151 %	112.7037 %	112.6624 %
Concentration per Run 1	0.0000 ppm	113.4148 %	113.5881 %	112.0052 %	114.8718 %	113.4505 %	111.7975 %
Concentration per Run 2	-0.0001 ppm	112.3575 %	112.9674 %	111.7509 %	113.5051 %	112.6685 %	112.0598 %
Concentration per Run 3	0.0002 ppm	112.7822 %	112.2212 %	114.0033 %	113.3684 %	111.9921 %	114.1299 %
Recovery Percentage 1	0.576 %						
Concentration RSD	495.7 %	0.5 %	0.6 %	1.1 %	0.7 %	0.6 %	1.1 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:12:37 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4808 ppm	0.4420 ppm	0.4651 ppm	0.4739 ppm	0.4632 ppm	0.4771 ppm	0.4541 ppm
Concentration per Run 1	0.4792 ppm	0.4322 ppm	0.4639 ppm	0.4730 ppm	0.4623 ppm	0.4763 ppm	0.4506 ppm
Concentration per Run 2	0.4809 ppm	0.4421 ppm	0.4660 ppm	0.4726 ppm	0.4635 ppm	0.4768 ppm	0.4542 ppm
Concentration per Run 3	0.4823 ppm	0.4517 ppm	0.4655 ppm	0.4762 ppm	0.4637 ppm	0.4783 ppm	0.4574 ppm
Recovery Percentage 1	96.158 %	88.398 %	93.029 %	94.790 %	92.634 %	95.421 %	90.813 %
Concentration RSD	0.3 %	2.2 %	0.2 %	0.4 %	0.2 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4872 ppm	0.4921 ppm	0.4673 ppm	0.4693 ppm	0.4695 ppm	4.8284 ppm	0.4500 ppm
Concentration per Run 1	0.4903 ppm	0.4935 ppm	0.4643 ppm	0.4699 ppm	0.4722 ppm	4.8112 ppm	0.4502 ppm
Concentration per Run 2	0.4873 ppm	0.4917 ppm	0.4674 ppm	0.4698 ppm	0.4680 ppm	4.8572 ppm	0.4500 ppm
Concentration per Run 3	0.4840 ppm	0.4913 ppm	0.4701 ppm	0.4684 ppm	0.4682 ppm	4.8168 ppm	0.4499 ppm
Recovery Percentage 1	97.443 %	98.426 %	93.457 %	93.869 %	93.894 %	96.567 %	90.000 %
Concentration RSD	0.6 %	0.2 %	0.6 %	0.2 %	0.5 %	0.5 %	0.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4690 ppm	0.4542 ppm	0.4672 ppm	9.2001 ppm	0.4803 ppm	0.4764 ppm	0.4928 ppm
Concentration per Run 1	0.4688 ppm	0.4547 ppm	0.4642 ppm	9.2031 ppm	0.4801 ppm	0.4754 ppm	0.4980 ppm
Concentration per Run 2	0.4720 ppm	0.4537 ppm	0.4691 ppm	9.1693 ppm	0.4795 ppm	0.4770 ppm	0.4936 ppm
Concentration per Run 3	0.4661 ppm	0.4543 ppm	0.4684 ppm	9.2279 ppm	0.4813 ppm	0.4767 ppm	0.4868 ppm
Recovery Percentage 1	93.792 %	90.849 %	93.446 %	92.001 %	96.064 %	95.272 %	98.563 %
Concentration RSD	0.6 %	0.1 %	0.6 %	0.3 %	0.2 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4784 ppm	5.2009 ppm	0.4620 ppm	0.4434 ppm	0.4722 ppm	0.4703 ppm	0.4681 ppm
Concentration per Run 1	0.4799 ppm	5.2004 ppm	0.4605 ppm	0.4438 ppm	0.4702 ppm	0.4704 ppm	0.4687 ppm
Concentration per Run 2	0.4798 ppm	5.2070 ppm	0.4613 ppm	0.4432 ppm	0.4721 ppm	0.4692 ppm	0.4677 ppm
Concentration per Run 3	0.4756 ppm	5.1953 ppm	0.4642 ppm	0.4432 ppm	0.4742 ppm	0.4714 ppm	0.4679 ppm
Recovery Percentage 1	95.686 %	99.065 %	92.406 %	88.685 %	94.439 %	94.069 %	93.618 %
Concentration RSD	0.5 %	0.1 %	0.4 %	0.1 %	0.4 %	0.2 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4853 ppm	110.9186 %	112.8295 %	109.4550 %	109.2344 %	111.5244 %	108.6882 %
Concentration per Run 1	0.4850 ppm	111.1325 %	113.1429 %	109.5757 %	109.4336 %	111.8026 %	108.7887 %
Concentration per Run 2	0.4858 ppm	110.8416 %	112.2416 %	109.8788 %	109.2620 %	110.6820 %	108.9735 %
Concentration per Run 3	0.4852 ppm	110.7818 %	113.1039 %	108.9104 %	109.0076 %	112.0887 %	108.3024 %
Recovery Percentage 1	97.066 %						
Concentration RSD	0.1 %	0.2 %	0.5 %	0.5 %	0.2 %	0.7 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:18:32 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	-0.0062 ppm	-0.0002 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 1	0.0005 ppm	0.0043 ppm	0.0008 ppm	0.0018 ppm	0.0002 ppm	0.0000 ppm	-0.0033 ppm
Concentration per Run 2	0.0009 ppm	-0.0142 ppm	0.0005 ppm	0.0007 ppm	-0.0003 ppm	0.0001 ppm	-0.0036 ppm
Concentration per Run 3	0.0010 ppm	-0.0086 ppm	-0.0017 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	-0.0032 ppm
Recovery Percentage 1	11.627 %	-6.178 %	-3.243 %	4.713 %	-0.255 %	1.148 %	-3.370 %
Concentration RSD	33.7 %	153.0 %	826.5 %	43.8 %	878.2 %	80.3 %	5.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	0.0003 ppm	0.0003 ppm	0.0002 ppm	0.0419 ppm	-0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0293 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0015 ppm	0.0004 ppm	0.0004 ppm	0.0012 ppm	0.0709 ppm	-0.0005 ppm
Concentration per Run 3	-0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0254 ppm	-0.0008 ppm
Recovery Percentage 1	-0.226 %	2.930 %	2.731 %	2.901 %	0.446 %	1.674 %	-16.167 %
Concentration RSD	1,617.2 %	175.4 %	52.7 %	40.5 %	376.2 %	60.2 %	41.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0061 ppm	-0.0008 ppm	0.0014 ppm	0.0033 ppm
Concentration per Run 1	-0.0006 ppm	0.0002 ppm	0.0007 ppm	-0.0047 ppm	-0.0018 ppm	0.0016 ppm	0.0069 ppm
Concentration per Run 2	-0.0007 ppm	-0.0002 ppm	0.0003 ppm	-0.0038 ppm	-0.0005 ppm	0.0012 ppm	0.0042 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0008 ppm	-0.0097 ppm	-0.0001 ppm	0.0013 ppm	-0.0012 ppm
Recovery Percentage 1	-0.335 %	0.290 %	1.231 %	-0.304 %	-3.204 %	13.848 %	6.570 %
Concentration RSD	173.3 %	715.4 %	39.3 %	51.8 %	105.7 %	15.4 %	126.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0043 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	0.0001 ppm	-0.0015 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0019 ppm	0.0007 ppm	-0.0015 ppm	0.0002 ppm	-0.0006 ppm	0.0015 ppm	0.0004 ppm
Recovery Percentage 1	26.769 %	0.079 %	-2.042 %	1.074 %	-3.095 %	2.937 %	3.070 %
Concentration RSD	53.6 %	75.3 %	83.4 %	63.6 %	78.4 %	138.0 %	33.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	110.2602 %	111.7129 %	110.1103 %	109.3883 %	111.0579 %	109.2807 %
Concentration per Run 1	-0.0003 ppm	112.0101 %	111.7916 %	110.6877 %	110.5594 %	111.2484 %	109.7966 %
Concentration per Run 2	-0.0002 ppm	109.6925 %	111.9248 %	109.6622 %	109.0015 %	111.3200 %	108.7202 %
Concentration per Run 3	-0.0001 ppm	109.0782 %	111.4222 %	109.9809 %	108.6041 %	110.6052 %	109.3252 %
Recovery Percentage 1	-3.757 %						
Concentration RSD	76.8 %	1.4 %	0.2 %	0.5 %	0.9 %	0.4 %	0.5 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-1 WG1976217
Analysis started at: 9/26/2024 5:28:18 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0043 ppm	-0.0005 ppm	0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0043 ppm
Concentration per Run 1	0.0005 ppm	0.0074 ppm	-0.0008 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 2	0.0008 ppm	0.0080 ppm	-0.0019 ppm	0.0022 ppm	0.0000 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 3	0.0009 ppm	-0.0023 ppm	0.0012 ppm	0.0022 ppm	0.0001 ppm	0.0001 ppm	0.0047 ppm
Concentration RSD	30.2 %	133.6 %	322.0 %	18.7 %	180.3 %	54.5 %	28.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0301 ppm	-0.0013 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0228 ppm	-0.0010 ppm
Concentration per Run 2	0.0002 ppm	0.0010 ppm	0.0009 ppm	0.0000 ppm	-0.0016 ppm	0.0377 ppm	-0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0297 ppm	-0.0018 ppm
Concentration RSD	188.2 %	81.5 %	92.7 %	202.0 %	326.4 %	24.8 %	36.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0074 ppm	-0.0002 ppm	0.0003 ppm	0.0026 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	0.0006 ppm	-0.0048 ppm	-0.0002 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 2	0.0010 ppm	0.0003 ppm	-0.0003 ppm	-0.0082 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0017 ppm	-0.0001 ppm	0.0000 ppm	-0.0093 ppm	-0.0005 ppm	0.0009 ppm	0.0038 ppm
Concentration RSD	3,659.4 %	209.7 %	400.3 %	31.8 %	120.4 %	155.3 %	86.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	-0.0036 ppm	-0.0012 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0065 ppm	-0.0068 ppm	-0.0019 ppm	0.0000 ppm	-0.0006 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 2	0.0028 ppm	-0.0014 ppm	-0.0007 ppm	0.0001 ppm	-0.0004 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	-0.0025 ppm	-0.0011 ppm	0.0002 ppm	-0.0004 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	96.6 %	79.5 %	50.0 %	66.1 %	22.0 %	1,040.8 %	140.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	111.7933 %	111.9730 %	111.0796 %	110.4558 %	110.7604 %	108.9748 %
Concentration per Run 1	0.0002 ppm	110.9696 %	110.7015 %	110.7072 %	109.1801 %	110.0979 %	108.6494 %
Concentration per Run 2	0.0001 ppm	112.4523 %	112.1467 %	111.3016 %	111.2792 %	110.7006 %	108.9977 %
Concentration per Run 3	0.0001 ppm	111.9580 %	113.0707 %	111.2301 %	110.9082 %	111.4827 %	109.2774 %
Concentration RSD	25.6 %	0.7 %	1.1 %	0.3 %	1.0 %	0.6 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-2 WG1976217
Analysis started at: 9/26/2024 5:32:28 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0490 ppm	1.8292 ppm	0.1112 ppm	0.9108 ppm	1.8628 ppm	0.0473 ppm	9.3501 ppm
Concentration per Run 1	0.0493 ppm	1.8310 ppm	0.1103 ppm	0.9170 ppm	1.8726 ppm	0.0474 ppm	9.3506 ppm
Concentration per Run 2	0.0489 ppm	1.8283 ppm	0.1110 ppm	0.9074 ppm	1.8504 ppm	0.0470 ppm	9.3314 ppm
Concentration per Run 3	0.0488 ppm	1.8283 ppm	0.1122 ppm	0.9079 ppm	1.8655 ppm	0.0474 ppm	9.3684 ppm
Concentration RSD	0.6 %	0.1 %	0.9 %	0.6 %	0.6 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0506 ppm	0.4741 ppm	0.1851 ppm	0.2340 ppm	0.9507 ppm	9.6857 ppm	-0.0012 ppm
Concentration per Run 1	0.0510 ppm	0.4760 ppm	0.1853 ppm	0.2349 ppm	0.9502 ppm	9.7279 ppm	-0.0012 ppm
Concentration per Run 2	0.0503 ppm	0.4716 ppm	0.1851 ppm	0.2342 ppm	0.9463 ppm	9.6310 ppm	-0.0001 ppm
Concentration per Run 3	0.0506 ppm	0.4747 ppm	0.1849 ppm	0.2329 ppm	0.9556 ppm	9.6981 ppm	-0.0024 ppm
Concentration RSD	0.8 %	0.5 %	0.1 %	0.4 %	0.5 %	0.5 %	93.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.4357 ppm	0.4655 ppm	0.8861 ppm	9.5179 ppm	0.4693 ppm	0.5044 ppm	0.4152 ppm
Concentration per Run 1	9.4881 ppm	0.4658 ppm	0.8798 ppm	9.5496 ppm	0.4689 ppm	0.5012 ppm	0.4131 ppm
Concentration per Run 2	9.4418 ppm	0.4643 ppm	0.8847 ppm	9.4806 ppm	0.4692 ppm	0.5042 ppm	0.4093 ppm
Concentration per Run 3	9.3772 ppm	0.4664 ppm	0.8938 ppm	9.5234 ppm	0.4698 ppm	0.5079 ppm	0.4232 ppm
Concentration RSD	0.6 %	0.2 %	0.8 %	0.4 %	0.1 %	0.7 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1163 ppm	0.7229 ppm	0.8843 ppm	0.8891 ppm	0.9494 ppm	0.1132 ppm	0.4732 ppm
Concentration per Run 1	0.1157 ppm	0.7235 ppm	0.8895 ppm	0.8913 ppm	0.9537 ppm	0.1136 ppm	0.4744 ppm
Concentration per Run 2	0.1169 ppm	0.7248 ppm	0.8814 ppm	0.8865 ppm	0.9502 ppm	0.1113 ppm	0.4727 ppm
Concentration per Run 3	0.1165 ppm	0.7205 ppm	0.8819 ppm	0.8896 ppm	0.9445 ppm	0.1147 ppm	0.4725 ppm
Concentration RSD	0.5 %	0.3 %	0.5 %	0.3 %	0.5 %	1.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4767 ppm	115.5937 %	114.7878 %	113.2618 %	115.1638 %	113.9594 %	113.2793 %
Concentration per Run 1	0.4796 ppm	115.2215 %	115.2864 %	114.1419 %	115.1275 %	114.7413 %	113.7441 %
Concentration per Run 2	0.4749 ppm	115.1377 %	115.0381 %	114.3253 %	114.3260 %	113.8174 %	114.4768 %
Concentration per Run 3	0.4754 ppm	116.4219 %	114.0389 %	111.3180 %	116.0380 %	113.3194 %	111.6171 %
Concentration RSD	0.5 %	0.6 %	0.6 %	1.5 %	0.7 %	0.6 %	1.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454059-01 WG1976217
Analysis started at: 9/26/2024 5:36:23 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0052 ppm	0.0006 ppm	0.0194 ppm	0.0986 ppm	0.0001 ppm	14.8576 ppm
Concentration per Run 1	0.0007 ppm	0.0151 ppm	-0.0014 ppm	0.0197 ppm	0.0978 ppm	0.0001 ppm	14.7308 ppm
Concentration per Run 2	0.0014 ppm	0.0006 ppm	0.0027 ppm	0.0202 ppm	0.0994 ppm	0.0001 ppm	14.9562 ppm
Concentration per Run 3	0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0184 ppm	0.0986 ppm	0.0001 ppm	14.8856 ppm
Concentration RSD	40.5 %	163.1 %	357.5 %	4.9 %	0.8 %	30.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0013 ppm	0.0003 ppm	0.0027 ppm	0.0122 ppm	2.6168 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0026 ppm	0.0109 ppm	2.6174 ppm	-0.0013 ppm
Concentration per Run 2	-0.0002 ppm	0.0014 ppm	0.0003 ppm	0.0025 ppm	0.0134 ppm	2.6555 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0018 ppm	0.0005 ppm	0.0028 ppm	0.0124 ppm	2.5774 ppm	-0.0020 ppm
Concentration RSD	136.8 %	43.4 %	61.0 %	6.3 %	10.4 %	1.5 %	21.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.2312 ppm	0.0322 ppm	0.0021 ppm	68.9671 ppm	0.0002 ppm	0.0012 ppm	0.0067 ppm
Concentration per Run 1	4.2351 ppm	0.0319 ppm	0.0016 ppm	68.0039 ppm	0.0005 ppm	0.0009 ppm	0.0092 ppm
Concentration per Run 2	4.2324 ppm	0.0323 ppm	0.0024 ppm	69.9390 ppm	-0.0010 ppm	0.0021 ppm	0.0059 ppm
Concentration per Run 3	4.2260 ppm	0.0323 ppm	0.0022 ppm	68.9584 ppm	0.0010 ppm	0.0005 ppm	0.0049 ppm
Concentration RSD	0.1 %	0.7 %	19.6 %	1.4 %	629.7 %	71.2 %	33.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	3.0689 ppm	0.0037 ppm	0.0799 ppm	-0.0004 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0056 ppm	3.0802 ppm	0.0043 ppm	0.0793 ppm	-0.0004 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 2	0.0020 ppm	3.0537 ppm	0.0038 ppm	0.0806 ppm	-0.0006 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0058 ppm	3.0726 ppm	0.0031 ppm	0.0798 ppm	-0.0001 ppm	0.0020 ppm	0.0002 ppm
Concentration RSD	48.5 %	0.4 %	16.7 %	0.8 %	64.3 %	103.0 %	58.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0034 ppm	111.6407 %	113.7197 %	109.0360 %	112.5659 %	113.5345 %	112.3308 %
Concentration per Run 1	0.0035 ppm	111.2867 %	114.3628 %	108.5415 %	112.7566 %	114.4492 %	112.5520 %
Concentration per Run 2	0.0034 ppm	111.5816 %	112.8105 %	109.4899 %	112.4272 %	112.9487 %	112.4690 %
Concentration per Run 3	0.0035 ppm	112.0539 %	113.9856 %	109.0765 %	112.5139 %	113.2055 %	111.9714 %
Concentration RSD	2.1 %	0.3 %	0.7 %	0.4 %	0.2 %	0.7 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-3 WG1976217
Analysis started at: 9/26/2024 5:40:18 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0492 ppm	1.9151 ppm	0.1192 ppm	0.9670 ppm	2.0344 ppm	0.0496 ppm	25.1630 ppm
Concentration per Run 1	0.0493 ppm	1.9175 ppm	0.1225 ppm	0.9734 ppm	2.0444 ppm	0.0498 ppm	25.1300 ppm
Concentration per Run 2	0.0492 ppm	1.9280 ppm	0.1156 ppm	0.9624 ppm	2.0369 ppm	0.0498 ppm	25.2491 ppm
Concentration per Run 3	0.0491 ppm	1.9000 ppm	0.1195 ppm	0.9652 ppm	2.0219 ppm	0.0492 ppm	25.1100 ppm
Concentration RSD	0.2 %	0.7 %	2.9 %	0.6 %	0.6 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0516 ppm	0.4820 ppm	0.1898 ppm	0.2415 ppm	0.9955 ppm	12.8402 ppm	-0.0008 ppm
Concentration per Run 1	0.0519 ppm	0.4814 ppm	0.1887 ppm	0.2415 ppm	0.9994 ppm	12.9132 ppm	0.0005 ppm
Concentration per Run 2	0.0510 ppm	0.4811 ppm	0.1900 ppm	0.2413 ppm	0.9988 ppm	12.8347 ppm	-0.0016 ppm
Concentration per Run 3	0.0518 ppm	0.4835 ppm	0.1908 ppm	0.2418 ppm	0.9882 ppm	12.7728 ppm	-0.0015 ppm
Concentration RSD	1.0 %	0.3 %	0.6 %	0.1 %	0.6 %	0.5 %	138.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.7634 ppm	0.5140 ppm	0.8855 ppm	81.7452 ppm	0.4738 ppm	0.5151 ppm	0.3904 ppm
Concentration per Run 1	13.7715 ppm	0.5139 ppm	0.8737 ppm	81.6216 ppm	0.4743 ppm	0.5191 ppm	0.3758 ppm
Concentration per Run 2	13.7383 ppm	0.5167 ppm	0.8854 ppm	81.7168 ppm	0.4732 ppm	0.5119 ppm	0.3943 ppm
Concentration per Run 3	13.7803 ppm	0.5115 ppm	0.8974 ppm	81.8971 ppm	0.4740 ppm	0.5142 ppm	0.4010 ppm
Concentration RSD	0.2 %	0.5 %	1.3 %	0.2 %	0.1 %	0.7 %	3.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1219 ppm	3.9373 ppm	0.8924 ppm	1.0103 ppm	0.9771 ppm	0.1166 ppm	0.4888 ppm
Concentration per Run 1	0.1215 ppm	3.9530 ppm	0.8918 ppm	1.0170 ppm	0.9760 ppm	0.1178 ppm	0.4893 ppm
Concentration per Run 2	0.1214 ppm	3.9231 ppm	0.8878 ppm	1.0097 ppm	0.9741 ppm	0.1160 ppm	0.4882 ppm
Concentration per Run 3	0.1228 ppm	3.9357 ppm	0.8976 ppm	1.0040 ppm	0.9810 ppm	0.1159 ppm	0.4890 ppm
Concentration RSD	0.6 %	0.4 %	0.5 %	0.6 %	0.4 %	0.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4984 ppm	110.1802 %	108.6319 %	106.2832 %	110.2931 %	107.8792 %	108.3662 %
Concentration per Run 1	0.4998 ppm	110.3053 %	107.8691 %	105.6436 %	110.7354 %	106.9299 %	108.1397 %
Concentration per Run 2	0.4974 ppm	110.7746 %	108.3995 %	105.6814 %	110.8703 %	107.9427 %	107.6338 %
Concentration per Run 3	0.4980 ppm	109.4608 %	109.6270 %	107.5247 %	109.2737 %	108.7650 %	109.3250 %
Concentration RSD	0.3 %	0.6 %	0.8 %	1.0 %	0.8 %	0.9 %	0.8 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-4 WG1976217
Analysis started at: 9/26/2024 5:44:13 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0129 ppm	0.0012 ppm	0.0210 ppm	0.1038 ppm	0.0001 ppm	15.6126 ppm
Concentration per Run 1	0.0007 ppm	0.0111 ppm	0.0015 ppm	0.0217 ppm	0.1040 ppm	0.0001 ppm	15.6308 ppm
Concentration per Run 2	0.0007 ppm	0.0190 ppm	0.0006 ppm	0.0223 ppm	0.1037 ppm	0.0000 ppm	15.6184 ppm
Concentration per Run 3	0.0007 ppm	0.0085 ppm	0.0015 ppm	0.0191 ppm	0.1038 ppm	0.0001 ppm	15.5886 ppm
Concentration RSD	2.9 %	42.5 %	40.2 %	8.1 %	0.1 %	47.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0031 ppm	0.0158 ppm	2.7383 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0027 ppm	0.0160 ppm	2.7921 ppm	-0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0034 ppm	0.0157 ppm	2.7047 ppm	-0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0033 ppm	0.0158 ppm	2.7179 ppm	-0.0007 ppm
Concentration RSD	1,305.3 %	108.8 %	73.5 %	11.1 %	1.1 %	1.7 %	50.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3573 ppm	0.0336 ppm	0.0029 ppm	72.5280 ppm	0.0002 ppm	0.0012 ppm	0.0046 ppm
Concentration per Run 1	4.3597 ppm	0.0339 ppm	0.0022 ppm	72.7066 ppm	-0.0009 ppm	0.0015 ppm	0.0019 ppm
Concentration per Run 2	4.3721 ppm	0.0334 ppm	0.0033 ppm	72.3962 ppm	0.0009 ppm	0.0021 ppm	0.0057 ppm
Concentration per Run 3	4.3400 ppm	0.0335 ppm	0.0034 ppm	72.4812 ppm	0.0005 ppm	-0.0002 ppm	0.0063 ppm
Concentration RSD	0.4 %	0.8 %	21.6 %	0.2 %	599.5 %	102.8 %	51.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	3.1655 ppm	0.0059 ppm	0.0843 ppm	-0.0004 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 1	0.0013 ppm	3.1718 ppm	0.0056 ppm	0.0846 ppm	-0.0004 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0008 ppm	3.1645 ppm	0.0056 ppm	0.0840 ppm	-0.0005 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 3	0.0053 ppm	3.1601 ppm	0.0065 ppm	0.0843 ppm	-0.0003 ppm	-0.0008 ppm	0.0004 ppm
Concentration RSD	99.9 %	0.2 %	8.2 %	0.3 %	23.5 %	194.0 %	39.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0036 ppm	109.2033 %	109.5466 %	107.4010 %	110.8267 %	109.4692 %	110.1962 %
Concentration per Run 1	0.0038 ppm	110.3819 %	109.3867 %	107.2547 %	112.7182 %	109.4274 %	110.5685 %
Concentration per Run 2	0.0036 ppm	107.8560 %	109.2462 %	107.8130 %	109.2555 %	109.1504 %	110.3407 %
Concentration per Run 3	0.0035 ppm	109.3720 %	110.0070 %	107.1354 %	110.5065 %	109.8297 %	109.6793 %
Concentration RSD	3.6 %	1.2 %	0.4 %	0.3 %	1.6 %	0.3 %	0.4 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-5 WG1976217
Analysis started at: 9/26/2024 5:48:08 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0484 ppm	1.8615 ppm	0.1188 ppm	0.9704 ppm	1.9808 ppm	0.0485 ppm	24.3656 ppm
Concentration per Run 1	0.0491 ppm	1.8933 ppm	0.1190 ppm	0.9825 ppm	1.9935 ppm	0.0487 ppm	24.4783 ppm
Concentration per Run 2	0.0486 ppm	1.8487 ppm	0.1199 ppm	0.9685 ppm	1.9768 ppm	0.0485 ppm	24.3596 ppm
Concentration per Run 3	0.0475 ppm	1.8424 ppm	0.1175 ppm	0.9601 ppm	1.9722 ppm	0.0483 ppm	24.2589 ppm
Concentration RSD	1.6 %	1.5 %	1.0 %	1.2 %	0.6 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0511 ppm	0.4817 ppm	0.1897 ppm	0.2410 ppm	0.9634 ppm	12.5344 ppm	-0.0021 ppm
Concentration per Run 1	0.0517 ppm	0.4881 ppm	0.1926 ppm	0.2448 ppm	0.9702 ppm	12.5977 ppm	-0.0011 ppm
Concentration per Run 2	0.0505 ppm	0.4777 ppm	0.1895 ppm	0.2391 ppm	0.9698 ppm	12.5686 ppm	-0.0024 ppm
Concentration per Run 3	0.0511 ppm	0.4792 ppm	0.1870 ppm	0.2391 ppm	0.9502 ppm	12.4370 ppm	-0.0029 ppm
Concentration RSD	1.2 %	1.2 %	1.5 %	1.4 %	1.2 %	0.7 %	42.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.6245 ppm	0.5034 ppm	0.8945 ppm	78.7751 ppm	0.4744 ppm	0.5102 ppm	0.3438 ppm
Concentration per Run 1	13.8123 ppm	0.5056 ppm	0.8890 ppm	79.2514 ppm	0.4808 ppm	0.5110 ppm	0.3376 ppm
Concentration per Run 2	13.5683 ppm	0.5023 ppm	0.8907 ppm	78.5423 ppm	0.4748 ppm	0.5084 ppm	0.3409 ppm
Concentration per Run 3	13.4929 ppm	0.5023 ppm	0.9038 ppm	78.5316 ppm	0.4675 ppm	0.5110 ppm	0.3530 ppm
Concentration RSD	1.2 %	0.4 %	0.9 %	0.5 %	1.4 %	0.3 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1212 ppm	3.5879 ppm	0.9113 ppm	0.9880 ppm	0.9821 ppm	0.1150 ppm	0.4875 ppm
Concentration per Run 1	0.1224 ppm	3.6311 ppm	0.9253 ppm	0.9923 ppm	0.9952 ppm	0.1152 ppm	0.4944 ppm
Concentration per Run 2	0.1196 ppm	3.5614 ppm	0.9059 ppm	0.9874 ppm	0.9768 ppm	0.1149 ppm	0.4844 ppm
Concentration per Run 3	0.1216 ppm	3.5713 ppm	0.9029 ppm	0.9843 ppm	0.9743 ppm	0.1150 ppm	0.4837 ppm
Concentration RSD	1.2 %	1.1 %	1.3 %	0.4 %	1.2 %	0.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4969 ppm	108.7981 %	109.2490 %	106.3054 %	109.1477 %	108.0060 %	108.3690 %
Concentration per Run 1	0.5026 ppm	107.9683 %	109.4152 %	106.8420 %	108.4087 %	108.9225 %	109.1629 %
Concentration per Run 2	0.4958 ppm	109.4387 %	108.9884 %	106.1030 %	109.5350 %	107.8409 %	108.1862 %
Concentration per Run 3	0.4923 ppm	108.9872 %	109.3435 %	105.9712 %	109.4993 %	107.2545 %	107.7580 %
Concentration RSD	1.1 %	0.7 %	0.2 %	0.4 %	0.6 %	0.8 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-6d5 WG1976217
Analysis started at: 9/26/2024 5:52:03 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	-0.0063 ppm	-0.0007 ppm	0.0059 ppm	0.0200 ppm	0.0001 ppm	2.9285 ppm
Concentration per Run 1	0.0006 ppm	-0.0091 ppm	-0.0007 ppm	0.0041 ppm	0.0200 ppm	0.0000 ppm	2.9287 ppm
Concentration per Run 2	0.0011 ppm	0.0022 ppm	0.0004 ppm	0.0073 ppm	0.0201 ppm	0.0000 ppm	2.9212 ppm
Concentration per Run 3	0.0006 ppm	-0.0120 ppm	-0.0017 ppm	0.0061 ppm	0.0199 ppm	0.0001 ppm	2.9356 ppm
Concentration RSD	37.7 %	118.8 %	154.6 %	27.1 %	0.5 %	84.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0006 ppm	0.0020 ppm	0.5591 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	0.0022 ppm	0.5750 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0007 ppm	0.0019 ppm	0.5332 ppm	-0.0006 ppm
Concentration per Run 3	0.0003 ppm	0.0013 ppm	0.0000 ppm	0.0006 ppm	0.0020 ppm	0.5690 ppm	-0.0008 ppm
Concentration RSD	219.5 %	56.8 %	267.5 %	18.4 %	8.7 %	4.0 %	18.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.8264 ppm	0.0065 ppm	0.0031 ppm	13.8202 ppm	-0.0002 ppm	0.0015 ppm	0.0108 ppm
Concentration per Run 1	0.8270 ppm	0.0065 ppm	0.0033 ppm	13.8184 ppm	-0.0016 ppm	0.0023 ppm	0.0072 ppm
Concentration per Run 2	0.8213 ppm	0.0068 ppm	0.0030 ppm	13.8101 ppm	-0.0005 ppm	0.0019 ppm	0.0104 ppm
Concentration per Run 3	0.8309 ppm	0.0063 ppm	0.0030 ppm	13.8320 ppm	0.0013 ppm	0.0004 ppm	0.0149 ppm
Concentration RSD	0.6 %	4.2 %	6.5 %	0.1 %	604.9 %	64.1 %	36.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.5958 ppm	0.0197 ppm	0.0160 ppm	-0.0001 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0005 ppm	0.5943 ppm	0.0215 ppm	0.0160 ppm	-0.0002 ppm	0.0006 ppm	0.0007 ppm
Concentration per Run 2	0.0035 ppm	0.5959 ppm	0.0199 ppm	0.0160 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 3	-0.0010 ppm	0.5970 ppm	0.0177 ppm	0.0161 ppm	-0.0002 ppm	0.0013 ppm	0.0004 ppm
Concentration RSD	220.7 %	0.2 %	9.8 %	0.3 %	206.1 %	43.5 %	90.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	110.8732 %	109.3776 %	109.3290 %	110.4675 %	107.9897 %	109.2137 %
Concentration per Run 1	0.0008 ppm	110.9516 %	109.3457 %	109.3760 %	110.3007 %	108.4008 %	109.2442 %
Concentration per Run 2	0.0007 ppm	111.2298 %	109.5596 %	109.5056 %	110.7690 %	108.1874 %	109.3009 %
Concentration per Run 3	0.0007 ppm	110.4382 %	109.2274 %	109.1054 %	110.3329 %	107.3808 %	109.0961 %
Concentration RSD	7.9 %	0.4 %	0.2 %	0.2 %	0.2 %	0.5 %	0.1 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453908-01 WG1976217
Analysis started at: 9/26/2024 5:55:58 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0070 ppm	0.0007 ppm	0.0031 ppm	0.0047 ppm	0.0001 ppm	12.4786 ppm
Concentration per Run 1	0.0000 ppm	0.0091 ppm	0.0004 ppm	0.0022 ppm	0.0047 ppm	0.0001 ppm	12.5021 ppm
Concentration per Run 2	0.0004 ppm	0.0039 ppm	-0.0001 ppm	0.0027 ppm	0.0048 ppm	0.0001 ppm	12.4720 ppm
Concentration per Run 3	0.0006 ppm	0.0080 ppm	0.0018 ppm	0.0043 ppm	0.0047 ppm	0.0001 ppm	12.4617 ppm
Concentration RSD	82.9 %	39.8 %	147.8 %	36.0 %	0.6 %	5.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0011 ppm	0.0004 ppm	0.0013 ppm	0.3048 ppm	1.1022 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	0.0003 ppm	0.0013 ppm	0.3047 ppm	1.1205 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0002 ppm	0.0009 ppm	0.3053 ppm	1.0935 ppm	-0.0026 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0006 ppm	0.0016 ppm	0.3045 ppm	1.0925 ppm	0.0013 ppm
Concentration RSD	162.5 %	22.7 %	57.8 %	26.8 %	0.1 %	1.4 %	346.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1631 ppm	0.1998 ppm	0.0009 ppm	5.5744 ppm	0.0011 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 1	3.1703 ppm	0.2000 ppm	0.0008 ppm	5.5856 ppm	0.0008 ppm	0.0003 ppm	0.0024 ppm
Concentration per Run 2	3.1609 ppm	0.1997 ppm	0.0008 ppm	5.5759 ppm	0.0010 ppm	0.0008 ppm	0.0012 ppm
Concentration per Run 3	3.1582 ppm	0.1997 ppm	0.0011 ppm	5.5618 ppm	0.0015 ppm	0.0023 ppm	-0.0023 ppm
Concentration RSD	0.2 %	0.1 %	19.0 %	0.2 %	31.0 %	95.4 %	555.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	4.5770 ppm	-0.0006 ppm	0.0455 ppm	-0.0005 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0013 ppm	4.5836 ppm	-0.0004 ppm	0.0453 ppm	-0.0003 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0061 ppm	4.5796 ppm	0.0002 ppm	0.0456 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0002 ppm	4.5680 ppm	-0.0014 ppm	0.0456 ppm	-0.0010 ppm	0.0010 ppm	0.0005 ppm
Concentration RSD	122.6 %	0.2 %	142.6 %	0.4 %	90.9 %	71.6 %	46.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	110.6582 %	109.2852 %	109.7633 %	112.3684 %	108.6508 %	110.5867 %
Concentration per Run 1	0.0025 ppm	111.4457 %	109.0562 %	109.1357 %	113.6786 %	108.9162 %	110.2846 %
Concentration per Run 2	0.0024 ppm	110.2198 %	109.2654 %	110.3507 %	111.9782 %	108.5693 %	111.0565 %
Concentration per Run 3	0.0021 ppm	110.3090 %	109.5340 %	109.8035 %	111.4485 %	108.4669 %	110.4189 %
Concentration RSD	7.3 %	0.6 %	0.2 %	0.6 %	1.0 %	0.2 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453913-01 WG1976217
Analysis started at: 9/26/2024 5:59:54 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0052 ppm	0.0029 ppm	0.0054 ppm	0.0060 ppm	0.0000 ppm	17.6776 ppm
Concentration per Run 1	0.0006 ppm	-0.0025 ppm	0.0018 ppm	0.0043 ppm	0.0060 ppm	0.0000 ppm	17.6411 ppm
Concentration per Run 2	0.0002 ppm	-0.0099 ppm	0.0036 ppm	0.0062 ppm	0.0060 ppm	0.0000 ppm	17.7726 ppm
Concentration per Run 3	0.0002 ppm	-0.0034 ppm	0.0033 ppm	0.0058 ppm	0.0059 ppm	0.0000 ppm	17.6192 ppm
Concentration RSD	77.1 %	77.2 %	32.1 %	19.0 %	1.2 %	44.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0005 ppm	0.3250 ppm	1.4992 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	-0.0001 ppm	0.0006 ppm	0.3226 ppm	1.5240 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.3272 ppm	1.5130 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.0006 ppm	0.3252 ppm	1.4606 ppm	-0.0015 ppm
Concentration RSD	216.5 %	92.9 %	110.6 %	19.2 %	0.7 %	2.3 %	75.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.9196 ppm	0.3656 ppm	0.0002 ppm	6.5972 ppm	0.0005 ppm	0.0016 ppm	0.0052 ppm
Concentration per Run 1	3.9328 ppm	0.3645 ppm	0.0002 ppm	6.6056 ppm	0.0001 ppm	0.0030 ppm	0.0024 ppm
Concentration per Run 2	3.9072 ppm	0.3662 ppm	0.0002 ppm	6.5863 ppm	0.0012 ppm	0.0003 ppm	0.0059 ppm
Concentration per Run 3	3.9189 ppm	0.3659 ppm	0.0003 ppm	6.5997 ppm	0.0003 ppm	0.0015 ppm	0.0073 ppm
Concentration RSD	0.3 %	0.2 %	20.9 %	0.2 %	119.3 %	84.5 %	49.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	4.7259 ppm	-0.0015 ppm	0.0616 ppm	-0.0002 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	4.7278 ppm	-0.0020 ppm	0.0615 ppm	-0.0003 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 2	0.0023 ppm	4.7311 ppm	-0.0016 ppm	0.0616 ppm	-0.0003 ppm	0.0020 ppm	0.0006 ppm
Concentration per Run 3	0.0067 ppm	4.7187 ppm	-0.0008 ppm	0.0617 ppm	-0.0001 ppm	0.0020 ppm	0.0005 ppm
Concentration RSD	103.7 %	0.1 %	40.2 %	0.2 %	49.2 %	47.1 %	20.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	110.5102 %	108.9133 %	108.9994 %	112.0152 %	108.3474 %	110.3769 %
Concentration per Run 1	0.0019 ppm	109.9018 %	109.5699 %	108.9945 %	112.0208 %	108.9844 %	110.4399 %
Concentration per Run 2	0.0019 ppm	111.7047 %	107.9257 %	108.3944 %	113.3428 %	107.3329 %	109.8209 %
Concentration per Run 3	0.0019 ppm	109.9242 %	109.2444 %	109.6094 %	110.6819 %	108.7248 %	110.8699 %
Concentration RSD	2.2 %	0.9 %	0.8 %	0.6 %	1.2 %	0.8 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454059-02 WG1976217
Analysis started at: 9/26/2024 6:03:50 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	-0.0042 ppm	0.0008 ppm	0.0045 ppm	0.0146 ppm	0.0001 ppm	11.2450 ppm
Concentration per Run 1	0.0003 ppm	-0.0019 ppm	0.0016 ppm	0.0065 ppm	0.0146 ppm	0.0001 ppm	11.3154 ppm
Concentration per Run 2	0.0009 ppm	-0.0020 ppm	-0.0001 ppm	0.0036 ppm	0.0145 ppm	0.0001 ppm	11.1711 ppm
Concentration per Run 3	0.0006 ppm	-0.0087 ppm	0.0009 ppm	0.0034 ppm	0.0145 ppm	0.0001 ppm	11.2487 ppm
Concentration RSD	50.6 %	93.5 %	112.8 %	39.1 %	0.4 %	29.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0027 ppm	0.0003 ppm	0.0018 ppm	0.9713 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	0.0010 ppm	0.0023 ppm	0.0004 ppm	0.0026 ppm	0.9865 ppm	0.0046 ppm
Concentration per Run 2	0.0003 ppm	0.0004 ppm	0.0027 ppm	0.0003 ppm	0.0000 ppm	0.9657 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0032 ppm	0.0002 ppm	0.0028 ppm	0.9616 ppm	0.0020 ppm
Concentration RSD	246.2 %	45.9 %	17.0 %	30.8 %	85.5 %	1.4 %	42.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.4725 ppm	0.0002 ppm	0.0001 ppm	8.3184 ppm	-0.0004 ppm	0.0018 ppm	0.0036 ppm
Concentration per Run 1	5.4976 ppm	0.0002 ppm	0.0002 ppm	8.3509 ppm	-0.0011 ppm	0.0017 ppm	0.0038 ppm
Concentration per Run 2	5.4528 ppm	0.0002 ppm	0.0001 ppm	8.2705 ppm	-0.0005 ppm	0.0015 ppm	0.0038 ppm
Concentration per Run 3	5.4672 ppm	0.0001 ppm	0.0002 ppm	8.3337 ppm	0.0005 ppm	0.0022 ppm	0.0033 ppm
Concentration RSD	0.4 %	14.7 %	35.1 %	0.5 %	201.5 %	19.8 %	8.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0048 ppm	9.4453 ppm	-0.0019 ppm	0.0455 ppm	-0.0007 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	0.0031 ppm	9.4509 ppm	-0.0013 ppm	0.0454 ppm	-0.0008 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0079 ppm	9.4365 ppm	-0.0019 ppm	0.0453 ppm	-0.0005 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	0.0033 ppm	9.4485 ppm	-0.0025 ppm	0.0457 ppm	-0.0008 ppm	0.0004 ppm	0.0003 ppm
Concentration RSD	56.7 %	0.1 %	32.4 %	0.5 %	28.3 %	28.9 %	88.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	110.5469 %	108.8030 %	109.7029 %	111.8229 %	107.6903 %	110.8639 %
Concentration per Run 1	0.0006 ppm	110.8145 %	108.5338 %	109.0821 %	112.2756 %	107.8919 %	110.3036 %
Concentration per Run 2	0.0006 ppm	110.4973 %	108.1667 %	110.4427 %	111.6418 %	106.4054 %	111.6581 %
Concentration per Run 3	0.0007 ppm	110.3289 %	109.7087 %	109.5840 %	111.5513 %	108.7736 %	110.6300 %
Concentration RSD	7.2 %	0.2 %	0.7 %	0.6 %	0.4 %	1.1 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:07:45 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4843 ppm	0.4577 ppm	0.4667 ppm	0.4650 ppm	0.4783 ppm	0.4923 ppm	0.4737 ppm
Concentration per Run 1	0.4862 ppm	0.4579 ppm	0.4714 ppm	0.4629 ppm	0.4768 ppm	0.4929 ppm	0.4782 ppm
Concentration per Run 2	0.4817 ppm	0.4595 ppm	0.4664 ppm	0.4661 ppm	0.4768 ppm	0.4911 ppm	0.4728 ppm
Concentration per Run 3	0.4852 ppm	0.4557 ppm	0.4623 ppm	0.4662 ppm	0.4812 ppm	0.4930 ppm	0.4700 ppm
Recovery Percentage 1	96.870 %	91.547 %	93.341 %	93.007 %	95.657 %	98.463 %	94.732 %
Concentration RSD	0.5 %	0.4 %	1.0 %	0.4 %	0.5 %	0.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4883 ppm	0.4948 ppm	0.4743 ppm	0.4731 ppm	0.4827 ppm	4.9996 ppm	0.4659 ppm
Concentration per Run 1	0.4912 ppm	0.4962 ppm	0.4760 ppm	0.4732 ppm	0.4846 ppm	5.0191 ppm	0.4680 ppm
Concentration per Run 2	0.4877 ppm	0.4935 ppm	0.4721 ppm	0.4737 ppm	0.4829 ppm	4.9987 ppm	0.4637 ppm
Concentration per Run 3	0.4858 ppm	0.4947 ppm	0.4748 ppm	0.4724 ppm	0.4807 ppm	4.9809 ppm	0.4659 ppm
Recovery Percentage 1	97.651 %	98.957 %	94.853 %	94.623 %	96.543 %	99.991 %	93.178 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.1 %	0.4 %	0.4 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4701 ppm	0.4680 ppm	0.4704 ppm	9.5253 ppm	0.4861 ppm	0.4850 ppm	0.4914 ppm
Concentration per Run 1	0.4731 ppm	0.4677 ppm	0.4673 ppm	9.5119 ppm	0.4889 ppm	0.4838 ppm	0.4922 ppm
Concentration per Run 2	0.4698 ppm	0.4676 ppm	0.4693 ppm	9.5024 ppm	0.4819 ppm	0.4855 ppm	0.4914 ppm
Concentration per Run 3	0.4675 ppm	0.4687 ppm	0.4745 ppm	9.5616 ppm	0.4874 ppm	0.4856 ppm	0.4906 ppm
Recovery Percentage 1	94.024 %	93.605 %	94.076 %	95.253 %	97.211 %	96.994 %	98.283 %
Concentration RSD	0.6 %	0.1 %	0.8 %	0.3 %	0.7 %	0.2 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4756 ppm	5.1986 ppm	0.4663 ppm	0.4581 ppm	0.4793 ppm	0.4804 ppm	0.4744 ppm
Concentration per Run 1	0.4827 ppm	5.1905 ppm	0.4615 ppm	0.4580 ppm	0.4806 ppm	0.4830 ppm	0.4744 ppm
Concentration per Run 2	0.4701 ppm	5.2048 ppm	0.4693 ppm	0.4576 ppm	0.4767 ppm	0.4810 ppm	0.4748 ppm
Concentration per Run 3	0.4741 ppm	5.2004 ppm	0.4680 ppm	0.4588 ppm	0.4804 ppm	0.4771 ppm	0.4741 ppm
Recovery Percentage 1	95.128 %	99.021 %	93.252 %	91.628 %	95.850 %	96.074 %	94.884 %
Concentration RSD	1.4 %	0.1 %	0.9 %	0.1 %	0.5 %	0.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4872 ppm	112.1993 %	109.4860 %	109.7388 %	111.4886 %	108.2754 %	109.6760 %
Concentration per Run 1	0.4863 ppm	112.2017 %	108.7096 %	109.4986 %	111.6304 %	107.6911 %	109.0379 %
Concentration per Run 2	0.4861 ppm	112.2993 %	109.5397 %	109.7050 %	111.7805 %	107.9961 %	109.6668 %
Concentration per Run 3	0.4891 ppm	112.0970 %	110.2087 %	110.0127 %	111.0551 %	109.1390 %	110.3233 %
Recovery Percentage 1	97.438 %						
Concentration RSD	0.3 %	0.1 %	0.7 %	0.2 %	0.3 %	0.7 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:11:39 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0051 ppm	0.0007 ppm	0.0030 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0011 ppm	0.0014 ppm	-0.0002 ppm	0.0054 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0006 ppm	0.0052 ppm	0.0014 ppm	0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0004 ppm	0.0087 ppm	0.0010 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Recovery Percentage 1	10.177 %	5.101 %	14.853 %	9.856 %	1.794 %	1.188 %	0.215 %
Concentration RSD	49.0 %	72.0 %	109.5 %	73.3 %	75.0 %	52.1 %	467.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0005 ppm	-0.0005 ppm	0.0341 ppm	-0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0004 ppm	0.0009 ppm	0.0524 ppm	-0.0031 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	0.0005 ppm	0.0007 ppm	-0.0007 ppm	0.0211 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0010 ppm	-0.0001 ppm	0.0004 ppm	-0.0017 ppm	0.0288 ppm	-0.0005 ppm
Recovery Percentage 1	-2.252 %	2.862 %	2.863 %	5.147 %	-0.969 %	1.364 %	-40.454 %
Concentration RSD	163.3 %	61.6 %	116.6 %	39.2 %	278.7 %	47.9 %	65.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0002 ppm	0.0006 ppm	-0.0050 ppm	-0.0002 ppm	0.0007 ppm	0.0040 ppm
Concentration per Run 1	-0.0006 ppm	0.0003 ppm	0.0006 ppm	0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0089 ppm
Concentration per Run 2	0.0010 ppm	0.0002 ppm	0.0003 ppm	-0.0036 ppm	-0.0005 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 3	-0.0041 ppm	0.0000 ppm	0.0009 ppm	-0.0116 ppm	0.0001 ppm	0.0016 ppm	0.0018 ppm
Recovery Percentage 1	-1.205 %	1.612 %	1.199 %	-0.252 %	-0.974 %	7.112 %	7.931 %
Concentration RSD	218.3 %	98.2 %	53.6 %	119.6 %	132.8 %	109.1 %	107.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	-0.0003 ppm	-0.0004 ppm	0.0001 ppm	-0.0004 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 1	0.0021 ppm	-0.0047 ppm	-0.0002 ppm	-0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0029 ppm	0.0025 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0011 ppm	0.0012 ppm	-0.0009 ppm	0.0002 ppm	-0.0007 ppm	0.0017 ppm	0.0002 ppm
Recovery Percentage 1	20.153 %	-0.069 %	-0.751 %	0.979 %	-3.765 %	5.220 %	2.326 %
Concentration RSD	45.4 %	1,104.9 %	113.0 %	141.3 %	92.1 %	51.3 %	43.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	110.0777 %	107.7591 %	110.3606 %	111.1463 %	107.7175 %	110.7314 %
Concentration per Run 1	-0.0002 ppm	109.9221 %	108.2261 %	111.2183 %	111.0970 %	108.3544 %	111.2833 %
Concentration per Run 2	0.0004 ppm	110.8355 %	107.1010 %	110.2748 %	111.8805 %	106.8588 %	110.8450 %
Concentration per Run 3	-0.0002 ppm	109.4755 %	107.9501 %	109.5888 %	110.4615 %	107.9392 %	110.0659 %
Recovery Percentage 1	-0.513 %						
Concentration RSD	1,294.0 %	0.6 %	0.5 %	0.7 %	0.6 %	0.7 %	0.6 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-04 WG1975733
Analysis started at: 9/26/2024 6:37:47 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0143 ppm	0.0014 ppm	0.0178 ppm	0.0410 ppm	0.0001 ppm	66.0028 ppm
Concentration per Run 1	0.0001 ppm	-0.0074 ppm	0.0015 ppm	0.0188 ppm	0.0411 ppm	0.0001 ppm	66.3816 ppm
Concentration per Run 2	0.0012 ppm	-0.0132 ppm	0.0017 ppm	0.0153 ppm	0.0412 ppm	0.0001 ppm	66.1852 ppm
Concentration per Run 3	0.0001 ppm	-0.0223 ppm	0.0008 ppm	0.0193 ppm	0.0406 ppm	0.0001 ppm	65.4416 ppm
Concentration RSD	140.2 %	52.7 %	34.1 %	12.2 %	0.8 %	25.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0050 ppm	0.0007 ppm	0.0026 ppm	1.5944 ppm	0.0003 ppm
Concentration per Run 1	-0.0003 ppm	0.0015 ppm	0.0054 ppm	0.0007 ppm	0.0020 ppm	1.6350 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	0.0048 ppm	0.0005 ppm	0.0043 ppm	1.5986 ppm	-0.0006 ppm
Concentration per Run 3	-0.0005 ppm	0.0007 ppm	0.0048 ppm	0.0008 ppm	0.0014 ppm	1.5495 ppm	0.0012 ppm
Concentration RSD	54.0 %	154.4 %	6.5 %	20.0 %	58.2 %	2.7 %	331.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7094 ppm	0.0033 ppm	0.0004 ppm	124.1163 ppm	0.0010 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 1	0.7093 ppm	0.0034 ppm	0.0005 ppm	124.7619 ppm	0.0013 ppm	-0.0004 ppm	0.0079 ppm
Concentration per Run 2	0.7112 ppm	0.0030 ppm	-0.0002 ppm	124.4090 ppm	0.0000 ppm	0.0003 ppm	0.0065 ppm
Concentration per Run 3	0.7077 ppm	0.0033 ppm	0.0010 ppm	123.1780 ppm	0.0017 ppm	0.0001 ppm	0.0065 ppm
Concentration RSD	0.2 %	6.3 %	133.1 %	0.7 %	89.6 %	6,447.7 %	11.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	3.4169 ppm	0.0002 ppm	0.1932 ppm	-0.0003 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 1	0.0033 ppm	3.4238 ppm	0.0006 ppm	0.1945 ppm	-0.0005 ppm	0.0011 ppm	0.0017 ppm
Concentration per Run 2	0.0070 ppm	3.4147 ppm	-0.0002 ppm	0.1934 ppm	-0.0004 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 3	0.0043 ppm	3.4120 ppm	0.0002 ppm	0.1916 ppm	-0.0001 ppm	-0.0014 ppm	0.0013 ppm
Concentration RSD	38.6 %	0.2 %	207.1 %	0.8 %	66.4 %	1,335.1 %	15.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	104.5814 %	109.1703 %	98.6872 %	102.2761 %	107.7699 %	102.2286 %
Concentration per Run 1	0.0006 ppm	104.0212 %	108.2732 %	98.7702 %	101.4677 %	106.7910 %	102.3448 %
Concentration per Run 2	0.0006 ppm	104.9563 %	109.8554 %	98.4639 %	102.6470 %	108.3838 %	101.8284 %
Concentration per Run 3	0.0001 ppm	104.7667 %	109.3823 %	98.8275 %	102.7135 %	108.1349 %	102.5127 %
Concentration RSD	68.1 %	0.5 %	0.7 %	0.2 %	0.7 %	0.8 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-05 WG1975733
Analysis started at: 9/26/2024 6:41:58 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0063 ppm	0.0025 ppm	0.0126 ppm	0.0506 ppm	0.0001 ppm	75.3155 ppm
Concentration per Run 1	0.0003 ppm	-0.0042 ppm	0.0014 ppm	0.0138 ppm	0.0510 ppm	0.0000 ppm	75.3742 ppm
Concentration per Run 2	0.0006 ppm	-0.0064 ppm	0.0024 ppm	0.0106 ppm	0.0504 ppm	0.0001 ppm	75.3928 ppm
Concentration per Run 3	0.0004 ppm	-0.0083 ppm	0.0037 ppm	0.0133 ppm	0.0505 ppm	0.0000 ppm	75.1796 ppm
Concentration RSD	40.0 %	32.7 %	46.2 %	13.5 %	0.6 %	106.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0010 ppm	0.0007 ppm	0.0050 ppm	0.0030 ppm	1.2545 ppm	0.0008 ppm
Concentration per Run 1	-0.0002 ppm	0.0009 ppm	0.0006 ppm	0.0052 ppm	0.0036 ppm	1.2686 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0049 ppm	0.0043 ppm	1.2559 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	0.0015 ppm	0.0010 ppm	0.0051 ppm	0.0012 ppm	1.2390 ppm	0.0006 ppm
Concentration RSD	78.7 %	52.3 %	29.7 %	3.5 %	54.9 %	1.2 %	79.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1800 ppm	0.0396 ppm	0.0002 ppm	122.4391 ppm	0.0008 ppm	0.0059 ppm	0.0058 ppm
Concentration per Run 1	1.1799 ppm	0.0396 ppm	0.0000 ppm	122.7178 ppm	0.0001 ppm	0.0060 ppm	0.0023 ppm
Concentration per Run 2	1.1803 ppm	0.0395 ppm	0.0002 ppm	122.6062 ppm	0.0010 ppm	0.0050 ppm	0.0055 ppm
Concentration per Run 3	1.1798 ppm	0.0398 ppm	0.0003 ppm	121.9934 ppm	0.0014 ppm	0.0067 ppm	0.0097 ppm
Concentration RSD	0.0 %	0.4 %	103.6 %	0.3 %	77.6 %	14.4 %	63.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0040 ppm	2.1146 ppm	-0.0016 ppm	0.2915 ppm	-0.0003 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 1	0.0058 ppm	2.1198 ppm	-0.0012 ppm	0.2937 ppm	-0.0003 ppm	0.0014 ppm	0.0012 ppm
Concentration per Run 2	0.0023 ppm	2.1071 ppm	-0.0015 ppm	0.2890 ppm	-0.0006 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 3	0.0039 ppm	2.1170 ppm	-0.0022 ppm	0.2918 ppm	0.0002 ppm	0.0002 ppm	0.0008 ppm
Concentration RSD	43.2 %	0.3 %	30.8 %	0.8 %	150.9 %	133.0 %	21.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0133 ppm	108.7189 %	110.5321 %	101.6034 %	107.3176 %	109.2425 %	105.8265 %
Concentration per Run 1	0.0133 ppm	108.9837 %	111.1578 %	101.8200 %	107.6505 %	109.6473 %	105.8231 %
Concentration per Run 2	0.0133 ppm	108.6000 %	110.5992 %	101.0078 %	107.1605 %	109.4888 %	105.4419 %
Concentration per Run 3	0.0133 ppm	108.5731 %	109.8393 %	101.9823 %	107.1420 %	108.5914 %	106.2144 %
Concentration RSD	0.1 %	0.2 %	0.6 %	0.5 %	0.3 %	0.5 %	0.4 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-06 WG1975733
Analysis started at: 9/26/2024 6:45:54 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0085 ppm	0.0001 ppm	0.0089 ppm	0.0204 ppm	0.0001 ppm	75.6352 ppm
Concentration per Run 1	0.0006 ppm	-0.0128 ppm	0.0025 ppm	0.0113 ppm	0.0204 ppm	0.0001 ppm	75.3847 ppm
Concentration per Run 2	0.0006 ppm	-0.0087 ppm	-0.0031 ppm	0.0078 ppm	0.0203 ppm	0.0000 ppm	75.7860 ppm
Concentration per Run 3	0.0002 ppm	-0.0039 ppm	0.0009 ppm	0.0075 ppm	0.0205 ppm	0.0000 ppm	75.7350 ppm
Concentration RSD	53.7 %	52.6 %	3,314.7 %	23.8 %	0.3 %	44.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0005 ppm	0.0003 ppm	0.0007 ppm	-0.0005 ppm	1.1224 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0004 ppm	0.0004 ppm	1.1517 ppm	0.0014 ppm
Concentration per Run 2	-0.0005 ppm	0.0005 ppm	0.0002 ppm	0.0009 ppm	-0.0023 ppm	1.1114 ppm	0.0007 ppm
Concentration per Run 3	-0.0005 ppm	-0.0002 ppm	0.0002 ppm	0.0008 ppm	0.0005 ppm	1.1042 ppm	-0.0013 ppm
Concentration RSD	10.2 %	143.6 %	53.3 %	38.2 %	344.3 %	2.3 %	533.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9409 ppm	0.0201 ppm	0.0005 ppm	120.9403 ppm	0.0008 ppm	0.0018 ppm	0.0059 ppm
Concentration per Run 1	0.9450 ppm	0.0202 ppm	0.0005 ppm	120.9512 ppm	0.0006 ppm	0.0026 ppm	0.0063 ppm
Concentration per Run 2	0.9413 ppm	0.0202 ppm	0.0007 ppm	120.7409 ppm	0.0011 ppm	0.0009 ppm	0.0034 ppm
Concentration per Run 3	0.9363 ppm	0.0199 ppm	0.0004 ppm	121.1290 ppm	0.0006 ppm	0.0019 ppm	0.0079 ppm
Concentration RSD	0.5 %	0.8 %	22.9 %	0.2 %	38.2 %	47.0 %	39.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0055 ppm	1.9194 ppm	-0.0017 ppm	0.1805 ppm	-0.0003 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 1	0.0060 ppm	1.9109 ppm	-0.0023 ppm	0.1802 ppm	-0.0005 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 2	0.0053 ppm	1.9337 ppm	-0.0011 ppm	0.1806 ppm	-0.0004 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 3	0.0052 ppm	1.9136 ppm	-0.0016 ppm	0.1806 ppm	-0.0002 ppm	-0.0004 ppm	0.0012 ppm
Concentration RSD	8.0 %	0.6 %	34.6 %	0.1 %	47.0 %	179.1 %	20.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	108.6365 %	110.6097 %	101.9615 %	107.5803 %	109.8178 %	106.8986 %
Concentration per Run 1	0.0008 ppm	109.2737 %	110.2391 %	102.0945 %	108.3740 %	109.2609 %	107.1735 %
Concentration per Run 2	0.0008 ppm	108.1207 %	111.2450 %	101.9832 %	106.8890 %	110.6604 %	107.0354 %
Concentration per Run 3	0.0010 ppm	108.5151 %	110.3448 %	101.8069 %	107.4779 %	109.5320 %	106.4870 %
Concentration RSD	12.7 %	0.5 %	0.5 %	0.1 %	0.7 %	0.7 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2452542-01 WG1975733
Analysis started at: 9/26/2024 6:49:49 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0030 ppm	-0.0004 ppm	0.0247 ppm	0.0342 ppm	0.0001 ppm	3.4722 ppm
Concentration per Run 1	0.0010 ppm	0.0015 ppm	0.0000 ppm	0.0250 ppm	0.0341 ppm	0.0001 ppm	3.4803 ppm
Concentration per Run 2	0.0007 ppm	0.0024 ppm	-0.0003 ppm	0.0238 ppm	0.0344 ppm	0.0001 ppm	3.4521 ppm
Concentration per Run 3	0.0004 ppm	0.0052 ppm	-0.0008 ppm	0.0252 ppm	0.0342 ppm	0.0001 ppm	3.4842 ppm
Concentration RSD	47.8 %	64.2 %	99.7 %	3.0 %	0.5 %	35.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0018 ppm	0.0022 ppm	0.3163 ppm	-0.0010 ppm
Concentration per Run 1	0.0002 ppm	0.0006 ppm	-0.0003 ppm	0.0018 ppm	0.0019 ppm	0.3556 ppm	-0.0020 ppm
Concentration per Run 2	0.0003 ppm	0.0016 ppm	-0.0002 ppm	0.0019 ppm	0.0036 ppm	0.2819 ppm	-0.0009 ppm
Concentration per Run 3	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0017 ppm	0.0012 ppm	0.3113 ppm	-0.0002 ppm
Concentration RSD	40.3 %	53.6 %	34.6 %	7.3 %	54.4 %	11.7 %	89.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3265 ppm	0.0120 ppm	0.0000 ppm	123.2162 ppm	0.0000 ppm	0.0109 ppm	0.0059 ppm
Concentration per Run 1	0.3267 ppm	0.0120 ppm	0.0007 ppm	123.2756 ppm	0.0005 ppm	0.0104 ppm	0.0066 ppm
Concentration per Run 2	0.3224 ppm	0.0120 ppm	-0.0004 ppm	122.8517 ppm	-0.0003 ppm	0.0097 ppm	0.0040 ppm
Concentration per Run 3	0.3305 ppm	0.0120 ppm	-0.0001 ppm	123.5214 ppm	-0.0003 ppm	0.0127 ppm	0.0071 ppm
Concentration RSD	1.2 %	0.2 %	1,358.2 %	0.3 %	5,054.0 %	14.0 %	28.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0054 ppm	0.2321 ppm	-0.0015 ppm	0.0182 ppm	-0.0006 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.2286 ppm	-0.0018 ppm	0.0182 ppm	-0.0007 ppm	0.0019 ppm	0.0000 ppm
Concentration per Run 2	0.0064 ppm	0.2322 ppm	-0.0011 ppm	0.0183 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.0114 ppm	0.2354 ppm	-0.0016 ppm	0.0181 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm
Concentration RSD	119.4 %	1.5 %	23.7 %	0.5 %	20.2 %	133.6 %	124.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0704 ppm	110.2063 %	111.3714 %	104.5252 %	109.2222 %	110.2517 %	108.2207 %
Concentration per Run 1	0.0705 ppm	109.8384 %	111.7595 %	104.1833 %	109.1105 %	111.0782 %	108.2159 %
Concentration per Run 2	0.0699 ppm	110.3446 %	111.4032 %	103.7846 %	109.2079 %	109.8690 %	107.5818 %
Concentration per Run 3	0.0708 ppm	110.4357 %	110.9514 %	105.6076 %	109.3483 %	109.8079 %	108.8644 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.9 %	0.1 %	0.6 %	0.6 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-01d2 WG1975918
Analysis started at: 9/26/2024 6:53:44 PM
Rack 2
Vial 1
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	104.6584 ppm	0.0482 ppm	0.0851 ppm	1.3787 ppm	0.0051 ppm	**849.4621 ppm**
Concentration per Run 1	0.0011 ppm	104.5456 ppm	0.0533 ppm	0.0873 ppm	1.3751 ppm	0.0051 ppm	851.6470 ppm
Concentration per Run 2	0.0016 ppm	105.1647 ppm	0.0446 ppm	0.0844 ppm	1.3803 ppm	0.0051 ppm	852.1105 ppm
Concentration per Run 3	0.0010 ppm	104.2651 ppm	0.0467 ppm	0.0834 ppm	1.3806 ppm	0.0051 ppm	844.6288 ppm
Concentration RSD	26.0 %	0.4 %	9.4 %	2.4 %	0.2 %	0.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0037 ppm	0.1371 ppm	0.1728 ppm	0.2215 ppm	171.4428 ppm	16.7454 ppm	0.1795 ppm
Concentration per Run 1	-0.0037 ppm	0.1380 ppm	0.1721 ppm	0.2223 ppm	171.4362 ppm	16.6795 ppm	0.1782 ppm
Concentration per Run 2	-0.0038 ppm	0.1367 ppm	0.1739 ppm	0.2208 ppm	171.5866 ppm	16.7754 ppm	0.1794 ppm
Concentration per Run 3	-0.0037 ppm	0.1367 ppm	0.1726 ppm	0.2214 ppm	171.3057 ppm	16.7814 ppm	0.1809 ppm
Concentration RSD	1.8 %	0.6 %	0.5 %	0.4 %	0.1 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	66.1623 ppm	4.4952 ppm	0.0035 ppm	3.9086 ppm	0.1429 ppm	0.0787 ppm	0.0032 ppm
Concentration per Run 1	66.2313 ppm	4.4882 ppm	0.0035 ppm	3.9147 ppm	0.1433 ppm	0.0789 ppm	0.0042 ppm
Concentration per Run 2	66.1317 ppm	4.5190 ppm	0.0035 ppm	3.9152 ppm	0.1422 ppm	0.0801 ppm	0.0008 ppm
Concentration per Run 3	66.1239 ppm	4.4784 ppm	0.0036 ppm	3.8959 ppm	0.1432 ppm	0.0772 ppm	0.0045 ppm
Concentration RSD	0.1 %	0.5 %	1.6 %	0.3 %	0.4 %	1.8 %	63.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	4.7996 ppm	0.0026 ppm	2.5426 ppm	1.7676 ppm	0.0041 ppm	0.1814 ppm
Concentration per Run 1	0.0003 ppm	4.8328 ppm	0.0017 ppm	2.5405 ppm	1.7650 ppm	0.0039 ppm	0.1819 ppm
Concentration per Run 2	0.0047 ppm	4.7738 ppm	0.0036 ppm	2.5431 ppm	1.7734 ppm	0.0042 ppm	0.1811 ppm
Concentration per Run 3	0.0004 ppm	4.7921 ppm	0.0024 ppm	2.5441 ppm	1.7646 ppm	0.0042 ppm	0.1812 ppm
Concentration RSD	139.5 %	0.6 %	37.8 %	0.1 %	0.3 %	4.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4648 ppm	105.7915 %	110.5778 %	93.6027 %	129.8923 %	136.6745 %	128.5940 %
Concentration per Run 1	0.4651 ppm	105.4760 %	110.9895 %	93.8456 %	129.5881 %	137.7227 %	128.9951 %
Concentration per Run 2	0.4654 ppm	105.1388 %	110.2898 %	93.3948 %	128.9540 %	136.3129 %	128.2209 %
Concentration per Run 3	0.4640 ppm	106.7597 %	110.4541 %	93.5678 %	131.1349 %	135.9877 %	128.5661 %
Concentration RSD	0.2 %	0.8 %	0.3 %	0.2 %	0.9 %	0.7 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-02d2 WG1975918
Analysis started at: 9/26/2024 6:57:38 PM
Rack 2
Vial 2
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	70.0977 ppm	0.0951 ppm	0.0905 ppm	1.4275 ppm	0.0041 ppm	**1,365.8422 ppm**
Concentration per Run 1	0.0010 ppm	69.8771 ppm	0.0953 ppm	0.0908 ppm	1.4256 ppm	0.0040 ppm	1,362.4348 ppm
Concentration per Run 2	0.0011 ppm	70.3214 ppm	0.0946 ppm	0.0888 ppm	1.4278 ppm	0.0041 ppm	1,364.8109 ppm
Concentration per Run 3	0.0015 ppm	70.0946 ppm	0.0953 ppm	0.0919 ppm	1.4290 ppm	0.0042 ppm	1,370.2809 ppm
Concentration RSD	19.8 %	0.3 %	0.5 %	1.7 %	0.1 %	2.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0067 ppm	0.0662 ppm	0.1221 ppm	0.4475 ppm	122.0746 ppm	14.3267 ppm	0.0740 ppm
Concentration per Run 1	-0.0065 ppm	0.0658 ppm	0.1223 ppm	0.4459 ppm	121.4949 ppm	14.3505 ppm	0.0739 ppm
Concentration per Run 2	-0.0066 ppm	0.0654 ppm	0.1224 ppm	0.4480 ppm	121.5825 ppm	14.3234 ppm	0.0714 ppm
Concentration per Run 3	-0.0069 ppm	0.0674 ppm	0.1217 ppm	0.4485 ppm	123.1462 ppm	14.3063 ppm	0.0766 ppm
Concentration RSD	2.6 %	1.6 %	0.3 %	0.3 %	0.8 %	0.2 %	3.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	348.7685 ppm	3.2892 ppm	0.0074 ppm	3.3995 ppm	0.1230 ppm	0.0768 ppm	0.0061 ppm
Concentration per Run 1	348.6505 ppm	3.2719 ppm	0.0072 ppm	3.3849 ppm	0.1235 ppm	0.0772 ppm	0.0076 ppm
Concentration per Run 2	348.9724 ppm	3.2865 ppm	0.0072 ppm	3.3951 ppm	0.1224 ppm	0.0742 ppm	0.0053 ppm
Concentration per Run 3	348.6825 ppm	3.3091 ppm	0.0078 ppm	3.4185 ppm	0.1231 ppm	0.0788 ppm	0.0053 ppm
Concentration RSD	0.1 %	0.6 %	5.0 %	0.5 %	0.5 %	3.0 %	21.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	**27.6685 ppm**	0.0060 ppm	3.0176 ppm	2.1543 ppm	0.0051 ppm	0.1345 ppm
Concentration per Run 1	0.0015 ppm	27.6898 ppm	0.0047 ppm	3.0087 ppm	2.1616 ppm	0.0055 ppm	0.1338 ppm
Concentration per Run 2	-0.0067 ppm	27.6082 ppm	0.0066 ppm	3.0115 ppm	2.1523 ppm	0.0058 ppm	0.1353 ppm
Concentration per Run 3	-0.0003 ppm	27.7076 ppm	0.0066 ppm	3.0325 ppm	2.1490 ppm	0.0038 ppm	0.1344 ppm
Concentration RSD	233.7 %	0.2 %	18.2 %	0.4 %	0.3 %	21.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4298 ppm	100.9673 %	109.3487 %	87.4347 %	117.4040 %	127.3390 %	115.2362 %
Concentration per Run 1	0.4307 ppm	100.5153 %	110.0118 %	87.3475 %	116.6974 %	128.3947 %	115.3036 %
Concentration per Run 2	0.4300 ppm	101.3798 %	108.5190 %	87.2921 %	117.8184 %	126.0604 %	114.7417 %
Concentration per Run 3	0.4287 ppm	101.0069 %	109.5153 %	87.6644 %	117.6962 %	127.5621 %	115.6633 %
Concentration RSD	0.2 %	0.4 %	0.7 %	0.2 %	0.5 %	0.9 %	0.4 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-03d2 WG1975918
Analysis started at: 9/26/2024 7:01:33 PM
Rack 2
Vial 3
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	71.1512 ppm	0.0424 ppm	0.0854 ppm	0.6783 ppm	0.0037 ppm	**820.8834 ppm**
Concentration per Run 1	0.0028 ppm	71.1590 ppm	0.0398 ppm	0.0864 ppm	0.6778 ppm	0.0037 ppm	821.1100 ppm
Concentration per Run 2	0.0020 ppm	71.1438 ppm	0.0462 ppm	0.0836 ppm	0.6801 ppm	0.0036 ppm	818.9607 ppm
Concentration per Run 3	0.0018 ppm	71.1508 ppm	0.0411 ppm	0.0863 ppm	0.6769 ppm	0.0037 ppm	822.5795 ppm
Concentration RSD	23.8 %	0.0 %	7.9 %	1.9 %	0.2 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0012 ppm	0.0617 ppm	0.2896 ppm	1.4294 ppm	144.0418 ppm	10.7088 ppm	0.1122 ppm
Concentration per Run 1	-0.0011 ppm	0.0620 ppm	0.2902 ppm	1.4366 ppm	143.9055 ppm	10.7220 ppm	0.1116 ppm
Concentration per Run 2	-0.0015 ppm	0.0620 ppm	0.2889 ppm	1.4234 ppm	144.0377 ppm	10.7230 ppm	0.1119 ppm
Concentration per Run 3	-0.0012 ppm	0.0612 ppm	0.2896 ppm	1.4283 ppm	144.1821 ppm	10.6813 ppm	0.1131 ppm
Concentration RSD	17.8 %	0.7 %	0.2 %	0.5 %	0.1 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	98.4483 ppm	3.6855 ppm	0.0138 ppm	2.7684 ppm	0.1682 ppm	0.0861 ppm	0.0095 ppm
Concentration per Run 1	98.4781 ppm	3.6876 ppm	0.0138 ppm	2.7715 ppm	0.1676 ppm	0.0856 ppm	0.0065 ppm
Concentration per Run 2	98.1701 ppm	3.6922 ppm	0.0132 ppm	2.7627 ppm	0.1678 ppm	0.0865 ppm	0.0180 ppm
Concentration per Run 3	98.6968 ppm	3.6768 ppm	0.0146 ppm	2.7711 ppm	0.1693 ppm	0.0864 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.2 %	5.0 %	0.2 %	0.6 %	0.6 %	78.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0035 ppm	6.6486 ppm	0.0088 ppm	1.9198 ppm	1.6996 ppm	0.0026 ppm	0.1474 ppm
Concentration per Run 1	0.0073 ppm	6.7220 ppm	0.0100 ppm	1.9191 ppm	1.6994 ppm	0.0018 ppm	0.1476 ppm
Concentration per Run 2	-0.0012 ppm	6.6310 ppm	0.0089 ppm	1.9236 ppm	1.6969 ppm	0.0025 ppm	0.1478 ppm
Concentration per Run 3	0.0045 ppm	6.5927 ppm	0.0076 ppm	1.9167 ppm	1.7024 ppm	0.0034 ppm	0.1468 ppm
Concentration RSD	121.9 %	1.0 %	13.5 %	0.2 %	0.2 %	31.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2350 ppm	105.2342 %	111.2360 %	92.7812 %	118.4013 %	125.7900 %	116.0217 %
Concentration per Run 1	1.2363 ppm	105.7629 %	111.8378 %	92.0132 %	119.4368 %	126.5363 %	115.6564 %
Concentration per Run 2	1.2250 ppm	106.2582 %	111.2455 %	93.3305 %	119.5703 %	125.3263 %	116.5449 %
Concentration per Run 3	1.2437 ppm	103.6814 %	110.6246 %	92.9998 %	116.1967 %	125.5074 %	115.8636 %
Concentration RSD	0.8 %	1.3 %	0.5 %	0.7 %	1.6 %	0.5 %	0.4 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-04d2 WG1975918
Analysis started at: 9/26/2024 7:05:27 PM
Rack 2
Vial 4
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	90.6446 ppm	0.0663 ppm	0.0989 ppm	1.0420 ppm	0.0039 ppm	**546.2170 ppm**
Concentration per Run 1	0.0009 ppm	90.4816 ppm	0.0672 ppm	0.0969 ppm	1.0426 ppm	0.0039 ppm	545.4855 ppm
Concentration per Run 2	0.0010 ppm	90.6989 ppm	0.0651 ppm	0.0991 ppm	1.0391 ppm	0.0039 ppm	546.5698 ppm
Concentration per Run 3	0.0008 ppm	90.7532 ppm	0.0667 ppm	0.1006 ppm	1.0441 ppm	0.0039 ppm	546.5956 ppm
Concentration RSD	14.4 %	0.2 %	1.6 %	1.9 %	0.2 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0890 ppm	0.2064 ppm	0.5986 ppm	169.1342 ppm	12.8463 ppm	0.1572 ppm
Concentration per Run 1	0.0022 ppm	0.0892 ppm	0.2052 ppm	0.5991 ppm	168.8071 ppm	12.8885 ppm	0.1560 ppm
Concentration per Run 2	0.0026 ppm	0.0885 ppm	0.2075 ppm	0.5980 ppm	168.9068 ppm	12.8049 ppm	0.1573 ppm
Concentration per Run 3	0.0021 ppm	0.0894 ppm	0.2064 ppm	0.5987 ppm	169.6886 ppm	12.8456 ppm	0.1584 ppm
Concentration RSD	11.1 %	0.6 %	0.6 %	0.1 %	0.3 %	0.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.2583 ppm	3.2793 ppm	0.0038 ppm	3.6524 ppm	0.1306 ppm	0.1590 ppm	0.0039 ppm
Concentration per Run 1	42.1386 ppm	3.2786 ppm	0.0030 ppm	3.6447 ppm	0.1302 ppm	0.1588 ppm	-0.0005 ppm
Concentration per Run 2	42.3207 ppm	3.2820 ppm	0.0039 ppm	3.6403 ppm	0.1304 ppm	0.1587 ppm	0.0055 ppm
Concentration per Run 3	42.3157 ppm	3.2773 ppm	0.0044 ppm	3.6722 ppm	0.1312 ppm	0.1595 ppm	0.0066 ppm
Concentration RSD	0.2 %	0.1 %	18.8 %	0.5 %	0.4 %	0.3 %	98.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	6.3942 ppm	0.0086 ppm	1.2622 ppm	4.6294 ppm	0.0046 ppm	0.1918 ppm
Concentration per Run 1	0.0055 ppm	6.3867 ppm	0.0086 ppm	1.2628 ppm	4.6020 ppm	0.0045 ppm	0.1922 ppm
Concentration per Run 2	0.0022 ppm	6.4632 ppm	0.0092 ppm	1.2590 ppm	4.6502 ppm	0.0062 ppm	0.1917 ppm
Concentration per Run 3	0.0012 ppm	6.3326 ppm	0.0081 ppm	1.2647 ppm	4.6359 ppm	0.0031 ppm	0.1915 ppm
Concentration RSD	76.7 %	1.0 %	6.2 %	0.2 %	0.5 %	33.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.9131 ppm	107.7861 %	112.6829 %	98.2433 %	130.2645 %	136.2980 %	128.9379 %
Concentration per Run 1	7.8675 ppm	107.9804 %	113.5864 %	97.8227 %	130.5458 %	136.8521 %	128.6198 %
Concentration per Run 2	7.9408 ppm	107.8214 %	112.0561 %	98.8081 %	130.1332 %	135.4553 %	129.1578 %
Concentration per Run 3	7.9309 ppm	107.5564 %	112.4062 %	98.0989 %	130.1146 %	136.5867 %	129.0359 %
Concentration RSD	0.5 %	0.2 %	0.7 %	0.5 %	0.2 %	0.5 %	0.2 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-05d2 WG1975918
Analysis started at: 9/26/2024 7:09:21 PM
Rack 2
Vial 5
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	77.1559 ppm	0.0401 ppm	0.0784 ppm	1.1050 ppm	0.0045 ppm	**911.3942 ppm**
Concentration per Run 1	0.0002 ppm	77.4385 ppm	0.0389 ppm	0.0798 ppm	1.1052 ppm	0.0045 ppm	906.0945 ppm
Concentration per Run 2	0.0004 ppm	76.5354 ppm	0.0408 ppm	0.0792 ppm	1.1069 ppm	0.0045 ppm	912.1694 ppm
Concentration per Run 3	0.0012 ppm	77.4938 ppm	0.0406 ppm	0.0762 ppm	1.1029 ppm	0.0044 ppm	915.9186 ppm
Concentration RSD	91.7 %	0.7 %	2.6 %	2.5 %	0.2 %	1.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0026 ppm	0.0369 ppm	0.1186 ppm	1.7643 ppm	126.2110 ppm	10.5928 ppm	0.0956 ppm
Concentration per Run 1	-0.0029 ppm	0.0367 ppm	0.1190 ppm	1.7755 ppm	125.5679 ppm	10.6188 ppm	0.0943 ppm
Concentration per Run 2	-0.0024 ppm	0.0369 ppm	0.1192 ppm	1.7633 ppm	127.1643 ppm	10.5710 ppm	0.0963 ppm
Concentration per Run 3	-0.0024 ppm	0.0370 ppm	0.1175 ppm	1.7542 ppm	125.9007 ppm	10.5886 ppm	0.0961 ppm
Concentration RSD	10.7 %	0.5 %	0.8 %	0.6 %	0.7 %	0.2 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	178.2412 ppm	2.7211 ppm	0.0057 ppm	2.6402 ppm	0.0934 ppm	0.0575 ppm	0.0069 ppm
Concentration per Run 1	178.8508 ppm	2.7124 ppm	0.0052 ppm	2.6330 ppm	0.0923 ppm	0.0557 ppm	0.0110 ppm
Concentration per Run 2	178.4295 ppm	2.7286 ppm	0.0055 ppm	2.6482 ppm	0.0938 ppm	0.0578 ppm	0.0050 ppm
Concentration per Run 3	177.4434 ppm	2.7223 ppm	0.0062 ppm	2.6395 ppm	0.0939 ppm	0.0590 ppm	0.0048 ppm
Concentration RSD	0.4 %	0.3 %	8.6 %	0.3 %	0.9 %	2.9 %	51.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	17.8064 ppm	0.0079 ppm	2.5746 ppm	2.9775 ppm	0.0045 ppm	0.1696 ppm
Concentration per Run 1	0.0014 ppm	17.7716 ppm	0.0076 ppm	2.5701 ppm	2.9830 ppm	0.0039 ppm	0.1705 ppm
Concentration per Run 2	0.0022 ppm	17.8444 ppm	0.0081 ppm	2.5854 ppm	2.9851 ppm	0.0055 ppm	0.1696 ppm
Concentration per Run 3	-0.0008 ppm	17.8032 ppm	0.0079 ppm	2.5682 ppm	2.9644 ppm	0.0039 ppm	0.1688 ppm
Concentration RSD	170.4 %	0.2 %	3.7 %	0.4 %	0.4 %	20.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6280 ppm	103.7745 %	110.9794 %	92.0372 %	123.8223 %	132.9587 %	121.3793 %
Concentration per Run 1	1.6347 ppm	104.0531 %	112.4895 %	91.8147 %	124.3793 %	134.8107 %	121.0835 %
Concentration per Run 2	1.6326 ppm	103.6892 %	109.4619 %	92.1826 %	123.7877 %	130.8123 %	121.2803 %
Concentration per Run 3	1.6167 ppm	103.5811 %	110.9866 %	92.1143 %	123.2998 %	133.2531 %	121.7740 %
Concentration RSD	0.6 %	0.2 %	1.4 %	0.2 %	0.4 %	1.5 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-06d2 WG1975918
Analysis started at: 9/26/2024 7:13:16 PM
Rack 2
Vial 6
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	54.2797 ppm	0.0736 ppm	0.0831 ppm	0.5060 ppm	0.0030 ppm	2,228.1838 ppm
Concentration per Run 1	-0.0001 ppm	54.2631 ppm	0.0697 ppm	0.0792 ppm	0.5083 ppm	0.0030 ppm	2,229.9057 ppm
Concentration per Run 2	0.0002 ppm	54.2580 ppm	0.0750 ppm	0.0866 ppm	0.5055 ppm	0.0030 ppm	2,226.7320 ppm
Concentration per Run 3	-0.0001 ppm	54.3179 ppm	0.0762 ppm	0.0837 ppm	0.5042 ppm	0.0030 ppm	2,227.9138 ppm
Concentration RSD	3,744.9 %	0.1 %	4.7 %	4.4 %	0.4 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0110 ppm	0.0302 ppm	0.1357 ppm	0.4605 ppm	102.3679 ppm	8.1582 ppm	0.0675 ppm
Concentration per Run 1	-0.0111 ppm	0.0297 ppm	0.1354 ppm	0.4619 ppm	102.3706 ppm	8.1832 ppm	0.0727 ppm
Concentration per Run 2	-0.0110 ppm	0.0299 ppm	0.1358 ppm	0.4599 ppm	102.0761 ppm	8.1464 ppm	0.0646 ppm
Concentration per Run 3	-0.0110 ppm	0.0309 ppm	0.1357 ppm	0.4597 ppm	102.6570 ppm	8.1449 ppm	0.0651 ppm
Concentration RSD	0.5 %	2.0 %	0.1 %	0.3 %	0.3 %	0.3 %	6.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	112.8189 ppm	1.9671 ppm	0.0091 ppm	2.8234 ppm	0.0987 ppm	0.0892 ppm	0.0115 ppm
Concentration per Run 1	113.2632 ppm	1.9737 ppm	0.0096 ppm	2.8280 ppm	0.0996 ppm	0.0877 ppm	0.0163 ppm
Concentration per Run 2	112.8056 ppm	1.9637 ppm	0.0092 ppm	2.8304 ppm	0.0978 ppm	0.0902 ppm	0.0053 ppm
Concentration per Run 3	112.3879 ppm	1.9637 ppm	0.0084 ppm	2.8118 ppm	0.0985 ppm	0.0897 ppm	0.0128 ppm
Concentration RSD	0.4 %	0.3 %	7.0 %	0.4 %	1.0 %	1.5 %	49.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	24.7949 ppm	0.0076 ppm	5.2028 ppm	1.8143 ppm	0.0040 ppm	0.1044 ppm
Concentration per Run 1	0.0017 ppm	24.8665 ppm	0.0066 ppm	5.2013 ppm	1.8200 ppm	0.0043 ppm	0.1050 ppm
Concentration per Run 2	-0.0034 ppm	24.6374 ppm	0.0089 ppm	5.2049 ppm	1.8142 ppm	0.0065 ppm	0.1037 ppm
Concentration per Run 3	-0.0025 ppm	24.8808 ppm	0.0072 ppm	5.2021 ppm	1.8087 ppm	0.0011 ppm	0.1045 ppm
Concentration RSD	193.5 %	0.6 %	15.6 %	0.0 %	0.3 %	69.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6617 ppm	97.1970 %	108.9899 %	83.8922 %	119.8525 %	134.7041 %	117.9446 %
Concentration per Run 1	0.6677 ppm	97.1239 %	108.8916 %	83.3467 %	119.8460 %	134.5647 %	117.1559 %
Concentration per Run 2	0.6597 ppm	97.3829 %	109.5417 %	84.1374 %	119.8687 %	135.4154 %	118.6459 %
Concentration per Run 3	0.6578 ppm	97.0843 %	108.5364 %	84.1924 %	119.8429 %	134.1323 %	118.0320 %
Concentration RSD	0.8 %	0.2 %	0.5 %	0.6 %	0.0 %	0.5 %	0.6 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:17:10 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4836 ppm	0.4611 ppm	0.4656 ppm	0.4641 ppm	0.4790 ppm	0.4911 ppm	0.5006 ppm
Concentration per Run 1	0.4828 ppm	0.4589 ppm	0.4672 ppm	0.4645 ppm	0.4769 ppm	0.4888 ppm	0.5038 ppm
Concentration per Run 2	0.4835 ppm	0.4581 ppm	0.4656 ppm	0.4667 ppm	0.4830 ppm	0.4958 ppm	0.4972 ppm
Concentration per Run 3	0.4845 ppm	0.4663 ppm	0.4640 ppm	0.4610 ppm	0.4770 ppm	0.4888 ppm	0.5009 ppm
Recovery Percentage 1	96.717 %	92.223 %	93.120 %	92.814 %	95.796 %	98.224 %	100.126 %
Concentration RSD	0.2 %	1.0 %	0.3 %	0.6 %	0.7 %	0.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4917 ppm	0.4975 ppm	0.4740 ppm	0.4724 ppm	0.4842 ppm	4.9642 ppm	0.4630 ppm
Concentration per Run 1	0.4894 ppm	0.4960 ppm	0.4743 ppm	0.4716 ppm	0.4877 ppm	4.9564 ppm	0.4647 ppm
Concentration per Run 2	0.4904 ppm	0.4967 ppm	0.4742 ppm	0.4728 ppm	0.4852 ppm	4.9944 ppm	0.4614 ppm
Concentration per Run 3	0.4954 ppm	0.4997 ppm	0.4735 ppm	0.4727 ppm	0.4798 ppm	4.9417 ppm	0.4628 ppm
Recovery Percentage 1	98.348 %	99.490 %	94.795 %	94.473 %	96.850 %	99.284 %	92.598 %
Concentration RSD	0.6 %	0.4 %	0.1 %	0.1 %	0.8 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4767 ppm	0.4711 ppm	0.4734 ppm	9.4850 ppm	0.4890 ppm	0.4823 ppm	0.4912 ppm
Concentration per Run 1	0.4767 ppm	0.4690 ppm	0.4736 ppm	9.4772 ppm	0.4899 ppm	0.4823 ppm	0.4910 ppm
Concentration per Run 2	0.4758 ppm	0.4724 ppm	0.4707 ppm	9.5100 ppm	0.4885 ppm	0.4839 ppm	0.4890 ppm
Concentration per Run 3	0.4776 ppm	0.4720 ppm	0.4759 ppm	9.4679 ppm	0.4887 ppm	0.4808 ppm	0.4937 ppm
Recovery Percentage 1	95.342 %	94.227 %	94.679 %	94.850 %	97.802 %	96.465 %	98.244 %
Concentration RSD	0.2 %	0.4 %	0.5 %	0.2 %	0.2 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4785 ppm	5.2279 ppm	0.4649 ppm	0.4570 ppm	0.4816 ppm	0.4779 ppm	0.4738 ppm
Concentration per Run 1	0.4786 ppm	5.2154 ppm	0.4690 ppm	0.4553 ppm	0.4811 ppm	0.4782 ppm	0.4721 ppm
Concentration per Run 2	0.4778 ppm	5.2220 ppm	0.4640 ppm	0.4584 ppm	0.4817 ppm	0.4767 ppm	0.4737 ppm
Concentration per Run 3	0.4790 ppm	5.2462 ppm	0.4617 ppm	0.4573 ppm	0.4820 ppm	0.4787 ppm	0.4755 ppm
Recovery Percentage 1	95.695 %	99.578 %	92.979 %	91.404 %	96.318 %	95.572 %	94.757 %
Concentration RSD	0.1 %	0.3 %	0.8 %	0.3 %	0.1 %	0.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4891 ppm	112.4987 %	110.7737 %	110.6234 %	111.9590 %	109.8105 %	110.6952 %
Concentration per Run 1	0.4911 ppm	112.8811 %	111.1417 %	110.8712 %	112.4978 %	110.4766 %	110.7868 %
Concentration per Run 2	0.4893 ppm	112.1005 %	110.4427 %	110.7507 %	111.5146 %	109.2835 %	110.9351 %
Concentration per Run 3	0.4869 ppm	112.5146 %	110.7367 %	110.2483 %	111.8645 %	109.6713 %	110.3638 %
Recovery Percentage 1	97.820 %						
Concentration RSD	0.4 %	0.3 %	0.3 %	0.3 %	0.4 %	0.6 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:21:05 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	-0.0157 ppm	0.0014 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0084 ppm
Concentration per Run 1	0.0011 ppm	-0.0192 ppm	0.0005 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	0.0002 ppm	-0.0190 ppm	0.0048 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	0.0096 ppm
Concentration per Run 3	0.0007 ppm	-0.0090 ppm	-0.0011 ppm	0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0087 ppm
Recovery Percentage 1	9.514 %	-15.706 %	28.205 %	4.803 %	-0.209 %	2.067 %	8.448 %
Concentration RSD	66.2 %	37.1 %	216.5 %	47.4 %	266.5 %	56.8 %	15.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0228 ppm	-0.0017 ppm
Concentration per Run 1	-0.0002 ppm	0.0006 ppm	0.0001 ppm	-0.0003 ppm	0.0015 ppm	0.0198 ppm	-0.0024 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0259 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0002 ppm	0.0030 ppm	0.0226 ppm	-0.0011 ppm
Recovery Percentage 1	-1.605 %	2.541 %	0.901 %	-1.413 %	3.030 %	0.911 %	-34.261 %
Concentration RSD	94.7 %	60.0 %	368.0 %	225.4 %	101.9 %	13.3 %	39.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0022 ppm
Concentration per Run 1	0.0029 ppm	0.0000 ppm	0.0016 ppm	0.0027 ppm	-0.0002 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 2	0.0024 ppm	-0.0001 ppm	0.0002 ppm	-0.0062 ppm	0.0012 ppm	0.0018 ppm	0.0011 ppm
Concentration per Run 3	-0.0015 ppm	0.0001 ppm	0.0003 ppm	0.0038 ppm	-0.0003 ppm	0.0013 ppm	0.0051 ppm
Recovery Percentage 1	1.270 %	-0.245 %	1.418 %	0.004 %	0.962 %	15.592 %	4.380 %
Concentration RSD	187.8 %	468.9 %	111.2 %	7,009.1 %	332.9 %	16.2 %	115.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	-0.0011 ppm	-0.0011 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0035 ppm	0.0000 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm	0.0002 ppm
Concentration per Run 2	0.0033 ppm	-0.0013 ppm	-0.0015 ppm	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0042 ppm	-0.0020 ppm	-0.0011 ppm	0.0003 ppm	-0.0010 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	36.451 %	-0.226 %	-2.245 %	1.262 %	-4.305 %	4.408 %	1.843 %
Concentration RSD	13.4 %	88.2 %	34.1 %	89.1 %	121.2 %	234.7 %	43.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	111.8834 %	109.5675 %	111.6885 %	112.8469 %	109.2017 %	112.3817 %
Concentration per Run 1	-0.0002 ppm	111.1704 %	109.4560 %	111.7682 %	111.7992 %	109.1305 %	112.1940 %
Concentration per Run 2	-0.0001 ppm	111.6197 %	110.1686 %	112.2448 %	112.7054 %	109.7723 %	112.8660 %
Concentration per Run 3	0.0000 ppm	112.8601 %	109.0779 %	111.0524 %	114.0361 %	108.7021 %	112.0850 %
Recovery Percentage 1	-2.364 %						
Concentration RSD	119.0 %	0.8 %	0.5 %	0.5 %	1.0 %	0.5 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454280-01 WG1975733
Analysis started at: 9/26/2024 7:25:00 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0154 ppm	0.0007 ppm	0.0078 ppm	0.0587 ppm	0.0001 ppm	46.7822 ppm
Concentration per Run 1	0.0008 ppm	0.0239 ppm	0.0023 ppm	0.0073 ppm	0.0591 ppm	0.0001 ppm	47.1735 ppm
Concentration per Run 2	0.0005 ppm	0.0100 ppm	-0.0024 ppm	0.0085 ppm	0.0589 ppm	0.0001 ppm	47.0250 ppm
Concentration per Run 3	0.0002 ppm	0.0124 ppm	0.0022 ppm	0.0077 ppm	0.0582 ppm	0.0000 ppm	46.1481 ppm
Concentration RSD	55.2 %	48.1 %	367.2 %	7.6 %	0.8 %	50.1 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0023 ppm	0.0005 ppm	0.0066 ppm	0.0124 ppm	0.8846 ppm	-0.0008 ppm
Concentration per Run 1	0.0004 ppm	0.0017 ppm	0.0004 ppm	0.0066 ppm	0.0137 ppm	0.9040 ppm	-0.0008 ppm
Concentration per Run 2	0.0005 ppm	0.0027 ppm	0.0007 ppm	0.0065 ppm	0.0119 ppm	0.8866 ppm	-0.0013 ppm
Concentration per Run 3	0.0004 ppm	0.0024 ppm	0.0005 ppm	0.0068 ppm	0.0116 ppm	0.8630 ppm	-0.0003 ppm
Concentration RSD	15.8 %	24.0 %	33.0 %	2.1 %	9.0 %	2.3 %	66.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0814 ppm	0.2123 ppm	0.0007 ppm	120.5498 ppm	0.0021 ppm	0.1134 ppm	0.0045 ppm
Concentration per Run 1	1.0723 ppm	0.2132 ppm	0.0008 ppm	121.0511 ppm	0.0024 ppm	0.1130 ppm	0.0017 ppm
Concentration per Run 2	1.0815 ppm	0.2132 ppm	0.0003 ppm	121.3954 ppm	0.0016 ppm	0.1137 ppm	0.0067 ppm
Concentration per Run 3	1.0905 ppm	0.2104 ppm	0.0009 ppm	119.2029 ppm	0.0022 ppm	0.1136 ppm	0.0052 ppm
Concentration RSD	0.8 %	0.8 %	45.0 %	1.0 %	18.5 %	0.3 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	1.6680 ppm	-0.0010 ppm	0.2409 ppm	-0.0005 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0003 ppm	1.6563 ppm	-0.0005 ppm	0.2422 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 2	0.0048 ppm	1.6673 ppm	-0.0010 ppm	0.2418 ppm	-0.0008 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0032 ppm	1.6802 ppm	-0.0016 ppm	0.2387 ppm	-0.0008 ppm	-0.0005 ppm	0.0003 ppm
Concentration RSD	102.0 %	0.7 %	52.9 %	0.8 %	83.7 %	449.9 %	92.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2315 ppm	109.2795 %	111.2780 %	104.2534 %	108.2319 %	110.3928 %	108.3412 %
Concentration per Run 1	0.2296 ppm	108.2360 %	110.3834 %	104.7835 %	107.5875 %	109.4003 %	108.8978 %
Concentration per Run 2	0.2319 ppm	110.5209 %	110.9762 %	103.3573 %	109.5802 %	110.4686 %	107.7237 %
Concentration per Run 3	0.2331 ppm	109.0817 %	112.4743 %	104.6194 %	107.5280 %	111.3095 %	108.4020 %
Concentration RSD	0.8 %	1.1 %	1.0 %	0.7 %	1.1 %	0.9 %	0.5 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:28:55 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4839 ppm	0.4553 ppm	0.4672 ppm	0.4694 ppm	0.4803 ppm	0.4904 ppm	0.4780 ppm
Concentration per Run 1	0.4870 ppm	0.4530 ppm	0.4652 ppm	0.4700 ppm	0.4787 ppm	0.4891 ppm	0.4769 ppm
Concentration per Run 2	0.4797 ppm	0.4602 ppm	0.4694 ppm	0.4669 ppm	0.4797 ppm	0.4886 ppm	0.4800 ppm
Concentration per Run 3	0.4851 ppm	0.4525 ppm	0.4669 ppm	0.4713 ppm	0.4825 ppm	0.4935 ppm	0.4772 ppm
Recovery Percentage 1	96.790 %	91.052 %	93.436 %	93.878 %	96.060 %	98.077 %	95.608 %
Concentration RSD	0.8 %	0.9 %	0.4 %	0.5 %	0.4 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4851 ppm	0.4933 ppm	0.4749 ppm	0.4726 ppm	0.4812 ppm	4.9447 ppm	0.4620 ppm
Concentration per Run 1	0.4916 ppm	0.4948 ppm	0.4766 ppm	0.4752 ppm	0.4844 ppm	4.9093 ppm	0.4588 ppm
Concentration per Run 2	0.4835 ppm	0.4943 ppm	0.4724 ppm	0.4700 ppm	0.4786 ppm	4.9529 ppm	0.4603 ppm
Concentration per Run 3	0.4801 ppm	0.4906 ppm	0.4757 ppm	0.4727 ppm	0.4805 ppm	4.9719 ppm	0.4669 ppm
Recovery Percentage 1	97.011 %	98.654 %	94.974 %	94.522 %	96.231 %	98.894 %	92.399 %
Concentration RSD	1.2 %	0.5 %	0.5 %	0.5 %	0.6 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4716 ppm	0.4704 ppm	0.4715 ppm	9.4564 ppm	0.4863 ppm	0.4869 ppm	0.4923 ppm
Concentration per Run 1	0.4732 ppm	0.4697 ppm	0.4694 ppm	9.4067 ppm	0.4888 ppm	0.4848 ppm	0.4968 ppm
Concentration per Run 2	0.4668 ppm	0.4703 ppm	0.4724 ppm	9.5084 ppm	0.4828 ppm	0.4856 ppm	0.4914 ppm
Concentration per Run 3	0.4748 ppm	0.4712 ppm	0.4728 ppm	9.4541 ppm	0.4872 ppm	0.4903 ppm	0.4888 ppm
Recovery Percentage 1	94.318 %	94.086 %	94.308 %	94.564 %	97.257 %	97.384 %	98.465 %
Concentration RSD	0.9 %	0.2 %	0.4 %	0.5 %	0.6 %	0.6 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4794 ppm	5.2020 ppm	0.4638 ppm	0.4575 ppm	0.4810 ppm	0.4800 ppm	0.4729 ppm
Concentration per Run 1	0.4765 ppm	5.2387 ppm	0.4632 ppm	0.4560 ppm	0.4823 ppm	0.4774 ppm	0.4740 ppm
Concentration per Run 2	0.4817 ppm	5.1724 ppm	0.4656 ppm	0.4565 ppm	0.4791 ppm	0.4789 ppm	0.4724 ppm
Concentration per Run 3	0.4799 ppm	5.1948 ppm	0.4627 ppm	0.4599 ppm	0.4816 ppm	0.4835 ppm	0.4724 ppm
Recovery Percentage 1	95.877 %	99.085 %	92.769 %	91.496 %	96.194 %	95.990 %	94.586 %
Concentration RSD	0.6 %	0.6 %	0.3 %	0.5 %	0.4 %	0.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4885 ppm	113.1876 %	111.7791 %	111.2328 %	112.3880 %	110.4183 %	111.1948 %
Concentration per Run 1	0.4907 ppm	112.6661 %	113.0111 %	111.7864 %	111.6561 %	111.9377 %	111.5260 %
Concentration per Run 2	0.4877 ppm	113.4378 %	110.5514 %	111.3152 %	112.9380 %	109.1439 %	111.0557 %
Concentration per Run 3	0.4872 ppm	113.4588 %	111.7747 %	110.5967 %	112.5698 %	110.1733 %	111.0027 %
Recovery Percentage 1	97.704 %						
Concentration RSD	0.4 %	0.4 %	1.1 %	0.5 %	0.6 %	1.3 %	0.3 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:32:50 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0080 ppm	0.0005 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 1	0.0005 ppm	-0.0074 ppm	0.0008 ppm	0.0027 ppm	-0.0002 ppm	0.0001 ppm	0.0065 ppm
Concentration per Run 2	0.0007 ppm	-0.0052 ppm	-0.0026 ppm	0.0025 ppm	0.0001 ppm	0.0001 ppm	0.0056 ppm
Concentration per Run 3	0.0002 ppm	-0.0115 ppm	0.0031 ppm	0.0030 ppm	0.0002 ppm	0.0000 ppm	0.0037 ppm
Recovery Percentage 1	6.903 %	-8.041 %	9.091 %	9.141 %	0.361 %	1.096 %	5.285 %
Concentration RSD	51.9 %	40.0 %	634.7 %	9.3 %	477.4 %	42.1 %	27.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0431 ppm	-0.0019 ppm
Concentration per Run 1	0.0001 ppm	0.0010 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm	0.0333 ppm	-0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0347 ppm	-0.0035 ppm
Concentration per Run 3	0.0002 ppm	0.0008 ppm	-0.0002 ppm	-0.0001 ppm	-0.0024 ppm	0.0614 ppm	-0.0013 ppm
Recovery Percentage 1	1.093 %	3.275 %	0.322 %	-0.622 %	-1.761 %	1.725 %	-38.932 %
Concentration RSD	303.5 %	67.8 %	862.0 %	376.2 %	153.7 %	36.7 %	67.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0001 ppm	0.0010 ppm	0.0063 ppm	-0.0005 ppm	0.0011 ppm	0.0065 ppm
Concentration per Run 1	0.0019 ppm	0.0001 ppm	0.0010 ppm	0.0110 ppm	-0.0010 ppm	0.0016 ppm	0.0068 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.0012 ppm	0.0002 ppm	-0.0001 ppm	0.0015 ppm	0.0105 ppm
Concentration per Run 3	0.0014 ppm	0.0002 ppm	0.0010 ppm	0.0079 ppm	-0.0004 ppm	0.0003 ppm	0.0023 ppm
Recovery Percentage 1	1.250 %	0.513 %	2.061 %	0.317 %	-1.976 %	11.138 %	13.069 %
Concentration RSD	62.9 %	271.3 %	12.8 %	87.7 %	85.1 %	63.2 %	62.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	-0.0004 ppm	-0.0015 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0017 ppm	-0.0024 ppm	-0.0011 ppm	0.0002 ppm	-0.0004 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 2	0.0034 ppm	0.0014 ppm	-0.0015 ppm	0.0002 ppm	-0.0003 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0052 ppm	-0.0002 ppm	-0.0018 ppm	0.0002 ppm	-0.0005 ppm	0.0007 ppm	0.0004 ppm
Recovery Percentage 1	34.154 %	-0.079 %	-2.966 %	1.768 %	-3.907 %	2.686 %	2.224 %
Concentration RSD	51.1 %	480.6 %	24.1 %	4.8 %	33.2 %	250.8 %	80.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	111.5279 %	109.6089 %	110.7819 %	112.8697 %	109.3668 %	111.3458 %
Concentration per Run 1	0.0002 ppm	111.9862 %	109.6514 %	110.9860 %	113.2474 %	109.2061 %	111.6495 %
Concentration per Run 2	-0.0002 ppm	111.7419 %	109.3955 %	110.5423 %	113.5464 %	109.2405 %	111.1046 %
Concentration per Run 3	-0.0002 ppm	110.8556 %	109.7797 %	110.8173 %	111.8152 %	109.6538 %	111.2832 %
Recovery Percentage 1	-1.157 %						
Concentration RSD	363.1 %	0.5 %	0.2 %	0.2 %	0.8 %	0.2 %	0.2 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:36:45 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4831 ppm	0.4549 ppm	0.4613 ppm	0.4677 ppm	0.4790 ppm	0.4925 ppm	0.4768 ppm
Concentration per Run 1	0.4816 ppm	0.4554 ppm	0.4618 ppm	0.4677 ppm	0.4737 ppm	0.4895 ppm	0.4698 ppm
Concentration per Run 2	0.4840 ppm	0.4321 ppm	0.4616 ppm	0.4693 ppm	0.4570 ppm	0.4676 ppm	0.4557 ppm
Concentration per Run 3	0.4838 ppm	0.4772 ppm	0.4604 ppm	0.4661 ppm	0.5063 ppm	0.5205 ppm	0.5050 ppm
Recovery Percentage 1	96.620 %	90.974 %	92.255 %	93.540 %	95.804 %	98.503 %	95.361 %
Concentration RSD	0.3 %	5.0 %	0.2 %	0.3 %	5.2 %	5.4 %	5.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4860 ppm	0.4951 ppm	0.4742 ppm	0.4740 ppm	0.4824 ppm	4.9837 ppm	0.4629 ppm
Concentration per Run 1	0.4900 ppm	0.4982 ppm	0.4743 ppm	0.4747 ppm	0.4782 ppm	4.9896 ppm	0.4611 ppm
Concentration per Run 2	0.4864 ppm	0.4951 ppm	0.4729 ppm	0.4738 ppm	0.4589 ppm	4.7316 ppm	0.4379 ppm
Concentration per Run 3	0.4817 ppm	0.4920 ppm	0.4753 ppm	0.4736 ppm	0.5100 ppm	5.2298 ppm	0.4898 ppm
Recovery Percentage 1	97.207 %	99.022 %	94.838 %	94.808 %	96.471 %	99.673 %	92.587 %
Concentration RSD	0.9 %	0.6 %	0.3 %	0.1 %	5.3 %	5.0 %	5.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4702 ppm	0.4726 ppm	0.4733 ppm	9.5070 ppm	0.4887 ppm	0.4844 ppm	0.4916 ppm
Concentration per Run 1	0.4728 ppm	0.4707 ppm	0.4748 ppm	9.4286 ppm	0.4912 ppm	0.4827 ppm	0.4946 ppm
Concentration per Run 2	0.4687 ppm	0.4491 ppm	0.4737 ppm	9.0606 ppm	0.4862 ppm	0.4831 ppm	0.4860 ppm
Concentration per Run 3	0.4692 ppm	0.4979 ppm	0.4713 ppm	10.0319 ppm	0.4886 ppm	0.4873 ppm	0.4940 ppm
Recovery Percentage 1	94.049 %	94.513 %	94.651 %	95.070 %	97.731 %	96.873 %	98.312 %
Concentration RSD	0.5 %	5.2 %	0.4 %	5.2 %	0.5 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4787 ppm	5.1991 ppm	0.4647 ppm	0.4581 ppm	0.4793 ppm	0.4791 ppm	0.4720 ppm
Concentration per Run 1	0.4791 ppm	5.2255 ppm	0.4672 ppm	0.4551 ppm	0.4785 ppm	0.4798 ppm	0.4727 ppm
Concentration per Run 2	0.4788 ppm	5.1869 ppm	0.4625 ppm	0.4352 ppm	0.4792 ppm	0.4788 ppm	0.4723 ppm
Concentration per Run 3	0.4782 ppm	5.1848 ppm	0.4645 ppm	0.4838 ppm	0.4801 ppm	0.4786 ppm	0.4712 ppm
Recovery Percentage 1	95.740 %	99.030 %	92.946 %	91.612 %	95.850 %	95.814 %	94.409 %
Concentration RSD	0.1 %	0.4 %	0.5 %	5.3 %	0.2 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4876 ppm	113.8690 %	110.4016 %	111.3646 %	113.2190 %	109.4314 %	111.0708 %
Concentration per Run 1	0.4908 ppm	113.7300 %	110.9481 %	111.8497 %	113.3330 %	110.4754 %	111.1987 %
Concentration per Run 2	0.4860 ppm	113.5131 %	115.5723 %	110.8009 %	112.6970 %	114.3018 %	110.6265 %
Concentration per Run 3	0.4861 ppm	114.3638 %	104.6845 %	111.4433 %	113.6269 %	103.5169 %	111.3874 %
Recovery Percentage 1	97.527 %						
Concentration RSD	0.6 %	0.4 %	4.9 %	0.5 %	0.4 %	5.0 %	0.4 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:40:40 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0039 ppm	0.0006 ppm	0.0024 ppm	-0.0002 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 1	0.0007 ppm	-0.0090 ppm	0.0010 ppm	0.0042 ppm	-0.0001 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0005 ppm	0.0000 ppm	-0.0016 ppm	0.0008 ppm	-0.0003 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 3	0.0002 ppm	-0.0026 ppm	0.0022 ppm	0.0023 ppm	-0.0003 ppm	0.0001 ppm	0.0007 ppm
Recovery Percentage 1	6.460 %	-3.868 %	11.416 %	8.121 %	-2.270 %	1.655 %	2.880 %
Concentration RSD	44.6 %	119.9 %	339.3 %	70.7 %	58.0 %	10.7 %	70.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0362 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0004 ppm	0.0019 ppm	0.0251 ppm	-0.0008 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0342 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0494 ppm	-0.0027 ppm
Recovery Percentage 1	-1.268 %	-0.368 %	-0.391 %	0.602 %	2.561 %	1.449 %	-31.226 %
Concentration RSD	189.0 %	424.9 %	101.6 %	511.8 %	49.7 %	34.0 %	63.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0002 ppm	0.0013 ppm	0.0015 ppm	-0.0004 ppm	0.0014 ppm	0.0065 ppm
Concentration per Run 1	0.0009 ppm	-0.0003 ppm	0.0013 ppm	0.0110 ppm	-0.0001 ppm	0.0007 ppm	0.0061 ppm
Concentration per Run 2	-0.0014 ppm	-0.0002 ppm	0.0013 ppm	-0.0024 ppm	-0.0011 ppm	0.0016 ppm	0.0050 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	0.0014 ppm	-0.0041 ppm	-0.0002 ppm	0.0018 ppm	0.0084 ppm
Recovery Percentage 1	-0.679 %	-1.535 %	2.591 %	0.075 %	-1.787 %	13.956 %	13.004 %
Concentration RSD	204.4 %	109.5 %	3.9 %	548.2 %	119.1 %	41.0 %	27.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0035 ppm	-0.0007 ppm	-0.0015 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	-0.0007 ppm	-0.0017 ppm	0.0002 ppm	-0.0005 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0049 ppm	-0.0028 ppm	-0.0020 ppm	0.0001 ppm	-0.0006 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 3	0.0042 ppm	0.0015 ppm	-0.0007 ppm	0.0000 ppm	-0.0004 ppm	-0.0008 ppm	0.0001 ppm
Recovery Percentage 1	35.074 %	-0.133 %	-2.940 %	1.062 %	-4.741 %	-0.229 %	1.263 %
Concentration RSD	52.1 %	325.1 %	46.8 %	87.1 %	21.4 %	2,614.0 %	224.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	110.8282 %	109.7731 %	110.4012 %	111.9076 %	110.1511 %	110.9173 %
Concentration per Run 1	-0.0006 ppm	110.7449 %	109.3075 %	111.1669 %	111.8798 %	109.8745 %	111.7416 %
Concentration per Run 2	-0.0003 ppm	111.3254 %	110.4821 %	109.9156 %	112.3342 %	110.5821 %	110.2560 %
Concentration per Run 3	-0.0002 ppm	110.4144 %	109.5298 %	110.1210 %	111.5089 %	109.9966 %	110.7543 %
Recovery Percentage 1	-6.924 %						
Concentration RSD	59.5 %	0.4 %	0.6 %	0.6 %	0.4 %	0.3 %	0.7 %

ICP DataTrace 9

9/26/2024 9:33:21 PM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 7:44:35 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	-0.0078 ppm	-0.0002 ppm	0.0029 ppm	-0.0004 ppm	0.0000 ppm	-0.0028 ppm
Concentration per Run 1	0.0012 ppm	-0.0054 ppm	0.0002 ppm	0.0034 ppm	-0.0004 ppm	0.0000 ppm	-0.0038 ppm
Concentration per Run 2	0.0012 ppm	-0.0107 ppm	-0.0002 ppm	0.0022 ppm	-0.0003 ppm	0.0001 ppm	-0.0030 ppm
Concentration per Run 3	0.0013 ppm	-0.0074 ppm	-0.0005 ppm	0.0033 ppm	-0.0004 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	25.115 %	-7.805 %	-4.027 %	9.765 %	-3.580 %	0.878 %	-2.786 %
Concentration RSD	4.6 %	34.3 %	173.8 %	23.0 %	10.2 %	24.1 %	39.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0009 ppm	-0.0029 ppm	-0.0027 ppm	0.0819 ppm	-0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0010 ppm	-0.0029 ppm	-0.0029 ppm	0.0843 ppm	-0.0026 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0008 ppm	-0.0030 ppm	-0.0025 ppm	0.0760 ppm	-0.0026 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0010 ppm	-0.0029 ppm	-0.0027 ppm	0.0853 ppm	-0.0025 ppm
Recovery Percentage 1	-1.090 %	-1.524 %	9.248 %	-29.343 %	-5.472 %	3.275 %	-25.572 %
Concentration RSD	73.6 %	29.7 %	8.2 %	2.1 %	7.6 %	6.2 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0002 ppm	0.0000 ppm	-0.0009 ppm	-0.0014 ppm	0.0015 ppm	0.0035 ppm
Concentration per Run 1	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm	0.0017 ppm	0.0043 ppm
Concentration per Run 2	0.0018 ppm	0.0002 ppm	0.0000 ppm	-0.0007 ppm	-0.0015 ppm	0.0013 ppm	0.0023 ppm
Concentration per Run 3	0.0007 ppm	0.0002 ppm	0.0000 ppm	-0.0019 ppm	-0.0014 ppm	0.0015 ppm	0.0040 ppm
Recovery Percentage 1	1.343 %	2.103 %	0.046 %	-0.044 %	-7.085 %	15.018 %	7.062 %
Concentration RSD	41.6 %	21.4 %	87.2 %	109.6 %	6.3 %	11.5 %	30.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	0.0006 ppm	-0.0029 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0045 ppm	0.0084 ppm	-0.0029 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0049 ppm	0.0003 ppm	-0.0028 ppm	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 3	0.0045 ppm	-0.0067 ppm	-0.0030 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0004 ppm
Recovery Percentage 1	46.232 %	0.126 %	-5.754 %	0.468 %	0.391 %	-1.979 %	4.834 %
Concentration RSD	5.2 %	1,203.8 %	4.0 %	64.3 %	49.6 %	53.9 %	7.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	447.9541 %	409.2587 %	481.3704 %	496.8381 %	425.8994 %	553.6416 %
Concentration per Run 1	-0.0002 ppm	451.5027 %	402.9554 %	448.0448 %	461.3684 %	430.5049 %	538.1721 %
Concentration per Run 2	-0.0002 ppm	457.7577 %	407.6451 %	466.9002 %	479.9192 %	424.6128 %	544.2879 %
Concentration per Run 3	-0.0002 ppm	434.6018 %	417.1758 %	529.1663 %	549.2268 %	422.5806 %	578.4649 %
Recovery Percentage 1	-4.125 %						
Concentration RSD	7.9 %	2.7 %	1.8 %	8.8 %	9.3 %	1.0 %	3.9 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: Blank DHL Trace5
Analysis started at: 9/26/2024 11:27:19 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	-1.1 %	0.0 %	0.2 %	0.5 %	-1.7 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.0 %	0.4 %	0.0 %	-0.1 %	0.1 %	0.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	9.6 %	3.1 %	-0.1 %	-0.1 %	-0.1 %	-0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	-0.5 %	0.0 %	-0.1 %	-0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	-1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: ICAL
Analysis started at: 9/26/2024 11:33:37 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9986 ppm	25.4358 ppm	0.9988 ppm	0.9996 ppm	1.0194 ppm	1.0166 ppm	10.1997 ppm
Concentration per Run 2	0.9993 ppm	24.8223 ppm	0.9978 ppm	0.9989 ppm	0.9927 ppm	0.9945 ppm	9.9327 ppm
Concentration per Run 3	1.0021 ppm	24.7420 ppm	1.0034 ppm	1.0015 ppm	0.9879 ppm	0.9889 ppm	9.8676 ppm
Concentration RSD	0.2 %	1.5 %	0.3 %	0.1 %	1.7 %	1.5 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0006 ppm	1.0003 ppm	0.9994 ppm	1.0011 ppm	25.3891 ppm	35.7432 ppm	1.0198 ppm
Concentration per Run 2	0.9985 ppm	0.9986 ppm	0.9964 ppm	0.9983 ppm	24.8460 ppm	34.7830 ppm	0.9919 ppm
Concentration per Run 3	1.0009 ppm	1.0011 ppm	1.0041 ppm	1.0006 ppm	24.7649 ppm	34.4738 ppm	0.9883 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %	1.4 %	1.9 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9721 ppm	1.0169 ppm	0.9895 ppm	25.2340 ppm	1.0000 ppm	0.9998 ppm	0.9997 ppm
Concentration per Run 2	9.9821 ppm	0.9931 ppm	0.9992 ppm	24.8893 ppm	0.9991 ppm	0.9989 ppm	0.9978 ppm
Concentration per Run 3	10.0459 ppm	0.9900 ppm	1.0113 ppm	24.8767 ppm	1.0010 ppm	1.0013 ppm	1.0025 ppm
Concentration RSD	0.4 %	1.5 %	1.1 %	0.8 %	0.1 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0002 ppm	10.0006 ppm	0.9995 ppm	1.0179 ppm	0.9994 ppm	0.9976 ppm	0.9988 ppm
Concentration per Run 2	0.9984 ppm	9.9883 ppm	0.9998 ppm	0.9936 ppm	0.9995 ppm	0.9980 ppm	1.0007 ppm
Concentration per Run 3	1.0014 ppm	10.0111 ppm	1.0007 ppm	0.9884 ppm	1.0011 ppm	1.0045 ppm	1.0005 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	1.6 %	0.1 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	96.1952 %	96.7326 %	96.7343 %	109.6327 %	97.9522 %	102.7025 %
Concentration per Run 1	0.9994 ppm	94.3974 %	96.9298 %	96.7719 %	108.6579 %	98.0368 %	102.9713 %
Concentration per Run 2	0.9995 ppm	96.9753 %	96.8556 %	96.8351 %	110.1653 %	98.0147 %	102.8741 %
Concentration per Run 3	1.0011 ppm	97.2130 %	96.4123 %	96.5959 %	110.0750 %	97.8051 %	102.2620 %
Concentration RSD	0.1 %	1.6 %	0.3 %	0.1 %	0.8 %	0.1 %	0.4 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: ICV
Analysis started at: 9/26/2024 11:39:38 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5252 ppm	0.5260 ppm	0.4973 ppm	0.5055 ppm	0.5100 ppm	0.5159 ppm	0.5137 ppm
Concentration per Run 1	0.5247 ppm	0.5403 ppm	0.4953 ppm	0.5053 ppm	0.5222 ppm	0.5271 ppm	0.5298 ppm
Concentration per Run 2	0.5275 ppm	0.5199 ppm	0.4991 ppm	0.5066 ppm	0.5049 ppm	0.5108 ppm	0.5056 ppm
Concentration per Run 3	0.5234 ppm	0.5178 ppm	0.4975 ppm	0.5046 ppm	0.5030 ppm	0.5097 ppm	0.5056 ppm
Recovery Percentage 1	105.036 %	105.202 %	99.460 %	101.103 %	102.000 %	103.173 %	102.735 %
Concentration RSD	0.4 %	2.4 %	0.4 %	0.2 %	2.1 %	1.9 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5039 ppm	0.5135 ppm	0.5130 ppm	0.5096 ppm	0.5326 ppm	5.4551 ppm	0.5129 ppm
Concentration per Run 1	0.5047 ppm	0.5141 ppm	0.5119 ppm	0.5101 ppm	0.5428 ppm	5.5664 ppm	0.5252 ppm
Concentration per Run 2	0.5040 ppm	0.5138 ppm	0.5150 ppm	0.5109 ppm	0.5281 ppm	5.4313 ppm	0.5069 ppm
Concentration per Run 3	0.5030 ppm	0.5127 ppm	0.5121 ppm	0.5078 ppm	0.5268 ppm	5.3675 ppm	0.5065 ppm
Recovery Percentage 1	100.784 %	102.709 %	102.601 %	101.921 %	106.515 %	109.101 %	102.571 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.3 %	1.7 %	1.9 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5214 ppm	0.5082 ppm	0.5002 ppm	10.6992 ppm	0.5134 ppm	0.5124 ppm	0.5097 ppm
Concentration per Run 1	0.5181 ppm	0.5196 ppm	0.4962 ppm	10.9546 ppm	0.5145 ppm	0.5135 ppm	0.5100 ppm
Concentration per Run 2	0.5256 ppm	0.5027 ppm	0.5014 ppm	10.5982 ppm	0.5134 ppm	0.5117 ppm	0.5120 ppm
Concentration per Run 3	0.5205 ppm	0.5022 ppm	0.5031 ppm	10.5448 ppm	0.5123 ppm	0.5121 ppm	0.5072 ppm
Recovery Percentage 1	104.279 %	101.633 %	100.050 %	106.992 %	102.685 %	102.483 %	101.942 %
Concentration RSD	0.7 %	1.9 %	0.7 %	2.1 %	0.2 %	0.2 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5086 ppm	5.5662 ppm	0.4777 ppm	0.4827 ppm	0.5195 ppm	0.5115 ppm	0.5072 ppm
Concentration per Run 1	0.5102 ppm	5.5663 ppm	0.4777 ppm	0.4937 ppm	0.5188 ppm	0.5110 ppm	0.5065 ppm
Concentration per Run 2	0.5063 ppm	5.5723 ppm	0.4789 ppm	0.4780 ppm	0.5218 ppm	0.5129 ppm	0.5092 ppm
Concentration per Run 3	0.5094 ppm	5.5601 ppm	0.4765 ppm	0.4764 ppm	0.5178 ppm	0.5107 ppm	0.5058 ppm
Recovery Percentage 1	101.729 %	106.024 %	95.541 %	96.542 %	103.898 %	102.307 %	101.435 %
Concentration RSD	0.4 %	0.1 %	0.3 %	2.0 %	0.4 %	0.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5112 ppm	96.8845 %	97.4510 %	98.7516 %	106.6641 %	100.6187 %	101.8502 %
Concentration per Run 1	0.5119 ppm	94.7740 %	97.7402 %	98.6707 %	104.3735 %	100.4809 %	102.1220 %
Concentration per Run 2	0.5113 ppm	97.4112 %	96.7769 %	98.7647 %	107.1752 %	100.6514 %	101.1006 %
Concentration per Run 3	0.5105 ppm	98.4681 %	97.8360 %	98.8194 %	108.4435 %	100.7239 %	102.3278 %
Recovery Percentage 1	102.250 %						
Concentration RSD	0.1 %	2.0 %	0.6 %	0.1 %	2.0 %	0.1 %	0.6 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: ICB
Analysis started at: 9/26/2024 11:45:41 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0110 ppm	-0.0014 ppm	0.0017 ppm	0.0002 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 1	0.0002 ppm	0.0185 ppm	0.0006 ppm	0.0017 ppm	0.0002 ppm	0.0003 ppm	-0.0020 ppm
Concentration per Run 2	0.0004 ppm	0.0049 ppm	-0.0013 ppm	0.0018 ppm	0.0002 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 3	0.0003 ppm	0.0095 ppm	-0.0036 ppm	0.0016 ppm	0.0002 ppm	0.0001 ppm	0.0012 ppm
Recovery Percentage 1	4.280 %	10.983 %	-28.285 %	5.656 %	1.881 %	4.169 %	-0.509 %
Concentration RSD	31.7 %	62.8 %	147.9 %	7.5 %	18.3 %	35.1 %	311.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0025 ppm	-0.0148 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0016 ppm	0.0154 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0017 ppm	-0.0442 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0041 ppm	-0.0156 ppm	0.0005 ppm
Recovery Percentage 1	-0.413 %	0.769 %	1.458 %	0.880 %	4.904 %	-0.592 %	5.257 %
Concentration RSD	237.2 %	30.1 %	47.2 %	298.5 %	59.5 %	201.5 %	236.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0023 ppm	0.0002 ppm	0.0027 ppm	0.0036 ppm	0.0003 ppm	-0.0010 ppm	0.0010 ppm
Concentration per Run 1	0.0028 ppm	-0.0001 ppm	0.0032 ppm	-0.0030 ppm	0.0004 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 2	0.0028 ppm	0.0002 ppm	0.0026 ppm	0.0015 ppm	0.0005 ppm	-0.0016 ppm	0.0011 ppm
Concentration per Run 3	0.0014 ppm	0.0004 ppm	0.0023 ppm	0.0123 ppm	-0.0001 ppm	-0.0007 ppm	0.0013 ppm
Recovery Percentage 1	2.305 %	1.665 %	5.369 %	0.179 %	1.026 %	-9.761 %	2.080 %
Concentration RSD	34.5 %	170.7 %	17.8 %	220.2 %	136.8 %	55.3 %	27.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.0010 ppm	0.0009 ppm	-0.0002 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0022 ppm	-0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0012 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm	0.0003 ppm
Recovery Percentage 1	0.149 %	0.046 %	0.441 %	1.448 %	1.668 %	-2.648 %	3.096 %
Concentration RSD	12,813.5 %	393.5 %	248.1 %	50.4 %	88.0 %	172.0 %	50.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	101.1677 %	98.8771 %	98.2785 %	101.2254 %	98.1764 %	99.1900 %
Concentration per Run 1	0.0001 ppm	102.2352 %	99.0646 %	98.3929 %	99.2891 %	97.9604 %	99.0995 %
Concentration per Run 2	0.0002 ppm	100.5856 %	98.9589 %	98.3685 %	101.1449 %	98.1777 %	99.2678 %
Concentration per Run 3	0.0002 ppm	100.6824 %	98.6077 %	98.0740 %	103.2421 %	98.3910 %	99.2027 %
Recovery Percentage 1	3.269 %						
Concentration RSD	27.0 %	0.9 %	0.2 %	0.2 %	2.0 %	0.2 %	0.1 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: ICV
Analysis started at: 9/26/2024 11:52:00 AM
Comments position changed
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5256 ppm	0.5191 ppm	0.5062 ppm	0.5079 ppm	0.5093 ppm	0.5208 ppm	0.5225 ppm
Concentration per Run 1	0.5266 ppm	0.5090 ppm	0.5061 ppm	0.5077 ppm	0.4889 ppm	0.4990 ppm	0.4993 ppm
Concentration per Run 2	0.5246 ppm	0.5254 ppm	0.5074 ppm	0.5090 ppm	0.5187 ppm	0.5305 ppm	0.5394 ppm
Concentration per Run 3	0.5256 ppm	0.5230 ppm	0.5052 ppm	0.5069 ppm	0.5204 ppm	0.5329 ppm	0.5289 ppm
Recovery Percentage 1	105.115 %	103.830 %	101.249 %	101.573 %	101.863 %	104.155 %	104.505 %
Concentration RSD	0.2 %	1.7 %	0.2 %	0.2 %	3.5 %	3.6 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5140 ppm	0.5258 ppm	0.5181 ppm	0.5143 ppm	0.5244 ppm	5.3999 ppm	0.5119 ppm
Concentration per Run 1	0.5140 ppm	0.5261 ppm	0.5183 ppm	0.5147 ppm	0.5022 ppm	5.1670 ppm	0.4921 ppm
Concentration per Run 2	0.5152 ppm	0.5267 ppm	0.5169 ppm	0.5140 ppm	0.5329 ppm	5.5150 ppm	0.5210 ppm
Concentration per Run 3	0.5129 ppm	0.5246 ppm	0.5192 ppm	0.5143 ppm	0.5379 ppm	5.5176 ppm	0.5226 ppm
Recovery Percentage 1	102.807 %	105.160 %	103.626 %	102.861 %	104.873 %	107.997 %	102.376 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.1 %	3.7 %	3.7 %	3.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5242 ppm	0.5126 ppm	0.5138 ppm	10.7971 ppm	0.5250 ppm	0.5228 ppm	0.5206 ppm
Concentration per Run 1	0.5210 ppm	0.4912 ppm	0.5096 ppm	10.5430 ppm	0.5254 ppm	0.5238 ppm	0.5202 ppm
Concentration per Run 2	0.5251 ppm	0.5235 ppm	0.5152 ppm	10.9552 ppm	0.5255 ppm	0.5231 ppm	0.5218 ppm
Concentration per Run 3	0.5265 ppm	0.5230 ppm	0.5167 ppm	10.8931 ppm	0.5242 ppm	0.5216 ppm	0.5199 ppm
Recovery Percentage 1	104.844 %	102.511 %	102.766 %	107.971 %	105.006 %	104.566 %	104.129 %
Concentration RSD	0.5 %	3.6 %	0.7 %	2.1 %	0.1 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5129 ppm	5.7006 ppm	0.4986 ppm	0.4966 ppm	0.5244 ppm	0.5190 ppm	0.5123 ppm
Concentration per Run 1	0.5129 ppm	5.7024 ppm	0.4996 ppm	0.4765 ppm	0.5246 ppm	0.5200 ppm	0.5111 ppm
Concentration per Run 2	0.5146 ppm	5.7076 ppm	0.4992 ppm	0.5053 ppm	0.5236 ppm	0.5207 ppm	0.5130 ppm
Concentration per Run 3	0.5113 ppm	5.6917 ppm	0.4969 ppm	0.5080 ppm	0.5251 ppm	0.5165 ppm	0.5129 ppm
Recovery Percentage 1	102.585 %	108.582 %	99.714 %	99.322 %	104.883 %	103.810 %	102.460 %
Concentration RSD	0.3 %	0.1 %	0.3 %	3.5 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5210 ppm	96.2398 %	97.0617 %	97.1104 %	105.7492 %	98.8990 %	101.5961 %
Concentration per Run 1	0.5214 ppm	99.7090 %	97.3636 %	97.2668 %	107.8620 %	98.8856 %	101.8191 %
Concentration per Run 2	0.5216 ppm	94.4456 %	97.0034 %	97.2081 %	104.2232 %	98.9118 %	101.6052 %
Concentration per Run 3	0.5198 ppm	94.5650 %	96.8181 %	96.8562 %	105.1626 %	98.8996 %	101.3642 %
Recovery Percentage 1	104.192 %						
Concentration RSD	0.2 %	3.1 %	0.3 %	0.2 %	1.8 %	0.0 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: ICB
Analysis started at: 9/26/2024 11:58:05 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	-0.0114 ppm	-0.0007 ppm	0.0013 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0006 ppm	-0.0190 ppm	-0.0015 ppm	0.0016 ppm	0.0002 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 2	0.0008 ppm	-0.0093 ppm	-0.0016 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 3	0.0004 ppm	-0.0060 ppm	0.0011 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	-0.0066 ppm
Recovery Percentage 1	8.570 %	-11.429 %	-13.005 %	4.170 %	0.593 %	1.904 %	-0.286 %
Concentration RSD	30.5 %	59.1 %	231.6 %	27.0 %	254.3 %	48.8 %	1,969.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0013 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0213 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0004 ppm	-0.0054 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0005 ppm	-0.0121 ppm	-0.0003 ppm
Recovery Percentage 1	-0.089 %	0.580 %	0.843 %	3.082 %	-0.063 %	0.051 %	2.973 %
Concentration RSD	1,015.1 %	178.4 %	281.0 %	118.1 %	1,491.3 %	1,384.3 %	459.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0021 ppm	-0.0145 ppm	0.0001 ppm	-0.0006 ppm	0.0011 ppm
Concentration per Run 1	0.0027 ppm	0.0002 ppm	0.0025 ppm	-0.0334 ppm	0.0001 ppm	-0.0008 ppm	0.0012 ppm
Concentration per Run 2	-0.0006 ppm	0.0000 ppm	0.0019 ppm	-0.0003 ppm	-0.0002 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 3	-0.0016 ppm	-0.0005 ppm	0.0019 ppm	-0.0099 ppm	0.0003 ppm	-0.0003 ppm	0.0010 ppm
Recovery Percentage 1	0.136 %	-1.278 %	4.231 %	-0.727 %	0.328 %	-5.979 %	2.173 %
Concentration RSD	1,642.3 %	281.4 %	16.4 %	117.3 %	320.2 %	47.2 %	11.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 2	-0.0019 ppm	0.0007 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	0.0003 ppm	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0021 ppm	-0.0004 ppm
Recovery Percentage 1	-6.081 %	0.095 %	-0.232 %	0.010 %	3.667 %	2.350 %	0.836 %
Concentration RSD	221.7 %	46.7 %	97.0 %	8,852.6 %	75.4 %	311.8 %	576.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	97.6489 %	98.5960 %	97.8207 %	98.0277 %	98.3092 %	98.9808 %
Concentration per Run 1	0.0001 ppm	97.1545 %	98.7580 %	98.2441 %	95.4617 %	98.5298 %	98.8771 %
Concentration per Run 2	0.0001 ppm	98.3061 %	98.7564 %	97.6853 %	98.4991 %	98.0561 %	99.1622 %
Concentration per Run 3	0.0000 ppm	97.4861 %	98.2735 %	97.5326 %	100.1222 %	98.3419 %	98.9032 %
Recovery Percentage 1	0.805 %						
Concentration RSD	95.5 %	0.6 %	0.3 %	0.4 %	2.4 %	0.2 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: LLOQ RL
Analysis started at: 9/26/2024 12:04:24 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0057 ppm	0.0983 ppm	0.0036 ppm	0.0310 ppm	0.0102 ppm	0.0051 ppm	0.1045 ppm
Concentration per Run 1	0.0057 ppm	0.0939 ppm	0.0042 ppm	0.0310 ppm	0.0102 ppm	0.0051 ppm	0.1068 ppm
Concentration per Run 2	0.0055 ppm	0.1028 ppm	0.0026 ppm	0.0313 ppm	0.0102 ppm	0.0050 ppm	0.1003 ppm
Concentration per Run 3	0.0059 ppm	0.0982 ppm	0.0040 ppm	0.0308 ppm	0.0103 ppm	0.0051 ppm	0.1065 ppm
Recovery Percentage 1	114.293 %	98.301 %	71.961 %	103.428 %	102.090 %	101.118 %	104.533 %
Concentration RSD	3.6 %	4.5 %	23.3 %	0.9 %	0.4 %	0.2 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0042 ppm	0.0208 ppm	0.0103 ppm	0.0105 ppm	0.0509 ppm	2.6456 ppm	0.0103 ppm
Concentration per Run 1	0.0042 ppm	0.0209 ppm	0.0102 ppm	0.0102 ppm	0.0500 ppm	2.6547 ppm	0.0106 ppm
Concentration per Run 2	0.0042 ppm	0.0206 ppm	0.0101 ppm	0.0107 ppm	0.0517 ppm	2.6613 ppm	0.0100 ppm
Concentration per Run 3	0.0042 ppm	0.0208 ppm	0.0105 ppm	0.0106 ppm	0.0509 ppm	2.6207 ppm	0.0102 ppm
Recovery Percentage 1	104.139 %	103.850 %	102.909 %	105.179 %	101.754 %	105.823 %	102.896 %
Concentration RSD	0.1 %	0.7 %	1.9 %	2.8 %	1.7 %	0.8 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1039 ppm	0.0102 ppm	0.0527 ppm	2.1793 ppm	0.0206 ppm	0.0092 ppm	0.0534 ppm
Concentration per Run 1	0.1032 ppm	0.0100 ppm	0.0529 ppm	2.1903 ppm	0.0205 ppm	0.0091 ppm	0.0550 ppm
Concentration per Run 2	0.1040 ppm	0.0104 ppm	0.0526 ppm	2.1841 ppm	0.0211 ppm	0.0092 ppm	0.0521 ppm
Concentration per Run 3	0.1046 ppm	0.0103 ppm	0.0526 ppm	2.1637 ppm	0.0202 ppm	0.0093 ppm	0.0530 ppm
Recovery Percentage 1	103.922 %	102.368 %	105.419 %	108.967 %	103.022 %	92.224 %	106.719 %
Concentration RSD	0.7 %	2.4 %	0.3 %	0.6 %	2.0 %	1.1 %	2.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0085 ppm	0.5430 ppm	0.0495 ppm	0.0099 ppm	0.0523 ppm	0.0189 ppm	0.0104 ppm
Concentration per Run 1	0.0084 ppm	0.5458 ppm	0.0498 ppm	0.0099 ppm	0.0523 ppm	0.0190 ppm	0.0105 ppm
Concentration per Run 2	0.0095 ppm	0.5404 ppm	0.0493 ppm	0.0099 ppm	0.0525 ppm	0.0182 ppm	0.0102 ppm
Concentration per Run 3	0.0077 ppm	0.5427 ppm	0.0496 ppm	0.0098 ppm	0.0520 ppm	0.0196 ppm	0.0104 ppm
Recovery Percentage 1	85.379 %	108.592 %	99.095 %	98.759 %	104.542 %	94.633 %	103.674 %
Concentration RSD	10.5 %	0.5 %	0.5 %	0.6 %	0.4 %	3.6 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0060 ppm	98.9890 %	99.7646 %	99.4296 %	106.8483 %	101.3200 %	103.6690 %
Concentration per Run 1	0.0060 ppm	98.9741 %	99.8923 %	99.2963 %	106.2048 %	100.9432 %	103.7122 %
Concentration per Run 2	0.0060 ppm	98.8910 %	100.1174 %	99.6638 %	106.5616 %	101.9466 %	103.8968 %
Concentration per Run 3	0.0060 ppm	99.1019 %	99.2840 %	99.3289 %	107.7785 %	101.0702 %	103.3979 %
Recovery Percentage 1	119.249 %						
Concentration RSD	0.2 %	0.1 %	0.4 %	0.2 %	0.8 %	0.5 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: ICSA
Analysis started at: 9/26/2024 12:10:39 PM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0026 ppm	515.7662 ppm	-0.0085 ppm	-0.0054 ppm	0.0016 ppm	-0.0002 ppm	567.2779 ppm
Concentration per Run 1	0.0023 ppm	519.7303 ppm	-0.0111 ppm	-0.0059 ppm	0.0016 ppm	-0.0002 ppm	565.9601 ppm
Concentration per Run 2	0.0030 ppm	517.8083 ppm	-0.0075 ppm	-0.0064 ppm	0.0017 ppm	-0.0002 ppm	572.5987 ppm
Concentration per Run 3	0.0024 ppm	509.7599 ppm	-0.0069 ppm	-0.0040 ppm	0.0014 ppm	-0.0001 ppm	563.2751 ppm
Recovery Percentage 1	36.741 %	515,766.163 %	-169.983 %	-18.074 %	15.639 %	-3.139 %	567,277.943 %
Concentration RSD	15.8 %	1.0 %	26.5 %	23.5 %	10.1 %	14.4 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0032 ppm	0.0005 ppm	0.0006 ppm	-0.0091 ppm	191.4497 ppm	-0.0081 ppm	-0.0170 ppm
Concentration per Run 1	0.0032 ppm	0.0004 ppm	0.0006 ppm	-0.0090 ppm	190.8863 ppm	-0.0067 ppm	-0.0170 ppm
Concentration per Run 2	0.0032 ppm	0.0005 ppm	0.0007 ppm	-0.0091 ppm	193.5200 ppm	-0.0269 ppm	-0.0185 ppm
Concentration per Run 3	0.0031 ppm	0.0007 ppm	0.0004 ppm	-0.0091 ppm	189.9427 ppm	0.0092 ppm	-0.0153 ppm
Recovery Percentage 1	79.579 %	2.672 %	5.577 %	-90.604 %	382,899.350 %	-0.326 %	-169.679 %
Concentration RSD	1.1 %	25.1 %	27.6 %	0.9 %	1.0 %	222.3 %	9.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	488.8256 ppm	0.0003 ppm	-0.0016 ppm	0.0545 ppm	-0.0073 ppm	-0.0099 ppm	0.0080 ppm
Concentration per Run 1	487.1326 ppm	0.0005 ppm	-0.0012 ppm	0.0551 ppm	-0.0075 ppm	-0.0097 ppm	0.0079 ppm
Concentration per Run 2	485.3522 ppm	0.0001 ppm	-0.0017 ppm	0.0575 ppm	-0.0075 ppm	-0.0101 ppm	0.0069 ppm
Concentration per Run 3	493.9921 ppm	0.0003 ppm	-0.0019 ppm	0.0509 ppm	-0.0071 ppm	-0.0100 ppm	0.0091 ppm
Recovery Percentage 1	488,825.641 %	3.060 %	-3.255 %	2.725 %	-29.372 %	-99.221 %	15.904 %
Concentration RSD	0.9 %	65.2 %	22.1 %	6.1 %	3.4 %	2.0 %	13.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0017 ppm	0.0002 ppm	0.0022 ppm	0.0040 ppm	-0.0011 ppm	-0.0016 ppm	-0.0005 ppm
Concentration per Run 1	0.0017 ppm	0.0010 ppm	0.0030 ppm	0.0040 ppm	-0.0010 ppm	-0.0031 ppm	-0.0004 ppm
Concentration per Run 2	-0.0040 ppm	-0.0001 ppm	0.0020 ppm	0.0039 ppm	-0.0012 ppm	-0.0008 ppm	-0.0005 ppm
Concentration per Run 3	-0.0028 ppm	-0.0003 ppm	0.0016 ppm	0.0040 ppm	-0.0010 ppm	-0.0010 ppm	-0.0005 ppm
Recovery Percentage 1	-16.922 %	0.037 %	4.377 %	39.891 %	-10.633 %	-8.119 %	-4.512 %
Concentration RSD	177.1 %	387.5 %	34.0 %	1.4 %	9.9 %	78.2 %	10.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0008 ppm	90.2161 %	83.9302 %	84.0879 %	102.8422 %	78.2605 %	90.0565 %
Concentration per Run 1	-0.0008 ppm	89.8280 %	84.0895 %	84.0248 %	102.9677 %	78.5493 %	90.4070 %
Concentration per Run 2	-0.0007 ppm	89.8895 %	84.0600 %	83.9956 %	102.5820 %	78.0064 %	90.2121 %
Concentration per Run 3	-0.0008 ppm	90.9307 %	83.6410 %	84.2432 %	102.9769 %	78.2258 %	89.5504 %
Recovery Percentage 1	-15.237 %						
Concentration RSD	10.7 %	0.7 %	0.3 %	0.2 %	0.2 %	0.3 %	0.5 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: SIC Multi
Analysis started at: 9/26/2024 12:36:18 PM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0072 ppm	-0.0002 ppm	0.0098 ppm	0.0008 ppm	0.0045 ppm	0.0115 ppm
Concentration per Run 1	0.0011 ppm	0.0021 ppm	0.0009 ppm	0.0094 ppm	0.0008 ppm	0.0048 ppm	0.0106 ppm
Concentration per Run 2	0.0003 ppm	0.0136 ppm	-0.0011 ppm	0.0100 ppm	0.0009 ppm	0.0045 ppm	0.0121 ppm
Concentration per Run 3	0.0004 ppm	0.0057 ppm	-0.0003 ppm	0.0098 ppm	0.0006 ppm	0.0043 ppm	0.0118 ppm
Recovery Percentage 1	8.838 %	7.160 %	-3.657 %	32.505 %	7.530 %	90.113 %	11.494 %
Concentration RSD	73.5 %	82.2 %	528.1 %	3.2 %	17.9 %	5.5 %	7.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0001 ppm	20.2172 ppm	-0.0097 ppm	-0.0879 ppm	-0.0069 ppm	0.0011 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	20.2806 ppm	-0.0095 ppm	-0.0909 ppm	0.0101 ppm	-0.0003 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	20.1258 ppm	-0.0097 ppm	-0.0869 ppm	-0.0044 ppm	0.0020 ppm
Concentration per Run 3	-0.0003 ppm	0.0005 ppm	20.2451 ppm	-0.0100 ppm	-0.0859 ppm	-0.0264 ppm	0.0017 ppm
Recovery Percentage 1	-7.244 %	0.735 %	202,171.635 %	-97.323 %	-175.764 %	-0.275 %	11.329 %
Concentration RSD	7.1 %	200.5 %	0.4 %	2.6 %	3.0 %	267.5 %	107.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0020 ppm	20.6386 ppm	0.0019 ppm	0.0407 ppm	0.0003 ppm	0.0038 ppm	0.0141 ppm
Concentration per Run 1	-0.0016 ppm	20.8639 ppm	0.0018 ppm	0.0488 ppm	0.0004 ppm	0.0033 ppm	0.0114 ppm
Concentration per Run 2	-0.0022 ppm	20.5321 ppm	0.0018 ppm	0.0338 ppm	0.0005 ppm	0.0045 ppm	0.0161 ppm
Concentration per Run 3	-0.0022 ppm	20.5199 ppm	0.0020 ppm	0.0394 ppm	-0.0001 ppm	0.0036 ppm	0.0149 ppm
Recovery Percentage 1	-1.994 %	206,386.184 %	3.743 %	2.033 %	1.129 %	37.891 %	28.244 %
Concentration RSD	18.9 %	0.9 %	6.2 %	18.7 %	128.0 %	15.8 %	17.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	0.0637 ppm	-0.0008 ppm	0.0003 ppm	20.2566 ppm	0.0063 ppm	10.2333 ppm
Concentration per Run 1	0.0021 ppm	0.0635 ppm	-0.0008 ppm	0.0004 ppm	20.2974 ppm	0.0076 ppm	10.2341 ppm
Concentration per Run 2	0.0007 ppm	0.0652 ppm	-0.0007 ppm	0.0003 ppm	20.2236 ppm	0.0039 ppm	10.1851 ppm
Concentration per Run 3	0.0028 ppm	0.0623 ppm	-0.0010 ppm	0.0004 ppm	20.2490 ppm	0.0074 ppm	10.2808 ppm
Recovery Percentage 1	18.664 %	12.733 %	-1.678 %	3.476 %	202,566.444 %	31.710 %	102,333.320 %
Concentration RSD	57.7 %	2.3 %	14.8 %	5.9 %	0.2 %	32.9 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0058 ppm	97.7574 %	99.4945 %	99.7402 %	112.0551 %	101.1758 %	104.6045 %
Concentration per Run 1	-0.0057 ppm	96.3825 %	99.5631 %	99.8337 %	111.9636 %	101.3409 %	104.7165 %
Concentration per Run 2	-0.0060 ppm	98.1651 %	99.3305 %	99.7835 %	112.0332 %	101.2331 %	104.6342 %
Concentration per Run 3	-0.0058 ppm	98.7246 %	99.5900 %	99.6035 %	112.1686 %	100.9533 %	104.4628 %
Recovery Percentage 1	-116.626 %						
Concentration RSD	2.3 %	1.3 %	0.1 %	0.1 %	0.1 %	0.2 %	0.1 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR Check
Analysis started at: 9/26/2024 12:43:00 PM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	0.0974 ppm	20.9721 ppm	24.0331 ppm	19.9599 ppm	5.0729 ppm	0.0380 ppm
Concentration per Run 1	0.0033 ppm	0.0848 ppm	20.9917 ppm	24.0489 ppm	20.0786 ppm	5.0881 ppm	0.0370 ppm
Concentration per Run 2	0.0026 ppm	0.0944 ppm	20.9465 ppm	24.0206 ppm	19.9175 ppm	5.0336 ppm	0.0402 ppm
Concentration per Run 3	0.0029 ppm	0.1130 ppm	20.9782 ppm	24.0300 ppm	19.8835 ppm	5.0971 ppm	0.0368 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.861 %	120.166 %	99.799 %	101.458 %	0.000 %
Concentration RSD	11.9 %	14.7 %	0.1 %	0.1 %	0.5 %	0.7 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9307 ppm	4.9466 ppm	0.0004 ppm	20.1687 ppm	0.0139 ppm	447.1572 ppm	18.6509 ppm
Concentration per Run 1	4.9362 ppm	4.9505 ppm	0.0006 ppm	20.2120 ppm	0.0146 ppm	452.7605 ppm	18.7249 ppm
Concentration per Run 2	4.9268 ppm	4.9433 ppm	0.0003 ppm	20.2840 ppm	0.0127 ppm	445.3670 ppm	18.6106 ppm
Concentration per Run 3	4.9290 ppm	4.9462 ppm	0.0003 ppm	20.0102 ppm	0.0145 ppm	443.3442 ppm	18.6171 ppm
Recovery Percentage 1	98.613 %	98.933 %	0.000 %	100.844 %	0.000 %	89.431 %	93.254 %
Concentration RSD	0.1 %	0.1 %	37.1 %	0.7 %	7.8 %	1.1 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0371 ppm	0.0041 ppm	5.2244 ppm	439.2330 ppm	9.5604 ppm	47.4924 ppm	5.1466 ppm
Concentration per Run 1	-0.0365 ppm	0.0046 ppm	5.1946 ppm	446.9609 ppm	9.5671 ppm	47.5527 ppm	5.1465 ppm
Concentration per Run 2	-0.0366 ppm	0.0036 ppm	5.2271 ppm	439.6344 ppm	9.5566 ppm	47.4644 ppm	5.1483 ppm
Concentration per Run 3	-0.0381 ppm	0.0040 ppm	5.2514 ppm	431.1035 ppm	9.5574 ppm	47.4602 ppm	5.1451 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.488 %	87.847 %	95.604 %	94.985 %	102.932 %
Concentration RSD	2.5 %	11.9 %	0.5 %	1.8 %	0.1 %	0.1 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.8826 ppm	21.6674 ppm	9.3609 ppm	4.8821 ppm	0.0085 ppm	4.5484 ppm	-0.0021 ppm
Concentration per Run 1	4.8947 ppm	21.6892 ppm	9.3768 ppm	4.9573 ppm	0.0090 ppm	4.5490 ppm	-0.0020 ppm
Concentration per Run 2	4.8766 ppm	21.6554 ppm	9.3518 ppm	4.8540 ppm	0.0082 ppm	4.5468 ppm	-0.0023 ppm
Concentration per Run 3	4.8765 ppm	21.6576 ppm	9.3542 ppm	4.8350 ppm	0.0083 ppm	4.5495 ppm	-0.0019 ppm
Recovery Percentage 1	97.652 %	108.337 %	93.609 %	97.642 %	0.000 %	90.969 %	0.000 %
Concentration RSD	0.2 %	0.1 %	0.1 %	1.3 %	4.9 %	0.0 %	9.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	19.6777 ppm	92.3208 %	88.0146 %	79.5467 %	103.7927 %	90.8747 %	92.9140 %
Concentration per Run 1	19.7058 ppm	91.5372 %	87.8815 %	79.6944 %	102.5879 %	90.8001 %	92.7045 %
Concentration per Run 2	19.6705 ppm	93.1216 %	87.8433 %	79.4248 %	104.5467 %	90.8632 %	92.7148 %
Concentration per Run 3	19.6569 ppm	92.3037 %	88.3189 %	79.5210 %	104.2436 %	90.9608 %	93.3226 %
Recovery Percentage 1	98.389 %						
Concentration RSD	0.1 %	0.9 %	0.3 %	0.2 %	1.0 %	0.1 %	0.4 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: zLLOQ RL 0.005
Analysis started at: 9/26/2024 1:04:13 PM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0058 ppm	**0.0018 ppm**	**0.0083 ppm**	**0.0126 ppm**	0.0053 ppm	0.0052 ppm	0.0017 ppm
Concentration per Run 1	0.0059 ppm	-0.0039 ppm	0.0089 ppm	0.0130 ppm	0.0053 ppm	0.0051 ppm	-0.0087 ppm
Concentration per Run 2	0.0059 ppm	0.0055 ppm	0.0077 ppm	0.0122 ppm	0.0051 ppm	0.0052 ppm	0.0067 ppm
Concentration per Run 3	0.0057 ppm	0.0038 ppm	0.0083 ppm	0.0126 ppm	0.0055 ppm	0.0052 ppm	0.0070 ppm
Recovery Percentage 1	116.874 %	36.273 %	165.664 %	251.841 %	105.939 %	103.715 %	0.000 %
Concentration RSD	2.6 %	**277.1 %**	**7.2 %**	**3.0 %**	3.9 %	1.3 %	539.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0053 ppm	0.0055 ppm	0.0054 ppm	0.0051 ppm	0.0043 ppm	0.0897 ppm	0.0073 ppm
Concentration per Run 1	0.0053 ppm	0.0055 ppm	0.0055 ppm	0.0053 ppm	0.0039 ppm	0.0879 ppm	0.0061 ppm
Concentration per Run 2	0.0053 ppm	0.0056 ppm	0.0051 ppm	0.0051 ppm	0.0043 ppm	0.0854 ppm	0.0088 ppm
Concentration per Run 3	0.0053 ppm	0.0054 ppm	0.0055 ppm	0.0050 ppm	0.0046 ppm	0.0957 ppm	0.0069 ppm
Recovery Percentage 1	106.099 %	109.840 %	107.138 %	102.252 %	85.664 %	0.000 %	0.000 %
Concentration RSD	0.5 %	2.0 %	4.2 %	3.4 %	8.6 %	6.0 %	19.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0069 ppm	0.0053 ppm	**0.0063 ppm**	0.1495 ppm	0.0055 ppm	0.0054 ppm	**0.0081 ppm**
Concentration per Run 1	0.0062 ppm	0.0050 ppm	0.0063 ppm	0.1542 ppm	0.0055 ppm	0.0049 ppm	0.0069 ppm
Concentration per Run 2	0.0078 ppm	0.0054 ppm	0.0063 ppm	0.1488 ppm	0.0055 ppm	0.0056 ppm	0.0089 ppm
Concentration per Run 3	0.0068 ppm	0.0056 ppm	0.0063 ppm	0.1456 ppm	0.0055 ppm	0.0055 ppm	0.0084 ppm
Recovery Percentage 1	0.000 %	106.268 %	126.165 %	0.000 %	110.215 %	107.319 %	161.183 %
Concentration RSD	11.5 %	5.9 %	**0.6 %**	2.9 %	0.6 %	7.2 %	**12.9 %**

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0052 ppm	**0.0598 ppm**	0.0054 ppm	0.0049 ppm	0.0053 ppm	0.0040 ppm	0.0055 ppm
Concentration per Run 1	0.0068 ppm	0.0594 ppm	0.0053 ppm	0.0049 ppm	0.0055 ppm	0.0028 ppm	0.0054 ppm
Concentration per Run 2	0.0019 ppm	0.0596 ppm	0.0051 ppm	0.0048 ppm	0.0052 ppm	0.0041 ppm	0.0057 ppm
Concentration per Run 3	0.0067 ppm	0.0604 ppm	0.0056 ppm	0.0049 ppm	0.0052 ppm	0.0051 ppm	0.0054 ppm
Recovery Percentage 1	103.212 %	1,195.639 %	107.070 %	97.064 %	105.760 %	80.469 %	109.727 %
Concentration RSD	53.9 %	**0.8 %**	4.4 %	0.9 %	3.9 %	29.2 %	4.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0056 ppm	98.2431 %	100.0850 %	99.9177 %	102.4709 %	100.4379 %	101.7234 %
Concentration per Run 1	0.0056 ppm	97.6744 %	99.8859 %	100.0823 %	100.5573 %	100.4575 %	101.3303 %
Concentration per Run 2	0.0056 ppm	98.5438 %	100.5647 %	99.8056 %	103.1324 %	100.2856 %	102.0952 %
Concentration per Run 3	0.0055 ppm	98.5112 %	99.8045 %	99.8652 %	103.7228 %	100.5706 %	101.7449 %
Recovery Percentage 1	111.334 %						
Concentration RSD	0.4 %	0.5 %	0.4 %	0.1 %	1.6 %	0.1 %	0.4 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: LLOQ RL 0.01
Analysis started at: 9/26/2024 1:10:29 PM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0112 ppm	0.0063 ppm	0.0099 ppm	0.0149 ppm	0.0106 ppm	0.0105 ppm	0.0118 ppm
Concentration per Run 1	0.0111 ppm	0.0039 ppm	0.0104 ppm	0.0154 ppm	0.0110 ppm	0.0104 ppm	0.0104 ppm
Concentration per Run 2	0.0110 ppm	0.0094 ppm	0.0099 ppm	0.0147 ppm	0.0105 ppm	0.0104 ppm	0.0116 ppm
Concentration per Run 3	0.0115 ppm	0.0055 ppm	0.0094 ppm	0.0145 ppm	0.0104 ppm	0.0106 ppm	0.0133 ppm
Recovery Percentage 1	0.000 %	0.000 %	99.144 %	149.030 %	106.175 %	0.000 %	0.000 %
Concentration RSD	2.5 %	44.8 %	5.1 %	3.2 %	2.9 %	1.1 %	12.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0106 ppm	0.0108 ppm	0.0108 ppm	0.0102 ppm	0.0097 ppm	0.1379 ppm	0.0117 ppm
Concentration per Run 1	0.0106 ppm	0.0109 ppm	0.0110 ppm	0.0102 ppm	0.0090 ppm	0.0990 ppm	0.0129 ppm
Concentration per Run 2	0.0106 ppm	0.0108 ppm	0.0107 ppm	0.0103 ppm	0.0100 ppm	0.1456 ppm	0.0124 ppm
Concentration per Run 3	0.0106 ppm	0.0107 ppm	0.0106 ppm	0.0101 ppm	0.0100 ppm	0.1690 ppm	0.0098 ppm
Recovery Percentage 1	0.000 %	107.711 %	107.751 %	101.758 %	0.000 %	0.000 %	117.008 %
Concentration RSD	0.4 %	1.0 %	2.0 %	0.9 %	5.8 %	25.8 %	14.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0123 ppm	0.0104 ppm	0.0111 ppm	0.2399 ppm	0.0109 ppm	0.0097 ppm	0.0126 ppm
Concentration per Run 1	0.0109 ppm	0.0105 ppm	0.0112 ppm	0.2438 ppm	0.0109 ppm	0.0101 ppm	0.0112 ppm
Concentration per Run 2	0.0129 ppm	0.0104 ppm	0.0109 ppm	0.2334 ppm	0.0109 ppm	0.0101 ppm	0.0148 ppm
Concentration per Run 3	0.0130 ppm	0.0102 ppm	0.0112 ppm	0.2425 ppm	0.0109 ppm	0.0090 ppm	0.0119 ppm
Recovery Percentage 1	0.000 %	103.644 %	111.070 %	0.000 %	108.660 %	97.112 %	0.000 %
Concentration RSD	10.0 %	1.1 %	1.7 %	2.4 %	0.1 %	6.6 %	15.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0099 ppm	0.1176 ppm	0.0102 ppm	0.0099 ppm	0.0107 ppm	0.0095 ppm	0.0109 ppm
Concentration per Run 1	0.0105 ppm	0.1179 ppm	0.0107 ppm	0.0099 ppm	0.0107 ppm	0.0090 ppm	0.0106 ppm
Concentration per Run 2	0.0085 ppm	0.1174 ppm	0.0098 ppm	0.0100 ppm	0.0107 ppm	0.0101 ppm	0.0110 ppm
Concentration per Run 3	0.0107 ppm	0.1174 ppm	0.0102 ppm	0.0097 ppm	0.0106 ppm	0.0095 ppm	0.0110 ppm
Recovery Percentage 1	98.939 %	0.000 %	102.091 %	98.730 %	106.591 %	95.199 %	108.816 %
Concentration RSD	12.1 %	0.3 %	4.4 %	1.7 %	0.2 %	5.5 %	1.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0110 ppm	95.8690 %	97.7128 %	97.7101 %	99.4234 %	98.5361 %	99.9003 %
Concentration per Run 1	0.0111 ppm	95.5719 %	97.7156 %	97.3627 %	97.8865 %	97.9110 %	99.7683 %
Concentration per Run 2	0.0109 ppm	96.0391 %	97.5794 %	97.6538 %	99.4250 %	98.4775 %	99.8551 %
Concentration per Run 3	0.0110 ppm	95.9962 %	97.8434 %	98.1138 %	100.9586 %	99.2198 %	100.0775 %
Recovery Percentage 1	110.059 %						
Concentration RSD	0.6 %	0.3 %	0.1 %	0.4 %	1.5 %	0.7 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: IEC 500 Al Pb-
Analysis started at: 9/26/2024 1:16:43 PM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	500.1414 ppm	0.0043 ppm	-0.0072 ppm	0.0001 ppm	-0.0001 ppm	0.0063 ppm
Concentration per Run 1	0.0001 ppm	508.4494 ppm	0.0013 ppm	-0.0070 ppm	0.0001 ppm	-0.0001 ppm	0.0095 ppm
Concentration per Run 2	-0.0004 ppm	498.5683 ppm	0.0053 ppm	-0.0073 ppm	0.0003 ppm	-0.0001 ppm	0.0040 ppm
Concentration per Run 3	0.0006 ppm	493.4066 ppm	0.0065 ppm	-0.0072 ppm	-0.0002 ppm	0.0000 ppm	0.0056 ppm
Recovery Percentage 1	1.323 %	500,141.442 %	86.874 %	-23.906 %	0.758 %	-1.100 %	6.347 %
Concentration RSD	497.2 %	1.5 %	62.1 %	2.2 %	327.5 %	60.3 %	44.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0033 ppm	-0.0022 ppm	-0.0034 ppm
Concentration per Run 1	-0.0010 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0040 ppm	-0.0072 ppm	-0.0027 ppm
Concentration per Run 2	-0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0025 ppm	0.0015 ppm	-0.0040 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	-0.0034 ppm	-0.0007 ppm	-0.0034 ppm
Recovery Percentage 1	-24.882 %	-0.001 %	0.780 %	-1.491 %	-6.616 %	-0.086 %	-33.592 %
Concentration RSD	5.4 %	29,381.9 %	356.0 %	65.8 %	21.7 %	210.1 %	19.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0011 ppm	-0.0006 ppm	0.0007 ppm	0.0363 ppm	0.0012 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 1	-0.0032 ppm	-0.0009 ppm	0.0006 ppm	0.0361 ppm	0.0009 ppm	-0.0014 ppm	0.0038 ppm
Concentration per Run 2	-0.0007 ppm	-0.0005 ppm	0.0008 ppm	0.0351 ppm	0.0014 ppm	0.0003 ppm	0.0040 ppm
Concentration per Run 3	0.0006 ppm	-0.0003 ppm	0.0009 ppm	0.0378 ppm	0.0014 ppm	0.0011 ppm	0.0078 ppm
Recovery Percentage 1	-1.135 %	-5.816 %	1.477 %	1.814 %	4.815 %	0.076 %	10.403 %
Concentration RSD	169.5 %	45.0 %	20.7 %	3.8 %	24.7 %	16,957.8 %	42.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0038 ppm	0.0127 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0044 ppm	0.0004 ppm
Concentration per Run 1	0.0020 ppm	0.0129 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0059 ppm	0.0004 ppm
Concentration per Run 2	0.0026 ppm	0.0126 ppm	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	-0.0038 ppm	0.0004 ppm
Concentration per Run 3	0.0067 ppm	0.0127 ppm	-0.0007 ppm	-0.0002 ppm	0.0006 ppm	-0.0036 ppm	0.0003 ppm
Recovery Percentage 1	37.565 %	2.547 %	-0.292 %	-1.176 %	3.774 %	-22.214 %	3.887 %
Concentration RSD	69.1 %	1.1 %	386.4 %	105.8 %	96.7 %	28.2 %	21.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0005 ppm	99.4772 %	92.5990 %	97.4100 %	107.7073 %	93.6038 %	97.7517 %
Concentration per Run 1	-0.0005 ppm	99.5514 %	92.6977 %	97.4741 %	106.3971 %	93.6390 %	97.7586 %
Concentration per Run 2	-0.0005 ppm	99.1911 %	92.7465 %	97.5271 %	108.1233 %	93.6176 %	97.8909 %
Concentration per Run 3	-0.0005 ppm	99.6890 %	92.3528 %	97.2289 %	108.6015 %	93.5549 %	97.6055 %
Recovery Percentage 1	-9.697 %						
Concentration RSD	4.8 %	0.3 %	0.2 %	0.2 %	1.1 %	0.0 %	0.1 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR 250 NA
Analysis started at: 9/26/2024 1:35:50 PM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0048 ppm	0.0008 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	0.0003 ppm	-0.0022 ppm	-0.0008 ppm	0.0010 ppm	0.0002 ppm	-0.0001 ppm	0.0052 ppm
Concentration per Run 2	0.0009 ppm	0.0108 ppm	0.0016 ppm	0.0013 ppm	0.0000 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 3	0.0006 ppm	0.0060 ppm	0.0017 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0045 ppm
Concentration RSD	55.1 %	135.9 %	168.5 %	21.7 %	73.3 %	100.6 %	59.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0022 ppm	0.0214 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	-0.0025 ppm	0.0348 ppm	-0.0019 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0007 ppm	-0.0089 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	-0.0034 ppm	0.0382 ppm	-0.0012 ppm
Concentration RSD	406.9 %	337.3 %	402.3 %	17.8 %	62.0 %	122.9 %	60.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0025 ppm	-0.0001 ppm	0.0001 ppm	250.4007 ppm	-0.0002 ppm	-0.0007 ppm	0.0018 ppm
Concentration per Run 1	-0.0021 ppm	-0.0003 ppm	0.0002 ppm	259.2069 ppm	-0.0004 ppm	-0.0003 ppm	0.0012 ppm
Concentration per Run 2	-0.0043 ppm	-0.0003 ppm	0.0002 ppm	247.7666 ppm	-0.0003 ppm	-0.0012 ppm	0.0018 ppm
Concentration per Run 3	-0.0011 ppm	0.0002 ppm	0.0000 ppm	244.2286 ppm	0.0000 ppm	-0.0006 ppm	0.0023 ppm
Concentration RSD	67.6 %	263.4 %	102.2 %	3.1 %	84.8 %	66.5 %	30.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0013 ppm	0.0028 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 1	-0.0010 ppm	0.0026 ppm	-0.0005 ppm	-0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0031 ppm	0.0023 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0038 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	0.0034 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm
Concentration RSD	128.6 %	19.3 %	329.6 %	635.4 %	36.1 %	178.0 %	143.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	95.2241 %	94.1033 %	94.5936 %	101.2024 %	93.1287 %	97.3482 %
Concentration per Run 1	0.0003 ppm	94.2361 %	93.9245 %	94.7357 %	99.0353 %	92.8423 %	97.0149 %
Concentration per Run 2	0.0002 ppm	95.5942 %	94.1437 %	94.4459 %	101.4036 %	93.0876 %	97.4831 %
Concentration per Run 3	0.0002 ppm	95.8421 %	94.2418 %	94.5992 %	103.1684 %	93.4562 %	97.5465 %
Concentration RSD	30.9 %	0.9 %	0.2 %	0.2 %	2.0 %	0.3 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR 250 K
Analysis started at: 9/26/2024 1:43:00 PM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0039 ppm	0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0069 ppm	0.0008 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0057 ppm	0.0002 ppm	0.0017 ppm	0.0002 ppm	0.0000 ppm	-0.0046 ppm
Concentration per Run 3	-0.0001 ppm	-0.0009 ppm	-0.0007 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm
Concentration RSD	197.7 %	108.5 %	683.7 %	40.8 %	48.4 %	154.2 %	747.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	248.5716 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	246.1490 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0011 ppm	249.8556 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	-0.0005 ppm	249.7101 ppm	-0.0019 ppm
Concentration RSD	192.1 %	94.1 %	490.3 %	98.3 %	163.1 %	0.8 %	157.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.2077 ppm	0.0000 ppm	-0.0010 ppm	0.0017 ppm
Concentration per Run 1	0.0012 ppm	-0.0002 ppm	0.0002 ppm	0.2945 ppm	-0.0001 ppm	-0.0009 ppm	0.0018 ppm
Concentration per Run 2	0.0004 ppm	-0.0002 ppm	0.0002 ppm	0.1858 ppm	0.0001 ppm	-0.0011 ppm	0.0009 ppm
Concentration per Run 3	-0.0020 ppm	0.0003 ppm	0.0001 ppm	0.1430 ppm	0.0000 ppm	-0.0010 ppm	0.0025 ppm
Concentration RSD	1,326.8 %	1,214.8 %	30.2 %	37.6 %	392.5 %	7.3 %	46.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.0030 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	-0.0026 ppm	0.0028 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0025 ppm	0.0009 ppm	0.0000 ppm	-0.0006 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 3	-0.0007 ppm	0.0037 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	-0.0015 ppm	0.0002 ppm
Concentration RSD	131.2 %	21.4 %	149.6 %	142.7 %	177.1 %	25.4 %	499.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	94.7103 %	92.9934 %	93.5821 %	101.2642 %	93.2835 %	96.9074 %
Concentration per Run 1	0.0003 ppm	96.0150 %	92.8012 %	93.7792 %	101.3643 %	93.5033 %	96.7482 %
Concentration per Run 2	0.0003 ppm	94.0183 %	92.9705 %	93.4896 %	100.6042 %	92.8623 %	96.8378 %
Concentration per Run 3	0.0002 ppm	94.0975 %	93.2085 %	93.4773 %	101.8242 %	93.4850 %	97.1362 %
Concentration RSD	10.0 %	1.2 %	0.2 %	0.2 %	0.6 %	0.4 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:00:21 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5317 ppm	0.5287 ppm	0.5085 ppm	0.5130 ppm	0.5198 ppm	0.5302 ppm	0.5290 ppm
Concentration per Run 1	0.5312 ppm	0.5389 ppm	0.5107 ppm	0.5138 ppm	0.5304 ppm	0.5407 ppm	0.5413 ppm
Concentration per Run 2	0.5324 ppm	0.5235 ppm	0.5090 ppm	0.5136 ppm	0.5158 ppm	0.5261 ppm	0.5196 ppm
Concentration per Run 3	0.5314 ppm	0.5238 ppm	0.5058 ppm	0.5115 ppm	0.5131 ppm	0.5237 ppm	0.5260 ppm
Recovery Percentage 1	106.337 %	105.749 %	101.702 %	102.593 %	103.956 %	106.035 %	105.794 %
Concentration RSD	0.1 %	1.7 %	0.5 %	0.2 %	1.8 %	1.7 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5123 ppm	0.5222 ppm	0.5198 ppm	0.5117 ppm	0.5322 ppm	5.5951 ppm	0.5251 ppm
Concentration per Run 1	0.5125 ppm	0.5230 ppm	0.5194 ppm	0.5120 ppm	0.5378 ppm	5.7429 ppm	0.5336 ppm
Concentration per Run 2	0.5136 ppm	0.5229 ppm	0.5198 ppm	0.5115 ppm	0.5306 ppm	5.5509 ppm	0.5217 ppm
Concentration per Run 3	0.5110 ppm	0.5206 ppm	0.5203 ppm	0.5116 ppm	0.5283 ppm	5.4916 ppm	0.5201 ppm
Recovery Percentage 1	102.469 %	104.433 %	103.969 %	102.346 %	106.443 %	111.902 %	105.026 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.1 %	0.9 %	2.3 %	1.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5230 ppm	0.5260 ppm	0.5048 ppm	10.9889 ppm	0.5222 ppm	0.5215 ppm	0.5215 ppm
Concentration per Run 1	0.5255 ppm	0.5353 ppm	0.4994 ppm	11.2591 ppm	0.5225 ppm	0.5211 ppm	0.5209 ppm
Concentration per Run 2	0.5207 ppm	0.5222 ppm	0.5066 ppm	10.9508 ppm	0.5237 ppm	0.5221 ppm	0.5225 ppm
Concentration per Run 3	0.5227 ppm	0.5204 ppm	0.5083 ppm	10.7567 ppm	0.5205 ppm	0.5212 ppm	0.5210 ppm
Recovery Percentage 1	104.591 %	105.193 %	100.954 %	109.889 %	104.445 %	104.292 %	104.292 %
Concentration RSD	0.5 %	1.6 %	0.9 %	2.3 %	0.3 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5183 ppm	5.6704 ppm	0.4852 ppm	0.4956 ppm	0.5228 ppm	0.5186 ppm	0.5097 ppm
Concentration per Run 1	0.5180 ppm	5.6742 ppm	0.4865 ppm	0.5055 ppm	0.5232 ppm	0.5169 ppm	0.5106 ppm
Concentration per Run 2	0.5196 ppm	5.6809 ppm	0.4859 ppm	0.4920 ppm	0.5222 ppm	0.5204 ppm	0.5089 ppm
Concentration per Run 3	0.5174 ppm	5.6562 ppm	0.4832 ppm	0.4892 ppm	0.5231 ppm	0.5185 ppm	0.5096 ppm
Recovery Percentage 1	103.668 %	108.008 %	97.036 %	99.114 %	104.565 %	103.719 %	101.936 %
Concentration RSD	0.2 %	0.2 %	0.4 %	1.8 %	0.1 %	0.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5207 ppm	95.3705 %	97.6346 %	97.0079 %	104.5588 %	99.3269 %	101.7853 %
Concentration per Run 1	0.5209 ppm	93.4714 %	97.4599 %	96.9395 %	102.0213 %	99.1384 %	101.6030 %
Concentration per Run 2	0.5220 ppm	96.6261 %	97.9780 %	97.1484 %	105.5973 %	99.2280 %	102.1189 %
Concentration per Run 3	0.5191 ppm	96.0141 %	97.4660 %	96.9357 %	106.0577 %	99.6141 %	101.6341 %
Recovery Percentage 1	104.139 %						
Concentration RSD	0.3 %	1.8 %	0.3 %	0.1 %	2.1 %	0.3 %	0.3 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:06:23 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0061 ppm	0.0002 ppm	0.0010 ppm	0.0004 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 1	0.0006 ppm	-0.0033 ppm	0.0000 ppm	0.0010 ppm	0.0007 ppm	0.0004 ppm	0.0044 ppm
Concentration per Run 2	0.0004 ppm	0.0113 ppm	0.0012 ppm	0.0010 ppm	0.0006 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0103 ppm	-0.0006 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0026 ppm
Recovery Percentage 1	4.699 %	6.087 %	4.039 %	3.270 %	4.238 %	4.189 %	1.362 %
Concentration RSD	93.3 %	134.4 %	449.1 %	2.1 %	85.0 %	60.8 %	264.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0066 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0008 ppm	-0.0180 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0005 ppm	-0.0008 ppm	0.0085 ppm	-0.0011 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	-0.0003 ppm	-0.0102 ppm	-0.0018 ppm
Recovery Percentage 1	-0.307 %	-0.092 %	-1.033 %	3.328 %	-0.228 %	-0.263 %	-14.535 %
Concentration RSD	277.1 %	386.9 %	540.5 %	123.5 %	695.7 %	207.7 %	24.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0017 ppm	0.0000 ppm	0.0022 ppm	0.0124 ppm	0.0001 ppm	-0.0011 ppm	0.0019 ppm
Concentration per Run 1	-0.0028 ppm	0.0003 ppm	0.0025 ppm	0.0092 ppm	0.0000 ppm	-0.0010 ppm	0.0026 ppm
Concentration per Run 2	-0.0011 ppm	-0.0004 ppm	0.0020 ppm	0.0266 ppm	0.0003 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 3	-0.0012 ppm	0.0001 ppm	0.0020 ppm	0.0015 ppm	0.0001 ppm	-0.0019 ppm	0.0026 ppm
Recovery Percentage 1	-1.704 %	-0.027 %	4.344 %	0.621 %	0.515 %	-11.142 %	3.895 %
Concentration RSD	54.0 %	13,926.9 %	12.6 %	103.7 %	129.7 %	61.1 %	56.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 1	-0.0050 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm	0.0001 ppm	-0.0009 ppm	0.0005 ppm
Concentration per Run 3	-0.0014 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0004 ppm
Recovery Percentage 1	-20.446 %	-0.009 %	0.177 %	1.894 %	-0.895 %	-3.632 %	3.275 %
Concentration RSD	130.1 %	974.7 %	633.9 %	78.4 %	345.2 %	50.9 %	61.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	96.1972 %	97.8664 %	97.0711 %	96.4315 %	97.8992 %	98.2174 %
Concentration per Run 1	0.0003 ppm	92.8768 %	97.1796 %	97.3674 %	91.7837 %	97.7610 %	97.3211 %
Concentration per Run 2	0.0001 ppm	97.6140 %	98.9176 %	97.0705 %	97.5834 %	98.0296 %	99.1534 %
Concentration per Run 3	0.0001 ppm	98.1009 %	97.5020 %	96.7755 %	99.9273 %	97.9069 %	98.1778 %
Recovery Percentage 1	3.012 %						
Concentration RSD	94.3 %	3.0 %	0.9 %	0.3 %	4.3 %	0.1 %	0.9 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:16:57 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5405 ppm	0.5516 ppm	0.5151 ppm	0.5208 ppm	0.5451 ppm	0.5573 ppm	0.5462 ppm
Concentration per Run 1	0.5399 ppm	0.5398 ppm	0.5177 ppm	0.5224 ppm	0.5376 ppm	0.5497 ppm	0.5316 ppm
Concentration per Run 2	0.5407 ppm	0.5622 ppm	0.5140 ppm	0.5195 ppm	0.5617 ppm	0.5746 ppm	0.5673 ppm
Concentration per Run 3	0.5409 ppm	0.5527 ppm	0.5137 ppm	0.5204 ppm	0.5360 ppm	0.5477 ppm	0.5398 ppm
Recovery Percentage 1	108.100 %	110.321 %	103.025 %	104.153 %	109.017 %	111.467 %	109.246 %
Concentration RSD	0.1 %	2.0 %	0.4 %	0.3 %	2.6 %	2.7 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5152 ppm	0.5265 ppm	0.5252 ppm	0.5172 ppm	0.5569 ppm	5.7822 ppm	0.5458 ppm
Concentration per Run 1	0.5175 ppm	0.5287 ppm	0.5271 ppm	0.5170 ppm	0.5457 ppm	5.7230 ppm	0.5350 ppm
Concentration per Run 2	0.5135 ppm	0.5253 ppm	0.5246 ppm	0.5181 ppm	0.5756 ppm	5.9496 ppm	0.5641 ppm
Concentration per Run 3	0.5146 ppm	0.5256 ppm	0.5240 ppm	0.5164 ppm	0.5494 ppm	5.6740 ppm	0.5384 ppm
Recovery Percentage 1	103.037 %	105.305 %	105.044 %	103.431 %	111.378 %	115.644 %	109.168 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.2 %	2.9 %	2.5 %	2.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5312 ppm	0.5521 ppm	0.5102 ppm	11.0409 ppm	0.5275 ppm	0.5300 ppm	0.5270 ppm
Concentration per Run 1	0.5315 ppm	0.5437 ppm	0.5072 ppm	10.8887 ppm	0.5294 ppm	0.5322 ppm	0.5292 ppm
Concentration per Run 2	0.5334 ppm	0.5700 ppm	0.5092 ppm	11.3744 ppm	0.5257 ppm	0.5291 ppm	0.5256 ppm
Concentration per Run 3	0.5288 ppm	0.5426 ppm	0.5143 ppm	10.8595 ppm	0.5275 ppm	0.5287 ppm	0.5264 ppm
Recovery Percentage 1	106.244 %	110.422 %	102.049 %	110.409 %	105.506 %	106.003 %	105.407 %
Concentration RSD	0.4 %	2.8 %	0.7 %	2.6 %	0.3 %	0.4 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5313 ppm	5.7554 ppm	0.4952 ppm	0.5198 ppm	0.5320 ppm	0.5201 ppm	0.5174 ppm
Concentration per Run 1	0.5315 ppm	5.7689 ppm	0.4969 ppm	0.5133 ppm	0.5320 ppm	0.5222 ppm	0.5173 ppm
Concentration per Run 2	0.5321 ppm	5.7450 ppm	0.4947 ppm	0.5358 ppm	0.5327 ppm	0.5187 ppm	0.5177 ppm
Concentration per Run 3	0.5302 ppm	5.7524 ppm	0.4939 ppm	0.5104 ppm	0.5312 ppm	0.5193 ppm	0.5171 ppm
Recovery Percentage 1	106.251 %	109.627 %	99.039 %	103.970 %	106.396 %	104.016 %	103.474 %
Concentration RSD	0.2 %	0.2 %	0.3 %	2.7 %	0.1 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5250 ppm	91.9006 %	97.2128 %	97.1611 %	100.5228 %	98.9446 %	100.7490 %
Concentration per Run 1	0.5273 ppm	92.9362 %	97.0240 %	97.0200 %	101.3670 %	98.6016 %	100.4922 %
Concentration per Run 2	0.5234 ppm	89.1492 %	97.3527 %	97.3420 %	97.9711 %	99.2228 %	100.8399 %
Concentration per Run 3	0.5244 ppm	93.6165 %	97.2616 %	97.1213 %	102.2304 %	99.0093 %	100.9149 %
Recovery Percentage 1	105.004 %						
Concentration RSD	0.4 %	2.6 %	0.2 %	0.2 %	2.2 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:23:00 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0031 ppm	-0.0004 ppm	0.0019 ppm	0.0004 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 1	0.0006 ppm	-0.0008 ppm	-0.0008 ppm	0.0022 ppm	0.0006 ppm	0.0003 ppm	-0.0039 ppm
Concentration per Run 2	0.0002 ppm	-0.0077 ppm	0.0004 ppm	0.0019 ppm	0.0006 ppm	0.0003 ppm	-0.0018 ppm
Concentration per Run 3	0.0002 ppm	-0.0008 ppm	-0.0009 ppm	0.0017 ppm	0.0000 ppm	0.0002 ppm	0.0025 ppm
Recovery Percentage 1	4.343 %	-3.067 %	-8.333 %	6.340 %	3.683 %	4.735 %	-1.053 %
Concentration RSD	84.8 %	129.9 %	177.6 %	13.6 %	92.4 %	32.4 %	310.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	-0.0458 ppm	-0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0004 ppm	-0.0784 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	-0.0005 ppm	0.0049 ppm	-0.0038 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0004 ppm	-0.0639 ppm	-0.0043 ppm
Recovery Percentage 1	-0.419 %	0.411 %	3.209 %	5.421 %	0.195 %	-1.832 %	-32.206 %
Concentration RSD	344.9 %	151.0 %	50.1 %	11.3 %	571.5 %	97.1 %	46.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0005 ppm	0.0002 ppm	0.0020 ppm	0.0117 ppm	0.0001 ppm	-0.0013 ppm	0.0012 ppm
Concentration per Run 1	0.0012 ppm	0.0006 ppm	0.0022 ppm	0.0126 ppm	0.0001 ppm	-0.0012 ppm	0.0011 ppm
Concentration per Run 2	-0.0010 ppm	0.0003 ppm	0.0020 ppm	0.0141 ppm	0.0000 ppm	-0.0018 ppm	0.0017 ppm
Concentration per Run 3	-0.0017 ppm	-0.0004 ppm	0.0018 ppm	0.0084 ppm	0.0001 ppm	-0.0009 ppm	0.0007 ppm
Recovery Percentage 1	-0.481 %	1.654 %	3.978 %	0.586 %	0.285 %	-12.791 %	2.370 %
Concentration RSD	306.4 %	315.2 %	10.8 %	25.4 %	43.3 %	34.6 %	43.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.0012 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 1	0.0033 ppm	0.0020 ppm	0.0003 ppm	0.0006 ppm	0.0005 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 3	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm
Recovery Percentage 1	8.701 %	0.248 %	0.242 %	3.930 %	2.079 %	-6.573 %	1.802 %
Concentration RSD	243.0 %	81.8 %	144.7 %	36.1 %	144.9 %	31.6 %	36.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	97.8847 %	97.5798 %	97.5080 %	97.7461 %	97.5962 %	97.4550 %
Concentration per Run 1	0.0003 ppm	98.3377 %	97.5035 %	97.4188 %	96.3916 %	97.2662 %	97.3838 %
Concentration per Run 2	0.0003 ppm	97.3851 %	97.6323 %	97.6045 %	97.4551 %	97.6647 %	97.4940 %
Concentration per Run 3	0.0002 ppm	97.9314 %	97.6036 %	97.5009 %	99.3915 %	97.8576 %	97.4872 %
Recovery Percentage 1	5.450 %						
Concentration RSD	10.6 %	0.5 %	0.1 %	0.1 %	1.6 %	0.3 %	0.1 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR B 20
Analysis started at: 9/26/2024 2:30:00 PM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0082 ppm	0.0007 ppm	20.6373 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0007 ppm	0.0106 ppm	0.0000 ppm	20.6451 ppm	0.0003 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0010 ppm	0.0012 ppm	20.6489 ppm	0.0000 ppm	0.0000 ppm	-0.0060 ppm
Concentration per Run 3	0.0003 ppm	0.0150 ppm	0.0009 ppm	20.6179 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration RSD	120.1 %	100.8 %	91.9 %	0.1 %	158.7 %	34.8 %	737.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0016 ppm	-0.0469 ppm	-0.0025 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	-0.0016 ppm	-0.0333 ppm	-0.0051 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0014 ppm	-0.0722 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0019 ppm	-0.0351 ppm	-0.0023 ppm
Concentration RSD	343.0 %	87.7 %	145.8 %	52.3 %	16.5 %	46.8 %	96.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0007 ppm	0.0060 ppm	0.0002 ppm	-0.0013 ppm	0.0017 ppm
Concentration per Run 1	0.0026 ppm	0.0007 ppm	0.0007 ppm	0.0024 ppm	0.0001 ppm	-0.0012 ppm	0.0022 ppm
Concentration per Run 2	-0.0006 ppm	0.0001 ppm	0.0008 ppm	0.0102 ppm	0.0001 ppm	-0.0024 ppm	0.0012 ppm
Concentration per Run 3	-0.0008 ppm	-0.0001 ppm	0.0006 ppm	0.0055 ppm	0.0003 ppm	-0.0004 ppm	0.0016 ppm
Concentration RSD	493.6 %	184.0 %	8.2 %	64.7 %	77.4 %	73.8 %	30.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.0023 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	0.0023 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0034 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	-0.0027 ppm	0.0001 ppm
Concentration RSD	94.3 %	51.4 %	42.4 %	36.4 %	19.5 %	78.5 %	26.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	97.4221 %	98.4465 %	98.4002 %	98.0526 %	98.8155 %	99.5959 %
Concentration per Run 1	0.0002 ppm	95.5315 %	98.3353 %	98.1044 %	94.8210 %	98.6255 %	99.1467 %
Concentration per Run 2	0.0001 ppm	97.3519 %	98.4655 %	98.4602 %	98.1595 %	98.6988 %	99.6632 %
Concentration per Run 3	0.0001 ppm	99.3828 %	98.5388 %	98.6359 %	101.1774 %	99.1222 %	99.9779 %
Concentration RSD	43.4 %	2.0 %	0.1 %	0.3 %	3.2 %	0.3 %	0.4 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR 500 CA
Analysis started at: 9/26/2024 2:36:18 PM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0155 ppm	0.0002 ppm	0.0410 ppm	-0.0001 ppm	-0.0001 ppm	**510.0840 ppm**
Concentration per Run 1	0.0000 ppm	0.0196 ppm	0.0020 ppm	0.0447 ppm	-0.0001 ppm	-0.0001 ppm	530.4378 ppm
Concentration per Run 2	0.0001 ppm	0.0179 ppm	-0.0001 ppm	0.0410 ppm	-0.0001 ppm	0.0000 ppm	510.0517 ppm
Concentration per Run 3	0.0001 ppm	0.0091 ppm	-0.0012 ppm	0.0372 ppm	-0.0001 ppm	-0.0002 ppm	489.7624 ppm
Concentration RSD	146.9 %	36.3 %	726.0 %	9.2 %	24.2 %	52.5 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0009 ppm	-0.0002 ppm	-0.0297 ppm	-0.0163 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0007 ppm	-0.0008 ppm	-0.0271 ppm	-0.0182 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0010 ppm	0.0005 ppm	-0.0345 ppm	-0.0157 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0011 ppm	-0.0004 ppm	-0.0276 ppm	-0.0151 ppm
Concentration RSD	55.0 %	10.0 %	34.2 %	26.2 %	270.3 %	13.8 %	9.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0109 ppm	0.0003 ppm	-0.0028 ppm	0.0004 ppm
Concentration per Run 1	-0.0013 ppm	0.0005 ppm	0.0001 ppm	0.0144 ppm	0.0004 ppm	-0.0031 ppm	-0.0005 ppm
Concentration per Run 2	0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0108 ppm	0.0003 ppm	-0.0024 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0075 ppm	0.0003 ppm	-0.0029 ppm	0.0023 ppm
Concentration RSD	365.0 %	161.8 %	124.5 %	31.8 %	20.9 %	11.7 %	440.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	-0.0015 ppm	0.0008 ppm	0.0001 ppm	-0.0015 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 1	0.0019 ppm	-0.0024 ppm	0.0009 ppm	0.0001 ppm	-0.0016 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 2	-0.0014 ppm	-0.0014 ppm	0.0014 ppm	0.0002 ppm	-0.0018 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 3	-0.0035 ppm	-0.0008 ppm	0.0002 ppm	0.0000 ppm	-0.0012 ppm	-0.0011 ppm	0.0003 ppm
Concentration RSD	270.0 %	54.3 %	67.4 %	69.5 %	20.7 %	189.7 %	52.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	92.9698 %	91.5655 %	90.9358 %	95.1142 %	86.6450 %	92.4942 %
Concentration per Run 1	0.0005 ppm	90.3542 %	91.4702 %	90.9633 %	90.8317 %	86.4755 %	92.3165 %
Concentration per Run 2	0.0006 ppm	93.6604 %	92.0638 %	91.1263 %	95.8263 %	86.7261 %	93.0303 %
Concentration per Run 3	0.0005 ppm	94.8948 %	91.1625 %	90.7178 %	98.6848 %	86.7336 %	92.1359 %
Concentration RSD	8.7 %	2.5 %	0.5 %	0.2 %	4.2 %	0.2 %	0.5 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: zIEC 200 FE Pb-
Analysis started at: 9/26/2024 3:04:00 PM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	-0.0008 ppm	-0.0040 ppm	0.0026 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	0.0034 ppm	-0.0002 ppm	-0.0037 ppm	0.0031 ppm	-0.0001 ppm	0.0000 ppm	-0.0035 ppm
Concentration per Run 2	0.0024 ppm	-0.0028 ppm	-0.0051 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	0.0034 ppm	0.0008 ppm	-0.0032 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	-0.0025 ppm
Recovery Percentage 1	43.442 %	-0.757 %	-80.023 %	8.754 %	-0.044 %	0.513 %	-1.479 %
Concentration RSD	19.6 %	242.9 %	24.8 %	15.9 %	1,097.7 %	52.1 %	179.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	-0.0007 ppm	-0.0003 ppm	-0.0124 ppm	**191.1675 ppm**	-0.0976 ppm	-0.0030 ppm
Concentration per Run 1	0.0018 ppm	-0.0009 ppm	-0.0005 ppm	-0.0121 ppm	194.3672 ppm	-0.0862 ppm	-0.0005 ppm
Concentration per Run 2	0.0018 ppm	-0.0006 ppm	0.0001 ppm	-0.0124 ppm	188.5258 ppm	-0.0968 ppm	-0.0039 ppm
Concentration per Run 3	0.0018 ppm	-0.0006 ppm	-0.0005 ppm	-0.0126 ppm	190.6095 ppm	-0.1098 ppm	-0.0047 ppm
Recovery Percentage 1	44.441 %	-3.513 %	-2.629 %	-123.768 %	382,335.048 %	-3.904 %	-30.468 %
Concentration RSD	1.3 %	23.5 %	134.4 %	2.3 %	**1.5 %**	12.1 %	73.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0062 ppm	-0.0002 ppm	-0.0016 ppm	0.0178 ppm	-0.0072 ppm	0.0002 ppm	0.0038 ppm
Concentration per Run 1	-0.0072 ppm	0.0000 ppm	-0.0016 ppm	0.0275 ppm	-0.0074 ppm	-0.0002 ppm	0.0039 ppm
Concentration per Run 2	-0.0048 ppm	-0.0001 ppm	-0.0015 ppm	0.0200 ppm	-0.0072 ppm	0.0018 ppm	0.0033 ppm
Concentration per Run 3	-0.0066 ppm	-0.0004 ppm	-0.0018 ppm	0.0059 ppm	-0.0070 ppm	-0.0009 ppm	0.0043 ppm
Recovery Percentage 1	-6.203 %	-1.611 %	-3.254 %	0.889 %	-28.745 %	2.497 %	7.691 %
Concentration RSD	20.8 %	149.0 %	10.5 %	61.6 %	3.2 %	542.2 %	13.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.0020 ppm	0.0008 ppm	0.0002 ppm	-0.0001 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 1	-0.0012 ppm	0.0017 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0005 ppm
Concentration per Run 3	-0.0004 ppm	0.0031 ppm	0.0005 ppm	0.0002 ppm	-0.0003 ppm	0.0030 ppm	0.0002 ppm
Recovery Percentage 1	-4.857 %	0.407 %	1.531 %	1.785 %	-0.526 %	7.278 %	1.990 %
Concentration RSD	127.6 %	45.8 %	31.2 %	23.2 %	525.9 %	96.4 %	148.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	101.4123 %	99.8938 %	99.4357 %	111.7228 %	99.9322 %	103.8379 %
Concentration per Run 1	-0.0003 ppm	100.3695 %	99.5375 %	99.4059 %	110.8409 %	100.3989 %	103.6239 %
Concentration per Run 2	-0.0002 ppm	102.1418 %	100.1047 %	99.3431 %	112.6140 %	99.7371 %	103.9975 %
Concentration per Run 3	-0.0002 ppm	101.7255 %	100.0393 %	99.5581 %	111.7135 %	99.6607 %	103.8922 %
Recovery Percentage 1	-4.866 %						
Concentration RSD	22.1 %	0.9 %	0.3 %	0.1 %	0.8 %	0.4 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-2 WG1976148
Analysis started at: 9/26/2024 3:24:11 PM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0503 ppm	2.0032 ppm	0.1176 ppm	0.9562 ppm	1.9826 ppm	0.0518 ppm	9.8837 ppm
Concentration per Run 1	0.0501 ppm	1.9897 ppm	0.1175 ppm	0.9586 ppm	1.9713 ppm	0.0512 ppm	9.8215 ppm
Concentration per Run 2	0.0499 ppm	2.0256 ppm	0.1183 ppm	0.9540 ppm	2.0043 ppm	0.0527 ppm	10.0022 ppm
Concentration per Run 3	0.0508 ppm	1.9945 ppm	0.1172 ppm	0.9558 ppm	1.9722 ppm	0.0516 ppm	9.8272 ppm
Concentration RSD	0.9 %	1.0 %	0.5 %	0.2 %	0.9 %	1.5 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0523 ppm	0.4912 ppm	0.1996 ppm	0.2508 ppm	1.0337 ppm	10.3767 ppm	-0.0035 ppm
Concentration per Run 1	0.0525 ppm	0.4924 ppm	0.1998 ppm	0.2515 ppm	1.0221 ppm	10.3303 ppm	-0.0041 ppm
Concentration per Run 2	0.0521 ppm	0.4902 ppm	0.1999 ppm	0.2503 ppm	1.0502 ppm	10.5183 ppm	-0.0021 ppm
Concentration per Run 3	0.0522 ppm	0.4909 ppm	0.1991 ppm	0.2506 ppm	1.0287 ppm	10.2815 ppm	-0.0043 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	0.2 %	1.4 %	1.2 %	34.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8755 ppm	0.5109 ppm	1.0032 ppm	10.0978 ppm	0.5009 ppm	0.5376 ppm	0.5014 ppm
Concentration per Run 1	9.8798 ppm	0.5081 ppm	1.0018 ppm	10.0453 ppm	0.5021 ppm	0.5386 ppm	0.5024 ppm
Concentration per Run 2	9.8791 ppm	0.5167 ppm	1.0024 ppm	10.2350 ppm	0.4997 ppm	0.5367 ppm	0.5005 ppm
Concentration per Run 3	9.8675 ppm	0.5079 ppm	1.0054 ppm	10.0132 ppm	0.5008 ppm	0.5376 ppm	0.5012 ppm
Concentration RSD	0.1 %	1.0 %	0.2 %	1.2 %	0.2 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1167 ppm	0.8561 ppm	0.9630 ppm	0.9513 ppm	1.0152 ppm	0.1142 ppm	0.4968 ppm
Concentration per Run 1	0.1187 ppm	0.8572 ppm	0.9643 ppm	0.9452 ppm	1.0131 ppm	0.1148 ppm	0.4972 ppm
Concentration per Run 2	0.1144 ppm	0.8557 ppm	0.9623 ppm	0.9641 ppm	1.0161 ppm	0.1128 ppm	0.4971 ppm
Concentration per Run 3	0.1170 ppm	0.8553 ppm	0.9622 ppm	0.9445 ppm	1.0165 ppm	0.1148 ppm	0.4962 ppm
Concentration RSD	1.9 %	0.1 %	0.1 %	1.2 %	0.2 %	1.0 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4907 ppm	93.9914 %	97.2853 %	96.6158 %	101.8070 %	95.6514 %	99.3993 %
Concentration per Run 1	0.4921 ppm	94.4956 %	97.0678 %	96.4523 %	102.7365 %	95.2555 %	99.1661 %
Concentration per Run 2	0.4904 ppm	92.3249 %	97.2420 %	96.5957 %	99.9109 %	95.8237 %	99.2921 %
Concentration per Run 3	0.4897 ppm	95.1538 %	97.5459 %	96.7994 %	102.7736 %	95.8749 %	99.7398 %
Concentration RSD	0.3 %	1.6 %	0.2 %	0.2 %	1.6 %	0.4 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453196-01d50 WG1975237
Analysis started at: 9/26/2024 3:30:19 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	2.4892 ppm	0.0035 ppm	0.0051 ppm	0.0127 ppm	0.0000 ppm	9.3139 ppm
Concentration per Run 1	0.0005 ppm	2.5128 ppm	0.0036 ppm	0.0051 ppm	0.0130 ppm	0.0001 ppm	9.4013 ppm
Concentration per Run 2	-0.0001 ppm	2.5333 ppm	0.0051 ppm	0.0053 ppm	0.0132 ppm	0.0000 ppm	9.5115 ppm
Concentration per Run 3	0.0013 ppm	2.4214 ppm	0.0019 ppm	0.0050 ppm	0.0121 ppm	0.0000 ppm	9.0287 ppm
Concentration RSD	114.4 %	2.4 %	44.3 %	2.8 %	4.6 %	78.1 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0075 ppm	0.0050 ppm	0.0268 ppm	0.0211 ppm	3.0300 ppm	0.3670 ppm	-0.0008 ppm
Concentration per Run 1	0.0075 ppm	0.0049 ppm	0.0266 ppm	0.0216 ppm	3.0451 ppm	0.3150 ppm	-0.0012 ppm
Concentration per Run 2	0.0075 ppm	0.0052 ppm	0.0270 ppm	0.0208 ppm	3.0935 ppm	0.4060 ppm	0.0007 ppm
Concentration per Run 3	0.0076 ppm	0.0048 ppm	0.0267 ppm	0.0209 ppm	2.9513 ppm	0.3801 ppm	-0.0021 ppm
Concentration RSD	0.3 %	4.4 %	0.8 %	2.0 %	2.4 %	12.8 %	170.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.7935 ppm	0.0535 ppm	0.1247 ppm	0.8915 ppm	0.0088 ppm	0.1151 ppm	4.4378 ppm
Concentration per Run 1	0.7945 ppm	0.0543 ppm	0.1249 ppm	0.8958 ppm	0.0088 ppm	0.1152 ppm	4.4389 ppm
Concentration per Run 2	0.7942 ppm	0.0546 ppm	0.1246 ppm	0.9131 ppm	0.0088 ppm	0.1151 ppm	4.4500 ppm
Concentration per Run 3	0.7918 ppm	0.0517 ppm	0.1247 ppm	0.8656 ppm	0.0089 ppm	0.1151 ppm	4.4246 ppm
Concentration RSD	0.2 %	3.0 %	0.1 %	2.7 %	0.4 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.1948 ppm	0.0106 ppm	0.0092 ppm	0.1178 ppm	-0.0012 ppm	0.0025 ppm
Concentration per Run 1	0.0001 ppm	0.1954 ppm	0.0111 ppm	0.0094 ppm	0.1181 ppm	-0.0003 ppm	0.0028 ppm
Concentration per Run 2	-0.0008 ppm	0.1946 ppm	0.0104 ppm	0.0094 ppm	0.1176 ppm	-0.0007 ppm	0.0026 ppm
Concentration per Run 3	-0.0007 ppm	0.1944 ppm	0.0102 ppm	0.0089 ppm	0.1176 ppm	-0.0027 ppm	0.0022 ppm
Concentration RSD	103.7 %	0.3 %	4.4 %	3.2 %	0.2 %	107.8 %	13.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	32.1244 ppm	95.4336 %	99.8678 %	99.5894 %	96.0753 %	99.3083 %	100.1073 %
Concentration per Run 1	32.2624 ppm	94.5857 %	99.9100 %	99.7561 %	93.5890 %	99.5032 %	100.0741 %
Concentration per Run 2	31.9793 ppm	93.4905 %	99.6918 %	99.5995 %	94.6584 %	99.1061 %	99.7207 %
Concentration per Run 3	32.1314 ppm	98.2245 %	100.0014 %	99.4126 %	99.9786 %	99.3156 %	100.5270 %
Concentration RSD	0.4 %	2.6 %	0.2 %	0.2 %	3.6 %	0.2 %	0.4 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: zL2453855-01d20 WG1975237
Analysis started at: 9/26/2024 3:36:37 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0055 ppm	7.4186 ppm	0.0374 ppm	0.0675 ppm	0.4009 ppm	0.0040 ppm	16.4298 ppm
Concentration per Run 1	0.0054 ppm	7.4393 ppm	0.0363 ppm	0.0674 ppm	0.4025 ppm	0.0040 ppm	16.5237 ppm
Concentration per Run 2	0.0057 ppm	7.5725 ppm	0.0393 ppm	0.0674 ppm	0.4083 ppm	0.0041 ppm	16.7440 ppm
Concentration per Run 3	0.0055 ppm	7.2439 ppm	0.0367 ppm	0.0677 ppm	0.3918 ppm	0.0039 ppm	16.0216 ppm
Concentration RSD	2.5 %	2.2 %	4.3 %	0.3 %	2.1 %	2.9 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0027 ppm	0.0369 ppm	0.1718 ppm	**88.1072 ppm**	79.9030 ppm	0.9743 ppm	0.0090 ppm
Concentration per Run 1	0.0028 ppm	0.0368 ppm	0.1719 ppm	88.9558 ppm	80.0962 ppm	0.9856 ppm	0.0078 ppm
Concentration per Run 2	0.0027 ppm	0.0370 ppm	0.1719 ppm	87.6808 ppm	81.5419 ppm	0.9832 ppm	0.0090 ppm
Concentration per Run 3	0.0027 ppm	0.0370 ppm	0.1718 ppm	87.6851 ppm	78.0707 ppm	0.9540 ppm	0.0102 ppm
Concentration RSD	0.4 %	0.3 %	0.0 %	0.8 %	2.2 %	1.8 %	13.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2335 ppm	0.5883 ppm	0.0856 ppm	1.3280 ppm	0.2229 ppm	0.4989 ppm	0.0058 ppm
Concentration per Run 1	3.2365 ppm	0.5901 ppm	0.0846 ppm	1.3428 ppm	0.2224 ppm	0.4972 ppm	0.0057 ppm
Concentration per Run 2	3.2279 ppm	0.6007 ppm	0.0856 ppm	1.3447 ppm	0.2232 ppm	0.4989 ppm	0.0055 ppm
Concentration per Run 3	3.2361 ppm	0.5740 ppm	0.0865 ppm	1.2964 ppm	0.2231 ppm	0.5005 ppm	0.0061 ppm
Concentration RSD	0.2 %	2.3 %	1.1 %	2.1 %	0.2 %	0.3 %	5.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	2.4258 ppm	0.1578 ppm	0.1358 ppm	0.3687 ppm	0.0009 ppm	0.0213 ppm
Concentration per Run 1	-0.0018 ppm	2.4214 ppm	0.1579 ppm	0.1363 ppm	0.3691 ppm	0.0019 ppm	0.0212 ppm
Concentration per Run 2	0.0014 ppm	2.4275 ppm	0.1579 ppm	0.1386 ppm	0.3690 ppm	-0.0003 ppm	0.0210 ppm
Concentration per Run 3	0.0026 ppm	2.4284 ppm	0.1575 ppm	0.1324 ppm	0.3678 ppm	0.0011 ppm	0.0216 ppm
Concentration RSD	302.9 %	0.2 %	0.2 %	2.3 %	0.2 %	126.8 %	1.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	**21.8293 ppm**	97.6972 %	100.8100 %	**46.7601 %**	101.8706 %	97.6290 %	101.6579 %
Concentration per Run 1	21.7949 ppm	96.5268 %	100.7732 %	**46.9231 %**	100.0935 %	97.6799 %	101.5274 %
Concentration per Run 2	21.8503 ppm	95.8827 %	100.7144 %	**46.6927 %**	100.0651 %	97.7428 %	101.7657 %
Concentration per Run 3	21.8426 ppm	100.6821 %	100.9424 %	**46.6645 %**	105.4533 %	97.4644 %	101.6805 %
Concentration RSD	0.1 %	2.7 %	0.1 %	**0.3 %**	3.0 %	0.1 %	0.1 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453855-02d2 WG1975237
Analysis started at: 9/26/2024 3:42:51 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0185 ppm	67.8436 ppm	0.6188 ppm	0.3297 ppm	0.7414 ppm	0.0167 ppm	62.7618 ppm
Concentration per Run 1	0.0182 ppm	69.1984 ppm	0.6234 ppm	0.3318 ppm	0.7562 ppm	0.0170 ppm	64.0203 ppm
Concentration per Run 2	0.0187 ppm	67.6010 ppm	0.6206 ppm	0.3302 ppm	0.7383 ppm	0.0165 ppm	62.4987 ppm
Concentration per Run 3	0.0186 ppm	66.7313 ppm	0.6123 ppm	0.3270 ppm	0.7297 ppm	0.0165 ppm	61.7663 ppm
Concentration RSD	1.5 %	1.8 %	0.9 %	0.7 %	1.8 %	1.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0292 ppm	0.3520 ppm	1.0558 ppm	**28.7257 ppm**	**485.2109 ppm**	12.4850 ppm	0.0620 ppm
Concentration per Run 1	0.0297 ppm	0.3551 ppm	1.0551 ppm	28.6259 ppm	490.6462 ppm	12.7438 ppm	0.0634 ppm
Concentration per Run 2	0.0292 ppm	0.3514 ppm	1.0556 ppm	28.6205 ppm	482.0253 ppm	12.4440 ppm	0.0617 ppm
Concentration per Run 3	0.0288 ppm	0.3496 ppm	1.0567 ppm	28.9308 ppm	482.9612 ppm	12.2672 ppm	0.0609 ppm
Concentration RSD	1.7 %	0.8 %	0.1 %	0.6 %	1.0 %	1.9 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	50.6431 ppm	2.8815 ppm	1.2673 ppm	48.7857 ppm	1.0200 ppm	4.1109 ppm	0.1764 ppm
Concentration per Run 1	50.6055 ppm	2.9415 ppm	1.2709 ppm	49.7458 ppm	1.0292 ppm	4.1465 ppm	0.1767 ppm
Concentration per Run 2	50.6786 ppm	2.8699 ppm	1.2664 ppm	48.6216 ppm	1.0189 ppm	4.1106 ppm	0.1786 ppm
Concentration per Run 3	50.6454 ppm	2.8329 ppm	1.2645 ppm	47.9898 ppm	1.0117 ppm	4.0755 ppm	0.1739 ppm
Concentration RSD	0.1 %	1.9 %	0.3 %	1.8 %	0.9 %	0.9 %	1.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0133 ppm	19.9302 ppm	0.6163 ppm	0.4682 ppm	4.3810 ppm	0.0062 ppm	0.5001 ppm
Concentration per Run 1	0.0110 ppm	20.0869 ppm	0.6222 ppm	0.4776 ppm	4.3805 ppm	0.0057 ppm	0.4993 ppm
Concentration per Run 2	0.0150 ppm	19.9090 ppm	0.6166 ppm	0.4669 ppm	4.3818 ppm	0.0075 ppm	0.5009 ppm
Concentration per Run 3	0.0139 ppm	19.7947 ppm	0.6101 ppm	0.4600 ppm	4.3808 ppm	0.0055 ppm	0.5002 ppm
Concentration RSD	15.6 %	0.7 %	1.0 %	1.9 %	0.0 %	17.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	**30.1386 ppm**	122.7061 %	117.6153 %	104.4646 %	112.7976 %	93.0669 %	101.3362 %
Concentration per Run 1	30.2785 ppm	120.7931 %	117.9666 %	104.9314 %	111.7611 %	92.9369 %	101.7332 %
Concentration per Run 2	30.1127 ppm	123.1317 %	117.3943 %	104.3242 %	112.9262 %	92.9821 %	101.1469 %
Concentration per Run 3	30.0247 ppm	124.1934 %	117.4849 %	104.1380 %	113.7055 %	93.2817 %	101.1286 %
Concentration RSD	0.4 %	1.4 %	0.3 %	0.4 %	0.9 %	0.2 %	0.3 %

LabBook: WG1976666_09262024T5.imexp

Sample: I2453869-04 WG1976148
Analysis started at: 9/26/2024 3:49:19 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0203 ppm	0.0014 ppm	0.0403 ppm	0.0360 ppm	0.0000 ppm	9.3456 ppm
Concentration per Run 1	0.0005 ppm	0.0186 ppm	0.0006 ppm	0.0409 ppm	0.0383 ppm	-0.0001 ppm	9.9191 ppm
Concentration per Run 2	0.0005 ppm	0.0197 ppm	0.0013 ppm	0.0399 ppm	0.0355 ppm	0.0000 ppm	9.1671 ppm
Concentration per Run 3	0.0008 ppm	0.0225 ppm	0.0024 ppm	0.0401 ppm	0.0343 ppm	0.0000 ppm	8.9507 ppm
Concentration RSD	26.3 %	10.0 %	64.8 %	1.3 %	5.6 %	23.1 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0036 ppm	0.1921 ppm	3.4628 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0039 ppm	0.2371 ppm	3.6831 ppm	-0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0035 ppm	0.1567 ppm	3.4230 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm	0.1824 ppm	3.2823 ppm	0.0025 ppm
Concentration RSD	40.2 %	201.2 %	72.3 %	9.1 %	21.4 %	5.9 %	223.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.5718 ppm	0.0094 ppm	0.0047 ppm	19.5839 ppm	0.0006 ppm	-0.0011 ppm	0.0026 ppm
Concentration per Run 1	2.5702 ppm	0.0099 ppm	0.0051 ppm	20.7657 ppm	0.0006 ppm	-0.0016 ppm	0.0032 ppm
Concentration per Run 2	2.5638 ppm	0.0089 ppm	0.0047 ppm	19.2417 ppm	0.0005 ppm	-0.0013 ppm	0.0021 ppm
Concentration per Run 3	2.5815 ppm	0.0094 ppm	0.0042 ppm	18.7444 ppm	0.0006 ppm	-0.0003 ppm	0.0024 ppm
Concentration RSD	0.3 %	5.1 %	10.2 %	5.4 %	9.4 %	63.2 %	21.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	1.1757 ppm	0.0009 ppm	0.0829 ppm	0.0011 ppm	-0.0027 ppm	0.0004 ppm
Concentration per Run 1	-0.0018 ppm	1.1747 ppm	0.0007 ppm	0.0877 ppm	0.0016 ppm	-0.0022 ppm	0.0003 ppm
Concentration per Run 2	-0.0025 ppm	1.1770 ppm	0.0006 ppm	0.0817 ppm	0.0008 ppm	-0.0026 ppm	0.0004 ppm
Concentration per Run 3	-0.0003 ppm	1.1752 ppm	0.0012 ppm	0.0793 ppm	0.0010 ppm	-0.0032 ppm	0.0003 ppm
Concentration RSD	75.1 %	0.1 %	35.4 %	5.2 %	39.5 %	18.6 %	21.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	95.4924 %	98.6949 %	97.7785 %	102.4107 %	96.4926 %	100.9554 %
Concentration per Run 1	0.0021 ppm	89.9739 %	98.6445 %	97.7165 %	97.8583 %	96.2597 %	100.8418 %
Concentration per Run 2	0.0019 ppm	97.5237 %	98.9170 %	97.7710 %	104.0902 %	96.3730 %	101.2580 %
Concentration per Run 3	0.0015 ppm	98.9796 %	98.5233 %	97.8480 %	105.2835 %	96.8452 %	100.7664 %
Concentration RSD	16.6 %	5.1 %	0.2 %	0.1 %	3.9 %	0.3 %	0.3 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:55:35 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5439 ppm	0.5191 ppm	0.5138 ppm	0.5213 ppm	0.5143 ppm	0.5273 ppm	0.5216 ppm
Concentration per Run 1	0.5455 ppm	0.5099 ppm	0.5166 ppm	0.5216 ppm	0.5102 ppm	0.5238 ppm	0.5222 ppm
Concentration per Run 2	0.5429 ppm	0.5179 ppm	0.5135 ppm	0.5211 ppm	0.5202 ppm	0.5324 ppm	0.5209 ppm
Concentration per Run 3	0.5432 ppm	0.5296 ppm	0.5114 ppm	0.5214 ppm	0.5125 ppm	0.5256 ppm	0.5217 ppm
Recovery Percentage 1	108.773 %	103.822 %	102.764 %	104.270 %	102.859 %	105.456 %	104.320 %
Concentration RSD	0.3 %	1.9 %	0.5 %	0.0 %	1.0 %	0.9 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5107 ppm	0.5239 ppm	0.5265 ppm	0.5187 ppm	0.5443 ppm	5.4472 ppm	0.5222 ppm
Concentration per Run 1	0.5121 ppm	0.5250 ppm	0.5274 ppm	0.5187 ppm	0.5399 ppm	5.4020 ppm	0.5197 ppm
Concentration per Run 2	0.5109 ppm	0.5241 ppm	0.5275 ppm	0.5195 ppm	0.5487 ppm	5.5059 ppm	0.5269 ppm
Concentration per Run 3	0.5092 ppm	0.5227 ppm	0.5246 ppm	0.5180 ppm	0.5444 ppm	5.4336 ppm	0.5201 ppm
Recovery Percentage 1	102.141 %	104.787 %	105.297 %	103.747 %	108.864 %	108.943 %	104.444 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.1 %	0.8 %	1.0 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5305 ppm	0.5195 ppm	0.5090 ppm	10.4724 ppm	0.5264 ppm	0.5262 ppm	0.5295 ppm
Concentration per Run 1	0.5274 ppm	0.5160 ppm	0.5056 ppm	10.4268 ppm	0.5278 ppm	0.5280 ppm	0.5294 ppm
Concentration per Run 2	0.5346 ppm	0.5239 ppm	0.5095 ppm	10.5708 ppm	0.5265 ppm	0.5261 ppm	0.5301 ppm
Concentration per Run 3	0.5294 ppm	0.5186 ppm	0.5120 ppm	10.4194 ppm	0.5248 ppm	0.5246 ppm	0.5290 ppm
Recovery Percentage 1	106.096 %	103.903 %	101.810 %	104.724 %	105.271 %	105.245 %	105.903 %
Concentration RSD	0.7 %	0.8 %	0.6 %	0.8 %	0.3 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5300 ppm	5.7760 ppm	0.4928 ppm	0.4921 ppm	0.5326 ppm	0.5208 ppm	0.5156 ppm
Concentration per Run 1	0.5303 ppm	5.7865 ppm	0.4943 ppm	0.4898 ppm	0.5321 ppm	0.5224 ppm	0.5159 ppm
Concentration per Run 2	0.5298 ppm	5.7780 ppm	0.4929 ppm	0.4970 ppm	0.5332 ppm	0.5214 ppm	0.5163 ppm
Concentration per Run 3	0.5299 ppm	5.7635 ppm	0.4912 ppm	0.4895 ppm	0.5324 ppm	0.5185 ppm	0.5148 ppm
Recovery Percentage 1	106.004 %	110.019 %	98.563 %	98.421 %	106.511 %	104.156 %	103.129 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.9 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5197 ppm	96.7644 %	97.3910 %	97.0301 %	103.9746 %	98.2368 %	100.2846 %
Concentration per Run 1	0.5211 ppm	97.1605 %	97.5388 %	97.1760 %	103.2129 %	98.1976 %	100.4022 %
Concentration per Run 2	0.5198 ppm	96.4592 %	96.9118 %	96.9509 %	104.2033 %	98.2122 %	99.7610 %
Concentration per Run 3	0.5181 ppm	96.6734 %	97.7224 %	96.9634 %	104.5077 %	98.3006 %	100.6907 %
Recovery Percentage 1	103.932 %						
Concentration RSD	0.3 %	0.4 %	0.4 %	0.1 %	0.7 %	0.1 %	0.5 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:01:38 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0040 ppm	0.0006 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0005 ppm	-0.0060 ppm	0.0001 ppm	0.0014 ppm	0.0005 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 2	0.0001 ppm	-0.0056 ppm	0.0017 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	-0.0014 ppm
Recovery Percentage 1	3.232 %	-3.987 %	12.558 %	3.745 %	1.055 %	1.323 %	0.529 %
Concentration RSD	92.0 %	77.3 %	153.4 %	31.2 %	311.6 %	52.3 %	688.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0026 ppm	-0.0598 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0028 ppm	-0.0673 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0054 ppm	-0.0774 ppm	-0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	-0.0003 ppm	-0.0349 ppm	-0.0039 ppm
Recovery Percentage 1	-0.516 %	0.504 %	-0.613 %	3.943 %	5.280 %	-2.394 %	-22.538 %
Concentration RSD	123.2 %	121.2 %	91.6 %	54.9 %	107.4 %	37.1 %	93.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0017 ppm	0.0001 ppm	0.0022 ppm	0.0009 ppm	0.0005 ppm	-0.0007 ppm	0.0020 ppm
Concentration per Run 1	-0.0004 ppm	0.0007 ppm	0.0024 ppm	0.0114 ppm	0.0002 ppm	-0.0011 ppm	0.0014 ppm
Concentration per Run 2	-0.0040 ppm	-0.0003 ppm	0.0022 ppm	0.0018 ppm	0.0004 ppm	-0.0005 ppm	0.0023 ppm
Concentration per Run 3	-0.0008 ppm	-0.0002 ppm	0.0020 ppm	-0.0103 ppm	0.0007 ppm	-0.0006 ppm	0.0023 ppm
Recovery Percentage 1	-1.712 %	0.664 %	4.404 %	0.047 %	1.806 %	-7.094 %	4.029 %
Concentration RSD	115.2 %	816.2 %	9.4 %	1,165.1 %	55.2 %	42.5 %	25.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0024 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 1	0.0009 ppm	0.0018 ppm	0.0014 ppm	0.0001 ppm	-0.0004 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	0.0030 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0013 ppm	0.0004 ppm
Concentration per Run 3	0.0008 ppm	0.0025 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0003 ppm
Recovery Percentage 1	5.383 %	0.482 %	1.416 %	0.716 %	-1.224 %	-5.679 %	2.386 %
Concentration RSD	98.8 %	25.6 %	82.8 %	47.3 %	281.0 %	13.5 %	72.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	96.7046 %	99.4594 %	98.8458 %	98.8326 %	99.0411 %	99.7381 %
Concentration per Run 1	0.0005 ppm	93.9167 %	99.7434 %	99.0190 %	95.7718 %	98.6503 %	99.7727 %
Concentration per Run 2	0.0005 ppm	98.1237 %	99.3226 %	98.9946 %	99.3924 %	99.2332 %	99.5380 %
Concentration per Run 3	0.0004 ppm	98.0733 %	99.3121 %	98.5237 %	101.3338 %	99.2397 %	99.9038 %
Recovery Percentage 1	9.564 %						
Concentration RSD	16.7 %	2.5 %	0.2 %	0.3 %	2.9 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-1 WG1976148
Analysis started at: 9/26/2024 4:12:01 PM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0057 ppm	-0.0012 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 1	0.0004 ppm	0.0087 ppm	-0.0020 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0111 ppm
Concentration per Run 2	0.0011 ppm	-0.0172 ppm	-0.0017 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 3	0.0001 ppm	-0.0087 ppm	0.0001 ppm	0.0013 ppm	-0.0001 ppm	-0.0001 ppm	0.0105 ppm
Concentration RSD	95.0 %	230.7 %	92.2 %	14.5 %	79.3 %	514.6 %	25.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0027 ppm	-0.0699 ppm	-0.0023 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0029 ppm	-0.0633 ppm	-0.0030 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0025 ppm	-0.1071 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0025 ppm	-0.0393 ppm	-0.0021 ppm
Concentration RSD	933.4 %	3,231.8 %	356.8 %	40.6 %	7.9 %	49.2 %	30.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0007 ppm	0.0000 ppm	0.0007 ppm	-0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0010 ppm
Concentration per Run 1	0.0017 ppm	-0.0002 ppm	0.0007 ppm	0.0045 ppm	-0.0002 ppm	-0.0010 ppm	0.0027 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0068 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 3	0.0006 ppm	0.0002 ppm	0.0008 ppm	-0.0120 ppm	0.0005 ppm	-0.0011 ppm	0.0004 ppm
Concentration RSD	129.5 %	530.6 %	11.7 %	4,477.5 %	437.9 %	99.3 %	159.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0081 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0026 ppm	0.0002 ppm
Concentration per Run 1	0.0012 ppm	0.0086 ppm	0.0007 ppm	-0.0001 ppm	-0.0006 ppm	-0.0025 ppm	0.0005 ppm
Concentration per Run 2	-0.0016 ppm	0.0082 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0025 ppm	0.0000 ppm
Concentration per Run 3	-0.0015 ppm	0.0075 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0026 ppm	0.0000 ppm
Concentration RSD	248.6 %	6.5 %	69.6 %	285.4 %	141.0 %	2.5 %	162.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	96.4353 %	99.4656 %	98.2307 %	104.5781 %	96.7609 %	101.5636 %
Concentration per Run 1	0.0015 ppm	93.9862 %	100.6450 %	97.6025 %	102.9693 %	96.0806 %	102.7432 %
Concentration per Run 2	0.0015 ppm	96.7834 %	99.3367 %	97.8489 %	104.1896 %	96.4242 %	101.3587 %
Concentration per Run 3	0.0015 ppm	98.5362 %	98.4152 %	99.2407 %	106.5753 %	97.7780 %	100.5888 %
Concentration RSD	0.9 %	2.4 %	1.1 %	0.9 %	1.8 %	0.9 %	1.1 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-3 WG1976148
Analysis started at: 9/26/2024 4:18:20 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0487 ppm	1.9377 ppm	0.1163 ppm	0.9795 ppm	1.9673 ppm	0.0504 ppm	18.7068 ppm
Concentration per Run 1	0.0486 ppm	1.9978 ppm	0.1154 ppm	0.9814 ppm	2.0456 ppm	0.0521 ppm	19.4216 ppm
Concentration per Run 2	0.0495 ppm	1.9231 ppm	0.1142 ppm	0.9746 ppm	1.9421 ppm	0.0499 ppm	18.4907 ppm
Concentration per Run 3	0.0480 ppm	1.8920 ppm	0.1194 ppm	0.9824 ppm	1.9141 ppm	0.0490 ppm	18.2080 ppm
Concentration RSD	1.6 %	2.8 %	2.3 %	0.4 %	3.5 %	3.2 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0512 ppm	0.4826 ppm	0.1951 ppm	0.2508 ppm	1.0135 ppm	13.4320 ppm	0.0004 ppm
Concentration per Run 1	0.0513 ppm	0.4836 ppm	0.1946 ppm	0.2489 ppm	1.0477 ppm	13.9830 ppm	0.0002 ppm
Concentration per Run 2	0.0509 ppm	0.4807 ppm	0.1986 ppm	0.2551 ppm	1.0019 ppm	13.2169 ppm	-0.0007 ppm
Concentration per Run 3	0.0514 ppm	0.4835 ppm	0.1921 ppm	0.2484 ppm	0.9909 ppm	13.0961 ppm	0.0017 ppm
Concentration RSD	0.5 %	0.3 %	1.7 %	1.5 %	3.0 %	3.6 %	309.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.9350 ppm	0.5015 ppm	1.0013 ppm	29.0466 ppm	0.4843 ppm	0.5180 ppm	0.4948 ppm
Concentration per Run 1	11.8726 ppm	0.5204 ppm	1.0000 ppm	30.1846 ppm	0.4853 ppm	0.5186 ppm	0.4962 ppm
Concentration per Run 2	12.1404 ppm	0.4960 ppm	0.9971 ppm	28.6880 ppm	0.4825 ppm	0.5156 ppm	0.4935 ppm
Concentration per Run 3	11.7920 ppm	0.4882 ppm	1.0069 ppm	28.2671 ppm	0.4851 ppm	0.5198 ppm	0.4949 ppm
Concentration RSD	1.5 %	3.4 %	0.5 %	3.5 %	0.3 %	0.4 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1131 ppm	2.0116 ppm	0.9249 ppm	1.0109 ppm	0.9884 ppm	0.1115 ppm	0.4851 ppm
Concentration per Run 1	0.1142 ppm	2.0197 ppm	0.9275 ppm	1.0504 ppm	0.9849 ppm	0.1103 ppm	0.4836 ppm
Concentration per Run 2	0.1116 ppm	1.9993 ppm	0.9213 ppm	0.9984 ppm	1.0042 ppm	0.1111 ppm	0.4926 ppm
Concentration per Run 3	0.1134 ppm	2.0157 ppm	0.9260 ppm	0.9839 ppm	0.9762 ppm	0.1129 ppm	0.4790 ppm
Concentration RSD	1.1 %	0.5 %	0.3 %	3.5 %	1.5 %	1.2 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4782 ppm	96.2879 %	96.8714 %	96.4184 %	106.3157 %	96.4972 %	100.6481 %
Concentration per Run 1	0.4792 ppm	92.7332 %	96.8280 %	96.4958 %	103.9014 %	96.3843 %	100.9879 %
Concentration per Run 2	0.4756 ppm	97.4785 %	95.0078 %	96.7067 %	106.8806 %	96.9155 %	98.8750 %
Concentration per Run 3	0.4798 ppm	98.6521 %	98.7784 %	96.0527 %	108.1652 %	96.1920 %	102.0815 %
Concentration RSD	0.5 %	3.3 %	1.9 %	0.3 %	2.1 %	0.4 %	1.6 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-4 WG1976148
Analysis started at: 9/26/2024 4:24:27 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0088 ppm	-0.0010 ppm	0.0396 ppm	0.0362 ppm	0.0000 ppm	9.1739 ppm
Concentration per Run 1	0.0010 ppm	0.0090 ppm	0.0004 ppm	0.0394 ppm	0.0383 ppm	0.0000 ppm	9.6584 ppm
Concentration per Run 2	0.0001 ppm	0.0118 ppm	-0.0009 ppm	0.0400 ppm	0.0355 ppm	0.0000 ppm	9.0376 ppm
Concentration per Run 3	-0.0004 ppm	0.0055 ppm	-0.0024 ppm	0.0394 ppm	0.0348 ppm	0.0000 ppm	8.8257 ppm
Concentration RSD	273.2 %	36.0 %	142.8 %	0.9 %	5.1 %	116.4 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0074 ppm	3.4060 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0087 ppm	3.6325 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0070 ppm	3.3348 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0011 ppm	0.0066 ppm	3.2508 ppm	-0.0007 ppm
Concentration RSD	91.5 %	239.0 %	86.1 %	2.0 %	15.1 %	5.9 %	138.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4773 ppm	0.0089 ppm	0.0040 ppm	19.4172 ppm	0.0004 ppm	-0.0011 ppm	0.0021 ppm
Concentration per Run 1	2.4714 ppm	0.0093 ppm	0.0044 ppm	20.4433 ppm	0.0004 ppm	-0.0014 ppm	0.0013 ppm
Concentration per Run 2	2.4816 ppm	0.0088 ppm	0.0040 ppm	19.1184 ppm	0.0005 ppm	-0.0010 ppm	0.0036 ppm
Concentration per Run 3	2.4789 ppm	0.0087 ppm	0.0036 ppm	18.6900 ppm	0.0002 ppm	-0.0009 ppm	0.0012 ppm
Concentration RSD	0.2 %	3.5 %	9.1 %	4.7 %	40.2 %	26.3 %	66.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0012 ppm	1.1273 ppm	0.0005 ppm	0.0822 ppm	0.0004 ppm	-0.0026 ppm	0.0005 ppm
Concentration per Run 1	0.0008 ppm	1.1258 ppm	0.0008 ppm	0.0863 ppm	0.0009 ppm	-0.0030 ppm	0.0006 ppm
Concentration per Run 2	-0.0041 ppm	1.1251 ppm	0.0004 ppm	0.0810 ppm	0.0001 ppm	-0.0032 ppm	0.0003 ppm
Concentration per Run 3	-0.0003 ppm	1.1309 ppm	0.0005 ppm	0.0791 ppm	0.0002 ppm	-0.0016 ppm	0.0007 ppm
Concentration RSD	212.3 %	0.3 %	37.0 %	4.6 %	122.8 %	32.7 %	33.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	93.8714 %	97.7907 %	96.6150 %	102.1894 %	97.0143 %	101.5769 %
Concentration per Run 1	0.0008 ppm	89.2879 %	97.8098 %	96.9502 %	98.7525 %	97.3308 %	101.6364 %
Concentration per Run 2	0.0008 ppm	94.8742 %	97.6645 %	96.2854 %	102.4153 %	96.8390 %	101.3968 %
Concentration per Run 3	0.0006 ppm	97.4520 %	97.8980 %	96.6094 %	105.4004 %	96.8731 %	101.6973 %
Concentration RSD	14.5 %	4.4 %	0.1 %	0.3 %	3.3 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-5 WG1976148
Analysis started at: 9/26/2024 4:30:38 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0507 ppm	1.9928 ppm	0.1171 ppm	0.9985 ppm	2.0350 ppm	0.0518 ppm	19.0294 ppm
Concentration per Run 1	0.0509 ppm	2.0534 ppm	0.1165 ppm	0.9983 ppm	2.1058 ppm	0.0533 ppm	19.6451 ppm
Concentration per Run 2	0.0510 ppm	1.9764 ppm	0.1169 ppm	0.9961 ppm	2.0141 ppm	0.0515 ppm	18.8351 ppm
Concentration per Run 3	0.0502 ppm	1.9487 ppm	0.1179 ppm	1.0011 ppm	1.9850 ppm	0.0506 ppm	18.6078 ppm
Concentration RSD	0.9 %	2.7 %	0.6 %	0.3 %	3.1 %	2.7 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0513 ppm	0.4899 ppm	0.1986 ppm	0.2534 ppm	1.0420 ppm	13.8609 ppm	-0.0015 ppm
Concentration per Run 1	0.0512 ppm	0.4897 ppm	0.1977 ppm	0.2529 ppm	1.0740 ppm	14.3126 ppm	-0.0023 ppm
Concentration per Run 2	0.0512 ppm	0.4891 ppm	0.1998 ppm	0.2548 ppm	1.0318 ppm	13.7077 ppm	-0.0003 ppm
Concentration per Run 3	0.0514 ppm	0.4909 ppm	0.1983 ppm	0.2524 ppm	1.0203 ppm	13.5625 ppm	-0.0019 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.5 %	2.7 %	2.9 %	69.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.0933 ppm	0.5173 ppm	1.0345 ppm	29.3439 ppm	0.4906 ppm	0.5223 ppm	0.4961 ppm
Concentration per Run 1	12.0818 ppm	0.5346 ppm	1.0297 ppm	30.3338 ppm	0.4913 ppm	0.5221 ppm	0.4964 ppm
Concentration per Run 2	12.1435 ppm	0.5124 ppm	1.0335 ppm	29.0476 ppm	0.4899 ppm	0.5224 ppm	0.4948 ppm
Concentration per Run 3	12.0547 ppm	0.5049 ppm	1.0403 ppm	28.6502 ppm	0.4906 ppm	0.5224 ppm	0.4971 ppm
Concentration RSD	0.4 %	3.0 %	0.5 %	3.0 %	0.1 %	0.0 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1146 ppm	1.7163 ppm	0.9555 ppm	1.0528 ppm	1.0096 ppm	0.1145 ppm	0.4903 ppm
Concentration per Run 1	0.1163 ppm	1.7168 ppm	0.9568 ppm	1.0892 ppm	1.0075 ppm	0.1145 ppm	0.4904 ppm
Concentration per Run 2	0.1134 ppm	1.7136 ppm	0.9535 ppm	1.0414 ppm	1.0149 ppm	0.1148 ppm	0.4923 ppm
Concentration per Run 3	0.1142 ppm	1.7184 ppm	0.9563 ppm	1.0279 ppm	1.0063 ppm	0.1143 ppm	0.4882 ppm
Concentration RSD	1.3 %	0.1 %	0.2 %	3.1 %	0.5 %	0.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4853 ppm	96.9033 %	97.6579 %	96.5249 %	107.3749 %	96.9250 %	101.5682 %
Concentration per Run 1	0.4852 ppm	93.7663 %	97.7846 %	96.5798 %	104.8381 %	97.0455 %	101.5512 %
Concentration per Run 2	0.4846 ppm	98.0940 %	97.3024 %	96.8263 %	108.3131 %	97.0637 %	101.3187 %
Concentration per Run 3	0.4861 ppm	98.8495 %	97.8868 %	96.1685 %	108.9733 %	96.6658 %	101.8345 %
Concentration RSD	0.2 %	2.8 %	0.3 %	0.3 %	2.1 %	0.2 %	0.3 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-6D5 WG1976148
Analysis started at: 9/26/2024 4:36:41 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0070 ppm	-0.0002 ppm	0.0098 ppm	0.0072 ppm	0.0000 ppm	1.8059 ppm
Concentration per Run 1	0.0005 ppm	0.0061 ppm	0.0004 ppm	0.0100 ppm	0.0074 ppm	0.0000 ppm	1.8074 ppm
Concentration per Run 2	-0.0001 ppm	0.0074 ppm	-0.0001 ppm	0.0099 ppm	0.0070 ppm	0.0000 ppm	1.8066 ppm
Concentration per Run 3	0.0005 ppm	0.0076 ppm	-0.0009 ppm	0.0096 ppm	0.0073 ppm	0.0000 ppm	1.8038 ppm
Concentration RSD	115.6 %	11.7 %	300.6 %	2.1 %	3.0 %	14,422.0 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.6233 ppm	-0.0014 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0006 ppm	0.6343 ppm	-0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0009 ppm	0.6192 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0033 ppm	0.6162 ppm	-0.0004 ppm
Concentration RSD	459.2 %	198.5 %	312.3 %	249.0 %	89.9 %	1.6 %	102.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5251 ppm	0.0016 ppm	0.0030 ppm	3.8545 ppm	0.0003 ppm	-0.0011 ppm	0.0048 ppm
Concentration per Run 1	0.5263 ppm	0.0017 ppm	0.0035 ppm	3.8687 ppm	0.0003 ppm	-0.0021 ppm	0.0041 ppm
Concentration per Run 2	0.5247 ppm	0.0020 ppm	0.0031 ppm	3.8415 ppm	0.0003 ppm	-0.0003 ppm	0.0063 ppm
Concentration per Run 3	0.5243 ppm	0.0012 ppm	0.0025 ppm	3.8534 ppm	0.0002 ppm	-0.0009 ppm	0.0041 ppm
Concentration RSD	0.2 %	23.9 %	15.4 %	0.4 %	32.7 %	82.2 %	26.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.2306 ppm	0.0005 ppm	0.0161 ppm	0.0003 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.2320 ppm	0.0007 ppm	0.0161 ppm	0.0003 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.2306 ppm	0.0005 ppm	0.0162 ppm	0.0005 ppm	-0.0018 ppm	0.0004 ppm
Concentration per Run 3	-0.0018 ppm	0.2291 ppm	0.0005 ppm	0.0160 ppm	0.0002 ppm	-0.0011 ppm	0.0001 ppm
Concentration RSD	400.9 %	0.6 %	26.3 %	0.8 %	35.9 %	30.4 %	217.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	99.9781 %	99.1738 %	98.0257 %	107.6993 %	100.1537 %	102.5313 %
Concentration per Run 1	0.0003 ppm	98.9782 %	98.5543 %	98.1483 %	106.2279 %	100.0003 %	101.9696 %
Concentration per Run 2	0.0004 ppm	100.6659 %	99.9159 %	98.0864 %	108.3013 %	100.2627 %	103.3112 %
Concentration per Run 3	0.0004 ppm	100.2903 %	99.0512 %	97.8423 %	108.5688 %	100.1982 %	102.3132 %
Concentration RSD	15.9 %	0.9 %	0.7 %	0.2 %	1.2 %	0.1 %	0.7 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453855-01d100 WG1975237
Analysis started at: 9/26/2024 4:42:55 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0013 ppm	1.4140 ppm	0.0066 ppm	0.0135 ppm	0.0757 ppm	0.0007 ppm	3.1405 ppm
Concentration per Run 1	0.0016 ppm	1.4269 ppm	0.0068 ppm	0.0134 ppm	0.0773 ppm	0.0006 ppm	3.1984 ppm
Concentration per Run 2	0.0010 ppm	1.4069 ppm	0.0071 ppm	0.0137 ppm	0.0750 ppm	0.0008 ppm	3.1159 ppm
Concentration per Run 3	0.0013 ppm	1.4082 ppm	0.0058 ppm	0.0135 ppm	0.0748 ppm	0.0007 ppm	3.1072 ppm
Concentration RSD	24.2 %	0.8 %	10.2 %	1.1 %	1.9 %	8.6 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0005 ppm	0.0073 ppm	0.0336 ppm	18.4045 ppm	15.2056 ppm	0.1690 ppm	-0.0007 ppm
Concentration per Run 1	0.0005 ppm	0.0073 ppm	0.0338 ppm	18.4641 ppm	15.3933 ppm	0.1891 ppm	0.0010 ppm
Concentration per Run 2	0.0005 ppm	0.0072 ppm	0.0338 ppm	18.3359 ppm	15.1079 ppm	0.2096 ppm	-0.0018 ppm
Concentration per Run 3	0.0005 ppm	0.0073 ppm	0.0332 ppm	18.4136 ppm	15.1155 ppm	0.1084 ppm	-0.0014 ppm
Concentration RSD	6.5 %	0.9 %	1.1 %	0.4 %	1.1 %	31.7 %	207.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6302 ppm	0.1118 ppm	0.0172 ppm	0.2571 ppm	0.0429 ppm	0.0915 ppm	0.0030 ppm
Concentration per Run 1	0.6277 ppm	0.1140 ppm	0.0171 ppm	0.2541 ppm	0.0433 ppm	0.0907 ppm	0.0030 ppm
Concentration per Run 2	0.6304 ppm	0.1105 ppm	0.0173 ppm	0.2719 ppm	0.0428 ppm	0.0922 ppm	0.0026 ppm
Concentration per Run 3	0.6324 ppm	0.1109 ppm	0.0172 ppm	0.2454 ppm	0.0427 ppm	0.0917 ppm	0.0033 ppm
Concentration RSD	0.4 %	1.7 %	0.5 %	5.2 %	0.7 %	0.8 %	11.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	0.4705 ppm	0.0298 ppm	0.0262 ppm	0.0709 ppm	-0.0008 ppm	0.0043 ppm
Concentration per Run 1	-0.0019 ppm	0.4691 ppm	0.0296 ppm	0.0266 ppm	0.0711 ppm	-0.0020 ppm	0.0042 ppm
Concentration per Run 2	-0.0004 ppm	0.4724 ppm	0.0300 ppm	0.0260 ppm	0.0709 ppm	-0.0010 ppm	0.0042 ppm
Concentration per Run 3	0.0002 ppm	0.4701 ppm	0.0299 ppm	0.0260 ppm	0.0706 ppm	0.0005 ppm	0.0046 ppm
Concentration RSD	151.0 %	0.4 %	0.7 %	1.2 %	0.4 %	146.8 %	5.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	4.3699 ppm	99.5130 %	99.8546 %	90.9864 %	105.8941 %	101.1355 %	102.9304 %
Concentration per Run 1	4.3816 ppm	98.3392 %	100.0752 %	91.0084 %	104.2312 %	100.8872 %	103.1333 %
Concentration per Run 2	4.3700 ppm	99.8315 %	99.7564 %	91.0648 %	106.0700 %	101.2493 %	102.6897 %
Concentration per Run 3	4.3582 ppm	100.3684 %	99.7320 %	90.8860 %	107.3813 %	101.2699 %	102.9681 %
Concentration RSD	0.3 %	1.1 %	0.2 %	0.1 %	1.5 %	0.2 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453855-02d10 WG1975237
Analysis started at: 9/26/2024 4:49:16 PM
Comments CU Fe Zn ldr
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0039 ppm	15.7266 ppm	0.1176 ppm	0.0659 ppm	0.1705 ppm	0.0039 ppm	14.7993 ppm
Concentration per Run 1	0.0036 ppm	16.0852 ppm	0.1175 ppm	0.0662 ppm	0.1746 ppm	0.0040 ppm	15.1538 ppm
Concentration per Run 2	0.0043 ppm	15.6440 ppm	0.1183 ppm	0.0660 ppm	0.1698 ppm	0.0039 ppm	14.7047 ppm
Concentration per Run 3	0.0038 ppm	15.4507 ppm	0.1170 ppm	0.0655 ppm	0.1673 ppm	0.0038 ppm	14.5394 ppm
Concentration RSD	9.5 %	2.1 %	0.6 %	0.6 %	2.2 %	2.5 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0057 ppm	0.0714 ppm	0.2154 ppm	5.7714 ppm	125.1131 ppm	2.8841 ppm	0.0137 ppm
Concentration per Run 1	0.0057 ppm	0.0716 ppm	0.2149 ppm	5.7764 ppm	127.9881 ppm	2.9408 ppm	0.0148 ppm
Concentration per Run 2	0.0057 ppm	0.0716 ppm	0.2158 ppm	5.7677 ppm	122.7128 ppm	2.8721 ppm	0.0155 ppm
Concentration per Run 3	0.0057 ppm	0.0712 ppm	0.2156 ppm	5.7702 ppm	124.6383 ppm	2.8395 ppm	0.0108 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	0.1 %	2.1 %	1.8 %	18.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.3252 ppm	0.6887 ppm	0.2458 ppm	11.5345 ppm	0.2009 ppm	0.8358 ppm	0.0334 ppm
Concentration per Run 1	10.3120 ppm	0.7051 ppm	0.2434 ppm	11.7943 ppm	0.2009 ppm	0.8355 ppm	0.0323 ppm
Concentration per Run 2	10.3221 ppm	0.6843 ppm	0.2462 ppm	11.4695 ppm	0.2010 ppm	0.8378 ppm	0.0337 ppm
Concentration per Run 3	10.3415 ppm	0.6767 ppm	0.2476 ppm	11.3399 ppm	0.2008 ppm	0.8342 ppm	0.0344 ppm
Concentration RSD	0.1 %	2.1 %	0.9 %	2.0 %	0.0 %	0.2 %	3.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	3.8310 ppm	0.1221 ppm	0.1093 ppm	0.8651 ppm	0.0018 ppm	0.1001 ppm
Concentration per Run 1	0.0031 ppm	3.8302 ppm	0.1224 ppm	0.1117 ppm	0.8641 ppm	0.0018 ppm	0.0999 ppm
Concentration per Run 2	0.0015 ppm	3.8343 ppm	0.1220 ppm	0.1086 ppm	0.8645 ppm	0.0024 ppm	0.1003 ppm
Concentration per Run 3	0.0002 ppm	3.8283 ppm	0.1218 ppm	0.1075 ppm	0.8665 ppm	0.0011 ppm	0.1001 ppm
Concentration RSD	92.9 %	0.1 %	0.2 %	2.0 %	0.1 %	34.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	6.5356 ppm	101.3730 %	102.0939 %	98.7242 %	108.3669 %	98.1118 %	102.8390 %
Concentration per Run 1	6.5429 ppm	98.9588 %	102.3296 %	98.9088 %	105.5301 %	98.0353 %	103.1297 %
Concentration per Run 2	6.5365 ppm	102.5381 %	101.9156 %	98.6972 %	109.6595 %	98.1304 %	102.6815 %
Concentration per Run 3	6.5275 ppm	102.6220 %	102.0365 %	98.5667 %	109.9111 %	98.1698 %	102.7059 %
Concentration RSD	0.1 %	2.1 %	0.2 %	0.2 %	2.3 %	0.1 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:04:36 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5375 ppm	0.4970 ppm	0.5072 ppm	0.5148 ppm	0.4910 ppm	0.5033 ppm	0.4907 ppm
Concentration per Run 1	0.5368 ppm	0.4932 ppm	0.5073 ppm	0.5137 ppm	0.4907 ppm	0.5018 ppm	0.4827 ppm
Concentration per Run 2	0.5371 ppm	0.4851 ppm	0.5087 ppm	0.5152 ppm	0.4875 ppm	0.5013 ppm	0.4841 ppm
Concentration per Run 3	0.5385 ppm	0.5128 ppm	0.5055 ppm	0.5155 ppm	0.4947 ppm	0.5068 ppm	0.5053 ppm
Recovery Percentage 1	107.498 %	99.408 %	101.435 %	102.956 %	98.200 %	100.660 %	98.136 %
Concentration RSD	0.2 %	2.9 %	0.3 %	0.2 %	0.7 %	0.6 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5049 ppm	0.5175 ppm	0.5202 ppm	0.5075 ppm	0.5057 ppm	5.2217 ppm	0.5009 ppm
Concentration per Run 1	0.5041 ppm	0.5165 ppm	0.5191 ppm	0.5080 ppm	0.4998 ppm	5.2145 ppm	0.4989 ppm
Concentration per Run 2	0.5054 ppm	0.5183 ppm	0.5197 ppm	0.5072 ppm	0.5061 ppm	5.2083 ppm	0.4993 ppm
Concentration per Run 3	0.5051 ppm	0.5177 ppm	0.5217 ppm	0.5074 ppm	0.5111 ppm	5.2424 ppm	0.5046 ppm
Recovery Percentage 1	100.970 %	103.496 %	104.033 %	101.506 %	101.136 %	104.435 %	100.187 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.1 %	1.1 %	0.3 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5246 ppm	0.4954 ppm	0.5013 ppm	10.0004 ppm	0.5211 ppm	0.5212 ppm	0.5213 ppm
Concentration per Run 1	0.5247 ppm	0.4937 ppm	0.4958 ppm	9.9928 ppm	0.5206 ppm	0.5207 ppm	0.5184 ppm
Concentration per Run 2	0.5246 ppm	0.4926 ppm	0.5026 ppm	9.9499 ppm	0.5217 ppm	0.5204 ppm	0.5225 ppm
Concentration per Run 3	0.5245 ppm	0.4998 ppm	0.5054 ppm	10.0584 ppm	0.5212 ppm	0.5225 ppm	0.5231 ppm
Recovery Percentage 1	104.919 %	99.074 %	100.256 %	100.004 %	104.229 %	104.240 %	104.262 %
Concentration RSD	0.0 %	0.8 %	1.0 %	0.5 %	0.1 %	0.2 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5236 ppm	5.7108 ppm	0.4891 ppm	0.4696 ppm	0.5248 ppm	0.5133 ppm	0.5071 ppm
Concentration per Run 1	0.5245 ppm	5.7065 ppm	0.4890 ppm	0.4687 ppm	0.5247 ppm	0.5127 ppm	0.5076 ppm
Concentration per Run 2	0.5247 ppm	5.7141 ppm	0.4899 ppm	0.4673 ppm	0.5241 ppm	0.5145 ppm	0.5068 ppm
Concentration per Run 3	0.5218 ppm	5.7119 ppm	0.4884 ppm	0.4729 ppm	0.5254 ppm	0.5126 ppm	0.5069 ppm
Recovery Percentage 1	104.729 %	108.778 %	97.826 %	93.920 %	104.951 %	102.656 %	101.429 %
Concentration RSD	0.3 %	0.1 %	0.2 %	0.6 %	0.1 %	0.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5149 ppm	100.2696 %	99.0222 %	98.3385 %	108.3046 %	99.4292 %	101.5886 %
Concentration per Run 1	0.5143 ppm	100.1233 %	99.2490 %	98.5378 %	108.3871 %	99.6963 %	101.9495 %
Concentration per Run 2	0.5155 ppm	100.7317 %	98.8677 %	98.3190 %	108.0788 %	99.3887 %	101.4195 %
Concentration per Run 3	0.5150 ppm	99.9538 %	98.9501 %	98.1587 %	108.4480 %	99.2025 %	101.3967 %
Recovery Percentage 1	102.987 %						
Concentration RSD	0.1 %	0.4 %	0.2 %	0.2 %	0.2 %	0.3 %	0.3 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:10:39 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0031 ppm	0.0000 ppm	0.0011 ppm	0.0006 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	0.0006 ppm	-0.0012 ppm	-0.0007 ppm	0.0017 ppm	0.0011 ppm	0.0010 ppm	-0.0024 ppm
Concentration per Run 2	-0.0002 ppm	0.0071 ppm	0.0001 ppm	0.0009 ppm	0.0005 ppm	0.0005 ppm	0.0050 ppm
Concentration per Run 3	0.0005 ppm	0.0036 ppm	0.0005 ppm	0.0007 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm
Recovery Percentage 1	4.081 %	3.149 %	-0.825 %	3.691 %	6.412 %	12.325 %	0.807 %
Concentration RSD	141.3 %	132.5 %	1,489.4 %	47.9 %	62.1 %	50.5 %	470.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0016 ppm	-0.0846 ppm	-0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0026 ppm	-0.0449 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0013 ppm	-0.0815 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0007 ppm	-0.1274 ppm	-0.0018 ppm
Recovery Percentage 1	0.646 %	0.327 %	-0.848 %	5.793 %	3.117 %	-3.385 %	-19.878 %
Concentration RSD	99.2 %	132.8 %	552.7 %	49.0 %	61.9 %	48.8 %	75.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0022 ppm	-0.0028 ppm	0.0004 ppm	-0.0010 ppm	0.0022 ppm
Concentration per Run 1	-0.0003 ppm	0.0013 ppm	0.0022 ppm	-0.0056 ppm	0.0005 ppm	-0.0018 ppm	0.0028 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0024 ppm	-0.0088 ppm	0.0002 ppm	-0.0006 ppm	0.0021 ppm
Concentration per Run 3	-0.0013 ppm	0.0002 ppm	0.0020 ppm	0.0061 ppm	0.0005 ppm	-0.0007 ppm	0.0019 ppm
Recovery Percentage 1	-0.292 %	5.591 %	4.438 %	-0.138 %	1.525 %	-10.409 %	4.490 %
Concentration RSD	344.6 %	114.4 %	8.9 %	282.8 %	43.8 %	65.9 %	19.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0019 ppm	0.0021 ppm	0.0005 ppm	0.0007 ppm	-0.0001 ppm	-0.0020 ppm	0.0003 ppm
Concentration per Run 1	-0.0058 ppm	0.0019 ppm	0.0006 ppm	0.0011 ppm	-0.0002 ppm	-0.0013 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0025 ppm	0.0006 ppm	0.0004 ppm	-0.0001 ppm	-0.0031 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0018 ppm	0.0004 ppm	0.0006 ppm	0.0000 ppm	-0.0015 ppm	0.0001 ppm
Recovery Percentage 1	-19.281 %	0.413 %	1.072 %	6.621 %	-0.963 %	-9.936 %	3.084 %
Concentration RSD	173.9 %	17.4 %	19.1 %	52.8 %	75.8 %	50.7 %	89.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	96.1818 %	98.5502 %	98.0272 %	97.8537 %	98.1649 %	98.4574 %
Concentration per Run 1	0.0004 ppm	94.5072 %	98.3091 %	98.0865 %	94.6093 %	97.9567 %	97.8948 %
Concentration per Run 2	0.0004 ppm	96.5936 %	98.3576 %	98.0318 %	98.2377 %	98.1759 %	98.2969 %
Concentration per Run 3	0.0004 ppm	97.4446 %	98.9839 %	97.9635 %	100.7140 %	98.3622 %	99.1804 %
Recovery Percentage 1	7.323 %						
Concentration RSD	3.6 %	1.6 %	0.4 %	0.1 %	3.1 %	0.2 %	0.7 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-1 WG1975352
Analysis started at: 9/26/2024 5:18:40 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0127 ppm	0.0002 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0095 ppm
Concentration per Run 1	0.0008 ppm	0.0060 ppm	0.0020 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 2	0.0006 ppm	0.0156 ppm	-0.0007 ppm	0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 3	-0.0002 ppm	0.0166 ppm	-0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0098 ppm
Concentration RSD	123.9 %	46.2 %	785.8 %	30.6 %	216.8 %	684.3 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0289 ppm	-0.0643 ppm	-0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0299 ppm	-0.0811 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0273 ppm	-0.0760 ppm	-0.0037 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0296 ppm	-0.0358 ppm	-0.0025 ppm
Concentration RSD	354.0 %	158.3 %	65.8 %	1,246.2 %	4.9 %	38.6 %	38.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0031 ppm	0.0004 ppm	0.0008 ppm	0.0182 ppm	0.0004 ppm	-0.0009 ppm	0.0021 ppm
Concentration per Run 1	0.0022 ppm	0.0001 ppm	0.0008 ppm	0.0135 ppm	0.0007 ppm	-0.0013 ppm	0.0022 ppm
Concentration per Run 2	0.0024 ppm	0.0006 ppm	0.0008 ppm	0.0155 ppm	0.0002 ppm	-0.0010 ppm	0.0018 ppm
Concentration per Run 3	0.0047 ppm	0.0004 ppm	0.0007 ppm	0.0254 ppm	0.0003 ppm	-0.0006 ppm	0.0022 ppm
Concentration RSD	45.2 %	70.2 %	12.5 %	35.1 %	62.9 %	38.4 %	11.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0080 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm	-0.0022 ppm	0.0001 ppm
Concentration per Run 1	-0.0030 ppm	0.0081 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0023 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	0.0080 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	0.0080 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	-0.0025 ppm	0.0003 ppm
Concentration RSD	328.7 %	1.0 %	48.8 %	629.2 %	123.0 %	12.3 %	114.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	100.3727 %	100.7294 %	99.1471 %	107.9407 %	99.6330 %	103.3044 %
Concentration per Run 1	0.0018 ppm	100.6124 %	101.0429 %	99.0464 %	108.1930 %	99.4045 %	103.6491 %
Concentration per Run 2	0.0019 ppm	101.8047 %	100.7775 %	99.1154 %	108.9725 %	99.3404 %	103.2805 %
Concentration per Run 3	0.0018 ppm	98.7010 %	100.3678 %	99.2794 %	106.6565 %	100.1541 %	102.9837 %
Concentration RSD	3.3 %	1.6 %	0.3 %	0.1 %	1.1 %	0.5 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-2d2 WG1975352
Analysis started at: 9/26/2024 5:24:59 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0565 ppm	2.2263 ppm	0.1270 ppm	1.0350 ppm	2.2088 ppm	0.0570 ppm	10.8310 ppm
Concentration per Run 1	0.0567 ppm	2.1714 ppm	0.1282 ppm	1.0474 ppm	2.1569 ppm	0.0557 ppm	10.5811 ppm
Concentration per Run 2	0.0566 ppm	2.2707 ppm	0.1282 ppm	1.0346 ppm	2.2439 ppm	0.0578 ppm	10.9932 ppm
Concentration per Run 3	0.0561 ppm	2.2368 ppm	0.1247 ppm	1.0231 ppm	2.2256 ppm	0.0576 ppm	10.9187 ppm
Concentration RSD	0.6 %	2.3 %	1.6 %	1.2 %	2.1 %	2.0 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0558 ppm	0.5350 ppm	0.2213 ppm	0.2797 ppm	1.1610 ppm	11.3395 ppm	-0.0015 ppm
Concentration per Run 1	0.0564 ppm	0.5420 ppm	0.2221 ppm	0.2797 ppm	1.1290 ppm	11.0689 ppm	-0.0008 ppm
Concentration per Run 2	0.0557 ppm	0.5341 ppm	0.2206 ppm	0.2798 ppm	1.1800 ppm	11.5333 ppm	-0.0017 ppm
Concentration per Run 3	0.0552 ppm	0.5288 ppm	0.2211 ppm	0.2795 ppm	1.1742 ppm	11.4163 ppm	-0.0020 ppm
Concentration RSD	1.1 %	1.2 %	0.3 %	0.1 %	2.4 %	2.1 %	41.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.5703 ppm	0.5677 ppm	1.0575 ppm	11.7738 ppm	0.5352 ppm	0.5592 ppm	0.5444 ppm
Concentration per Run 1	10.5866 ppm	0.5538 ppm	1.0586 ppm	11.7337 ppm	0.5420 ppm	0.5659 ppm	0.5483 ppm
Concentration per Run 2	10.5744 ppm	0.5775 ppm	1.0578 ppm	11.8765 ppm	0.5343 ppm	0.5587 ppm	0.5467 ppm
Concentration per Run 3	10.5500 ppm	0.5717 ppm	1.0561 ppm	11.7112 ppm	0.5292 ppm	0.5530 ppm	0.5381 ppm
Concentration RSD	0.2 %	2.2 %	0.1 %	0.8 %	1.2 %	1.2 %	1.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1245 ppm	0.8270 ppm	0.9896 ppm	1.0491 ppm	1.0825 ppm	0.1237 ppm	0.5422 ppm
Concentration per Run 1	0.1257 ppm	0.8365 ppm	1.0025 ppm	1.0251 ppm	1.0843 ppm	0.1238 ppm	0.5433 ppm
Concentration per Run 2	0.1269 ppm	0.8262 ppm	0.9885 ppm	1.0645 ppm	1.0824 ppm	0.1254 ppm	0.5420 ppm
Concentration per Run 3	0.1210 ppm	0.8183 ppm	0.9779 ppm	1.0576 ppm	1.0808 ppm	0.1219 ppm	0.5412 ppm
Concentration RSD	2.5 %	1.1 %	1.2 %	2.0 %	0.2 %	1.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5352 ppm	93.4834 %	95.6614 %	94.5764 %	101.2703 %	96.7583 %	99.9708 %
Concentration per Run 1	0.5425 ppm	95.1973 %	95.3695 %	94.7234 %	101.1015 %	96.5666 %	99.7314 %
Concentration per Run 2	0.5341 ppm	92.1915 %	95.5296 %	94.5070 %	100.6021 %	96.8443 %	99.6681 %
Concentration per Run 3	0.5291 ppm	93.0613 %	96.0851 %	94.4989 %	102.1073 %	96.8640 %	100.5129 %
Concentration RSD	1.3 %	1.7 %	0.4 %	0.1 %	0.8 %	0.2 %	0.5 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-01d2 WG1975352
Analysis started at: 9/26/2024 5:31:06 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	109.0124 ppm	0.3802 ppm	0.0060 ppm	0.1933 ppm	0.0045 ppm	4.9237 ppm
Concentration per Run 1	0.0024 ppm	108.6247 ppm	0.3784 ppm	0.0064 ppm	0.1928 ppm	0.0045 ppm	4.9017 ppm
Concentration per Run 2	0.0025 ppm	108.7456 ppm	0.3817 ppm	0.0061 ppm	0.1927 ppm	0.0044 ppm	4.9190 ppm
Concentration per Run 3	0.0020 ppm	109.6668 ppm	0.3806 ppm	0.0057 ppm	0.1944 ppm	0.0046 ppm	4.9503 ppm
Concentration RSD	12.9 %	0.5 %	0.4 %	5.4 %	0.5 %	1.3 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0365 ppm	0.1516 ppm	0.0674 ppm	92.4243 ppm	5.4803 ppm	0.0857 ppm
Concentration per Run 1	0.0018 ppm	0.0364 ppm	0.1512 ppm	0.0672 ppm	91.9837 ppm	5.5007 ppm	0.0848 ppm
Concentration per Run 2	0.0018 ppm	0.0364 ppm	0.1517 ppm	0.0670 ppm	92.2353 ppm	5.4472 ppm	0.0867 ppm
Concentration per Run 3	0.0018 ppm	0.0366 ppm	0.1518 ppm	0.0679 ppm	93.0538 ppm	5.4929 ppm	0.0857 ppm
Concentration RSD	1.1 %	0.3 %	0.2 %	0.7 %	0.6 %	0.5 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.7653 ppm	1.6264 ppm	0.0064 ppm	0.3823 ppm	0.0804 ppm	1.2770 ppm	0.0096 ppm
Concentration per Run 1	13.7655 ppm	1.6213 ppm	0.0071 ppm	0.3777 ppm	0.0802 ppm	1.2731 ppm	0.0105 ppm
Concentration per Run 2	13.7507 ppm	1.6238 ppm	0.0062 ppm	0.3743 ppm	0.0807 ppm	1.2774 ppm	0.0106 ppm
Concentration per Run 3	13.7797 ppm	1.6342 ppm	0.0059 ppm	0.3949 ppm	0.0803 ppm	1.2805 ppm	0.0078 ppm
Concentration RSD	0.1 %	0.4 %	9.5 %	2.9 %	0.3 %	0.3 %	16.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0067 ppm	4.8964 ppm	0.0089 ppm	0.0225 ppm	2.7052 ppm	0.0020 ppm	0.1742 ppm
Concentration per Run 1	0.0054 ppm	4.8714 ppm	0.0085 ppm	0.0224 ppm	2.7045 ppm	0.0025 ppm	0.1743 ppm
Concentration per Run 2	0.0080 ppm	4.8971 ppm	0.0092 ppm	0.0225 ppm	2.7056 ppm	0.0016 ppm	0.1742 ppm
Concentration per Run 3	0.0067 ppm	4.9208 ppm	0.0089 ppm	0.0226 ppm	2.7055 ppm	0.0019 ppm	0.1743 ppm
Concentration RSD	18.9 %	0.5 %	3.8 %	0.5 %	0.0 %	23.1 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4076 ppm	109.4789 %	106.7355 %	105.3818 %	117.1871 %	100.0938 %	107.0320 %
Concentration per Run 1	0.4057 ppm	109.3260 %	106.6021 %	105.8330 %	117.3053 %	100.7550 %	106.8116 %
Concentration per Run 2	0.4086 ppm	109.9761 %	107.1427 %	105.2353 %	117.2947 %	99.9563 %	107.4505 %
Concentration per Run 3	0.4085 ppm	109.1345 %	106.4616 %	105.0771 %	116.9612 %	99.5701 %	106.8339 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.4 %	0.2 %	0.6 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-3d2 WG1975352
Analysis started at: 9/26/2024 5:37:15 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0474 ppm	101.8731 ppm	0.4581 ppm	0.7840 ppm	1.8086 ppm	0.0461 ppm	13.0905 ppm
Concentration per Run 1	0.0474 ppm	117.1326 ppm	0.4577 ppm	0.7857 ppm	2.0798 ppm	0.0528 ppm	15.0476 ppm
Concentration per Run 2	0.0475 ppm	94.5733 ppm	0.4586 ppm	0.7839 ppm	1.6799 ppm	0.0429 ppm	12.1599 ppm
Concentration per Run 3	0.0473 ppm	93.9134 ppm	0.4580 ppm	0.7824 ppm	1.6660 ppm	0.0426 ppm	12.0640 ppm
Concentration RSD	0.3 %	13.0 %	0.1 %	0.2 %	13.0 %	12.6 %	13.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0465 ppm	0.4535 ppm	0.3014 ppm	0.2844 ppm	89.9467 ppm	13.9714 ppm	0.0894 ppm
Concentration per Run 1	0.0465 ppm	0.4546 ppm	0.3006 ppm	0.2841 ppm	103.2025 ppm	16.0731 ppm	0.1022 ppm
Concentration per Run 2	0.0465 ppm	0.4538 ppm	0.3030 ppm	0.2842 ppm	83.6063 ppm	12.9912 ppm	0.0822 ppm
Concentration per Run 3	0.0463 ppm	0.4520 ppm	0.3006 ppm	0.2850 ppm	83.0313 ppm	12.8499 ppm	0.0837 ppm
Concentration RSD	0.2 %	0.3 %	0.5 %	0.2 %	12.8 %	13.0 %	12.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	23.0115 ppm	1.9130 ppm	0.8568 ppm	9.3119 ppm	0.4966 ppm	1.6025 ppm	0.4355 ppm
Concentration per Run 1	22.9883 ppm	2.1950 ppm	0.8544 ppm	10.6894 ppm	0.4980 ppm	1.6076 ppm	0.4394 ppm
Concentration per Run 2	23.0317 ppm	1.7792 ppm	0.8580 ppm	8.7879 ppm	0.4967 ppm	1.6038 ppm	0.4349 ppm
Concentration per Run 3	23.0145 ppm	1.7649 ppm	0.8581 ppm	8.4584 ppm	0.4950 ppm	1.5960 ppm	0.4322 ppm
Concentration RSD	0.1 %	12.8 %	0.2 %	12.9 %	0.3 %	0.4 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1053 ppm	7.4438 ppm	0.7912 ppm	0.7959 ppm	3.8966 ppm	0.1006 ppm	0.5830 ppm
Concentration per Run 1	0.1059 ppm	7.4291 ppm	0.7931 ppm	0.9137 ppm	3.8959 ppm	0.1002 ppm	0.5831 ppm
Concentration per Run 2	0.1068 ppm	7.4505 ppm	0.7910 ppm	0.7404 ppm	3.9017 ppm	0.0998 ppm	0.5833 ppm
Concentration per Run 3	0.1032 ppm	7.4517 ppm	0.7895 ppm	0.7335 ppm	3.8922 ppm	0.1017 ppm	0.5825 ppm
Concentration RSD	1.8 %	0.2 %	0.2 %	12.8 %	0.1 %	1.0 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.8277 ppm	105.6863 %	104.3779 %	103.0573 %	112.2779 %	98.6597 %	105.1811 %
Concentration per Run 1	0.8289 ppm	91.3163 %	104.0227 %	103.1033 %	96.8944 %	98.7700 %	104.8784 %
Concentration per Run 2	0.8285 ppm	112.4138 %	104.4358 %	102.8826 %	117.8381 %	98.6012 %	105.1165 %
Concentration per Run 3	0.8257 ppm	113.3287 %	104.6753 %	103.1860 %	122.1010 %	98.6079 %	105.5486 %
Concentration RSD	0.2 %	11.8 %	0.3 %	0.2 %	12.0 %	0.1 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-4d2 WG1975352
Analysis started at: 9/26/2024 5:43:45 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0019 ppm	106.4626 ppm	0.3715 ppm	0.0057 ppm	0.2006 ppm	0.0044 ppm	5.3973 ppm
Concentration per Run 1	0.0019 ppm	106.4341 ppm	0.3745 ppm	0.0060 ppm	0.2006 ppm	0.0043 ppm	5.3979 ppm
Concentration per Run 2	0.0019 ppm	106.4111 ppm	0.3707 ppm	0.0059 ppm	0.2005 ppm	0.0044 ppm	5.4072 ppm
Concentration per Run 3	0.0020 ppm	106.5427 ppm	0.3692 ppm	0.0053 ppm	0.2007 ppm	0.0044 ppm	5.3867 ppm
Concentration RSD	2.4 %	0.1 %	0.7 %	6.3 %	0.1 %	0.7 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0311 ppm	0.1569 ppm	0.0684 ppm	92.3984 ppm	6.2371 ppm	0.0870 ppm
Concentration per Run 1	0.0018 ppm	0.0313 ppm	0.1569 ppm	0.0682 ppm	92.3325 ppm	6.2316 ppm	0.0869 ppm
Concentration per Run 2	0.0018 ppm	0.0312 ppm	0.1568 ppm	0.0685 ppm	92.2933 ppm	6.2278 ppm	0.0854 ppm
Concentration per Run 3	0.0017 ppm	0.0309 ppm	0.1570 ppm	0.0684 ppm	92.5695 ppm	6.2517 ppm	0.0886 ppm
Concentration RSD	2.8 %	0.7 %	0.1 %	0.2 %	0.2 %	0.2 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.7251 ppm	1.7054 ppm	0.0055 ppm	0.3623 ppm	0.0779 ppm	1.2597 ppm	0.0100 ppm
Concentration per Run 1	14.7254 ppm	1.7073 ppm	0.0057 ppm	0.3557 ppm	0.0786 ppm	1.2698 ppm	0.0092 ppm
Concentration per Run 2	14.7509 ppm	1.7035 ppm	0.0054 ppm	0.3752 ppm	0.0780 ppm	1.2598 ppm	0.0111 ppm
Concentration per Run 3	14.6989 ppm	1.7053 ppm	0.0053 ppm	0.3559 ppm	0.0772 ppm	1.2496 ppm	0.0097 ppm
Concentration RSD	0.2 %	0.1 %	4.1 %	3.1 %	0.9 %	0.8 %	9.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0058 ppm	5.2380 ppm	0.0089 ppm	0.0226 ppm	2.7414 ppm	0.0015 ppm	0.1757 ppm
Concentration per Run 1	0.0059 ppm	5.2631 ppm	0.0090 ppm	0.0228 ppm	2.7401 ppm	0.0024 ppm	0.1757 ppm
Concentration per Run 2	0.0071 ppm	5.2556 ppm	0.0086 ppm	0.0228 ppm	2.7442 ppm	0.0015 ppm	0.1763 ppm
Concentration per Run 3	0.0045 ppm	5.1953 ppm	0.0090 ppm	0.0223 ppm	2.7398 ppm	0.0006 ppm	0.1749 ppm
Concentration RSD	22.2 %	0.7 %	2.6 %	1.1 %	0.1 %	61.1 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4167 ppm	107.8441 %	105.2622 %	104.4188 %	114.3384 %	99.0259 %	105.1160 %
Concentration per Run 1	0.4196 ppm	107.2031 %	105.0399 %	104.4910 %	113.4008 %	98.9560 %	104.9290 %
Concentration per Run 2	0.4170 ppm	108.2396 %	105.3186 %	104.4423 %	114.8639 %	99.0159 %	105.0771 %
Concentration per Run 3	0.4134 ppm	108.0897 %	105.4281 %	104.3232 %	114.7506 %	99.1056 %	105.3418 %
Concentration RSD	0.8 %	0.5 %	0.2 %	0.1 %	0.7 %	0.1 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-5d2 WG1975352
Analysis started at: 9/26/2024 5:49:50 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0545 ppm	119.3341 ppm	0.5053 ppm	1.0057 ppm	2.2136 ppm	0.0561 ppm	15.1562 ppm
Concentration per Run 1	0.0545 ppm	120.0520 ppm	0.5067 ppm	1.0066 ppm	2.2260 ppm	0.0561 ppm	15.2535 ppm
Concentration per Run 2	0.0552 ppm	120.4754 ppm	0.5054 ppm	1.0066 ppm	2.2348 ppm	0.0567 ppm	15.3070 ppm
Concentration per Run 3	0.0539 ppm	117.4749 ppm	0.5040 ppm	1.0039 ppm	2.1799 ppm	0.0554 ppm	14.9081 ppm
Concentration RSD	1.2 %	1.4 %	0.3 %	0.2 %	1.3 %	1.2 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0546 ppm	0.5384 ppm	0.3541 ppm	0.3333 ppm	100.4270 ppm	16.3693 ppm	0.0913 ppm
Concentration per Run 1	0.0546 ppm	0.5392 ppm	0.3545 ppm	0.3337 ppm	100.8227 ppm	16.4554 ppm	0.0931 ppm
Concentration per Run 2	0.0546 ppm	0.5386 ppm	0.3532 ppm	0.3341 ppm	101.4522 ppm	16.4955 ppm	0.0922 ppm
Concentration per Run 3	0.0545 ppm	0.5375 ppm	0.3546 ppm	0.3320 ppm	99.0062 ppm	16.1571 ppm	0.0885 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.3 %	1.3 %	1.1 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	23.7187 ppm	2.2399 ppm	1.0343 ppm	11.7151 ppm	0.5782 ppm	1.7963 ppm	0.5255 ppm
Concentration per Run 1	23.7248 ppm	2.2485 ppm	1.0275 ppm	11.8244 ppm	0.5792 ppm	1.7994 ppm	0.5262 ppm
Concentration per Run 2	23.7074 ppm	2.2649 ppm	1.0365 ppm	11.8446 ppm	0.5786 ppm	1.7981 ppm	0.5265 ppm
Concentration per Run 3	23.7238 ppm	2.2065 ppm	1.0390 ppm	11.4764 ppm	0.5768 ppm	1.7913 ppm	0.5239 ppm
Concentration RSD	0.0 %	1.3 %	0.6 %	1.8 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1276 ppm	5.7933 ppm	0.9666 ppm	0.9994 ppm	3.7733 ppm	0.1194 ppm	0.6692 ppm
Concentration per Run 1	0.1306 ppm	5.7925 ppm	0.9690 ppm	1.0032 ppm	3.7755 ppm	0.1195 ppm	0.6693 ppm
Concentration per Run 2	0.1277 ppm	5.7999 ppm	0.9675 ppm	1.0104 ppm	3.7725 ppm	0.1199 ppm	0.6694 ppm
Concentration per Run 3	0.1245 ppm	5.7876 ppm	0.9632 ppm	0.9846 ppm	3.7719 ppm	0.1190 ppm	0.6689 ppm
Concentration RSD	2.4 %	0.1 %	0.3 %	1.3 %	0.1 %	0.4 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.9040 ppm	98.7202 %	102.3625 %	101.5039 %	102.5088 %	96.4726 %	101.6869 %
Concentration per Run 1	0.9052 ppm	97.9694 %	102.6814 %	101.5355 %	101.1949 %	96.5580 %	101.8600 %
Concentration per Run 2	0.9058 ppm	98.1006 %	102.0367 %	101.3683 %	101.9267 %	96.1983 %	101.4554 %
Concentration per Run 3	0.9008 ppm	100.0907 %	102.3694 %	101.6078 %	104.4048 %	96.6617 %	101.7453 %
Concentration RSD	0.3 %	1.2 %	0.3 %	0.1 %	1.6 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-6d10 WG1975352
Analysis started at: 9/26/2024 5:55:52 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	24.0126 ppm	0.0776 ppm	0.0030 ppm	0.0438 ppm	0.0010 ppm	1.1065 ppm
Concentration per Run 1	0.0009 ppm	24.8868 ppm	0.0791 ppm	0.0028 ppm	0.0456 ppm	0.0011 ppm	1.1491 ppm
Concentration per Run 2	-0.0001 ppm	23.6425 ppm	0.0767 ppm	0.0032 ppm	0.0432 ppm	0.0010 ppm	1.0859 ppm
Concentration per Run 3	0.0011 ppm	23.5085 ppm	0.0770 ppm	0.0029 ppm	0.0425 ppm	0.0009 ppm	1.0844 ppm
Concentration RSD	94.8 %	3.2 %	1.7 %	7.0 %	3.8 %	8.4 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0076 ppm	0.0327 ppm	0.0140 ppm	20.5838 ppm	1.1984 ppm	0.0180 ppm
Concentration per Run 1	0.0004 ppm	0.0078 ppm	0.0325 ppm	0.0138 ppm	21.2719 ppm	1.2308 ppm	0.0177 ppm
Concentration per Run 2	0.0004 ppm	0.0077 ppm	0.0329 ppm	0.0140 ppm	20.2839 ppm	1.1452 ppm	0.0197 ppm
Concentration per Run 3	0.0003 ppm	0.0074 ppm	0.0328 ppm	0.0143 ppm	20.1956 ppm	1.2191 ppm	0.0166 ppm
Concentration RSD	11.8 %	2.7 %	0.7 %	1.8 %	2.9 %	3.9 %	8.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.9682 ppm	0.3653 ppm	0.0040 ppm	0.0924 ppm	0.0167 ppm	0.2665 ppm	0.0033 ppm
Concentration per Run 1	2.9542 ppm	0.3782 ppm	0.0045 ppm	0.0947 ppm	0.0165 ppm	0.2666 ppm	0.0037 ppm
Concentration per Run 2	2.9821 ppm	0.3596 ppm	0.0038 ppm	0.0890 ppm	0.0169 ppm	0.2665 ppm	0.0034 ppm
Concentration per Run 3	2.9682 ppm	0.3581 ppm	0.0037 ppm	0.0935 ppm	0.0166 ppm	0.2662 ppm	0.0029 ppm
Concentration RSD	0.5 %	3.1 %	11.2 %	3.3 %	1.2 %	0.1 %	13.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0014 ppm	1.0489 ppm	0.0025 ppm	0.0053 ppm	0.5669 ppm	0.0000 ppm	0.0365 ppm
Concentration per Run 1	0.0025 ppm	1.0527 ppm	0.0023 ppm	0.0056 ppm	0.5666 ppm	0.0002 ppm	0.0362 ppm
Concentration per Run 2	-0.0039 ppm	1.0463 ppm	0.0026 ppm	0.0052 ppm	0.5678 ppm	0.0010 ppm	0.0363 ppm
Concentration per Run 3	-0.0028 ppm	1.0476 ppm	0.0027 ppm	0.0051 ppm	0.5663 ppm	-0.0012 ppm	0.0370 ppm
Concentration RSD	248.7 %	0.3 %	9.9 %	4.1 %	0.1 %	3,979.5 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0852 ppm	99.4380 %	100.3806 %	99.2106 %	106.4310 %	100.1004 %	102.9523 %
Concentration per Run 1	0.0853 ppm	96.1741 %	100.6843 %	99.6145 %	103.1117 %	100.3668 %	103.2010 %
Concentration per Run 2	0.0853 ppm	101.0593 %	100.0759 %	99.0043 %	107.8058 %	99.7725 %	102.4508 %
Concentration per Run 3	0.0852 ppm	101.0806 %	100.3815 %	99.0132 %	108.3755 %	100.1617 %	103.2049 %
Concentration RSD	0.0 %	2.8 %	0.3 %	0.4 %	2.7 %	0.3 %	0.4 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-02d2 WG1975352
Analysis started at: 9/26/2024 6:02:03 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	100.2618 ppm	0.1204 ppm	0.0043 ppm	0.1860 ppm	0.0047 ppm	3.6232 ppm
Concentration per Run 1	0.0024 ppm	97.0505 ppm	0.1203 ppm	0.0046 ppm	0.1804 ppm	0.0045 ppm	3.5170 ppm
Concentration per Run 2	0.0024 ppm	101.5255 ppm	0.1196 ppm	0.0046 ppm	0.1883 ppm	0.0047 ppm	3.6625 ppm
Concentration per Run 3	0.0021 ppm	102.2093 ppm	0.1212 ppm	0.0036 ppm	0.1895 ppm	0.0048 ppm	3.6902 ppm
Concentration RSD	6.9 %	2.8 %	0.7 %	13.0 %	2.7 %	3.1 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0010 ppm	0.0336 ppm	0.1417 ppm	0.0488 ppm	84.2570 ppm	4.9726 ppm	0.0812 ppm
Concentration per Run 1	0.0010 ppm	0.0338 ppm	0.1413 ppm	0.0487 ppm	81.5208 ppm	4.7901 ppm	0.0793 ppm
Concentration per Run 2	0.0010 ppm	0.0336 ppm	0.1413 ppm	0.0484 ppm	85.2912 ppm	5.0610 ppm	0.0849 ppm
Concentration per Run 3	0.0009 ppm	0.0335 ppm	0.1425 ppm	0.0492 ppm	85.9591 ppm	5.0666 ppm	0.0795 ppm
Concentration RSD	3.2 %	0.5 %	0.5 %	0.8 %	2.8 %	3.2 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.1661 ppm	1.2947 ppm	0.0028 ppm	0.3017 ppm	0.0855 ppm	0.2902 ppm	0.0075 ppm
Concentration per Run 1	14.1603 ppm	1.2551 ppm	0.0027 ppm	0.3077 ppm	0.0860 ppm	0.2899 ppm	0.0075 ppm
Concentration per Run 2	14.1538 ppm	1.3089 ppm	0.0028 ppm	0.2997 ppm	0.0854 ppm	0.2903 ppm	0.0073 ppm
Concentration per Run 3	14.1842 ppm	1.3202 ppm	0.0028 ppm	0.2977 ppm	0.0853 ppm	0.2904 ppm	0.0075 ppm
Concentration RSD	0.1 %	2.7 %	2.0 %	1.7 %	0.4 %	0.1 %	1.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0059 ppm	6.6515 ppm	0.0059 ppm	0.0210 ppm	3.6420 ppm	0.0025 ppm	0.1522 ppm
Concentration per Run 1	0.0069 ppm	6.6388 ppm	0.0059 ppm	0.0204 ppm	3.6422 ppm	0.0025 ppm	0.1524 ppm
Concentration per Run 2	0.0053 ppm	6.6430 ppm	0.0059 ppm	0.0212 ppm	3.6378 ppm	0.0039 ppm	0.1518 ppm
Concentration per Run 3	0.0055 ppm	6.6725 ppm	0.0058 ppm	0.0214 ppm	3.6461 ppm	0.0012 ppm	0.1524 ppm
Concentration RSD	14.3 %	0.3 %	1.0 %	2.5 %	0.1 %	53.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2741 ppm	110.9121 %	105.9155 %	105.3112 %	118.5499 %	100.9599 %	106.4869 %
Concentration per Run 1	0.2745 ppm	113.8935 %	105.8029 %	105.6242 %	121.2560 %	101.0022 %	106.4115 %
Concentration per Run 2	0.2739 ppm	110.0673 %	106.3957 %	105.1182 %	117.9350 %	100.9867 %	106.8593 %
Concentration per Run 3	0.2740 ppm	108.7755 %	105.5478 %	105.1912 %	116.4585 %	100.8907 %	106.1898 %
Concentration RSD	0.1 %	2.4 %	0.4 %	0.3 %	2.1 %	0.1 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-03d2 WG1975352
Analysis started at: 9/26/2024 6:08:09 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	98.5779 ppm	0.5259 ppm	0.0048 ppm	0.2009 ppm	0.0043 ppm	6.2840 ppm
Concentration per Run 1	0.0023 ppm	97.4801 ppm	0.5251 ppm	0.0048 ppm	0.1986 ppm	0.0042 ppm	6.2181 ppm
Concentration per Run 2	0.0023 ppm	98.5315 ppm	0.5285 ppm	0.0047 ppm	0.2009 ppm	0.0043 ppm	6.2885 ppm
Concentration per Run 3	0.0019 ppm	99.7220 ppm	0.5242 ppm	0.0048 ppm	0.2033 ppm	0.0044 ppm	6.3456 ppm
Concentration RSD	10.2 %	1.1 %	0.4 %	1.3 %	1.2 %	2.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0012 ppm	0.0310 ppm	0.1280 ppm	0.0498 ppm	81.7125 ppm	5.2215 ppm	0.0914 ppm
Concentration per Run 1	0.0012 ppm	0.0309 ppm	0.1280 ppm	0.0499 ppm	80.6389 ppm	5.1387 ppm	0.0914 ppm
Concentration per Run 2	0.0012 ppm	0.0310 ppm	0.1275 ppm	0.0500 ppm	81.7502 ppm	5.2196 ppm	0.0930 ppm
Concentration per Run 3	0.0012 ppm	0.0311 ppm	0.1285 ppm	0.0496 ppm	82.7484 ppm	5.3062 ppm	0.0897 ppm
Concentration RSD	1.1 %	0.3 %	0.4 %	0.4 %	1.3 %	1.6 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.8276 ppm	1.2658 ppm	0.0024 ppm	0.3734 ppm	0.0794 ppm	1.4014 ppm	0.0101 ppm
Concentration per Run 1	15.8308 ppm	1.2518 ppm	0.0026 ppm	0.3723 ppm	0.0792 ppm	1.3983 ppm	0.0113 ppm
Concentration per Run 2	15.8128 ppm	1.2660 ppm	0.0026 ppm	0.3633 ppm	0.0794 ppm	1.4024 ppm	0.0106 ppm
Concentration per Run 3	15.8393 ppm	1.2797 ppm	0.0021 ppm	0.3845 ppm	0.0796 ppm	1.4034 ppm	0.0086 ppm
Concentration RSD	0.1 %	1.1 %	10.6 %	2.9 %	0.2 %	0.2 %	14.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0043 ppm	8.0192 ppm	0.0067 ppm	0.0356 ppm	3.0989 ppm	0.0025 ppm	0.1598 ppm
Concentration per Run 1	0.0047 ppm	7.9746 ppm	0.0061 ppm	0.0352 ppm	3.1011 ppm	0.0037 ppm	0.1595 ppm
Concentration per Run 2	0.0001 ppm	8.0296 ppm	0.0077 ppm	0.0355 ppm	3.0956 ppm	0.0044 ppm	0.1601 ppm
Concentration per Run 3	0.0081 ppm	8.0534 ppm	0.0065 ppm	0.0361 ppm	3.1002 ppm	-0.0005 ppm	0.1598 ppm
Concentration RSD	92.7 %	0.5 %	11.9 %	1.3 %	0.1 %	104.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2595 ppm	108.3095 %	104.4969 %	103.7161 %	115.1239 %	99.2761 %	105.0064 %
Concentration per Run 1	0.2594 ppm	109.2176 %	104.4317 %	103.7866 %	116.1137 %	99.5466 %	104.7111 %
Concentration per Run 2	0.2596 ppm	108.6225 %	104.3910 %	103.7592 %	114.8922 %	99.3307 %	105.0935 %
Concentration per Run 3	0.2594 ppm	107.0885 %	104.6679 %	103.6026 %	114.3659 %	98.9509 %	105.2147 %
Concentration RSD	0.0 %	1.0 %	0.1 %	0.1 %	0.8 %	0.3 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-04d2 WG1975352
Analysis started at: 9/26/2024 6:14:16 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	108.5726 ppm	0.3981 ppm	0.0050 ppm	0.2508 ppm	0.0043 ppm	15.5803 ppm
Concentration per Run 1	0.0024 ppm	106.4850 ppm	0.3962 ppm	0.0047 ppm	0.2463 ppm	0.0042 ppm	15.2762 ppm
Concentration per Run 2	0.0026 ppm	109.2723 ppm	0.3997 ppm	0.0058 ppm	0.2521 ppm	0.0044 ppm	15.6927 ppm
Concentration per Run 3	0.0019 ppm	109.9604 ppm	0.3986 ppm	0.0046 ppm	0.2541 ppm	0.0043 ppm	15.7720 ppm
Concentration RSD	13.8 %	1.7 %	0.4 %	12.7 %	1.6 %	2.6 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0257 ppm	0.1644 ppm	0.0717 ppm	88.0661 ppm	5.2945 ppm	0.0741 ppm
Concentration per Run 1	0.0015 ppm	0.0258 ppm	0.1646 ppm	0.0712 ppm	86.2560 ppm	5.1923 ppm	0.0740 ppm
Concentration per Run 2	0.0013 ppm	0.0257 ppm	0.1642 ppm	0.0718 ppm	88.6536 ppm	5.3414 ppm	0.0750 ppm
Concentration per Run 3	0.0014 ppm	0.0257 ppm	0.1646 ppm	0.0720 ppm	89.2888 ppm	5.3499 ppm	0.0732 ppm
Concentration RSD	5.1 %	0.2 %	0.2 %	0.6 %	1.8 %	1.7 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.7325 ppm	1.7998 ppm	0.0045 ppm	0.3747 ppm	0.0705 ppm	0.7923 ppm	0.0076 ppm
Concentration per Run 1	15.6979 ppm	1.7653 ppm	0.0041 ppm	0.3657 ppm	0.0702 ppm	0.7933 ppm	0.0071 ppm
Concentration per Run 2	15.7742 ppm	1.8098 ppm	0.0048 ppm	0.3850 ppm	0.0707 ppm	0.7914 ppm	0.0070 ppm
Concentration per Run 3	15.7254 ppm	1.8243 ppm	0.0046 ppm	0.3735 ppm	0.0706 ppm	0.7923 ppm	0.0087 ppm
Concentration RSD	0.2 %	1.7 %	8.4 %	2.6 %	0.4 %	0.1 %	12.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0068 ppm	10.0375 ppm	0.0074 ppm	0.0283 ppm	2.3322 ppm	-0.0003 ppm	0.1598 ppm
Concentration per Run 1	0.0050 ppm	10.0192 ppm	0.0077 ppm	0.0279 ppm	2.3305 ppm	-0.0012 ppm	0.1593 ppm
Concentration per Run 2	0.0076 ppm	10.0247 ppm	0.0074 ppm	0.0283 ppm	2.3328 ppm	0.0004 ppm	0.1601 ppm
Concentration per Run 3	0.0079 ppm	10.0687 ppm	0.0072 ppm	0.0287 ppm	2.3333 ppm	0.0001 ppm	0.1600 ppm
Concentration RSD	23.4 %	0.3 %	3.4 %	1.4 %	0.1 %	347.0 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4738 ppm	108.2179 %	103.6037 %	102.8816 %	115.1105 %	97.1377 %	103.3008 %
Concentration per Run 1	0.4744 ppm	109.8733 %	103.7994 %	103.0207 %	116.9660 %	97.1146 %	103.5894 %
Concentration per Run 2	0.4736 ppm	107.7533 %	103.3781 %	102.7355 %	114.6521 %	97.1012 %	102.9819 %
Concentration per Run 3	0.4734 ppm	107.0271 %	103.6335 %	102.8887 %	113.7134 %	97.1973 %	103.3312 %
Concentration RSD	0.1 %	1.4 %	0.2 %	0.1 %	1.5 %	0.1 %	0.3 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:20:22 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5204 ppm	0.5220 ppm	0.4968 ppm	0.5042 ppm	0.4975 ppm	0.4958 ppm	0.4957 ppm
Concentration per Run 1	0.5199 ppm	0.5194 ppm	0.4996 ppm	0.5040 ppm	0.4918 ppm	0.4904 ppm	0.4929 ppm
Concentration per Run 2	0.5203 ppm	0.5178 ppm	0.4955 ppm	0.5043 ppm	0.5013 ppm	0.4994 ppm	0.4981 ppm
Concentration per Run 3	0.5211 ppm	0.5288 ppm	0.4951 ppm	0.5042 ppm	0.4995 ppm	0.4977 ppm	0.4960 ppm
Recovery Percentage 1	104.087 %	104.400 %	99.351 %	100.830 %	99.505 %	99.169 %	99.134 %
Concentration RSD	0.1 %	1.1 %	0.5 %	0.0 %	1.0 %	1.0 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5014 ppm	0.5140 ppm	0.5085 ppm	0.5018 ppm	0.5489 ppm	5.1985 ppm	0.4974 ppm
Concentration per Run 1	0.5012 ppm	0.5143 ppm	0.5080 ppm	0.5011 ppm	0.5403 ppm	5.1249 ppm	0.4934 ppm
Concentration per Run 2	0.5014 ppm	0.5141 ppm	0.5085 ppm	0.5013 ppm	0.5546 ppm	5.2784 ppm	0.4991 ppm
Concentration per Run 3	0.5016 ppm	0.5137 ppm	0.5091 ppm	0.5031 ppm	0.5516 ppm	5.1920 ppm	0.4997 ppm
Recovery Percentage 1	100.277 %	102.809 %	101.708 %	100.362 %	109.771 %	103.969 %	99.484 %
Concentration RSD	0.0 %	0.1 %	0.1 %	0.2 %	1.4 %	1.5 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5010 ppm	0.4961 ppm	0.5029 ppm	10.3876 ppm	0.5073 ppm	0.5058 ppm	0.5117 ppm
Concentration per Run 1	0.5016 ppm	0.4908 ppm	0.4986 ppm	10.2495 ppm	0.5067 ppm	0.5057 ppm	0.5102 ppm
Concentration per Run 2	0.5020 ppm	0.4989 ppm	0.5034 ppm	10.4405 ppm	0.5073 ppm	0.5053 ppm	0.5118 ppm
Concentration per Run 3	0.4994 ppm	0.4988 ppm	0.5066 ppm	10.4728 ppm	0.5079 ppm	0.5064 ppm	0.5129 ppm
Recovery Percentage 1	100.198 %	99.230 %	100.580 %	103.876 %	101.455 %	101.158 %	102.333 %
Concentration RSD	0.3 %	0.9 %	0.8 %	1.2 %	0.1 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5039 ppm	5.6020 ppm	0.4685 ppm	0.4744 ppm	0.5089 ppm	0.5110 ppm	0.4958 ppm
Concentration per Run 1	0.5049 ppm	5.6038 ppm	0.4679 ppm	0.4690 ppm	0.5074 ppm	0.5121 ppm	0.4959 ppm
Concentration per Run 2	0.5030 ppm	5.6020 ppm	0.4689 ppm	0.4774 ppm	0.5100 ppm	0.5116 ppm	0.4960 ppm
Concentration per Run 3	0.5039 ppm	5.6001 ppm	0.4687 ppm	0.4768 ppm	0.5093 ppm	0.5093 ppm	0.4955 ppm
Recovery Percentage 1	100.789 %	106.705 %	93.698 %	94.878 %	101.780 %	102.198 %	99.155 %
Concentration RSD	0.2 %	0.0 %	0.1 %	1.0 %	0.3 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5058 ppm	100.0607 %	99.3384 %	98.0118 %	111.8636 %	100.9378 %	104.2050 %
Concentration per Run 1	0.5053 ppm	100.8585 %	99.4474 %	98.0455 %	112.9037 %	101.0869 %	104.2660 %
Concentration per Run 2	0.5056 ppm	99.3214 %	99.3041 %	97.8500 %	111.1860 %	100.8799 %	104.1904 %
Concentration per Run 3	0.5065 ppm	100.0022 %	99.2638 %	98.1400 %	111.5011 %	100.8466 %	104.1586 %
Recovery Percentage 1	101.162 %						
Concentration RSD	0.1 %	0.8 %	0.1 %	0.2 %	0.8 %	0.1 %	0.1 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:26:24 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0069 ppm	0.0008 ppm	0.0016 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0044 ppm	0.0021 ppm	0.0017 ppm	0.0002 ppm	0.0004 ppm	0.0035 ppm
Concentration per Run 2	0.0006 ppm	0.0110 ppm	0.0002 ppm	0.0016 ppm	0.0003 ppm	0.0005 ppm	-0.0027 ppm
Concentration per Run 3	0.0001 ppm	0.0052 ppm	0.0001 ppm	0.0015 ppm	0.0004 ppm	0.0004 ppm	-0.0006 ppm
Recovery Percentage 1	3.077 %	6.885 %	16.114 %	5.400 %	3.148 %	8.689 %	0.058 %
Concentration RSD	155.4 %	52.3 %	141.0 %	7.1 %	41.4 %	10.7 %	5,445.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0070 ppm	-0.1004 ppm	-0.0043 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0069 ppm	-0.1230 ppm	-0.0036 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm	0.0074 ppm	-0.1047 ppm	-0.0056 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0067 ppm	-0.0734 ppm	-0.0037 ppm
Recovery Percentage 1	0.679 %	0.920 %	2.921 %	-0.707 %	13.998 %	-4.015 %	-42.858 %
Concentration RSD	150.4 %	46.8 %	155.5 %	185.4 %	4.8 %	25.0 %	25.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	0.0019 ppm	0.0200 ppm	0.0003 ppm	-0.0006 ppm	0.0020 ppm
Concentration per Run 1	0.0007 ppm	0.0007 ppm	0.0024 ppm	0.0145 ppm	0.0003 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 2	0.0004 ppm	0.0006 ppm	0.0019 ppm	0.0466 ppm	0.0002 ppm	-0.0017 ppm	0.0026 ppm
Concentration per Run 3	-0.0007 ppm	0.0001 ppm	0.0016 ppm	-0.0010 ppm	0.0004 ppm	-0.0003 ppm	0.0012 ppm
Recovery Percentage 1	0.136 %	4.531 %	3.899 %	1.001 %	1.284 %	-6.387 %	3.970 %
Concentration RSD	537.8 %	70.7 %	22.0 %	121.3 %	32.9 %	139.0 %	37.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0093 ppm	0.0004 ppm	0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0032 ppm	0.0102 ppm	0.0008 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0015 ppm	0.0088 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0088 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0010 ppm	0.0001 ppm
Recovery Percentage 1	-5.896 %	1.856 %	0.835 %	3.774 %	7.991 %	0.430 %	2.155 %
Concentration RSD	409.4 %	8.9 %	94.1 %	20.5 %	41.0 %	930.9 %	170.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	98.0639 %	99.4986 %	98.2636 %	104.2252 %	100.0923 %	101.4970 %
Concentration per Run 1	0.0004 ppm	97.7349 %	99.5782 %	98.1991 %	102.5538 %	99.9327 %	101.6009 %
Concentration per Run 2	0.0003 ppm	98.2737 %	99.4144 %	98.5674 %	104.5955 %	100.4439 %	101.3364 %
Concentration per Run 3	0.0003 ppm	98.1832 %	99.5031 %	98.0244 %	105.5261 %	99.9002 %	101.5538 %
Recovery Percentage 1	6.810 %						
Concentration RSD	14.0 %	0.3 %	0.1 %	0.3 %	1.5 %	0.3 %	0.1 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1976217-2d2 WG1976217
Analysis started at: 9/26/2024 6:37:40 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0275 ppm	1.0457 ppm	0.0624 ppm	0.5042 ppm	1.0276 ppm	0.0260 ppm	5.1457 ppm
Concentration per Run 1	0.0281 ppm	1.0320 ppm	0.0629 ppm	0.5060 ppm	1.0249 ppm	0.0260 ppm	5.1359 ppm
Concentration per Run 2	0.0266 ppm	1.0580 ppm	0.0620 ppm	0.5026 ppm	1.0322 ppm	0.0261 ppm	5.1660 ppm
Concentration per Run 3	0.0279 ppm	1.0470 ppm	0.0622 ppm	0.5040 ppm	1.0259 ppm	0.0260 ppm	5.1350 ppm
Concentration RSD	3.0 %	1.2 %	0.8 %	0.3 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0276 ppm	0.2597 ppm	0.1052 ppm	0.1327 ppm	0.5274 ppm	5.3446 ppm	-0.0045 ppm
Concentration per Run 1	0.0278 ppm	0.2610 ppm	0.1050 ppm	0.1323 ppm	0.5216 ppm	5.3515 ppm	-0.0051 ppm
Concentration per Run 2	0.0275 ppm	0.2587 ppm	0.1047 ppm	0.1328 ppm	0.5311 ppm	5.3294 ppm	-0.0047 ppm
Concentration per Run 3	0.0277 ppm	0.2593 ppm	0.1058 ppm	0.1331 ppm	0.5294 ppm	5.3530 ppm	-0.0037 ppm
Concentration RSD	0.6 %	0.5 %	0.5 %	0.3 %	1.0 %	0.2 %	15.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.1811 ppm	0.2635 ppm	0.5007 ppm	5.7095 ppm	0.2607 ppm	0.2770 ppm	0.2566 ppm
Concentration per Run 1	5.1806 ppm	0.2623 ppm	0.4963 ppm	5.7686 ppm	0.2619 ppm	0.2778 ppm	0.2556 ppm
Concentration per Run 2	5.1715 ppm	0.2646 ppm	0.4996 ppm	5.7371 ppm	0.2602 ppm	0.2762 ppm	0.2558 ppm
Concentration per Run 3	5.1913 ppm	0.2636 ppm	0.5062 ppm	5.6228 ppm	0.2601 ppm	0.2769 ppm	0.2583 ppm
Concentration RSD	0.2 %	0.4 %	1.0 %	1.3 %	0.4 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0623 ppm	0.4338 ppm	0.4849 ppm	0.4941 ppm	0.5234 ppm	0.0621 ppm	0.2583 ppm
Concentration per Run 1	0.0636 ppm	0.4354 ppm	0.4869 ppm	0.4937 ppm	0.5230 ppm	0.0615 ppm	0.2583 ppm
Concentration per Run 2	0.0625 ppm	0.4316 ppm	0.4830 ppm	0.4964 ppm	0.5239 ppm	0.0630 ppm	0.2585 ppm
Concentration per Run 3	0.0609 ppm	0.4343 ppm	0.4847 ppm	0.4924 ppm	0.5233 ppm	0.0618 ppm	0.2581 ppm
Concentration RSD	2.2 %	0.4 %	0.4 %	0.4 %	0.1 %	1.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2595 ppm	97.3780 %	99.3595 %	97.9703 %	104.4484 %	100.1532 %	102.9506 %
Concentration per Run 1	0.2607 ppm	97.2330 %	99.0658 %	98.0549 %	102.9638 %	99.8161 %	102.8293 %
Concentration per Run 2	0.2584 ppm	97.3921 %	99.5065 %	97.9465 %	104.9354 %	100.5123 %	103.1364 %
Concentration per Run 3	0.2595 ppm	97.5089 %	99.5061 %	97.9095 %	105.4459 %	100.1314 %	102.8862 %
Concentration RSD	0.5 %	0.1 %	0.3 %	0.1 %	1.3 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:43:46 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5379 ppm	0.5227 ppm	0.5071 ppm	0.5154 ppm	0.5172 ppm	0.5183 ppm	0.5185 ppm
Concentration per Run 1	0.5385 ppm	0.4982 ppm	0.5085 ppm	0.5152 ppm	0.4961 ppm	0.4958 ppm	0.4919 ppm
Concentration per Run 2	0.5379 ppm	0.5328 ppm	0.5094 ppm	0.5156 ppm	0.5299 ppm	0.5312 ppm	0.5328 ppm
Concentration per Run 3	0.5373 ppm	0.5371 ppm	0.5032 ppm	0.5153 ppm	0.5257 ppm	0.5280 ppm	0.5307 ppm
Recovery Percentage 1	107.582 %	104.536 %	101.411 %	103.073 %	103.447 %	103.664 %	103.694 %
Concentration RSD	0.1 %	4.1 %	0.7 %	0.0 %	3.6 %	3.8 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5125 ppm	0.5247 ppm	0.5281 ppm	0.5136 ppm	0.5307 ppm	5.4338 ppm	0.5199 ppm
Concentration per Run 1	0.5127 ppm	0.5254 ppm	0.5288 ppm	0.5147 ppm	0.5072 ppm	5.2180 ppm	0.4982 ppm
Concentration per Run 2	0.5135 ppm	0.5255 ppm	0.5289 ppm	0.5128 ppm	0.5414 ppm	5.5697 ppm	0.5316 ppm
Concentration per Run 3	0.5113 ppm	0.5232 ppm	0.5265 ppm	0.5135 ppm	0.5435 ppm	5.5137 ppm	0.5298 ppm
Recovery Percentage 1	102.499 %	104.940 %	105.615 %	102.728 %	106.144 %	108.676 %	103.976 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.2 %	3.8 %	3.5 %	3.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5183 ppm	0.5193 ppm	0.5156 ppm	10.6368 ppm	0.5186 ppm	0.5162 ppm	0.5247 ppm
Concentration per Run 1	0.5187 ppm	0.4971 ppm	0.5128 ppm	10.2156 ppm	0.5186 ppm	0.5172 ppm	0.5239 ppm
Concentration per Run 2	0.5195 ppm	0.5316 ppm	0.5161 ppm	10.8742 ppm	0.5200 ppm	0.5177 ppm	0.5267 ppm
Concentration per Run 3	0.5166 ppm	0.5291 ppm	0.5179 ppm	10.8208 ppm	0.5173 ppm	0.5137 ppm	0.5235 ppm
Recovery Percentage 1	103.651 %	103.852 %	103.119 %	106.368 %	103.726 %	103.242 %	104.942 %
Concentration RSD	0.3 %	3.7 %	0.5 %	3.4 %	0.3 %	0.4 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5170 ppm	5.7086 ppm	0.4796 ppm	0.4979 ppm	0.5240 ppm	0.5211 ppm	0.5087 ppm
Concentration per Run 1	0.5171 ppm	5.7152 ppm	0.4792 ppm	0.4775 ppm	0.5242 ppm	0.5198 ppm	0.5092 ppm
Concentration per Run 2	0.5188 ppm	5.7188 ppm	0.4818 ppm	0.5100 ppm	0.5239 ppm	0.5232 ppm	0.5085 ppm
Concentration per Run 3	0.5152 ppm	5.6918 ppm	0.4779 ppm	0.5062 ppm	0.5239 ppm	0.5202 ppm	0.5085 ppm
Recovery Percentage 1	103.405 %	108.736 %	95.926 %	99.581 %	104.803 %	104.213 %	101.750 %
Concentration RSD	0.3 %	0.3 %	0.4 %	3.6 %	0.0 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5182 ppm	95.5636 %	96.9109 %	95.9480 %	104.6295 %	99.0519 %	101.1835 %
Concentration per Run 1	0.5190 ppm	99.4627 %	96.8306 %	96.1547 %	107.7891 %	99.1335 %	100.9657 %
Concentration per Run 2	0.5192 ppm	93.7430 %	96.8330 %	95.5912 %	103.3186 %	98.6746 %	101.1596 %
Concentration per Run 3	0.5163 ppm	93.4851 %	97.0690 %	96.0981 %	102.7807 %	99.3476 %	101.4251 %
Recovery Percentage 1	103.633 %						
Concentration RSD	0.3 %	3.5 %	0.1 %	0.3 %	2.6 %	0.3 %	0.2 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:49:49 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0039 ppm	-0.0014 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	-0.0050 ppm
Concentration per Run 1	0.0001 ppm	0.0123 ppm	-0.0021 ppm	0.0012 ppm	0.0002 ppm	0.0002 ppm	-0.0060 ppm
Concentration per Run 2	0.0007 ppm	0.0011 ppm	-0.0013 ppm	0.0013 ppm	0.0001 ppm	0.0001 ppm	-0.0018 ppm
Concentration per Run 3	0.0007 ppm	-0.0015 ppm	-0.0009 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	-0.0072 ppm
Recovery Percentage 1	6.934 %	3.928 %	-28.699 %	3.880 %	1.831 %	2.179 %	-5.000 %
Concentration RSD	66.4 %	186.8 %	42.5 %	14.0 %	28.9 %	52.7 %	56.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0008 ppm	-0.0917 ppm	-0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0006 ppm	-0.1200 ppm	-0.0038 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0693 ppm	-0.0034 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0016 ppm	-0.0857 ppm	-0.0026 ppm
Recovery Percentage 1	-0.363 %	0.184 %	-1.247 %	1.619 %	1.683 %	-3.667 %	-32.460 %
Concentration RSD	209.8 %	391.8 %	181.0 %	220.7 %	75.4 %	28.2 %	18.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0003 ppm	0.0001 ppm	0.0025 ppm	0.0072 ppm	0.0002 ppm	-0.0012 ppm	0.0018 ppm
Concentration per Run 1	0.0019 ppm	0.0007 ppm	0.0028 ppm	0.0132 ppm	0.0003 ppm	-0.0012 ppm	0.0008 ppm
Concentration per Run 2	-0.0013 ppm	-0.0005 ppm	0.0026 ppm	0.0015 ppm	0.0002 ppm	-0.0013 ppm	0.0035 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0022 ppm	0.0069 ppm	-0.0001 ppm	-0.0012 ppm	0.0010 ppm
Recovery Percentage 1	0.311 %	0.696 %	5.076 %	0.359 %	0.615 %	-12.263 %	3.565 %
Concentration RSD	519.7 %	861.2 %	11.6 %	81.8 %	124.5 %	7.4 %	83.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0016 ppm	0.0043 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 1	-0.0028 ppm	0.0043 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	-0.0024 ppm	0.0046 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0038 ppm	0.0005 ppm	0.0001 ppm	0.0006 ppm	-0.0016 ppm	0.0003 ppm
Recovery Percentage 1	-15.839 %	0.852 %	1.148 %	0.630 %	1.590 %	-3.879 %	2.680 %
Concentration RSD	109.1 %	9.1 %	39.3 %	74.4 %	242.1 %	106.2 %	158.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	98.1734 %	97.8681 %	96.5426 %	99.3944 %	98.1841 %	98.7646 %
Concentration per Run 1	0.0003 ppm	97.2520 %	97.6869 %	96.2981 %	96.5169 %	97.9415 %	98.5939 %
Concentration per Run 2	0.0003 ppm	97.7122 %	97.8898 %	96.6756 %	99.1799 %	98.0585 %	98.7877 %
Concentration per Run 3	0.0003 ppm	99.5559 %	98.0275 %	96.6542 %	102.4864 %	98.5524 %	98.9122 %
Recovery Percentage 1	5.653 %						
Concentration RSD	7.1 %	1.2 %	0.2 %	0.2 %	3.0 %	0.3 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-05d2 WG1975352
Analysis started at: 9/26/2024 6:59:26 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	113.7097 ppm	0.2978 ppm	0.0041 ppm	0.2264 ppm	0.0048 ppm	6.2389 ppm
Concentration per Run 1	0.0024 ppm	113.5778 ppm	0.3002 ppm	0.0042 ppm	0.2261 ppm	0.0048 ppm	6.2472 ppm
Concentration per Run 2	0.0032 ppm	114.1643 ppm	0.2981 ppm	0.0037 ppm	0.2271 ppm	0.0048 ppm	6.2535 ppm
Concentration per Run 3	0.0025 ppm	113.3870 ppm	0.2953 ppm	0.0046 ppm	0.2259 ppm	0.0048 ppm	6.2161 ppm
Concentration RSD	18.1 %	0.4 %	0.8 %	10.5 %	0.3 %	0.5 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0282 ppm	0.1401 ppm	0.0567 ppm	96.8181 ppm	4.1331 ppm	0.0811 ppm
Concentration per Run 1	0.0015 ppm	0.0283 ppm	0.1395 ppm	0.0570 ppm	96.5501 ppm	4.1271 ppm	0.0821 ppm
Concentration per Run 2	0.0014 ppm	0.0282 ppm	0.1398 ppm	0.0567 ppm	97.2600 ppm	4.1318 ppm	0.0812 ppm
Concentration per Run 3	0.0013 ppm	0.0280 ppm	0.1411 ppm	0.0564 ppm	96.6441 ppm	4.1405 ppm	0.0801 ppm
Concentration RSD	5.5 %	0.6 %	0.6 %	0.6 %	0.4 %	0.2 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.4022 ppm	1.6240 ppm	0.0025 ppm	0.3609 ppm	0.0760 ppm	0.6058 ppm	0.0086 ppm
Concentration per Run 1	12.4045 ppm	1.6196 ppm	0.0024 ppm	0.3582 ppm	0.0760 ppm	0.6062 ppm	0.0091 ppm
Concentration per Run 2	12.4125 ppm	1.6333 ppm	0.0026 ppm	0.3616 ppm	0.0766 ppm	0.6096 ppm	0.0092 ppm
Concentration per Run 3	12.3895 ppm	1.6191 ppm	0.0024 ppm	0.3629 ppm	0.0755 ppm	0.6017 ppm	0.0075 ppm
Concentration RSD	0.1 %	0.5 %	4.0 %	0.7 %	0.7 %	0.7 %	11.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0058 ppm	8.5223 ppm	0.0076 ppm	0.0261 ppm	2.7259 ppm	0.0021 ppm	0.1682 ppm
Concentration per Run 1	0.0056 ppm	8.4750 ppm	0.0078 ppm	0.0260 ppm	2.7250 ppm	0.0029 ppm	0.1682 ppm
Concentration per Run 2	0.0076 ppm	8.5940 ppm	0.0077 ppm	0.0262 ppm	2.7284 ppm	0.0017 ppm	0.1685 ppm
Concentration per Run 3	0.0041 ppm	8.4980 ppm	0.0072 ppm	0.0262 ppm	2.7242 ppm	0.0018 ppm	0.1680 ppm
Concentration RSD	30.3 %	0.7 %	3.8 %	0.3 %	0.1 %	30.6 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2825 ppm	107.1771 %	105.1305 %	104.5884 %	113.6119 %	99.0169 %	104.9233 %
Concentration per Run 1	0.2828 ppm	106.8743 %	105.1157 %	104.6096 %	112.7241 %	99.3441 %	105.2011 %
Concentration per Run 2	0.2839 ppm	106.3908 %	105.1035 %	104.6853 %	113.2865 %	98.6599 %	104.8763 %
Concentration per Run 3	0.2808 ppm	108.2662 %	105.1724 %	104.4702 %	114.8250 %	99.0465 %	104.6925 %
Concentration RSD	0.6 %	0.9 %	0.0 %	0.1 %	1.0 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-06d2 WG1975352
Analysis started at: 9/26/2024 7:05:33 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	111.3097 ppm	0.2931 ppm	0.0039 ppm	0.2848 ppm	0.0054 ppm	8.2264 ppm
Concentration per Run 1	0.0027 ppm	111.3394 ppm	0.2929 ppm	0.0040 ppm	0.2855 ppm	0.0054 ppm	8.2347 ppm
Concentration per Run 2	0.0019 ppm	113.2852 ppm	0.2932 ppm	0.0044 ppm	0.2894 ppm	0.0055 ppm	8.3536 ppm
Concentration per Run 3	0.0022 ppm	109.3045 ppm	0.2932 ppm	0.0033 ppm	0.2794 ppm	0.0053 ppm	8.0909 ppm
Concentration RSD	19.4 %	1.8 %	0.1 %	13.7 %	1.8 %	2.1 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0360 ppm	0.1591 ppm	0.0615 ppm	97.8832 ppm	8.3297 ppm	0.1030 ppm
Concentration per Run 1	0.0016 ppm	0.0357 ppm	0.1599 ppm	0.0617 ppm	97.7425 ppm	8.3826 ppm	0.1006 ppm
Concentration per Run 2	0.0016 ppm	0.0361 ppm	0.1587 ppm	0.0617 ppm	99.7169 ppm	8.4606 ppm	0.1051 ppm
Concentration per Run 3	0.0016 ppm	0.0362 ppm	0.1585 ppm	0.0611 ppm	96.1903 ppm	8.1458 ppm	0.1032 ppm
Concentration RSD	1.1 %	0.7 %	0.5 %	0.5 %	1.8 %	2.0 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.7820 ppm	2.0606 ppm	0.0040 ppm	0.4690 ppm	0.0814 ppm	0.9357 ppm	0.0095 ppm
Concentration per Run 1	16.8473 ppm	2.0596 ppm	0.0038 ppm	0.4795 ppm	0.0816 ppm	0.9354 ppm	0.0097 ppm
Concentration per Run 2	16.7765 ppm	2.0999 ppm	0.0038 ppm	0.4783 ppm	0.0815 ppm	0.9353 ppm	0.0093 ppm
Concentration per Run 3	16.7221 ppm	2.0222 ppm	0.0043 ppm	0.4492 ppm	0.0813 ppm	0.9365 ppm	0.0094 ppm
Concentration RSD	0.4 %	1.9 %	7.4 %	3.7 %	0.2 %	0.1 %	2.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0053 ppm	6.6575 ppm	0.0070 ppm	0.0293 ppm	3.2978 ppm	0.0030 ppm	0.1745 ppm
Concentration per Run 1	0.0050 ppm	6.6295 ppm	0.0075 ppm	0.0294 ppm	3.3106 ppm	0.0022 ppm	0.1746 ppm
Concentration per Run 2	0.0036 ppm	6.6541 ppm	0.0062 ppm	0.0300 ppm	3.2959 ppm	0.0025 ppm	0.1745 ppm
Concentration per Run 3	0.0072 ppm	6.6889 ppm	0.0073 ppm	0.0286 ppm	3.2871 ppm	0.0042 ppm	0.1743 ppm
Concentration RSD	34.7 %	0.4 %	10.0 %	2.5 %	0.4 %	36.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3492 ppm	103.9986 %	107.9674 %	107.2700 %	105.0039 %	99.0187 %	104.8584 %
Concentration per Run 1	0.3495 ppm	103.7798 %	107.9319 %	107.1905 %	104.4993 %	98.8653 %	104.5879 %
Concentration per Run 2	0.3491 ppm	102.3069 %	108.0815 %	107.2820 %	103.0808 %	99.2385 %	104.9430 %
Concentration per Run 3	0.3491 ppm	105.9090 %	107.8886 %	107.3375 %	107.4315 %	98.9522 %	105.0444 %
Concentration RSD	0.1 %	1.7 %	0.1 %	0.1 %	2.1 %	0.2 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-07d2 WG1975352
Analysis started at: 9/26/2024 7:11:40 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0018 ppm	90.5081 ppm	0.3640 ppm	0.0032 ppm	0.1572 ppm	0.0040 ppm	6.3238 ppm
Concentration per Run 1	0.0018 ppm	88.1000 ppm	0.3619 ppm	0.0035 ppm	0.1533 ppm	0.0039 ppm	6.1562 ppm
Concentration per Run 2	0.0016 ppm	91.8406 ppm	0.3626 ppm	0.0033 ppm	0.1594 ppm	0.0041 ppm	6.4221 ppm
Concentration per Run 3	0.0019 ppm	91.5838 ppm	0.3676 ppm	0.0028 ppm	0.1589 ppm	0.0040 ppm	6.3933 ppm
Concentration RSD	9.6 %	2.3 %	0.9 %	10.8 %	2.2 %	1.6 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0247 ppm	0.1288 ppm	0.0637 ppm	71.5437 ppm	4.2532 ppm	0.0722 ppm
Concentration per Run 1	0.0013 ppm	0.0245 ppm	0.1287 ppm	0.0639 ppm	69.5400 ppm	4.1669 ppm	0.0707 ppm
Concentration per Run 2	0.0014 ppm	0.0247 ppm	0.1293 ppm	0.0635 ppm	72.6948 ppm	4.2894 ppm	0.0726 ppm
Concentration per Run 3	0.0014 ppm	0.0250 ppm	0.1284 ppm	0.0638 ppm	72.3963 ppm	4.3033 ppm	0.0733 ppm
Concentration RSD	2.9 %	1.0 %	0.3 %	0.3 %	2.4 %	1.8 %	1.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.8510 ppm	1.3176 ppm	0.0027 ppm	0.3830 ppm	0.0730 ppm	1.0013 ppm	0.0084 ppm
Concentration per Run 1	11.8728 ppm	1.2845 ppm	0.0025 ppm	0.3711 ppm	0.0729 ppm	1.0015 ppm	0.0082 ppm
Concentration per Run 2	11.8702 ppm	1.3372 ppm	0.0028 ppm	0.3872 ppm	0.0730 ppm	1.0015 ppm	0.0080 ppm
Concentration per Run 3	11.8099 ppm	1.3312 ppm	0.0027 ppm	0.3907 ppm	0.0731 ppm	1.0009 ppm	0.0089 ppm
Concentration RSD	0.3 %	2.2 %	6.2 %	2.7 %	0.1 %	0.0 %	5.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0056 ppm	8.8975 ppm	0.0067 ppm	0.0242 ppm	2.4043 ppm	0.0014 ppm	0.1362 ppm
Concentration per Run 1	0.0058 ppm	8.8649 ppm	0.0071 ppm	0.0234 ppm	2.4080 ppm	-0.0002 ppm	0.1367 ppm
Concentration per Run 2	0.0063 ppm	8.8894 ppm	0.0060 ppm	0.0246 ppm	2.4042 ppm	0.0019 ppm	0.1360 ppm
Concentration per Run 3	0.0046 ppm	8.9382 ppm	0.0069 ppm	0.0246 ppm	2.4007 ppm	0.0025 ppm	0.1359 ppm
Concentration RSD	16.3 %	0.4 %	8.2 %	3.0 %	0.2 %	99.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3272 ppm	108.2140 %	107.0373 %	106.2594 %	110.7631 %	98.8513 %	104.5354 %
Concentration per Run 1	0.3267 ppm	110.4646 %	106.6053 %	106.1376 %	111.8988 %	98.8882 %	104.1476 %
Concentration per Run 2	0.3269 ppm	106.9651 %	106.6471 %	106.1807 %	109.9120 %	98.8574 %	104.1151 %
Concentration per Run 3	0.3279 ppm	107.2123 %	107.8595 %	106.4600 %	110.4787 %	98.8083 %	105.3434 %
Concentration RSD	0.2 %	1.8 %	0.7 %	0.2 %	0.9 %	0.0 %	0.7 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-08d2 WG1975352
Analysis started at: 9/26/2024 7:18:12 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0024 ppm	107.8475 ppm	0.4723 ppm	0.0041 ppm	0.2254 ppm	0.0048 ppm	7.4317 ppm
Concentration per Run 1	0.0027 ppm	103.9158 ppm	0.4711 ppm	0.0044 ppm	0.2169 ppm	0.0045 ppm	7.1610 ppm
Concentration per Run 2	0.0022 ppm	109.6578 ppm	0.4730 ppm	0.0038 ppm	0.2295 ppm	0.0048 ppm	7.5616 ppm
Concentration per Run 3	0.0025 ppm	109.9688 ppm	0.4729 ppm	0.0042 ppm	0.2298 ppm	0.0050 ppm	7.5724 ppm
Concentration RSD	9.7 %	3.2 %	0.2 %	6.9 %	3.3 %	4.4 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0274 ppm	0.1474 ppm	0.1104 ppm	87.4906 ppm	4.6191 ppm	0.0803 ppm
Concentration per Run 1	0.0016 ppm	0.0273 ppm	0.1475 ppm	0.1113 ppm	84.1290 ppm	4.4802 ppm	0.0774 ppm
Concentration per Run 2	0.0015 ppm	0.0274 ppm	0.1473 ppm	0.1101 ppm	88.9983 ppm	4.7064 ppm	0.0809 ppm
Concentration per Run 3	0.0015 ppm	0.0276 ppm	0.1473 ppm	0.1099 ppm	89.3444 ppm	4.6706 ppm	0.0828 ppm
Concentration RSD	3.8 %	0.6 %	0.1 %	0.7 %	3.3 %	2.6 %	3.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.7022 ppm	1.5148 ppm	0.0037 ppm	0.3918 ppm	0.0824 ppm	1.3626 ppm	0.0098 ppm
Concentration per Run 1	13.6991 ppm	1.4597 ppm	0.0037 ppm	0.3908 ppm	0.0821 ppm	1.3569 ppm	0.0092 ppm
Concentration per Run 2	13.6891 ppm	1.5382 ppm	0.0038 ppm	0.3828 ppm	0.0823 ppm	1.3645 ppm	0.0093 ppm
Concentration per Run 3	13.7184 ppm	1.5465 ppm	0.0034 ppm	0.4018 ppm	0.0827 ppm	1.3664 ppm	0.0108 ppm
Concentration RSD	0.1 %	3.2 %	6.3 %	2.4 %	0.3 %	0.4 %	9.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0053 ppm	9.3727 ppm	0.0092 ppm	0.0230 ppm	2.7096 ppm	0.0008 ppm	0.1696 ppm
Concentration per Run 1	0.0067 ppm	9.3152 ppm	0.0089 ppm	0.0222 ppm	2.7133 ppm	-0.0005 ppm	0.1698 ppm
Concentration per Run 2	0.0039 ppm	9.4054 ppm	0.0094 ppm	0.0233 ppm	2.7055 ppm	0.0023 ppm	0.1694 ppm
Concentration per Run 3	0.0054 ppm	9.3974 ppm	0.0092 ppm	0.0235 ppm	2.7101 ppm	0.0006 ppm	0.1696 ppm
Concentration RSD	26.3 %	0.5 %	2.8 %	3.0 %	0.1 %	168.7 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3618 ppm	112.3711 %	109.0990 %	108.2901 %	116.5544 %	99.9264 %	106.5131 %
Concentration per Run 1	0.3610 ppm	115.7106 %	108.8195 %	108.2322 %	119.1642 %	100.0332 %	106.2835 %
Concentration per Run 2	0.3618 ppm	111.2673 %	109.0992 %	108.5619 %	115.8707 %	100.0553 %	106.5992 %
Concentration per Run 3	0.3625 ppm	110.1354 %	109.3784 %	108.0761 %	114.6283 %	99.6906 %	106.6568 %
Concentration RSD	0.2 %	2.6 %	0.3 %	0.2 %	2.0 %	0.2 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-09d2 WG1975352
Analysis started at: 9/26/2024 7:25:03 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	104.1330 ppm	0.5017 ppm	0.0037 ppm	0.1536 ppm	0.0040 ppm	5.7433 ppm
Concentration per Run 1	0.0022 ppm	99.9446 ppm	0.5009 ppm	0.0036 ppm	0.1477 ppm	0.0038 ppm	5.5114 ppm
Concentration per Run 2	0.0021 ppm	105.0224 ppm	0.5012 ppm	0.0034 ppm	0.1547 ppm	0.0041 ppm	5.7947 ppm
Concentration per Run 3	0.0024 ppm	107.4321 ppm	0.5031 ppm	0.0041 ppm	0.1586 ppm	0.0041 ppm	5.9239 ppm
Concentration RSD	6.8 %	3.7 %	0.2 %	10.6 %	3.6 %	4.9 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0015 ppm	0.0225 ppm	0.1241 ppm	0.0505 ppm	82.5377 ppm	2.9281 ppm	0.0670 ppm
Concentration per Run 1	0.0015 ppm	0.0224 ppm	0.1246 ppm	0.0507 ppm	79.2145 ppm	2.8050 ppm	0.0639 ppm
Concentration per Run 2	0.0015 ppm	0.0225 ppm	0.1234 ppm	0.0508 ppm	83.4011 ppm	2.9510 ppm	0.0684 ppm
Concentration per Run 3	0.0015 ppm	0.0224 ppm	0.1243 ppm	0.0501 ppm	84.9976 ppm	3.0282 ppm	0.0686 ppm
Concentration RSD	2.4 %	0.3 %	0.5 %	0.8 %	3.6 %	3.9 %	4.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.1366 ppm	1.8376 ppm	0.0027 ppm	0.3667 ppm	0.0632 ppm	1.0135 ppm	0.0097 ppm
Concentration per Run 1	10.1264 ppm	1.7647 ppm	0.0029 ppm	0.3549 ppm	0.0634 ppm	1.0138 ppm	0.0088 ppm
Concentration per Run 2	10.1324 ppm	1.8578 ppm	0.0026 ppm	0.3579 ppm	0.0629 ppm	1.0124 ppm	0.0100 ppm
Concentration per Run 3	10.1509 ppm	1.8904 ppm	0.0025 ppm	0.3874 ppm	0.0632 ppm	1.0144 ppm	0.0102 ppm
Concentration RSD	0.1 %	3.6 %	6.9 %	4.9 %	0.4 %	0.1 %	7.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0062 ppm	9.8365 ppm	0.0063 ppm	0.0205 ppm	2.0914 ppm	0.0009 ppm	0.1523 ppm
Concentration per Run 1	0.0073 ppm	9.8174 ppm	0.0062 ppm	0.0198 ppm	2.0877 ppm	0.0000 ppm	0.1520 ppm
Concentration per Run 2	0.0046 ppm	9.8385 ppm	0.0069 ppm	0.0206 ppm	2.0935 ppm	0.0010 ppm	0.1521 ppm
Concentration per Run 3	0.0067 ppm	9.8537 ppm	0.0058 ppm	0.0211 ppm	2.0929 ppm	0.0017 ppm	0.1528 ppm
Concentration RSD	23.2 %	0.2 %	8.8 %	3.1 %	0.2 %	95.0 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3301 ppm	113.0752 %	107.6529 %	106.8891 %	120.6536 %	100.5862 %	107.1627 %
Concentration per Run 1	0.3298 ppm	117.3154 %	107.7596 %	107.0911 %	125.3051 %	100.7861 %	107.3437 %
Concentration per Run 2	0.3299 ppm	111.9636 %	107.3868 %	106.9742 %	119.0647 %	100.6476 %	106.9628 %
Concentration per Run 3	0.3306 ppm	109.9467 %	107.8123 %	106.6020 %	117.5910 %	100.3250 %	107.1815 %
Concentration RSD	0.1 %	3.4 %	0.2 %	0.2 %	3.4 %	0.2 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-10d2 WG1975352
Analysis started at: 9/26/2024 7:31:35 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0016 ppm	80.0579 ppm	0.1722 ppm	0.0067 ppm	0.1525 ppm	0.0035 ppm	14.2325 ppm
Concentration per Run 1	0.0019 ppm	80.0515 ppm	0.1733 ppm	0.0064 ppm	0.1527 ppm	0.0035 ppm	14.2288 ppm
Concentration per Run 2	0.0013 ppm	80.0396 ppm	0.1716 ppm	0.0063 ppm	0.1526 ppm	0.0035 ppm	14.2318 ppm
Concentration per Run 3	0.0015 ppm	80.0827 ppm	0.1717 ppm	0.0074 ppm	0.1522 ppm	0.0035 ppm	14.2367 ppm
Concentration RSD	19.0 %	0.0 %	0.6 %	9.3 %	0.2 %	0.5 %	0.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0010 ppm	0.0289 ppm	0.1039 ppm	0.0667 ppm	74.1477 ppm	6.3720 ppm	0.0782 ppm
Concentration per Run 1	0.0011 ppm	0.0292 ppm	0.1035 ppm	0.0669 ppm	74.0605 ppm	6.4041 ppm	0.0786 ppm
Concentration per Run 2	0.0010 ppm	0.0288 ppm	0.1035 ppm	0.0665 ppm	74.1165 ppm	6.3610 ppm	0.0777 ppm
Concentration per Run 3	0.0010 ppm	0.0288 ppm	0.1046 ppm	0.0667 ppm	74.2662 ppm	6.3508 ppm	0.0782 ppm
Concentration RSD	3.5 %	0.9 %	0.6 %	0.3 %	0.1 %	0.4 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.7640 ppm	1.2780 ppm	0.0021 ppm	0.5528 ppm	0.0760 ppm	0.4413 ppm	0.0045 ppm
Concentration per Run 1	18.7103 ppm	1.2782 ppm	0.0019 ppm	0.5572 ppm	0.0757 ppm	0.4404 ppm	0.0032 ppm
Concentration per Run 2	18.7397 ppm	1.2786 ppm	0.0023 ppm	0.5523 ppm	0.0761 ppm	0.4417 ppm	0.0035 ppm
Concentration per Run 3	18.8418 ppm	1.2772 ppm	0.0021 ppm	0.5489 ppm	0.0760 ppm	0.4417 ppm	0.0067 ppm
Concentration RSD	0.4 %	0.1 %	10.2 %	0.8 %	0.3 %	0.2 %	43.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0057 ppm	7.9118 ppm	0.0060 ppm	0.0419 ppm	2.6594 ppm	0.0000 ppm	0.1403 ppm
Concentration per Run 1	0.0062 ppm	7.8887 ppm	0.0066 ppm	0.0418 ppm	2.6507 ppm	-0.0001 ppm	0.1398 ppm
Concentration per Run 2	0.0055 ppm	7.9079 ppm	0.0057 ppm	0.0420 ppm	2.6600 ppm	0.0003 ppm	0.1408 ppm
Concentration per Run 3	0.0052 ppm	7.9387 ppm	0.0057 ppm	0.0419 ppm	2.6676 ppm	0.0000 ppm	0.1403 ppm
Concentration RSD	9.0 %	0.3 %	9.2 %	0.2 %	0.3 %	516.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3501 ppm	108.7292 %	106.8602 %	105.9475 %	113.6855 %	99.9091 %	105.6725 %
Concentration per Run 1	0.3496 ppm	108.5478 %	106.9143 %	105.9479 %	113.7043 %	99.8754 %	105.8540 %
Concentration per Run 2	0.3501 ppm	108.9135 %	107.1423 %	105.9431 %	113.7471 %	100.0042 %	105.9791 %
Concentration per Run 3	0.3507 ppm	108.7263 %	106.5241 %	105.9513 %	113.6051 %	99.8477 %	105.1844 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.0 %	0.1 %	0.1 %	0.4 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-11d2 WG1975352
Analysis started at: 9/26/2024 7:37:46 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	88.9211 ppm	0.3316 ppm	0.0037 ppm	0.1645 ppm	0.0038 ppm	6.6277 ppm
Concentration per Run 1	0.0023 ppm	85.6641 ppm	0.3357 ppm	0.0039 ppm	0.1578 ppm	0.0036 ppm	6.3929 ppm
Concentration per Run 2	0.0020 ppm	89.5540 ppm	0.3316 ppm	0.0035 ppm	0.1662 ppm	0.0038 ppm	6.6704 ppm
Concentration per Run 3	0.0023 ppm	91.5452 ppm	0.3274 ppm	0.0038 ppm	0.1695 ppm	0.0040 ppm	6.8199 ppm
Concentration RSD	7.4 %	3.4 %	1.2 %	4.8 %	3.7 %	4.1 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0015 ppm	0.0253 ppm	0.1172 ppm	0.0677 ppm	70.8296 ppm	4.6254 ppm	0.0662 ppm
Concentration per Run 1	0.0015 ppm	0.0255 ppm	0.1169 ppm	0.0677 ppm	68.1198 ppm	4.4333 ppm	0.0622 ppm
Concentration per Run 2	0.0014 ppm	0.0254 ppm	0.1174 ppm	0.0679 ppm	71.3504 ppm	4.6830 ppm	0.0673 ppm
Concentration per Run 3	0.0015 ppm	0.0251 ppm	0.1175 ppm	0.0676 ppm	73.0185 ppm	4.7598 ppm	0.0690 ppm
Concentration RSD	2.0 %	0.8 %	0.3 %	0.2 %	3.5 %	3.7 %	5.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.2041 ppm	1.3021 ppm	0.0029 ppm	0.4192 ppm	0.0683 ppm	1.1106 ppm	0.0075 ppm
Concentration per Run 1	12.1864 ppm	1.2541 ppm	0.0032 ppm	0.4161 ppm	0.0689 ppm	1.1188 ppm	0.0094 ppm
Concentration per Run 2	12.2299 ppm	1.3114 ppm	0.0027 ppm	0.4201 ppm	0.0681 ppm	1.1097 ppm	0.0057 ppm
Concentration per Run 3	12.1959 ppm	1.3409 ppm	0.0029 ppm	0.4215 ppm	0.0680 ppm	1.1035 ppm	0.0073 ppm
Concentration RSD	0.2 %	3.4 %	9.1 %	0.7 %	0.7 %	0.7 %	24.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0047 ppm	8.3906 ppm	0.0067 ppm	0.0241 ppm	2.3654 ppm	0.0011 ppm	0.1362 ppm
Concentration per Run 1	0.0031 ppm	8.4253 ppm	0.0066 ppm	0.0232 ppm	2.3607 ppm	0.0015 ppm	0.1359 ppm
Concentration per Run 2	0.0068 ppm	8.4045 ppm	0.0065 ppm	0.0243 ppm	2.3674 ppm	0.0016 ppm	0.1367 ppm
Concentration per Run 3	0.0042 ppm	8.3418 ppm	0.0072 ppm	0.0249 ppm	2.3681 ppm	0.0001 ppm	0.1359 ppm
Concentration RSD	39.5 %	0.5 %	5.3 %	3.6 %	0.2 %	75.6 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2705 ppm	109.1964 %	105.6396 %	104.0179 %	114.9286 %	98.8866 %	105.0699 %
Concentration per Run 1	0.2723 ppm	112.2786 %	105.4673 %	104.3343 %	117.5544 %	98.8110 %	104.8611 %
Concentration per Run 2	0.2705 ppm	108.5828 %	105.8232 %	103.8330 %	114.1722 %	98.8724 %	105.0609 %
Concentration per Run 3	0.2688 ppm	106.7277 %	105.6282 %	103.8865 %	113.0592 %	98.9766 %	105.2876 %
Concentration RSD	0.7 %	2.6 %	0.2 %	0.3 %	2.0 %	0.1 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-12d2 WG1975352
Analysis started at: 9/26/2024 7:43:54 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0016 ppm	87.9941 ppm	0.2209 ppm	0.0024 ppm	0.1238 ppm	0.0037 ppm	4.0145 ppm
Concentration per Run 1	0.0015 ppm	86.6533 ppm	0.2228 ppm	0.0021 ppm	0.1216 ppm	0.0037 ppm	3.9375 ppm
Concentration per Run 2	0.0017 ppm	88.5707 ppm	0.2204 ppm	0.0028 ppm	0.1248 ppm	0.0038 ppm	4.0587 ppm
Concentration per Run 3	0.0017 ppm	88.7581 ppm	0.2195 ppm	0.0024 ppm	0.1249 ppm	0.0038 ppm	4.0472 ppm
Concentration RSD	7.7 %	1.3 %	0.8 %	14.8 %	1.5 %	1.0 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0010 ppm	0.0261 ppm	0.1172 ppm	0.0564 ppm	66.2936 ppm	4.7148 ppm	0.0713 ppm
Concentration per Run 1	0.0010 ppm	0.0262 ppm	0.1177 ppm	0.0565 ppm	65.1155 ppm	4.6160 ppm	0.0699 ppm
Concentration per Run 2	0.0010 ppm	0.0260 ppm	0.1167 ppm	0.0565 ppm	66.7808 ppm	4.7581 ppm	0.0729 ppm
Concentration per Run 3	0.0010 ppm	0.0262 ppm	0.1172 ppm	0.0561 ppm	66.9846 ppm	4.7701 ppm	0.0710 ppm
Concentration RSD	1.8 %	0.3 %	0.4 %	0.4 %	1.5 %	1.8 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.1780 ppm	1.0406 ppm	0.0015 ppm	0.4243 ppm	0.0787 ppm	0.5060 ppm	0.0060 ppm
Concentration per Run 1	11.2143 ppm	1.0221 ppm	0.0014 ppm	0.4152 ppm	0.0789 ppm	0.5097 ppm	0.0057 ppm
Concentration per Run 2	11.1559 ppm	1.0483 ppm	0.0016 ppm	0.4259 ppm	0.0789 ppm	0.5046 ppm	0.0066 ppm
Concentration per Run 3	11.1636 ppm	1.0514 ppm	0.0016 ppm	0.4318 ppm	0.0783 ppm	0.5038 ppm	0.0057 ppm
Concentration RSD	0.3 %	1.5 %	7.6 %	2.0 %	0.5 %	0.6 %	8.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0049 ppm	10.0311 ppm	0.0051 ppm	0.0222 ppm	2.8109 ppm	0.0009 ppm	0.1182 ppm
Concentration per Run 1	0.0067 ppm	10.0786 ppm	0.0049 ppm	0.0216 ppm	2.8172 ppm	0.0023 ppm	0.1185 ppm
Concentration per Run 2	0.0026 ppm	10.0248 ppm	0.0060 ppm	0.0225 ppm	2.8098 ppm	-0.0008 ppm	0.1181 ppm
Concentration per Run 3	0.0054 ppm	9.9898 ppm	0.0044 ppm	0.0224 ppm	2.8058 ppm	0.0013 ppm	0.1179 ppm
Concentration RSD	42.3 %	0.4 %	16.0 %	2.1 %	0.2 %	165.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2114 ppm	104.6989 %	104.2982 %	103.4702 %	108.6885 %	98.4220 %	104.1075 %
Concentration per Run 1	0.2130 ppm	105.8739 %	104.0888 %	102.9813 %	109.1768 %	97.7240 %	103.7711 %
Concentration per Run 2	0.2110 ppm	104.2631 %	104.4195 %	103.5380 %	107.9381 %	98.6617 %	104.3179 %
Concentration per Run 3	0.2101 ppm	103.9596 %	104.3864 %	103.8912 %	108.9506 %	98.8803 %	104.2336 %
Concentration RSD	0.7 %	1.0 %	0.2 %	0.4 %	0.6 %	0.6 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-13d2 WG1975352
Analysis started at: 9/26/2024 7:50:02 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	108.4010 ppm	0.4800 ppm	0.0046 ppm	0.3766 ppm	0.0047 ppm	7.5136 ppm
Concentration per Run 1	0.0021 ppm	104.3108 ppm	0.4781 ppm	0.0049 ppm	0.3627 ppm	0.0045 ppm	7.2401 ppm
Concentration per Run 2	0.0022 ppm	110.8148 ppm	0.4818 ppm	0.0046 ppm	0.3848 ppm	0.0048 ppm	7.6817 ppm
Concentration per Run 3	0.0025 ppm	110.0774 ppm	0.4801 ppm	0.0043 ppm	0.3824 ppm	0.0048 ppm	7.6191 ppm
Concentration RSD	9.1 %	3.3 %	0.4 %	7.6 %	3.2 %	4.0 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0265 ppm	0.1448 ppm	0.0674 ppm	87.0269 ppm	4.6284 ppm	0.0857 ppm
Concentration per Run 1	0.0018 ppm	0.0264 ppm	0.1446 ppm	0.0674 ppm	83.6093 ppm	4.4479 ppm	0.0830 ppm
Concentration per Run 2	0.0018 ppm	0.0266 ppm	0.1455 ppm	0.0679 ppm	89.1030 ppm	4.7172 ppm	0.0879 ppm
Concentration per Run 3	0.0018 ppm	0.0265 ppm	0.1442 ppm	0.0668 ppm	88.3683 ppm	4.7202 ppm	0.0862 ppm
Concentration RSD	1.3 %	0.3 %	0.5 %	0.8 %	3.4 %	3.4 %	2.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.7253 ppm	1.6147 ppm	0.0031 ppm	0.3873 ppm	0.0789 ppm	1.1658 ppm	0.0086 ppm
Concentration per Run 1	13.7203 ppm	1.5515 ppm	0.0034 ppm	0.3885 ppm	0.0788 ppm	1.1659 ppm	0.0085 ppm
Concentration per Run 2	13.7976 ppm	1.6516 ppm	0.0029 ppm	0.3842 ppm	0.0790 ppm	1.1658 ppm	0.0094 ppm
Concentration per Run 3	13.6579 ppm	1.6411 ppm	0.0031 ppm	0.3893 ppm	0.0789 ppm	1.1657 ppm	0.0080 ppm
Concentration RSD	0.5 %	3.4 %	8.0 %	0.7 %	0.1 %	0.0 %	8.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0068 ppm	8.8618 ppm	0.0157 ppm	0.0271 ppm	2.7218 ppm	0.0023 ppm	0.1638 ppm
Concentration per Run 1	0.0063 ppm	8.8336 ppm	0.0158 ppm	0.0260 ppm	2.7164 ppm	0.0023 ppm	0.1635 ppm
Concentration per Run 2	0.0052 ppm	8.8832 ppm	0.0155 ppm	0.0279 ppm	2.7370 ppm	0.0023 ppm	0.1648 ppm
Concentration per Run 3	0.0088 ppm	8.8686 ppm	0.0159 ppm	0.0274 ppm	2.7121 ppm	0.0024 ppm	0.1632 ppm
Concentration RSD	26.6 %	0.3 %	1.3 %	3.6 %	0.5 %	2.5 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3649 ppm	107.9637 %	106.2693 %	105.7408 %	111.1429 %	97.8795 %	103.5933 %
Concentration per Run 1	0.3656 ppm	112.0782 %	106.5721 %	105.7068 %	114.2287 %	97.8955 %	103.8794 %
Concentration per Run 2	0.3651 ppm	105.6418 %	105.9358 %	105.8542 %	109.4610 %	97.8231 %	103.0981 %
Concentration per Run 3	0.3640 ppm	106.1712 %	106.3001 %	105.6614 %	109.7388 %	97.9199 %	103.8025 %
Concentration RSD	0.2 %	3.3 %	0.3 %	0.1 %	2.4 %	0.1 %	0.4 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-14d2 WG1975352
Analysis started at: 9/26/2024 7:56:07 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	101.3386 ppm	0.2333 ppm	0.0029 ppm	0.1582 ppm	0.0041 ppm	4.7619 ppm
Concentration per Run 1	0.0023 ppm	91.8676 ppm	0.2326 ppm	0.0025 ppm	0.1434 ppm	0.0037 ppm	4.3187 ppm
Concentration per Run 2	0.0023 ppm	105.8353 ppm	0.2345 ppm	0.0029 ppm	0.1651 ppm	0.0044 ppm	4.9782 ppm
Concentration per Run 3	0.0028 ppm	106.3130 ppm	0.2329 ppm	0.0034 ppm	0.1660 ppm	0.0043 ppm	4.9888 ppm
Concentration RSD	12.9 %	8.1 %	0.4 %	16.6 %	8.1 %	8.4 %	8.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0243 ppm	0.1294 ppm	0.0599 ppm	77.5489 ppm	3.9237 ppm	0.0690 ppm
Concentration per Run 1	0.0018 ppm	0.0243 ppm	0.1295 ppm	0.0598 ppm	70.1568 ppm	3.5535 ppm	0.0629 ppm
Concentration per Run 2	0.0018 ppm	0.0242 ppm	0.1293 ppm	0.0598 ppm	81.0160 ppm	4.1121 ppm	0.0719 ppm
Concentration per Run 3	0.0017 ppm	0.0244 ppm	0.1293 ppm	0.0600 ppm	81.4739 ppm	4.1054 ppm	0.0721 ppm
Concentration RSD	2.3 %	0.4 %	0.1 %	0.1 %	8.3 %	8.2 %	7.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.9374 ppm	1.5926 ppm	0.0028 ppm	0.3612 ppm	0.0673 ppm	0.6382 ppm	0.0084 ppm
Concentration per Run 1	10.9267 ppm	1.4418 ppm	0.0026 ppm	0.3247 ppm	0.0672 ppm	0.6407 ppm	0.0089 ppm
Concentration per Run 2	10.9375 ppm	1.6632 ppm	0.0031 ppm	0.3866 ppm	0.0674 ppm	0.6382 ppm	0.0090 ppm
Concentration per Run 3	10.9481 ppm	1.6729 ppm	0.0028 ppm	0.3722 ppm	0.0673 ppm	0.6358 ppm	0.0074 ppm
Concentration RSD	0.1 %	8.2 %	9.1 %	9.0 %	0.2 %	0.4 %	10.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0055 ppm	8.6952 ppm	0.0084 ppm	0.0223 ppm	2.2468 ppm	0.0014 ppm	0.1544 ppm
Concentration per Run 1	0.0071 ppm	8.6953 ppm	0.0089 ppm	0.0201 ppm	2.2480 ppm	0.0018 ppm	0.1547 ppm
Concentration per Run 2	0.0046 ppm	8.7017 ppm	0.0083 ppm	0.0233 ppm	2.2465 ppm	0.0027 ppm	0.1540 ppm
Concentration per Run 3	0.0048 ppm	8.6887 ppm	0.0080 ppm	0.0235 ppm	2.2458 ppm	-0.0002 ppm	0.1544 ppm
Concentration RSD	25.3 %	0.1 %	5.5 %	8.5 %	0.1 %	103.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3224 ppm	113.2039 %	106.3205 %	105.7472 %	116.9860 %	98.9229 %	104.5963 %
Concentration per Run 1	0.3227 ppm	122.5593 %	106.5010 %	105.7440 %	125.1504 %	98.8469 %	104.7255 %
Concentration per Run 2	0.3225 ppm	108.4560 %	106.6315 %	105.8714 %	112.7160 %	98.9381 %	104.8172 %
Concentration per Run 3	0.3221 ppm	108.5965 %	105.8288 %	105.6261 %	113.0917 %	98.9836 %	104.2461 %
Concentration RSD	0.1 %	7.2 %	0.4 %	0.1 %	6.0 %	0.1 %	0.3 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 8:02:14 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5294 ppm	0.5351 ppm	0.4970 ppm	0.5056 ppm	0.4922 ppm	0.4957 ppm	0.4861 ppm
Concentration per Run 1	0.5335 ppm	0.5357 ppm	0.4955 ppm	0.5046 ppm	0.4897 ppm	0.4923 ppm	0.4814 ppm
Concentration per Run 2	0.5298 ppm	0.5408 ppm	0.4973 ppm	0.5065 ppm	0.4938 ppm	0.4972 ppm	0.4880 ppm
Concentration per Run 3	0.5249 ppm	0.5289 ppm	0.4983 ppm	0.5056 ppm	0.4932 ppm	0.4975 ppm	0.4890 ppm
Recovery Percentage 1	105.881 %	107.026 %	99.403 %	101.114 %	98.448 %	99.131 %	97.223 %
Concentration RSD	0.8 %	1.1 %	0.3 %	0.2 %	0.4 %	0.6 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4977 ppm	0.5111 ppm	0.5141 ppm	0.5039 ppm	0.5466 ppm	5.1433 ppm	0.4981 ppm
Concentration per Run 1	0.4975 ppm	0.5105 ppm	0.5187 ppm	0.5083 ppm	0.5460 ppm	5.1203 ppm	0.4934 ppm
Concentration per Run 2	0.4980 ppm	0.5114 ppm	0.5144 ppm	0.5041 ppm	0.5526 ppm	5.1644 ppm	0.5017 ppm
Concentration per Run 3	0.4976 ppm	0.5113 ppm	0.5093 ppm	0.4994 ppm	0.5413 ppm	5.1450 ppm	0.4993 ppm
Recovery Percentage 1	99.539 %	102.218 %	102.823 %	100.788 %	109.322 %	102.865 %	99.625 %
Concentration RSD	0.1 %	0.1 %	0.9 %	0.9 %	1.0 %	0.4 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5113 ppm	0.4928 ppm	0.4977 ppm	10.5650 ppm	0.5085 ppm	0.5076 ppm	0.5122 ppm
Concentration per Run 1	0.5141 ppm	0.4904 ppm	0.4925 ppm	10.4768 ppm	0.5079 ppm	0.5075 ppm	0.5088 ppm
Concentration per Run 2	0.5128 ppm	0.4938 ppm	0.4989 ppm	10.5976 ppm	0.5090 ppm	0.5078 ppm	0.5147 ppm
Concentration per Run 3	0.5071 ppm	0.4942 ppm	0.5017 ppm	10.6206 ppm	0.5085 ppm	0.5075 ppm	0.5131 ppm
Recovery Percentage 1	102.262 %	98.559 %	99.543 %	105.650 %	101.690 %	101.520 %	102.433 %
Concentration RSD	0.7 %	0.4 %	1.0 %	0.7 %	0.1 %	0.0 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5110 ppm	5.6726 ppm	0.4732 ppm	0.4718 ppm	0.5166 ppm	0.5086 ppm	0.5001 ppm
Concentration per Run 1	0.5111 ppm	5.6641 ppm	0.4734 ppm	0.4682 ppm	0.5212 ppm	0.5092 ppm	0.5049 ppm
Concentration per Run 2	0.5101 ppm	5.6769 ppm	0.4736 ppm	0.4737 ppm	0.5160 ppm	0.5066 ppm	0.4990 ppm
Concentration per Run 3	0.5118 ppm	5.6769 ppm	0.4725 ppm	0.4735 ppm	0.5126 ppm	0.5100 ppm	0.4965 ppm
Recovery Percentage 1	102.197 %	108.050 %	94.634 %	94.356 %	103.321 %	101.718 %	100.024 %
Concentration RSD	0.2 %	0.1 %	0.1 %	0.7 %	0.8 %	0.3 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5043 ppm	100.7469 %	99.5987 %	99.3123 %	109.9064 %	101.3143 %	102.9527 %
Concentration per Run 1	0.5040 ppm	101.1887 %	98.7320 %	99.3887 %	110.6864 %	101.3111 %	101.8730 %
Concentration per Run 2	0.5049 ppm	100.6181 %	99.7973 %	99.2272 %	109.8646 %	101.2580 %	103.2829 %
Concentration per Run 3	0.5040 ppm	100.4339 %	100.2668 %	99.3210 %	109.1681 %	101.3739 %	103.7023 %
Recovery Percentage 1	100.863 %						
Concentration RSD	0.1 %	0.4 %	0.8 %	0.1 %	0.7 %	0.1 %	0.9 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 8:08:16 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0152 ppm	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0005 ppm	-0.0022 ppm
Concentration per Run 1	0.0006 ppm	0.0112 ppm	-0.0001 ppm	0.0015 ppm	0.0003 ppm	0.0005 ppm	-0.0068 ppm
Concentration per Run 2	0.0008 ppm	0.0066 ppm	0.0002 ppm	0.0006 ppm	0.0004 ppm	0.0004 ppm	-0.0033 ppm
Concentration per Run 3	0.0003 ppm	0.0278 ppm	-0.0002 ppm	0.0007 ppm	0.0006 ppm	0.0005 ppm	0.0034 ppm
Recovery Percentage 1	8.279 %	15.219 %	-0.863 %	3.166 %	4.389 %	9.570 %	-2.226 %
Concentration RSD	43.0 %	73.4 %	486.1 %	51.8 %	38.4 %	9.9 %	234.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0125 ppm	-0.1017 ppm	-0.0043 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0095 ppm	-0.1200 ppm	-0.0050 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0129 ppm	-0.1389 ppm	-0.0044 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0151 ppm	-0.0461 ppm	-0.0036 ppm
Recovery Percentage 1	-0.119 %	0.174 %	0.098 %	6.897 %	25.025 %	-4.067 %	-43.268 %
Concentration RSD	335.6 %	443.2 %	3,020.9 %	50.5 %	22.5 %	48.2 %	16.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0018 ppm	0.0100 ppm	0.0002 ppm	-0.0006 ppm	0.0010 ppm
Concentration per Run 1	0.0032 ppm	0.0004 ppm	0.0021 ppm	0.0108 ppm	0.0006 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 2	-0.0015 ppm	0.0007 ppm	0.0017 ppm	0.0100 ppm	0.0001 ppm	-0.0006 ppm	0.0017 ppm
Concentration per Run 3	-0.0025 ppm	0.0008 ppm	0.0017 ppm	0.0091 ppm	0.0000 ppm	-0.0012 ppm	-0.0004 ppm
Recovery Percentage 1	-0.285 %	6.426 %	3.694 %	0.499 %	0.954 %	-5.564 %	2.010 %
Concentration RSD	1,068.5 %	38.5 %	13.0 %	8.2 %	124.2 %	114.7 %	118.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	0.0173 ppm	0.0003 ppm	0.0005 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0008 ppm	0.0168 ppm	0.0007 ppm	0.0005 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.0174 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 3	-0.0008 ppm	0.0178 ppm	-0.0001 ppm	0.0007 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-1.574 %	3.465 %	0.566 %	4.948 %	2.940 %	-1.873 %	-0.489 %
Concentration RSD	689.8 %	2.7 %	147.1 %	36.2 %	88.6 %	196.9 %	485.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	104.8169 %	95.3672 %	99.6787 %	107.7071 %	99.7220 %	94.8227 %
Concentration per Run 1	0.0003 ppm	108.4869 %	91.8470 %	98.9702 %	109.5898 %	98.5791 %	91.2823 %
Concentration per Run 2	0.0003 ppm	103.6507 %	95.5348 %	99.5133 %	106.8780 %	99.6146 %	95.0292 %
Concentration per Run 3	0.0003 ppm	102.3130 %	98.7199 %	100.5524 %	106.6533 %	100.9723 %	98.1565 %
Recovery Percentage 1	5.801 %						
Concentration RSD	9.3 %	3.1 %	3.6 %	0.8 %	1.5 %	1.2 %	3.6 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-15d2 WG1975352
Analysis started at: 9/26/2024 8:20:10 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	104.2567 ppm	0.3435 ppm	0.0048 ppm	0.3973 ppm	0.0054 ppm	10.3127 ppm
Concentration per Run 1	0.0027 ppm	109.0554 ppm	0.3426 ppm	0.0049 ppm	0.4152 ppm	0.0056 ppm	10.7950 ppm
Concentration per Run 2	0.0028 ppm	102.1117 ppm	0.3433 ppm	0.0046 ppm	0.3895 ppm	0.0053 ppm	10.0901 ppm
Concentration per Run 3	0.0027 ppm	101.6030 ppm	0.3447 ppm	0.0048 ppm	0.3871 ppm	0.0053 ppm	10.0530 ppm
Concentration RSD	2.6 %	4.0 %	0.3 %	3.6 %	3.9 %	3.4 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0019 ppm	0.0321 ppm	0.1719 ppm	0.0884 ppm	96.0896 ppm	6.2784 ppm	0.1006 ppm
Concentration per Run 1	0.0019 ppm	0.0322 ppm	0.1716 ppm	0.0882 ppm	100.3804 ppm	6.5729 ppm	0.1063 ppm
Concentration per Run 2	0.0020 ppm	0.0320 ppm	0.1712 ppm	0.0882 ppm	94.1695 ppm	6.1233 ppm	0.0978 ppm
Concentration per Run 3	0.0019 ppm	0.0320 ppm	0.1729 ppm	0.0886 ppm	93.7188 ppm	6.1391 ppm	0.0978 ppm
Concentration RSD	1.3 %	0.4 %	0.5 %	0.3 %	3.9 %	4.1 %	4.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.9136 ppm	1.7376 ppm	0.0042 ppm	0.5681 ppm	0.0885 ppm	1.0860 ppm	0.0072 ppm
Concentration per Run 1	16.8992 ppm	1.8159 ppm	0.0042 ppm	0.5916 ppm	0.0882 ppm	1.0829 ppm	0.0057 ppm
Concentration per Run 2	16.8778 ppm	1.7023 ppm	0.0041 ppm	0.5625 ppm	0.0886 ppm	1.0874 ppm	0.0069 ppm
Concentration per Run 3	16.9639 ppm	1.6947 ppm	0.0042 ppm	0.5501 ppm	0.0886 ppm	1.0878 ppm	0.0090 ppm
Concentration RSD	0.3 %	3.9 %	1.7 %	3.8 %	0.3 %	0.2 %	23.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0055 ppm	8.4173 ppm	0.0093 ppm	0.0374 ppm	2.6170 ppm	0.0020 ppm	0.1822 ppm
Concentration per Run 1	0.0063 ppm	8.3713 ppm	0.0091 ppm	0.0390 ppm	2.6143 ppm	0.0030 ppm	0.1824 ppm
Concentration per Run 2	0.0034 ppm	8.4181 ppm	0.0092 ppm	0.0365 ppm	2.6140 ppm	0.0023 ppm	0.1824 ppm
Concentration per Run 3	0.0068 ppm	8.4627 ppm	0.0096 ppm	0.0365 ppm	2.6227 ppm	0.0008 ppm	0.1817 ppm
Concentration RSD	33.7 %	0.5 %	2.8 %	3.9 %	0.2 %	56.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4420 ppm	111.5972 %	112.2205 %	111.3426 %	109.9027 %	99.4525 %	105.6661 %
Concentration per Run 1	0.4415 ppm	107.3727 %	112.3058 %	111.4656 %	105.7136 %	99.6490 %	105.7583 %
Concentration per Run 2	0.4428 ppm	113.9195 %	112.1490 %	111.2437 %	111.6911 %	99.3226 %	105.7810 %
Concentration per Run 3	0.4418 ppm	113.4993 %	112.2066 %	111.3185 %	112.3035 %	99.3861 %	105.4592 %
Concentration RSD	0.2 %	3.3 %	0.1 %	0.1 %	3.3 %	0.2 %	0.2 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-16d2 WG1975352
Analysis started at: 9/26/2024 8:26:17 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	88.4117 ppm	0.4061 ppm	0.0041 ppm	0.2860 ppm	0.0040 ppm	8.1254 ppm
Concentration per Run 1	0.0024 ppm	89.1897 ppm	0.4092 ppm	0.0046 ppm	0.2890 ppm	0.0040 ppm	8.2074 ppm
Concentration per Run 2	0.0021 ppm	87.6693 ppm	0.4064 ppm	0.0046 ppm	0.2836 ppm	0.0039 ppm	8.0445 ppm
Concentration per Run 3	0.0024 ppm	88.3760 ppm	0.4028 ppm	0.0032 ppm	0.2853 ppm	0.0040 ppm	8.1243 ppm
Concentration RSD	9.1 %	0.9 %	0.8 %	19.9 %	1.0 %	0.9 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0197 ppm	0.1311 ppm	0.0637 ppm	74.8933 ppm	3.1751 ppm	0.0608 ppm
Concentration per Run 1	0.0016 ppm	0.0200 ppm	0.1314 ppm	0.0639 ppm	75.4873 ppm	3.1854 ppm	0.0609 ppm
Concentration per Run 2	0.0017 ppm	0.0197 ppm	0.1313 ppm	0.0637 ppm	74.2529 ppm	3.1724 ppm	0.0613 ppm
Concentration per Run 3	0.0016 ppm	0.0194 ppm	0.1305 ppm	0.0636 ppm	74.9397 ppm	3.1675 ppm	0.0602 ppm
Concentration RSD	2.7 %	1.5 %	0.4 %	0.3 %	0.8 %	0.3 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8169 ppm	1.8064 ppm	0.0038 ppm	0.3914 ppm	0.0574 ppm	1.2985 ppm	0.0079 ppm
Concentration per Run 1	9.8157 ppm	1.8230 ppm	0.0039 ppm	0.3927 ppm	0.0580 ppm	1.3072 ppm	0.0088 ppm
Concentration per Run 2	9.8358 ppm	1.7872 ppm	0.0036 ppm	0.3963 ppm	0.0573 ppm	1.3045 ppm	0.0066 ppm
Concentration per Run 3	9.7994 ppm	1.8089 ppm	0.0039 ppm	0.3850 ppm	0.0571 ppm	1.2838 ppm	0.0083 ppm
Concentration RSD	0.2 %	1.0 %	4.3 %	1.5 %	0.9 %	1.0 %	14.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0071 ppm	7.6759 ppm	0.0108 ppm	0.0272 ppm	1.7961 ppm	0.0006 ppm	0.1400 ppm
Concentration per Run 1	0.0078 ppm	7.7186 ppm	0.0106 ppm	0.0275 ppm	1.7976 ppm	-0.0001 ppm	0.1404 ppm
Concentration per Run 2	0.0070 ppm	7.6976 ppm	0.0111 ppm	0.0270 ppm	1.7982 ppm	0.0008 ppm	0.1399 ppm
Concentration per Run 3	0.0064 ppm	7.6115 ppm	0.0106 ppm	0.0271 ppm	1.7924 ppm	0.0011 ppm	0.1398 ppm
Concentration RSD	9.9 %	0.7 %	2.5 %	1.0 %	0.2 %	108.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3683 ppm	110.1601 %	108.0538 %	107.5828 %	111.2886 %	98.8098 %	104.1559 %
Concentration per Run 1	0.3709 ppm	109.5972 %	108.0369 %	107.5823 %	110.8449 %	98.8767 %	104.0916 %
Concentration per Run 2	0.3697 ppm	110.5511 %	107.9315 %	107.0800 %	111.1784 %	98.3151 %	103.8165 %
Concentration per Run 3	0.3642 ppm	110.3321 %	108.1929 %	108.0861 %	111.8426 %	99.2376 %	104.5597 %
Concentration RSD	1.0 %	0.5 %	0.1 %	0.5 %	0.5 %	0.5 %	0.4 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-17d2 WG1975352
Analysis started at: 9/26/2024 8:32:26 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0020 ppm	90.4147 ppm	0.4549 ppm	0.0029 ppm	0.1768 ppm	0.0041 ppm	5.8034 ppm
Concentration per Run 1	0.0025 ppm	89.5264 ppm	0.4566 ppm	0.0032 ppm	0.1751 ppm	0.0041 ppm	5.7433 ppm
Concentration per Run 2	0.0016 ppm	91.2881 ppm	0.4532 ppm	0.0026 ppm	0.1784 ppm	0.0041 ppm	5.8525 ppm
Concentration per Run 3	0.0019 ppm	90.4295 ppm	0.4548 ppm	0.0030 ppm	0.1768 ppm	0.0041 ppm	5.8143 ppm
Concentration RSD	22.8 %	1.0 %	0.4 %	9.9 %	0.9 %	0.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0017 ppm	0.0225 ppm	0.1239 ppm	0.0690 ppm	72.0398 ppm	3.1410 ppm	0.0660 ppm
Concentration per Run 1	0.0017 ppm	0.0224 ppm	0.1249 ppm	0.0686 ppm	71.1516 ppm	3.1075 ppm	0.0640 ppm
Concentration per Run 2	0.0017 ppm	0.0224 ppm	0.1230 ppm	0.0687 ppm	72.8280 ppm	3.2018 ppm	0.0660 ppm
Concentration per Run 3	0.0017 ppm	0.0227 ppm	0.1239 ppm	0.0696 ppm	72.1399 ppm	3.1136 ppm	0.0680 ppm
Concentration RSD	1.1 %	0.7 %	0.7 %	0.8 %	1.2 %	1.7 %	3.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0327 ppm	1.6030 ppm	0.0030 ppm	0.3611 ppm	0.0646 ppm	1.1334 ppm	0.0066 ppm
Concentration per Run 1	10.0464 ppm	1.5852 ppm	0.0032 ppm	0.3560 ppm	0.0648 ppm	1.1344 ppm	0.0048 ppm
Concentration per Run 2	9.9993 ppm	1.6197 ppm	0.0029 ppm	0.3595 ppm	0.0644 ppm	1.1307 ppm	0.0065 ppm
Concentration per Run 3	10.0525 ppm	1.6042 ppm	0.0029 ppm	0.3679 ppm	0.0647 ppm	1.1350 ppm	0.0085 ppm
Concentration RSD	0.3 %	1.1 %	5.1 %	1.7 %	0.3 %	0.2 %	28.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0064 ppm	9.7973 ppm	0.0070 ppm	0.0201 ppm	2.0279 ppm	0.0007 ppm	0.1314 ppm
Concentration per Run 1	0.0067 ppm	9.7863 ppm	0.0069 ppm	0.0198 ppm	2.0285 ppm	0.0001 ppm	0.1314 ppm
Concentration per Run 2	0.0071 ppm	9.7832 ppm	0.0073 ppm	0.0204 ppm	2.0215 ppm	0.0018 ppm	0.1309 ppm
Concentration per Run 3	0.0055 ppm	9.8224 ppm	0.0070 ppm	0.0201 ppm	2.0337 ppm	0.0003 ppm	0.1318 ppm
Concentration RSD	12.9 %	0.2 %	3.3 %	1.6 %	0.3 %	133.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3817 ppm	107.6012 %	107.3029 %	106.7183 %	108.3243 %	97.9249 %	103.1983 %
Concentration per Run 1	0.3821 ppm	108.0280 %	107.0438 %	106.7800 %	108.5318 %	97.7691 %	102.8637 %
Concentration per Run 2	0.3811 ppm	106.7769 %	107.7905 %	106.8283 %	107.5594 %	98.2071 %	103.6789 %
Concentration per Run 3	0.3819 ppm	107.9988 %	107.0745 %	106.5467 %	108.8817 %	97.7984 %	103.0524 %
Concentration RSD	0.1 %	0.7 %	0.4 %	0.1 %	0.6 %	0.3 %	0.4 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-18d2 WG1975352
Analysis started at: 9/26/2024 8:38:35 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	113.7953 ppm	0.2528 ppm	0.0042 ppm	0.2362 ppm	0.0056 ppm	6.8056 ppm
Concentration per Run 1	0.0024 ppm	113.6755 ppm	0.2515 ppm	0.0045 ppm	0.2363 ppm	0.0056 ppm	6.8007 ppm
Concentration per Run 2	0.0026 ppm	114.9773 ppm	0.2545 ppm	0.0036 ppm	0.2388 ppm	0.0056 ppm	6.8697 ppm
Concentration per Run 3	0.0024 ppm	112.7332 ppm	0.2524 ppm	0.0045 ppm	0.2336 ppm	0.0055 ppm	6.7463 ppm
Concentration RSD	3.9 %	1.0 %	0.6 %	12.8 %	1.1 %	1.2 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0396 ppm	0.1993 ppm	0.0746 ppm	92.7840 ppm	7.8307 ppm	0.1051 ppm
Concentration per Run 1	0.0017 ppm	0.0399 ppm	0.1978 ppm	0.0741 ppm	92.5537 ppm	7.8331 ppm	0.1044 ppm
Concentration per Run 2	0.0016 ppm	0.0396 ppm	0.2000 ppm	0.0749 ppm	93.7801 ppm	7.9129 ppm	0.1062 ppm
Concentration per Run 3	0.0016 ppm	0.0392 ppm	0.2001 ppm	0.0747 ppm	92.0182 ppm	7.7463 ppm	0.1045 ppm
Concentration RSD	2.4 %	0.9 %	0.6 %	0.5 %	1.0 %	1.1 %	1.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.4296 ppm	1.7101 ppm	0.0028 ppm	0.5046 ppm	0.1053 ppm	0.6700 ppm	0.0065 ppm
Concentration per Run 1	18.3143 ppm	1.7092 ppm	0.0027 ppm	0.5094 ppm	0.1057 ppm	0.6715 ppm	0.0066 ppm
Concentration per Run 2	18.4962 ppm	1.7295 ppm	0.0026 ppm	0.5029 ppm	0.1058 ppm	0.6713 ppm	0.0065 ppm
Concentration per Run 3	18.4781 ppm	1.6915 ppm	0.0031 ppm	0.5016 ppm	0.1045 ppm	0.6672 ppm	0.0064 ppm
Concentration RSD	0.5 %	1.1 %	9.1 %	0.8 %	0.7 %	0.4 %	1.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0034 ppm	8.4496 ppm	0.0076 ppm	0.0281 ppm	3.9678 ppm	0.0027 ppm	0.1749 ppm
Concentration per Run 1	0.0019 ppm	8.4831 ppm	0.0071 ppm	0.0280 ppm	3.9493 ppm	0.0026 ppm	0.1741 ppm
Concentration per Run 2	0.0049 ppm	8.4528 ppm	0.0079 ppm	0.0283 ppm	3.9806 ppm	0.0029 ppm	0.1750 ppm
Concentration per Run 3	0.0034 ppm	8.4130 ppm	0.0077 ppm	0.0278 ppm	3.9736 ppm	0.0028 ppm	0.1757 ppm
Concentration RSD	45.2 %	0.4 %	6.0 %	0.8 %	0.4 %	5.9 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3092 ppm	107.8016 %	108.7365 %	108.2250 %	108.2725 %	99.0618 %	104.9475 %
Concentration per Run 1	0.3103 ppm	107.7015 %	109.5866 %	108.3420 %	107.3028 %	99.3003 %	105.7751 %
Concentration per Run 2	0.3093 ppm	107.0267 %	108.2640 %	108.1016 %	107.1981 %	98.9655 %	104.5007 %
Concentration per Run 3	0.3079 ppm	108.6765 %	108.3589 %	108.2314 %	110.3165 %	98.9198 %	104.5668 %
Concentration RSD	0.4 %	0.8 %	0.7 %	0.1 %	1.6 %	0.2 %	0.7 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-19d2 WG1975352
Analysis started at: 9/26/2024 8:45:02 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	105.4890 ppm	0.6274 ppm	0.0049 ppm	0.2019 ppm	0.0052 ppm	14.1851 ppm
Concentration per Run 1	0.0029 ppm	103.8129 ppm	0.6260 ppm	0.0046 ppm	0.1987 ppm	0.0051 ppm	13.9546 ppm
Concentration per Run 2	0.0031 ppm	106.4337 ppm	0.6270 ppm	0.0045 ppm	0.2039 ppm	0.0052 ppm	14.2962 ppm
Concentration per Run 3	0.0030 ppm	106.2204 ppm	0.6292 ppm	0.0055 ppm	0.2031 ppm	0.0052 ppm	14.3046 ppm
Concentration RSD	3.5 %	1.4 %	0.3 %	11.2 %	1.4 %	1.6 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0020 ppm	0.0311 ppm	0.2914 ppm	0.1246 ppm	90.6242 ppm	5.0724 ppm	0.0845 ppm
Concentration per Run 1	0.0020 ppm	0.0313 ppm	0.2923 ppm	0.1250 ppm	89.1196 ppm	4.9907 ppm	0.0834 ppm
Concentration per Run 2	0.0019 ppm	0.0311 ppm	0.2945 ppm	0.1260 ppm	91.4491 ppm	5.1303 ppm	0.0833 ppm
Concentration per Run 3	0.0020 ppm	0.0310 ppm	0.2875 ppm	0.1229 ppm	91.3040 ppm	5.0963 ppm	0.0866 ppm
Concentration RSD	3.4 %	0.4 %	1.2 %	1.3 %	1.4 %	1.4 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.7821 ppm	1.9053 ppm	0.0034 ppm	0.5600 ppm	0.0789 ppm	0.7665 ppm	0.0079 ppm
Concentration per Run 1	13.8116 ppm	1.8759 ppm	0.0034 ppm	0.5551 ppm	0.0788 ppm	0.7672 ppm	0.0079 ppm
Concentration per Run 2	13.9245 ppm	1.9236 ppm	0.0035 ppm	0.5687 ppm	0.0792 ppm	0.7645 ppm	0.0092 ppm
Concentration per Run 3	13.6101 ppm	1.9165 ppm	0.0033 ppm	0.5562 ppm	0.0787 ppm	0.7677 ppm	0.0067 ppm
Concentration RSD	1.2 %	1.4 %	2.9 %	1.3 %	0.3 %	0.2 %	15.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0064 ppm	8.9840 ppm	0.0097 ppm	0.0436 ppm	2.6659 ppm	0.0030 ppm	0.1809 ppm
Concentration per Run 1	0.0023 ppm	8.9654 ppm	0.0098 ppm	0.0428 ppm	2.6720 ppm	0.0018 ppm	0.1813 ppm
Concentration per Run 2	0.0085 ppm	8.9755 ppm	0.0098 ppm	0.0442 ppm	2.6928 ppm	0.0036 ppm	0.1823 ppm
Concentration per Run 3	0.0083 ppm	9.0110 ppm	0.0096 ppm	0.0437 ppm	2.6329 ppm	0.0038 ppm	0.1792 ppm
Concentration RSD	55.5 %	0.3 %	1.1 %	1.7 %	1.1 %	36.6 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0067 ppm	110.7428 %	109.5981 %	109.1275 %	109.3504 %	97.0954 %	102.9003 %
Concentration per Run 1	1.0070 ppm	111.8236 %	109.5098 %	109.0298 %	109.9466 %	97.0722 %	102.8126 %
Concentration per Run 2	1.0052 ppm	111.0459 %	108.3189 %	109.2753 %	109.6267 %	97.2388 %	101.9071 %
Concentration per Run 3	1.0079 ppm	109.3588 %	110.9656 %	109.0774 %	108.4780 %	96.9752 %	103.9812 %
Concentration RSD	0.1 %	1.1 %	1.2 %	0.1 %	0.7 %	0.1 %	1.0 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-20d2 WG1975352
Analysis started at: 9/26/2024 8:51:29 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0021 ppm	97.7899 ppm	0.4089 ppm	0.0039 ppm	0.1512 ppm	0.0038 ppm	13.8229 ppm
Concentration per Run 1	0.0023 ppm	101.6774 ppm	0.3921 ppm	0.0037 ppm	0.1574 ppm	0.0039 ppm	14.3754 ppm
Concentration per Run 2	0.0022 ppm	96.0622 ppm	0.4184 ppm	0.0041 ppm	0.1484 ppm	0.0037 ppm	13.5620 ppm
Concentration per Run 3	0.0018 ppm	95.6302 ppm	0.4163 ppm	0.0038 ppm	0.1479 ppm	0.0037 ppm	13.5314 ppm
Concentration RSD	13.9 %	3.4 %	3.6 %	5.7 %	3.5 %	3.0 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0214 ppm	0.1544 ppm	0.0723 ppm	85.6152 ppm	4.6372 ppm	0.0782 ppm
Concentration per Run 1	0.0014 ppm	0.0206 ppm	0.1545 ppm	0.0725 ppm	88.9301 ppm	4.8188 ppm	0.0823 ppm
Concentration per Run 2	0.0015 ppm	0.0218 ppm	0.1543 ppm	0.0722 ppm	84.1129 ppm	4.5428 ppm	0.0735 ppm
Concentration per Run 3	0.0015 ppm	0.0219 ppm	0.1544 ppm	0.0723 ppm	83.8026 ppm	4.5500 ppm	0.0787 ppm
Concentration RSD	3.4 %	3.4 %	0.1 %	0.2 %	3.4 %	3.4 %	5.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.4876 ppm	1.5800 ppm	0.0032 ppm	0.4520 ppm	0.0593 ppm	1.4909 ppm	0.0072 ppm
Concentration per Run 1	16.4909 ppm	1.6414 ppm	0.0032 ppm	0.4667 ppm	0.0574 ppm	1.4394 ppm	0.0058 ppm
Concentration per Run 2	16.5155 ppm	1.5538 ppm	0.0033 ppm	0.4529 ppm	0.0600 ppm	1.5107 ppm	0.0075 ppm
Concentration per Run 3	16.4564 ppm	1.5447 ppm	0.0033 ppm	0.4364 ppm	0.0606 ppm	1.5228 ppm	0.0083 ppm
Concentration RSD	0.2 %	3.4 %	1.6 %	3.4 %	2.9 %	3.0 %	17.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0027 ppm	7.7130 ppm	0.0086 ppm	0.0314 ppm	2.1406 ppm	-0.0001 ppm	0.1642 ppm
Concentration per Run 1	0.0018 ppm	7.4206 ppm	0.0079 ppm	0.0324 ppm	2.1410 ppm	-0.0007 ppm	0.1645 ppm
Concentration per Run 2	0.0034 ppm	7.8203 ppm	0.0088 ppm	0.0308 ppm	2.1425 ppm	0.0001 ppm	0.1643 ppm
Concentration per Run 3	0.0028 ppm	7.8980 ppm	0.0091 ppm	0.0309 ppm	2.1385 ppm	0.0003 ppm	0.1638 ppm
Concentration RSD	30.4 %	3.3 %	7.5 %	3.0 %	0.1 %	679.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6113 ppm	104.8230 %	104.4285 %	107.0243 %	108.5730 %	101.2163 %	103.2327 %
Concentration per Run 1	0.5886 ppm	101.1618 %	104.7915 %	110.0411 %	105.2394 %	104.5552 %	103.4484 %
Concentration per Run 2	0.6210 ppm	106.2902 %	103.7861 %	105.6295 %	109.2944 %	99.8604 %	102.6452 %
Concentration per Run 3	0.6242 ppm	107.0169 %	104.7078 %	105.4022 %	111.1852 %	99.2334 %	103.6046 %
Concentration RSD	3.2 %	3.0 %	0.5 %	2.4 %	2.8 %	2.9 %	0.5 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 8:57:38 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5359 ppm	0.6331 ppm	0.5079 ppm	0.5146 ppm	0.5098 ppm	0.5131 ppm	0.5192 ppm
Concentration per Run 1	0.5361 ppm	0.7003 ppm	0.5070 ppm	0.5137 ppm	0.5052 ppm	0.5079 ppm	0.5223 ppm
Concentration per Run 2	0.5363 ppm	0.6074 ppm	0.5086 ppm	0.5142 ppm	0.5139 ppm	0.5174 ppm	0.5192 ppm
Concentration per Run 3	0.5353 ppm	0.5916 ppm	0.5081 ppm	0.5160 ppm	0.5102 ppm	0.5141 ppm	0.5162 ppm
Recovery Percentage 1	107.177 %	126.621 %	101.581 %	102.925 %	101.952 %	102.625 %	103.847 %
Concentration RSD	0.1 %	9.3 %	0.2 %	0.2 %	0.9 %	0.9 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5081 ppm	0.5214 ppm	0.5220 ppm	0.5126 ppm	0.6408 ppm	5.3609 ppm	0.5154 ppm
Concentration per Run 1	0.5081 ppm	0.5217 ppm	0.5213 ppm	0.5130 ppm	0.6862 ppm	5.2806 ppm	0.5115 ppm
Concentration per Run 2	0.5076 ppm	0.5207 ppm	0.5231 ppm	0.5132 ppm	0.6253 ppm	5.4582 ppm	0.5190 ppm
Concentration per Run 3	0.5086 ppm	0.5218 ppm	0.5216 ppm	0.5117 ppm	0.6111 ppm	5.3439 ppm	0.5157 ppm
Recovery Percentage 1	101.622 %	104.280 %	104.398 %	102.529 %	128.167 %	107.218 %	103.085 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	6.2 %	1.7 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5232 ppm	0.5088 ppm	0.5073 ppm	10.9900 ppm	0.5197 ppm	0.5186 ppm	0.5227 ppm
Concentration per Run 1	0.5217 ppm	0.5038 ppm	0.5027 ppm	10.9274 ppm	0.5199 ppm	0.5185 ppm	0.5212 ppm
Concentration per Run 2	0.5253 ppm	0.5128 ppm	0.5079 ppm	11.0608 ppm	0.5188 ppm	0.5183 ppm	0.5220 ppm
Concentration per Run 3	0.5226 ppm	0.5097 ppm	0.5113 ppm	10.9819 ppm	0.5204 ppm	0.5191 ppm	0.5250 ppm
Recovery Percentage 1	104.638 %	101.755 %	101.455 %	109.900 %	103.940 %	103.727 %	104.548 %
Concentration RSD	0.4 %	0.9 %	0.9 %	0.6 %	0.2 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5185 ppm	5.7729 ppm	0.4837 ppm	0.4873 ppm	0.5246 ppm	0.5206 ppm	0.5081 ppm
Concentration per Run 1	0.5203 ppm	5.7733 ppm	0.4837 ppm	0.4815 ppm	0.5243 ppm	0.5204 ppm	0.5091 ppm
Concentration per Run 2	0.5167 ppm	5.7682 ppm	0.4839 ppm	0.4917 ppm	0.5241 ppm	0.5187 ppm	0.5082 ppm
Concentration per Run 3	0.5185 ppm	5.7772 ppm	0.4835 ppm	0.4887 ppm	0.5252 ppm	0.5225 ppm	0.5069 ppm
Recovery Percentage 1	103.702 %	109.960 %	96.737 %	97.464 %	104.912 %	104.114 %	101.614 %
Concentration RSD	0.4 %	0.1 %	0.0 %	1.1 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5154 ppm	96.7748 %	97.6476 %	96.9922 %	104.7090 %	98.6480 %	100.8643 %
Concentration per Run 1	0.5157 ppm	97.0605 %	97.8135 %	96.8362 %	104.6442 %	98.5822 %	101.0268 %
Concentration per Run 2	0.5149 ppm	96.0340 %	97.4115 %	97.1840 %	104.1685 %	98.8459 %	100.5128 %
Concentration per Run 3	0.5156 ppm	97.2299 %	97.7177 %	96.9564 %	105.3145 %	98.5160 %	101.0534 %
Recovery Percentage 1	103.083 %						
Concentration RSD	0.1 %	0.7 %	0.2 %	0.2 %	0.5 %	0.2 %	0.3 %

ICP DataTrace 5

9/26/2024 9:11:41 PM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 9:03:40 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0037 ppm	-0.0012 ppm	0.0009 ppm	0.0003 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0040 ppm	-0.0006 ppm	0.0009 ppm	0.0004 ppm	0.0005 ppm	-0.0037 ppm
Concentration per Run 2	0.0007 ppm	0.0049 ppm	-0.0008 ppm	0.0011 ppm	0.0002 ppm	0.0003 ppm	0.0016 ppm
Concentration per Run 3	0.0007 ppm	0.0022 ppm	-0.0023 ppm	0.0008 ppm	0.0002 ppm	0.0003 ppm	0.0014 ppm
Recovery Percentage 1	7.907 %	3.679 %	-24.657 %	3.113 %	2.776 %	7.584 %	-0.236 %
Concentration RSD	46.2 %	36.8 %	73.0 %	15.7 %	50.6 %	38.7 %	1,262.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0105 ppm	-0.0883 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0133 ppm	-0.0661 ppm	-0.0041 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0105 ppm	-0.0992 ppm	-0.0025 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0076 ppm	-0.0996 ppm	-0.0023 ppm
Recovery Percentage 1	-0.153 %	-0.159 %	2.794 %	3.381 %	20.910 %	-3.532 %	-29.955 %
Concentration RSD	403.7 %	120.4 %	70.8 %	79.2 %	27.1 %	21.8 %	32.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	0.0003 ppm	0.0018 ppm	0.0040 ppm	0.0001 ppm	-0.0004 ppm	0.0024 ppm
Concentration per Run 1	0.0011 ppm	0.0006 ppm	0.0021 ppm	0.0025 ppm	0.0005 ppm	-0.0003 ppm	0.0022 ppm
Concentration per Run 2	0.0011 ppm	0.0002 ppm	0.0018 ppm	-0.0015 ppm	-0.0002 ppm	-0.0004 ppm	0.0022 ppm
Concentration per Run 3	0.0006 ppm	0.0001 ppm	0.0016 ppm	0.0111 ppm	0.0002 ppm	-0.0005 ppm	0.0027 ppm
Recovery Percentage 1	0.913 %	2.907 %	3.693 %	0.202 %	0.560 %	-4.158 %	4.741 %
Concentration RSD	33.5 %	99.7 %	13.9 %	160.1 %	237.6 %	20.3 %	13.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	0.0147 ppm	0.0005 ppm	0.0002 ppm	0.0006 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0007 ppm	0.0160 ppm	0.0004 ppm	0.0004 ppm	0.0006 ppm	-0.0013 ppm	0.0006 ppm
Concentration per Run 2	-0.0007 ppm	0.0135 ppm	0.0007 ppm	0.0000 ppm	0.0006 ppm	-0.0022 ppm	0.0004 ppm
Concentration per Run 3	-0.0007 ppm	0.0144 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage 1	-2.438 %	2.933 %	0.993 %	1.516 %	5.724 %	-4.511 %	3.880 %
Concentration RSD	327.4 %	8.5 %	41.5 %	140.6 %	9.5 %	174.5 %	66.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	98.5819 %	99.6628 %	98.2920 %	99.8984 %	98.5807 %	99.7101 %
Concentration per Run 1	0.0003 ppm	99.6112 %	99.6191 %	98.6273 %	99.2152 %	98.6692 %	99.5004 %
Concentration per Run 2	0.0003 ppm	97.9330 %	99.4818 %	98.0206 %	99.7326 %	98.5689 %	99.5130 %
Concentration per Run 3	0.0003 ppm	98.2016 %	99.8875 %	98.2282 %	100.7473 %	98.5039 %	100.1170 %
Recovery Percentage 1	5.682 %						
Concentration RSD	5.1 %	0.9 %	0.2 %	0.3 %	0.8 %	0.1 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: Blank JMF Trace4
Analysis started at: 9/26/2024 8:57:09 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.8 %	0.8 %	0.7 %	0.3 %	0.1 %	-0.5 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.9 %	-0.3 %	0.4 %	0.0 %	4.1 %	-0.3 %	0.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.7 %	1.1 %	0.3 %	-3.1 %	-0.2 %	-0.3 %	-0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	0.0 %	0.2 %	-0.1 %	-0.4 %	-0.2 %	-0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	-5.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: ICAL
Analysis started at: 9/26/2024 9:03:33 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0033 ppm	24.6286 ppm	0.9996 ppm	0.9974 ppm	0.9853 ppm	0.9848 ppm	9.8878 ppm
Concentration per Run 2	1.0002 ppm	25.0786 ppm	0.9968 ppm	0.9999 ppm	1.0033 ppm	1.0028 ppm	10.0053 ppm
Concentration per Run 3	0.9965 ppm	25.2928 ppm	1.0036 ppm	1.0028 ppm	1.0114 ppm	1.0124 ppm	10.1069 ppm
Concentration RSD	0.3 %	1.4 %	0.3 %	0.3 %	1.3 %	1.4 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0011 ppm	0.9969 ppm	1.0008 ppm	1.0043 ppm	24.6040 ppm	34.4843 ppm	0.9861 ppm
Concentration per Run 2	0.9951 ppm	0.9983 ppm	0.9981 ppm	1.0017 ppm	25.0667 ppm	35.2764 ppm	1.0038 ppm
Concentration per Run 3	1.0038 ppm	1.0048 ppm	1.0011 ppm	0.9941 ppm	25.3293 ppm	35.2392 ppm	1.0101 ppm
Concentration RSD	0.4 %	0.4 %	0.2 %	0.5 %	1.5 %	1.3 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9880 ppm	0.9894 ppm	0.9957 ppm	24.5914 ppm	0.9961 ppm	0.9979 ppm	0.9948 ppm
Concentration per Run 2	9.9848 ppm	1.0021 ppm	0.9979 ppm	25.1481 ppm	0.9969 ppm	0.9968 ppm	1.0012 ppm
Concentration per Run 3	10.0272 ppm	1.0084 ppm	1.0063 ppm	25.2604 ppm	1.0070 ppm	1.0053 ppm	1.0040 ppm
Concentration RSD	0.2 %	1.0 %	0.6 %	1.4 %	0.6 %	0.5 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9967 ppm	9.9495 ppm	0.9997 ppm	0.9853 ppm	1.0022 ppm	0.9962 ppm	1.0020 ppm
Concentration per Run 2	0.9950 ppm	9.9903 ppm	0.9975 ppm	1.0038 ppm	0.9983 ppm	0.9976 ppm	0.9990 ppm
Concentration per Run 3	1.0084 ppm	10.0602 ppm	1.0028 ppm	1.0109 ppm	0.9995 ppm	1.0062 ppm	0.9991 ppm
Concentration RSD	0.7 %	0.6 %	0.3 %	1.3 %	0.2 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	98.1727 %	95.7535 %	95.7464 %	96.4266 %	84.2412 %	95.4145 %
Concentration per Run 1	1.0001 ppm	98.4675 %	95.9093 %	96.4098 %	97.9021 %	84.9635 %	95.2889 %
Concentration per Run 2	0.9930 ppm	98.2930 %	95.7213 %	95.6710 %	96.3588 %	84.1639 %	95.4480 %
Concentration per Run 3	1.0068 ppm	97.7576 %	95.6298 %	95.1584 %	95.0191 %	83.5963 %	95.5067 %
Concentration RSD	0.7 %	0.4 %	0.1 %	0.7 %	1.5 %	0.8 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: ICV
Analysis started at: 9/26/2024 9:09:32 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4967 ppm	0.4981 ppm	0.4928 ppm	0.4982 ppm	0.4941 ppm	0.5063 ppm	0.5010 ppm
Concentration per Run 1	0.4982 ppm	0.4906 ppm	0.4924 ppm	0.4987 ppm	0.4829 ppm	0.4940 ppm	0.4883 ppm
Concentration per Run 2	0.4957 ppm	0.4939 ppm	0.4933 ppm	0.4979 ppm	0.4939 ppm	0.5072 ppm	0.5033 ppm
Concentration per Run 3	0.4963 ppm	0.5097 ppm	0.4928 ppm	0.4980 ppm	0.5054 ppm	0.5177 ppm	0.5113 ppm
Recovery Percentage 1	99.348 %	99.611 %	98.565 %	99.640 %	98.817 %	101.260 %	100.193 %
Concentration RSD	0.3 %	2.0 %	0.1 %	0.1 %	2.3 %	2.4 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4996 ppm	0.4786 ppm	0.4930 ppm	0.4809 ppm	0.5053 ppm	5.1557 ppm	0.4851 ppm
Concentration per Run 1	0.4991 ppm	0.4789 ppm	0.4954 ppm	0.4815 ppm	0.4938 ppm	5.0603 ppm	0.4747 ppm
Concentration per Run 2	0.4994 ppm	0.4791 ppm	0.4915 ppm	0.4801 ppm	0.5068 ppm	5.1386 ppm	0.4849 ppm
Concentration per Run 3	0.5002 ppm	0.4779 ppm	0.4920 ppm	0.4812 ppm	0.5152 ppm	5.2682 ppm	0.4955 ppm
Recovery Percentage 1	99.913 %	95.728 %	98.593 %	96.188 %	101.054 %	103.113 %	97.014 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.1 %	2.1 %	2.0 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4983 ppm	0.4982 ppm	0.4934 ppm	9.7790 ppm	0.4788 ppm	0.4836 ppm	0.4775 ppm
Concentration per Run 1	0.5003 ppm	0.4834 ppm	0.4932 ppm	9.6329 ppm	0.4796 ppm	0.4852 ppm	0.4794 ppm
Concentration per Run 2	0.4992 ppm	0.4991 ppm	0.4949 ppm	9.7211 ppm	0.4787 ppm	0.4826 ppm	0.4769 ppm
Concentration per Run 3	0.4954 ppm	0.5122 ppm	0.4920 ppm	9.9830 ppm	0.4783 ppm	0.4830 ppm	0.4762 ppm
Recovery Percentage 1	99.664 %	99.647 %	98.672 %	97.790 %	95.769 %	96.721 %	95.497 %
Concentration RSD	0.5 %	2.9 %	0.3 %	1.9 %	0.1 %	0.3 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5026 ppm	5.2531 ppm	0.4896 ppm	0.4748 ppm	0.4979 ppm	0.4963 ppm	0.4881 ppm
Concentration per Run 1	0.5034 ppm	5.2630 ppm	0.4907 ppm	0.4634 ppm	0.4994 ppm	0.4981 ppm	0.4897 ppm
Concentration per Run 2	0.5020 ppm	5.2484 ppm	0.4895 ppm	0.4750 ppm	0.4969 ppm	0.4964 ppm	0.4876 ppm
Concentration per Run 3	0.5023 ppm	5.2477 ppm	0.4885 ppm	0.4859 ppm	0.4976 ppm	0.4945 ppm	0.4871 ppm
Recovery Percentage 1	100.518 %	100.058 %	97.915 %	94.953 %	99.589 %	99.265 %	97.629 %
Concentration RSD	0.2 %	0.2 %	0.2 %	2.4 %	0.3 %	0.4 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4743 ppm	98.4862 %	97.9867 %	99.1245 %	97.5583 %	93.0357 %	98.6369 %
Concentration per Run 1	0.4742 ppm	100.0838 %	98.2883 %	99.3565 %	100.5437 %	93.1592 %	98.6032 %
Concentration per Run 2	0.4738 ppm	98.9318 %	97.7071 %	99.1265 %	97.5126 %	93.0574 %	98.6880 %
Concentration per Run 3	0.4749 ppm	96.4431 %	97.9647 %	98.8903 %	94.6185 %	92.8906 %	98.6194 %
Recovery Percentage 1	94.854 %						
Concentration RSD	0.1 %	1.9 %	0.3 %	0.2 %	3.0 %	0.1 %	0.0 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: ICB
Analysis started at: 9/26/2024 9:15:35 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0010 ppm	0.0000 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 2	0.0002 ppm	-0.0027 ppm	-0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0035 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	-0.0007 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	0.876 %	-0.989 %	0.759 %	3.598 %	0.112 %	0.133 %	-0.930 %
Concentration RSD	381.6 %	153.1 %	2,622.7 %	17.1 %	457.5 %	380.6 %	246.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0015 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0013 ppm	0.0038 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0045 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0038 ppm	-0.0001 ppm
Recovery Percentage 1	-0.471 %	-0.314 %	0.064 %	-1.172 %	1.165 %	0.059 %	1.002 %
Concentration RSD	64.4 %	212.5 %	892.7 %	48.8 %	108.9 %	312.3 %	417.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0013 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.0000 ppm	0.0002 ppm	-0.0018 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0012 ppm	-0.0001 ppm	0.0003 ppm	0.0018 ppm	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm	-0.0002 ppm	0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	-1.258 %	-0.104 %	0.390 %	-0.022 %	-0.528 %	0.038 %	-0.152 %
Concentration RSD	16.0 %	760.1 %	65.3 %	449.4 %	54.4 %	5,601.4 %	347.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0012 ppm	-0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0007 ppm	-0.0007 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm
Recovery Percentage 1	11.198 %	-0.097 %	0.004 %	0.512 %	0.130 %	-1.294 %	0.907 %
Concentration RSD	34.7 %	41.1 %	16,009.8 %	34.7 %	1,452.1 %	54.9 %	171.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	99.7641 %	99.5327 %	100.4516 %	98.2862 %	98.9474 %	99.0228 %
Concentration per Run 1	0.0000 ppm	99.6889 %	99.7677 %	100.7046 %	100.3649 %	99.4458 %	99.0940 %
Concentration per Run 2	0.0000 ppm	99.7836 %	99.3229 %	100.7816 %	97.4913 %	99.3140 %	99.5352 %
Concentration per Run 3	-0.0001 ppm	99.8198 %	99.5076 %	99.8687 %	97.0026 %	98.0824 %	98.4392 %
Recovery Percentage 1	-0.677 %						
Concentration RSD	122.0 %	0.1 %	0.2 %	0.5 %	1.8 %	0.8 %	0.6 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 9:22:51 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	0.1003 ppm	0.0042 ppm	0.0323 ppm	0.0101 ppm	0.0050 ppm	0.1081 ppm
Concentration per Run 1	0.0053 ppm	0.0977 ppm	0.0043 ppm	0.0322 ppm	0.0097 ppm	0.0049 ppm	0.1043 ppm
Concentration per Run 2	0.0055 ppm	0.1039 ppm	0.0038 ppm	0.0323 ppm	0.0104 ppm	0.0051 ppm	0.1101 ppm
Concentration per Run 3	0.0052 ppm	0.0991 ppm	0.0045 ppm	0.0323 ppm	0.0102 ppm	0.0051 ppm	0.1100 ppm
Recovery Percentage 1	106.485 %	100.259 %	84.522 %	107.589 %	100.864 %	100.382 %	108.124 %
Concentration RSD	3.3 %	3.3 %	8.5 %	0.2 %	3.8 %	2.2 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0042 ppm	0.0191 ppm	0.0100 ppm	0.0103 ppm	0.0522 ppm	2.5317 ppm	0.0099 ppm
Concentration per Run 1	0.0042 ppm	0.0192 ppm	0.0099 ppm	0.0101 ppm	0.0501 ppm	2.4157 ppm	0.0096 ppm
Concentration per Run 2	0.0043 ppm	0.0193 ppm	0.0100 ppm	0.0104 ppm	0.0529 ppm	2.6089 ppm	0.0099 ppm
Concentration per Run 3	0.0042 ppm	0.0189 ppm	0.0101 ppm	0.0103 ppm	0.0537 ppm	2.5704 ppm	0.0102 ppm
Recovery Percentage 1	105.464 %	95.620 %	99.820 %	102.538 %	104.467 %	101.266 %	98.957 %
Concentration RSD	0.8 %	1.2 %	1.1 %	1.4 %	3.7 %	4.0 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1058 ppm	0.0104 ppm	0.0513 ppm	1.9689 ppm	0.0190 ppm	0.0093 ppm	0.0485 ppm
Concentration per Run 1	0.1052 ppm	0.0101 ppm	0.0514 ppm	1.8808 ppm	0.0191 ppm	0.0088 ppm	0.0482 ppm
Concentration per Run 2	0.1067 ppm	0.0105 ppm	0.0511 ppm	2.0251 ppm	0.0192 ppm	0.0096 ppm	0.0479 ppm
Concentration per Run 3	0.1056 ppm	0.0107 ppm	0.0515 ppm	2.0009 ppm	0.0186 ppm	0.0096 ppm	0.0495 ppm
Recovery Percentage 1	105.814 %	104.420 %	102.627 %	98.446 %	94.900 %	93.147 %	96.994 %
Concentration RSD	0.7 %	3.2 %	0.4 %	3.9 %	1.6 %	4.8 %	1.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0104 ppm	0.5113 ppm	0.0518 ppm	0.0098 ppm	0.0518 ppm	0.0195 ppm	0.0104 ppm
Concentration per Run 1	0.0096 ppm	0.5120 ppm	0.0521 ppm	0.0094 ppm	0.0518 ppm	0.0194 ppm	0.0103 ppm
Concentration per Run 2	0.0110 ppm	0.5128 ppm	0.0514 ppm	0.0099 ppm	0.0518 ppm	0.0202 ppm	0.0104 ppm
Concentration per Run 3	0.0105 ppm	0.5092 ppm	0.0519 ppm	0.0100 ppm	0.0518 ppm	0.0188 ppm	0.0106 ppm
Recovery Percentage 1	103.605 %	102.268 %	103.552 %	97.618 %	103.636 %	97.397 %	104.183 %
Concentration RSD	6.8 %	0.4 %	0.7 %	3.4 %	0.0 %	3.7 %	1.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0054 ppm	100.3937 %	99.5496 %	100.6078 %	99.5455 %	96.2852 %	99.3906 %
Concentration per Run 1	0.0053 ppm	101.0356 %	99.4497 %	100.6569 %	102.9915 %	95.7907 %	99.5305 %
Concentration per Run 2	0.0054 ppm	100.6221 %	99.3529 %	100.3604 %	98.2016 %	95.2635 %	98.7801 %
Concentration per Run 3	0.0054 ppm	99.5234 %	99.8462 %	100.8062 %	97.4435 %	97.8016 %	99.8612 %
Recovery Percentage 1	107.022 %						
Concentration RSD	1.1 %	0.8 %	0.3 %	0.2 %	3.0 %	1.4 %	0.6 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: ICSA
Analysis started at: 9/26/2024 9:30:50 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0011 ppm	522.6485 [SIC 500]	-0.0040 ppm	0.0047 ppm	0.0008 ppm	-0.0004 ppm	562.6139 ppm
Concentration per Run 1	0.0013 ppm	526.3930 ppm	-0.0044 ppm	0.0043 ppm	0.0008 ppm	-0.0004 ppm	567.1777 ppm
Concentration per Run 2	0.0011 ppm	514.0626 ppm	-0.0025 ppm	0.0043 ppm	0.0007 ppm	-0.0005 ppm	564.1241 ppm
Concentration per Run 3	0.0008 ppm	527.4898 ppm	-0.0049 ppm	0.0056 ppm	0.0008 ppm	-0.0004 ppm	556.5399 ppm
Recovery Percentage 1	15.441 %	522,648.476 %	-79.046 %	15.795 %	7.631 %	-8.625 %	562,613.893 %
Concentration RSD	22.9 %	1.4 %	31.3 %	16.3 %	5.4 %	5.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0024 ppm	0.0011 ppm	0.0018 ppm	0.0009 ppm	184.8283 ppm	0.0264 ppm	-0.0064 ppm
Concentration per Run 1	-0.0024 ppm	0.0008 ppm	0.0018 ppm	0.0009 ppm	186.2631 ppm	0.0305 ppm	-0.0061 ppm
Concentration per Run 2	-0.0024 ppm	0.0011 ppm	0.0018 ppm	0.0010 ppm	184.9547 ppm	0.0173 ppm	-0.0067 ppm
Concentration per Run 3	-0.0023 ppm	0.0015 ppm	0.0018 ppm	0.0007 ppm	183.2671 ppm	0.0312 ppm	-0.0064 ppm
Recovery Percentage 1	-59.008 %	5.703 %	18.071 %	8.595 %	369,656.589 %	1.054 %	-63.993 %
Concentration RSD	2.3 %	30.7 %	0.8 %	19.2 %	0.8 %	29.8 %	4.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	442.4662 ppm	0.0019 ppm	-0.0006 ppm	0.0217 ppm	0.0121 ppm	0.0047 ppm	-0.0190 ppm
Concentration per Run 1	440.6372 ppm	0.0020 ppm	-0.0005 ppm	0.0213 ppm	0.0122 ppm	0.0054 ppm	-0.0202 ppm
Concentration per Run 2	446.4244 ppm	0.0018 ppm	-0.0005 ppm	0.0239 ppm	0.0121 ppm	0.0019 ppm	-0.0202 ppm
Concentration per Run 3	440.3370 ppm	0.0020 ppm	-0.0008 ppm	0.0198 ppm	0.0120 ppm	0.0068 ppm	-0.0167 ppm
Recovery Percentage 1	442,466.180 %	19.455 %	-1.218 %	1.083 %	48.411 %	46.940 %	-38.039 %
Concentration RSD	0.8 %	7.6 %	30.6 %	9.6 %	1.0 %	53.2 %	10.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	0.0020 ppm	0.0027 ppm	0.0000 ppm	-0.0050 ppm	-0.0014 ppm	-0.0029 ppm
Concentration per Run 1	0.0048 ppm	0.0024 ppm	0.0037 ppm	0.0000 ppm	-0.0049 ppm	-0.0012 ppm	-0.0030 ppm
Concentration per Run 2	-0.0030 ppm	0.0017 ppm	0.0026 ppm	0.0000 ppm	-0.0051 ppm	-0.0019 ppm	-0.0032 ppm
Concentration per Run 3	0.0016 ppm	0.0020 ppm	0.0017 ppm	0.0001 ppm	-0.0049 ppm	-0.0012 ppm	-0.0026 ppm
Recovery Percentage 1	11.440 %	0.404 %	5.376 %	0.335 %	-49.687 %	-7.210 %	-29.186 %
Concentration RSD	344.0 %	18.0 %	36.6 %	135.6 %	2.5 %	28.3 %	9.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0026 ppm	90.7558 %	82.4094 %	82.6484 %	87.9316 %	58.6483 %	81.3462 %
Concentration per Run 1	-0.0025 ppm	91.0640 %	82.5612 %	83.0897 %	87.6930 %	58.9937 %	81.4636 %
Concentration per Run 2	-0.0030 ppm	90.5707 %	82.2918 %	82.6190 %	88.2536 %	58.9092 %	81.4941 %
Concentration per Run 3	-0.0022 ppm	90.6326 %	82.3753 %	82.2366 %	87.8482 %	58.0421 %	81.0807 %
Recovery Percentage 1	-51.347 %						
Concentration RSD	15.1 %	0.3 %	0.2 %	0.5 %	0.3 %	0.9 %	0.3 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 400 Fe pass _IEC -Pb -Zn
Analysis started at: 9/26/2024 9:39:51 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	-0.0019 ppm	0.0017 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0010 ppm	0.0019 ppm	0.0009 ppm	0.0004 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	-0.0007 ppm	-0.0029 ppm	0.0024 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	-0.0004 ppm	-0.0036 ppm	0.0009 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration RSD	31.3 %	134.3 %	45.2 %	10.3 %	9.5 %	138.5 %	594.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0004 ppm	0.0020 ppm	0.0024 ppm	370.1972 ppm	0.0165 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	0.0001 ppm	0.0020 ppm	0.0023 ppm	364.3673 ppm	0.0205 ppm	0.0000 ppm
Concentration per Run 2	0.0016 ppm	0.0007 ppm	0.0022 ppm	0.0027 ppm	375.7548 ppm	0.0076 ppm	0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.0005 ppm	0.0019 ppm	0.0023 ppm	370.4695 ppm	0.0215 ppm	-0.0004 ppm
Concentration RSD	4.5 %	64.6 %	9.7 %	8.8 %	1.5 %	46.8 %	379.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0239 ppm	0.0003 ppm	-0.0030 ppm	0.0050 ppm	0.0262 ppm	-0.0001 ppm	-0.0170 ppm
Concentration per Run 1	-0.0243 ppm	0.0003 ppm	-0.0029 ppm	0.0042 ppm	0.0257 ppm	-0.0002 ppm	-0.0174 ppm
Concentration per Run 2	-0.0234 ppm	0.0002 ppm	-0.0030 ppm	0.0071 ppm	0.0258 ppm	0.0003 ppm	-0.0163 ppm
Concentration per Run 3	-0.0241 ppm	0.0005 ppm	-0.0030 ppm	0.0039 ppm	0.0270 ppm	-0.0003 ppm	-0.0173 ppm
Concentration RSD	2.0 %	35.3 %	2.2 %	34.9 %	2.6 %	406.8 %	3.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	0.0023 ppm	0.0015 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm	-0.0040 ppm
Concentration per Run 1	-0.0033 ppm	0.0023 ppm	0.0012 ppm	0.0003 ppm	-0.0003 ppm	0.0007 ppm	-0.0040 ppm
Concentration per Run 2	-0.0001 ppm	0.0023 ppm	0.0013 ppm	0.0003 ppm	-0.0004 ppm	-0.0005 ppm	-0.0039 ppm
Concentration per Run 3	-0.0013 ppm	0.0024 ppm	0.0021 ppm	0.0003 ppm	-0.0004 ppm	-0.0005 ppm	-0.0039 ppm
Concentration RSD	106.0 %	2.6 %	34.2 %	4.3 %	18.8 %	984.6 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	98.4266 %	95.4673 %	94.7441 %	95.5467 %	82.7173 %	95.5556 %
Concentration per Run 1	0.0001 ppm	98.5076 %	95.6511 %	95.0624 %	96.6850 %	82.9486 %	95.5279 %
Concentration per Run 2	-0.0001 ppm	98.1881 %	95.3865 %	94.8065 %	94.5151 %	82.9242 %	95.9413 %
Concentration per Run 3	-0.0001 ppm	98.5840 %	95.3644 %	94.3634 %	95.4401 %	82.2791 %	95.1977 %
Concentration RSD	1,191.9 %	0.2 %	0.2 %	0.4 %	1.1 %	0.5 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 800 Ca pass
Analysis started at: 9/26/2024 9:46:19 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0252 ppm	-0.0042 ppm	0.0035 ppm	0.0008 ppm	-0.0006 ppm	753.6088 ppm
Concentration per Run 1	0.0002 ppm	0.0210 ppm	-0.0044 ppm	0.0036 ppm	0.0008 ppm	-0.0006 ppm	748.8689 ppm
Concentration per Run 2	0.0003 ppm	0.0293 ppm	-0.0040 ppm	0.0032 ppm	0.0007 ppm	-0.0006 ppm	753.5733 ppm
Concentration per Run 3	0.0002 ppm	0.0254 ppm	-0.0043 ppm	0.0037 ppm	0.0008 ppm	-0.0006 ppm	758.3843 ppm
Concentration RSD	32.3 %	16.5 %	4.1 %	6.6 %	5.4 %	2.3 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0022 ppm	-0.0002 ppm	0.0005 ppm	0.0014 ppm	0.0076 ppm	0.0109 ppm	-0.0041 ppm
Concentration per Run 1	-0.0023 ppm	-0.0002 ppm	0.0002 ppm	0.0014 ppm	0.0094 ppm	0.0152 ppm	-0.0040 ppm
Concentration per Run 2	-0.0022 ppm	-0.0001 ppm	0.0008 ppm	0.0013 ppm	0.0062 ppm	-0.0054 ppm	-0.0042 ppm
Concentration per Run 3	-0.0022 ppm	-0.0002 ppm	0.0006 ppm	0.0015 ppm	0.0073 ppm	0.0231 ppm	-0.0042 ppm
Concentration RSD	1.8 %	58.7 %	54.0 %	4.4 %	21.4 %	134.4 %	3.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0061 ppm	0.0004 ppm	0.0003 ppm	0.0189 ppm	-0.0004 ppm	0.0008 ppm	0.0102 ppm
Concentration per Run 1	-0.0044 ppm	0.0002 ppm	0.0003 ppm	0.0195 ppm	-0.0005 ppm	0.0004 ppm	0.0104 ppm
Concentration per Run 2	-0.0053 ppm	0.0005 ppm	0.0002 ppm	0.0175 ppm	-0.0007 ppm	0.0015 ppm	0.0097 ppm
Concentration per Run 3	-0.0086 ppm	0.0006 ppm	0.0004 ppm	0.0198 ppm	-0.0001 ppm	0.0005 ppm	0.0105 ppm
Concentration RSD	36.4 %	37.8 %	41.7 %	6.7 %	68.3 %	78.0 %	4.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0032 ppm	0.0181 ppm	0.0007 ppm	-0.0003 ppm	-0.0076 ppm	-0.0011 ppm	0.0007 ppm
Concentration per Run 1	0.0043 ppm	0.0174 ppm	0.0006 ppm	-0.0004 ppm	-0.0078 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0029 ppm	0.0189 ppm	0.0009 ppm	-0.0003 ppm	-0.0075 ppm	-0.0032 ppm	0.0006 ppm
Concentration per Run 3	0.0023 ppm	0.0180 ppm	0.0006 ppm	-0.0004 ppm	-0.0074 ppm	-0.0001 ppm	0.0007 ppm
Concentration RSD	31.4 %	4.3 %	26.5 %	11.9 %	2.7 %	172.4 %	9.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0009 ppm	92.6029 %	84.9458 %	84.0045 %	90.6201 %	66.0742 %	84.1424 %
Concentration per Run 1	-0.0010 ppm	93.1328 %	85.1093 %	83.9027 %	91.9174 %	65.9661 %	83.9542 %
Concentration per Run 2	-0.0010 ppm	92.4866 %	84.6487 %	84.1592 %	90.4751 %	66.2003 %	84.5195 %
Concentration per Run 3	-0.0006 ppm	92.1895 %	85.0795 %	83.9515 %	89.4679 %	66.0560 %	83.9536 %
Concentration RSD	23.8 %	0.5 %	0.3 %	0.2 %	1.4 %	0.2 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 500 Ca pass
Analysis started at: 9/26/2024 9:52:47 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0103 ppm	-0.0029 ppm	0.0025 ppm	0.0005 ppm	-0.0004 ppm	483.5934 ppm
Concentration per Run 1	0.0005 ppm	0.0090 ppm	-0.0051 ppm	0.0024 ppm	0.0005 ppm	-0.0004 ppm	475.9062 ppm
Concentration per Run 2	0.0001 ppm	0.0127 ppm	-0.0014 ppm	0.0025 ppm	0.0005 ppm	-0.0004 ppm	487.7257 ppm
Concentration per Run 3	0.0000 ppm	0.0093 ppm	-0.0023 ppm	0.0027 ppm	0.0005 ppm	-0.0004 ppm	487.1483 ppm
Concentration RSD	146.3 %	20.3 %	66.0 %	5.2 %	2.0 %	6.7 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0014 ppm	-0.0001 ppm	0.0005 ppm	0.0012 ppm	0.0027 ppm	0.0076 ppm	-0.0029 ppm
Concentration per Run 1	-0.0014 ppm	-0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0033 ppm	0.0019 ppm	-0.0032 ppm
Concentration per Run 2	-0.0014 ppm	-0.0001 ppm	0.0006 ppm	0.0012 ppm	0.0027 ppm	0.0331 ppm	-0.0028 ppm
Concentration per Run 3	-0.0014 ppm	0.0000 ppm	0.0006 ppm	0.0011 ppm	0.0020 ppm	-0.0122 ppm	-0.0029 ppm
Concentration RSD	2.4 %	105.0 %	48.3 %	5.1 %	25.0 %	305.0 %	7.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0002 ppm	0.0002 ppm	0.0107 ppm	-0.0004 ppm	-0.0010 ppm	0.0072 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0101 ppm	-0.0004 ppm	-0.0011 ppm	0.0060 ppm
Concentration per Run 2	-0.0029 ppm	0.0002 ppm	0.0002 ppm	0.0121 ppm	-0.0001 ppm	-0.0011 ppm	0.0084 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	0.0003 ppm	0.0101 ppm	-0.0007 ppm	-0.0008 ppm	0.0072 ppm
Concentration RSD	279.1 %	62.5 %	29.1 %	10.8 %	75.8 %	17.9 %	16.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	0.0125 ppm	0.0006 ppm	-0.0003 ppm	-0.0049 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	-0.0013 ppm	0.0120 ppm	0.0007 ppm	-0.0003 ppm	-0.0050 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0010 ppm	0.0122 ppm	0.0003 ppm	-0.0004 ppm	-0.0049 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	-0.0004 ppm	0.0134 ppm	0.0006 ppm	-0.0003 ppm	-0.0047 ppm	-0.0013 ppm	0.0006 ppm
Concentration RSD	464.7 %	5.9 %	37.8 %	8.3 %	2.7 %	156.8 %	35.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0004 ppm	94.1783 %	87.7285 %	87.1514 %	91.7774 %	71.4215 %	86.6359 %
Concentration per Run 1	-0.0003 ppm	95.1322 %	87.6112 %	86.8294 %	94.0536 %	71.1112 %	86.4455 %
Concentration per Run 2	-0.0005 ppm	93.5530 %	87.8524 %	87.0594 %	90.5719 %	71.3715 %	86.7829 %
Concentration per Run 3	-0.0004 ppm	93.8498 %	87.7220 %	87.5655 %	90.7066 %	71.7817 %	86.6794 %
Concentration RSD	28.1 %	0.9 %	0.1 %	0.4 %	2.1 %	0.5 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 500 Mg pass
Analysis started at: 9/26/2024 9:59:17 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0020 ppm	-0.0016 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0227 ppm
Concentration per Run 1	0.0001 ppm	-0.0039 ppm	-0.0028 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0227 ppm
Concentration per Run 2	0.0004 ppm	-0.0042 ppm	-0.0017 ppm	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0271 ppm
Concentration per Run 3	0.0001 ppm	0.0022 ppm	-0.0003 ppm	0.0005 ppm	0.0005 ppm	0.0000 ppm	0.0183 ppm
Concentration RSD	94.9 %	184.3 %	80.8 %	32.0 %	9.7 %	117.8 %	19.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0015 ppm	0.0183 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0007 ppm	0.0334 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0010 ppm	0.0020 ppm	0.0048 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0007 ppm	0.0017 ppm	0.0166 ppm	0.0002 ppm
Concentration RSD	364.3 %	85.7 %	47.2 %	12.6 %	46.2 %	78.8 %	183.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	502.4442 [SIC 500]	0.0006 ppm	0.0002 ppm	0.0015 ppm	-0.0005 ppm	-0.0012 ppm	-0.0009 ppm
Concentration per Run 1	501.2421 ppm	0.0005 ppm	0.0001 ppm	0.0018 ppm	-0.0007 ppm	-0.0015 ppm	-0.0008 ppm
Concentration per Run 2	512.7550 ppm	0.0007 ppm	0.0001 ppm	0.0016 ppm	-0.0005 ppm	-0.0011 ppm	-0.0011 ppm
Concentration per Run 3	493.3354 ppm	0.0005 ppm	0.0003 ppm	0.0012 ppm	-0.0004 ppm	-0.0011 ppm	-0.0007 ppm
Concentration RSD	1.9 %	22.6 %	60.3 %	20.9 %	26.7 %	17.3 %	23.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	0.0041 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	-0.0009 ppm	-0.0010 ppm
Concentration per Run 1	-0.0002 ppm	0.0044 ppm	-0.0006 ppm	0.0002 ppm	0.0007 ppm	-0.0006 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	0.0039 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	-0.0013 ppm	-0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0041 ppm	0.0001 ppm	0.0003 ppm	0.0007 ppm	-0.0009 ppm	-0.0012 ppm
Concentration RSD	255.0 %	6.5 %	388.2 %	16.9 %	9.4 %	37.1 %	24.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	96.2353 %	89.3859 %	88.3648 %	94.3105 %	72.2337 %	87.7203 %
Concentration per Run 1	0.0001 ppm	96.8553 %	89.4382 %	88.7995 %	97.4427 %	72.5372 %	87.7312 %
Concentration per Run 2	0.0002 ppm	95.7542 %	89.5492 %	88.2509 %	92.7954 %	72.2530 %	87.6965 %
Concentration per Run 3	0.0000 ppm	96.0964 %	89.1703 %	88.0442 %	92.6933 %	71.9108 %	87.7331 %
Concentration RSD	96.7 %	0.6 %	0.2 %	0.4 %	2.9 %	0.4 %	0.0 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: SIC Multi
Analysis started at: 9/26/2024 10:22:52 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	0.0074 ppm	-0.0021 ppm	0.0111 ppm	0.0004 ppm	-0.0011 ppm	0.0173 ppm
Concentration per Run 1	0.0026 ppm	0.0075 ppm	-0.0028 ppm	0.0109 ppm	0.0004 ppm	-0.0012 ppm	0.0179 ppm
Concentration per Run 2	0.0027 ppm	0.0077 ppm	-0.0023 ppm	0.0112 ppm	0.0004 ppm	-0.0010 ppm	0.0179 ppm
Concentration per Run 3	0.0028 ppm	0.0071 ppm	-0.0013 ppm	0.0111 ppm	0.0004 ppm	-0.0010 ppm	0.0162 ppm
Recovery Percentage 1	38.525 %	7.438 %	-42.456 %	36.840 %	3.884 %	-21.406 %	17.349 %
Concentration RSD	3.2 %	3.6 %	36.8 %	1.2 %	1.6 %	9.5 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0008 ppm	0.0006 ppm	19.5864 ppm	-0.0041 ppm	0.0117 ppm	0.0096 ppm	-0.0003 ppm
Concentration per Run 1	-0.0008 ppm	0.0007 ppm	19.5039 ppm	-0.0040 ppm	0.0127 ppm	0.0330 ppm	-0.0006 ppm
Concentration per Run 2	-0.0008 ppm	0.0005 ppm	19.5029 ppm	-0.0041 ppm	0.0120 ppm	-0.0135 ppm	0.0002 ppm
Concentration per Run 3	-0.0008 ppm	0.0005 ppm	19.7525 ppm	-0.0042 ppm	0.0104 ppm	0.0093 ppm	-0.0003 ppm
Recovery Percentage 1	-19.608 %	2.879 %	195,864.027 %	-41.157 %	23.361 %	0.385 %	-2.619 %
Concentration RSD	1.8 %	19.8 %	0.7 %	2.7 %	10.2 %	241.9 %	149.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0233 ppm	20.1330 [SIC 30]	-0.0026 ppm	0.0099 ppm	0.0144 ppm	0.0015 ppm	-0.0009 ppm
Concentration per Run 1	-0.0244 ppm	20.1013 ppm	-0.0027 ppm	0.0118 ppm	0.0144 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0221 ppm	20.1436 ppm	-0.0026 ppm	0.0097 ppm	0.0146 ppm	0.0016 ppm	-0.0008 ppm
Concentration per Run 3	-0.0234 ppm	20.1539 ppm	-0.0026 ppm	0.0082 ppm	0.0140 ppm	0.0017 ppm	-0.0020 ppm
Recovery Percentage 1	-23.269 %	201,329.698 %	-5.262 %	0.495 %	57.428 %	14.630 %	-1.877 %
Concentration RSD	4.9 %	0.1 %	2.8 %	18.1 %	2.1 %	20.5 %	110.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	0.3489 ppm	-0.0027 ppm	0.0001 ppm	19.8646 ppm	0.0018 ppm	10.1045 [SIC 10]
Concentration per Run 1	-0.0012 ppm	0.3501 ppm	-0.0027 ppm	0.0001 ppm	19.8176 ppm	0.0021 ppm	10.0805 ppm
Concentration per Run 2	0.0000 ppm	0.3480 ppm	-0.0025 ppm	0.0001 ppm	19.9239 ppm	0.0017 ppm	10.1372 ppm
Concentration per Run 3	-0.0016 ppm	0.3486 ppm	-0.0030 ppm	0.0001 ppm	19.8523 ppm	0.0016 ppm	10.0959 ppm
Recovery Percentage 1	-9.389 %	69.780 %	-5.423 %	1.432 %	198,645.854 %	9.146 %	101,045.251 %
Concentration RSD	90.3 %	0.3 %	8.4 %	7.3 %	0.3 %	15.0 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	100.7066 %	99.4338 %	99.4265 %	97.7058 %	94.8871 %	98.3698 %
Concentration per Run 1	0.0004 ppm	101.1911 %	99.7032 %	99.5895 %	97.9265 %	95.0595 %	98.4867 %
Concentration per Run 2	0.0004 ppm	100.4741 %	98.9726 %	99.3752 %	97.3999 %	94.8708 %	98.0984 %
Concentration per Run 3	0.0012 ppm	100.4546 %	99.6255 %	99.3148 %	97.7911 %	94.7309 %	98.5243 %
Recovery Percentage 1	13.656 %						
Concentration RSD	66.4 %	0.4 %	0.4 %	0.1 %	0.3 %	0.2 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: IEC 500 Al -B +Cd +Pb
Analysis started at: 9/26/2024 10:30:52 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0012 ppm	502.1601 [SIC 500]	-0.0046 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0143 ppm
Concentration per Run 1	0.0011 ppm	489.1905 ppm	-0.0040 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0140 ppm
Concentration per Run 2	0.0011 ppm	509.7864 ppm	-0.0026 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0139 ppm
Concentration per Run 3	0.0014 ppm	507.5034 ppm	-0.0072 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0149 ppm
Recovery Percentage 1	17.003 %	502,160.102 %	-91.570 %	-0.008 %	-0.109 %	0.053 %	14.266 %
Concentration RSD	12.2 %	2.2 %	50.8 %	18,974.9 %	317.4 %	893.4 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0042 ppm	-0.0028 ppm	-0.0023 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0043 ppm	-0.0028 ppm	-0.0069 ppm	-0.0040 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0041 ppm	-0.0038 ppm	0.0096 ppm	-0.0040 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0042 ppm	-0.0018 ppm	-0.0095 ppm	-0.0044 ppm
Recovery Percentage 1	0.143 %	0.230 %	2.595 %	-42.160 %	-5.582 %	-0.092 %	-41.445 %
Concentration RSD	836.6 %	148.7 %	33.8 %	2.2 %	34.4 %	451.8 %	5.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0027 ppm	0.0008 ppm	0.0001 ppm	0.0040 ppm	0.0025 ppm	0.0000 ppm	-0.0146 ppm
Concentration per Run 1	-0.0029 ppm	0.0008 ppm	0.0002 ppm	0.0043 ppm	0.0025 ppm	-0.0015 ppm	-0.0148 ppm
Concentration per Run 2	-0.0019 ppm	0.0008 ppm	0.0000 ppm	0.0021 ppm	0.0023 ppm	0.0005 ppm	-0.0140 ppm
Concentration per Run 3	-0.0034 ppm	0.0008 ppm	0.0000 ppm	0.0055 ppm	0.0026 ppm	0.0010 ppm	-0.0150 ppm
Recovery Percentage 1	-2.734 %	7.998 %	0.115 %	0.198 %	9.895 %	-0.068 %	-29.190 %
Concentration RSD	26.8 %	2.7 %	239.0 %	43.7 %	6.0 %	19,094.3 %	3.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	0.0070 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0019 ppm	-0.0003 ppm
Concentration per Run 1	-0.0031 ppm	0.0058 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0026 ppm	-0.0003 ppm
Concentration per Run 2	0.0009 ppm	0.0085 ppm	0.0012 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0008 ppm	0.0068 ppm	-0.0004 ppm	0.0000 ppm	0.0006 ppm	-0.0029 ppm	-0.0004 ppm
Recovery Percentage 1	-10.268 %	1.409 %	0.497 %	0.141 %	4.343 %	-9.632 %	-3.080 %
Concentration RSD	197.2 %	19.0 %	332.2 %	12.7 %	37.9 %	75.7 %	25.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	96.9485 %	91.3634 %	96.3451 %	95.7109 %	75.0906 %	91.1842 %
Concentration per Run 1	0.0000 ppm	96.9788 %	91.3441 %	97.0067 %	97.8755 %	75.6713 %	91.0883 %
Concentration per Run 2	-0.0004 ppm	97.0000 %	91.4521 %	96.3805 %	94.7460 %	75.1056 %	91.1648 %
Concentration per Run 3	-0.0003 ppm	96.8665 %	91.2940 %	95.6481 %	94.5114 %	74.4950 %	91.2994 %
Recovery Percentage 1	-3.998 %						
Concentration RSD	96.5 %	0.1 %	0.1 %	0.7 %	2.0 %	0.8 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR Check
Analysis started at: 9/26/2024 10:37:18 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0029 ppm	0.1574 ppm	24.0616 ppm	27.2333 [SIC 20]	20.0292 [SIC 20]	5.2001 ppm	0.0235 ppm
Concentration per Run 1	0.0026 ppm	0.1609 ppm	24.0386 ppm	27.1721 ppm	19.8999 ppm	5.2231 ppm	0.0219 ppm
Concentration per Run 2	0.0029 ppm	0.1574 ppm	24.1247 ppm	27.3340 ppm	20.2583 ppm	5.1827 ppm	0.0242 ppm
Concentration per Run 3	0.0032 ppm	0.1539 ppm	24.0214 ppm	27.1940 ppm	19.9296 ppm	5.1944 ppm	0.0243 ppm
Recovery Percentage 1	0.000 %	0.000 %	120.308 %	136.167 %	100.146 %	104.001 %	0.000 %
Concentration RSD	10.3 %	2.2 %	0.2 %	0.3 %	1.0 %	0.4 %	5.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	5.6945 ppm	5.2222 ppm	-0.0001 ppm	20.4567 [SIC 20]	0.0667 ppm	499.5217 ppm	20.3325 ppm
Concentration per Run 1	5.7158 ppm	5.2035 ppm	-0.0002 ppm	20.4468 ppm	0.0680 ppm	501.2420 ppm	19.9135 ppm
Concentration per Run 2	5.6638 ppm	5.2373 ppm	0.0000 ppm	20.5088 ppm	0.0664 ppm	501.5507 ppm	20.7687 ppm
Concentration per Run 3	5.7039 ppm	5.2258 ppm	0.0001 ppm	20.4145 ppm	0.0657 ppm	495.7725 ppm	20.3154 ppm
Recovery Percentage 1	113.890 %	104.443 %	0.000 %	102.283 %	0.000 %	99.904 %	101.663 %
Concentration RSD	0.5 %	0.3 %	202.4 %	0.2 %	1.7 %	0.7 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.1133 ppm	0.0006 ppm	5.7935 [SIC 5]	439.3259 [SIC LDR]	9.9881 ppm	48.0979 ppm	5.5423 ppm
Concentration per Run 1	-0.1100 ppm	0.0006 ppm	5.7876 ppm	442.2201 ppm	9.9582 ppm	47.9867 ppm	5.5123 ppm
Concentration per Run 2	-0.1132 ppm	0.0006 ppm	5.8020 ppm	438.9146 ppm	10.0151 ppm	48.1549 ppm	5.5893 ppm
Concentration per Run 3	-0.1166 ppm	0.0006 ppm	5.7907 ppm	436.8430 ppm	9.9911 ppm	48.1521 ppm	5.5252 ppm
Recovery Percentage 1	0.000 %	0.000 %	115.869 %	87.865 %	99.881 %	96.196 %	110.845 %
Concentration RSD	2.9 %	1.4 %	0.1 %	0.6 %	0.3 %	0.2 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	5.5916 [SIC 5]	22.9582 [SIC 50]	10.3480 [SIC 20]	4.9525 ppm	0.0032 ppm	4.3259 ppm	0.0157 ppm
Concentration per Run 1	5.5793 ppm	22.8029 ppm	10.3682 ppm	4.9875 ppm	0.0033 ppm	4.3103 ppm	0.0160 ppm
Concentration per Run 2	5.6115 ppm	23.1259 ppm	10.3296 ppm	4.9544 ppm	0.0030 ppm	4.3420 ppm	0.0155 ppm
Concentration per Run 3	5.5841 ppm	22.9456 ppm	10.3461 ppm	4.9157 ppm	0.0033 ppm	4.3254 ppm	0.0156 ppm
Recovery Percentage 1	111.833 %	114.791 %	103.480 %	99.051 %	0.000 %	86.518 %	0.000 %
Concentration RSD	0.3 %	0.7 %	0.2 %	0.7 %	5.8 %	0.4 %	1.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	21.2663 [SIC 15]	96.0782 %	83.7712 %	75.7847 %	92.6263 %	70.9549 %	82.6450 %
Concentration per Run 1	21.3075 ppm	96.7098 %	83.5817 %	76.0580 %	93.0511 %	71.4424 %	82.4487 %
Concentration per Run 2	21.1886 ppm	96.1797 %	83.5708 %	75.4033 %	92.6256 %	70.3964 %	82.8313 %
Concentration per Run 3	21.3029 ppm	95.3450 %	84.1612 %	75.8928 %	92.2022 %	71.0258 %	82.6549 %
Recovery Percentage 1	106.332 %						
Concentration RSD	0.3 %	0.7 %	0.4 %	0.4 %	0.5 %	0.7 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 20 As pass
Analysis started at: 9/26/2024 11:12:11 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0008 ppm	19.4687 ppm	0.0083 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0003 ppm	-0.0037 ppm	19.4370 ppm	0.0083 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	19.4507 ppm	0.0083 ppm	0.0001 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 3	0.0001 ppm	0.0016 ppm	19.5184 ppm	0.0083 ppm	0.0000 ppm	0.0000 ppm	0.0069 ppm
Concentration RSD	129.0 %	337.2 %	0.2 %	0.3 %	121.5 %	31.4 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0011 ppm	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0071 ppm	0.0502 ppm	0.0032 ppm
Concentration per Run 1	-0.0012 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0059 ppm	0.0466 ppm	0.0022 ppm
Concentration per Run 2	-0.0011 ppm	-0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0089 ppm	0.0544 ppm	0.0035 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0066 ppm	0.0497 ppm	0.0038 ppm
Concentration RSD	2.0 %	188.5 %	35.1 %	24.8 %	21.9 %	7.8 %	26.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0009 ppm	0.0001 ppm	0.0090 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0026 ppm	0.0010 ppm	0.0001 ppm	0.0067 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	0.0009 ppm	0.0001 ppm	0.0074 ppm	0.0003 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0013 ppm	0.0009 ppm	0.0000 ppm	0.0128 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Concentration RSD	295.2 %	4.3 %	94.7 %	37.1 %	70.9 %	93.7 %	236.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	0.0020 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0026 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0022 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	0.0020 ppm	0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0012 ppm	0.0001 ppm
Concentration RSD	108.5 %	8.5 %	106.1 %	25.3 %	154.9 %	69.2 %	34.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	99.8746 %	101.2255 %	100.3551 %	97.8350 %	101.5313 %	99.5496 %
Concentration per Run 1	0.0004 ppm	100.1572 %	101.0936 %	100.6718 %	100.4437 %	101.3365 %	99.7000 %
Concentration per Run 2	0.0005 ppm	99.9886 %	101.2521 %	100.4776 %	97.0808 %	101.9902 %	99.6095 %
Concentration per Run 3	0.0004 ppm	99.4780 %	101.3308 %	99.9160 %	95.9804 %	101.2673 %	99.3394 %
Concentration RSD	7.8 %	0.4 %	0.1 %	0.4 %	2.4 %	0.4 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 20 B pass
Analysis started at: 9/26/2024 11:18:35 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0075 ppm	19.9399 [SIC 20]	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	0.0000 ppm	-0.0009 ppm	0.0077 ppm	19.9480 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0019 ppm	0.0086 ppm	19.9214 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	-0.0002 ppm	-0.0004 ppm	0.0063 ppm	19.9502 ppm	0.0000 ppm	0.0000 ppm	0.0043 ppm
Concentration RSD	72.0 %	743.9 %	15.5 %	0.1 %	327.6 %	1,327.9 %	59.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0022 ppm	0.0372 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0026 ppm	0.0438 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0027 ppm	0.0357 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm	0.0322 ppm	0.0026 ppm
Concentration RSD	53.0 %	15.7 %	305.5 %	43.2 %	28.4 %	16.0 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm	0.0001 ppm	-0.0007 ppm	-0.0009 ppm
Concentration per Run 1	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0055 ppm	0.0000 ppm	-0.0009 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0057 ppm	0.0000 ppm	-0.0005 ppm	-0.0009 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0073 ppm	0.0002 ppm	-0.0006 ppm	-0.0012 ppm
Concentration RSD	318.1 %	105.8 %	252.1 %	15.4 %	106.4 %	36.6 %	34.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.0015 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0019 ppm	0.0014 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 2	-0.0010 ppm	0.0014 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	-0.0005 ppm	0.0016 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0009 ppm	0.0000 ppm
Concentration RSD	62.3 %	6.9 %	37.0 %	99.6 %	28.7 %	26.6 %	149.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	101.1481 %	100.1814 %	99.0933 %	98.1446 %	97.6049 %	97.7993 %
Concentration per Run 1	0.0001 ppm	101.7917 %	100.0892 %	99.2475 %	101.0759 %	97.4553 %	97.7775 %
Concentration per Run 2	0.0002 ppm	101.3069 %	100.4495 %	99.1125 %	97.6089 %	97.8399 %	97.4405 %
Concentration per Run 3	0.0002 ppm	100.3456 %	100.0055 %	98.9200 %	95.7490 %	97.5195 %	98.1799 %
Concentration RSD	31.5 %	0.7 %	0.2 %	0.2 %	2.8 %	0.2 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: xLDR 500 Na
Analysis started at: 9/26/2024 11:24:59 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0017 ppm	0.0012 ppm	0.0212 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 1	-0.0002 ppm	-0.0003 ppm	0.0008 ppm	0.0225 ppm	0.0001 ppm	0.0000 ppm	0.0085 ppm
Concentration per Run 2	0.0001 ppm	0.0026 ppm	0.0009 ppm	0.0212 ppm	0.0001 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.0017 ppm	0.0199 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Concentration RSD	848.4 %	101.0 %	45.0 %	6.3 %	32.4 %	232.1 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0014 ppm	0.1831 ppm	-0.0094 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0017 ppm	0.1507 ppm	-0.0102 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm	0.0006 ppm	0.1881 ppm	-0.0092 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0020 ppm	0.2104 ppm	-0.0088 ppm
Concentration RSD	76.9 %	231.5 %	51.0 %	3.2 %	49.3 %	16.5 %	7.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0000 ppm	440.5023 [SIC LDR]	-0.0009 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0009 ppm	-0.0001 ppm	0.0002 ppm	456.0876 ppm	-0.0007 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	-0.0001 ppm	426.5056 ppm	-0.0012 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 3	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	438.9138 ppm	-0.0008 ppm	-0.0008 ppm	-0.0006 ppm
Concentration RSD	697.1 %	499.3 %	555.3 %	3.4 %	30.8 %	3.1 %	465.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.0046 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 1	0.0014 ppm	0.0044 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0014 ppm	-0.0004 ppm
Concentration per Run 2	-0.0012 ppm	0.0044 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0049 ppm	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	-0.0001 ppm
Concentration RSD	961.3 %	6.6 %	58.1 %	103.6 %	29,002.2 %	69.0 %	62.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	95.3489 %	87.0486 %	89.5635 %	92.1161 %	72.8603 %	85.5762 %
Concentration per Run 1	0.0005 ppm	95.0354 %	87.1316 %	89.3569 %	93.5432 %	72.8453 %	85.6923 %
Concentration per Run 2	0.0004 ppm	94.6795 %	86.9252 %	90.1781 %	90.8815 %	73.2814 %	85.2971 %
Concentration per Run 3	0.0004 ppm	96.3319 %	87.0889 %	89.1554 %	91.9235 %	72.4542 %	85.7392 %
Concentration RSD	17.2 %	0.9 %	0.1 %	0.6 %	1.5 %	0.6 %	0.3 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 300 Na pass
Analysis started at: 9/26/2024 11:31:34 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0133 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0136 ppm	0.0000 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 2	0.0002 ppm	0.0029 ppm	-0.0005 ppm	0.0133 ppm	0.0001 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 3	0.0003 ppm	-0.0011 ppm	-0.0003 ppm	0.0130 ppm	0.0000 ppm	0.0000 ppm	0.0081 ppm
Concentration RSD	87.7 %	441.2 %	82.7 %	2.4 %	89.3 %	114.9 %	35.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0013 ppm	0.1104 ppm	-0.0047 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0855 ppm	-0.0047 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.1123 ppm	-0.0047 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0023 ppm	0.1334 ppm	-0.0046 ppm
Concentration RSD	117.3 %	276.2 %	150.9 %	8.5 %	68.6 %	21.8 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	276.7035 ppm	-0.0007 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 1	-0.0017 ppm	0.0002 ppm	-0.0001 ppm	262.1478 ppm	-0.0007 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0000 ppm	280.8381 ppm	-0.0006 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 3	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	287.1247 ppm	-0.0008 ppm	-0.0012 ppm	-0.0005 ppm
Concentration RSD	349.5 %	101.7 %	70.9 %	4.7 %	14.8 %	76.1 %	58.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	0.0033 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0026 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0038 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 3	0.0015 ppm	0.0036 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Concentration RSD	268.2 %	18.5 %	204.4 %	150.8 %	135.6 %	157.4 %	57.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	93.9496 %	90.2689 %	91.6251 %	91.5294 %	77.5870 %	88.6824 %
Concentration per Run 1	0.0002 ppm	94.6024 %	90.0655 %	92.3153 %	94.2032 %	78.1963 %	88.7969 %
Concentration per Run 2	0.0003 ppm	93.9281 %	90.4998 %	91.5577 %	90.5890 %	77.2633 %	88.7339 %
Concentration per Run 3	0.0002 ppm	93.3182 %	90.2415 %	91.0022 %	89.7961 %	77.3016 %	88.5164 %
Concentration RSD	34.5 %	0.7 %	0.2 %	0.7 %	2.6 %	0.7 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 20 Si pass
Analysis started at: 9/26/2024 11:41:20 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0016 ppm	0.0007 ppm	0.0104 ppm	0.0000 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 1	0.0002 ppm	-0.0019 ppm	0.0014 ppm	0.0108 ppm	-0.0001 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 2	0.0001 ppm	-0.0017 ppm	0.0002 ppm	0.0102 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	-0.0012 ppm	0.0006 ppm	0.0103 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Concentration RSD	21.0 %	22.7 %	83.7 %	3.1 %	807.5 %	66.8 %	74.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	-0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0027 ppm	0.0203 ppm	0.0020 ppm
Concentration per Run 1	0.0002 ppm	-0.0007 ppm	-0.0003 ppm	0.0002 ppm	0.0019 ppm	0.0283 ppm	0.0018 ppm
Concentration per Run 2	0.0002 ppm	-0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0354 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0003 ppm	0.0003 ppm	0.0052 ppm	-0.0027 ppm	0.0023 ppm
Concentration RSD	29.0 %	2.9 %	1,247.1 %	20.4 %	80.3 %	99.7 %	12.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0360 ppm	-0.0008 ppm	-0.0061 ppm	0.0007 ppm
Concentration per Run 1	0.0020 ppm	0.0002 ppm	-0.0001 ppm	0.0331 ppm	-0.0008 ppm	-0.0066 ppm	0.0001 ppm
Concentration per Run 2	-0.0019 ppm	0.0000 ppm	-0.0001 ppm	0.0356 ppm	-0.0008 ppm	-0.0055 ppm	0.0005 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0393 ppm	-0.0007 ppm	-0.0062 ppm	0.0014 ppm
Concentration RSD	1,445.3 %	151.2 %	3.7 %	8.7 %	5.8 %	9.7 %	97.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0024 ppm	19.1642 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0011 ppm	19.1240 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0034 ppm	19.2118 ppm	-0.0005 ppm	0.0000 ppm	0.0004 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0026 ppm	19.1567 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	48.0 %	0.2 %	182.8 %	58.6 %	6.6 %	34.9 %	332.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	101.7644 %	101.7547 %	100.7025 %	97.2684 %	100.1239 %	98.8763 %
Concentration per Run 1	0.0001 ppm	103.2347 %	101.7129 %	101.0069 %	99.1802 %	100.5591 %	99.0036 %
Concentration per Run 2	0.0001 ppm	101.6772 %	101.9136 %	100.3879 %	97.1634 %	99.6915 %	98.9926 %
Concentration per Run 3	0.0002 ppm	100.3812 %	101.6377 %	100.7126 %	95.4615 %	100.1210 %	98.6328 %
Concentration RSD	30.9 %	1.4 %	0.1 %	0.3 %	1.9 %	0.4 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: IEC 20 Mn -TI
Analysis started at: 9/26/2024 11:47:45 AM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	-0.0015 ppm	-0.0016 ppm	0.0078 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 1	0.0009 ppm	-0.0021 ppm	-0.0027 ppm	0.0079 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 2	0.0011 ppm	0.0004 ppm	-0.0012 ppm	0.0079 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 3	0.0008 ppm	-0.0027 ppm	-0.0008 ppm	0.0077 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm
Recovery Percentage 1	13.210 %	-1.450 %	-31.411 %	26.150 %	0.253 %	-0.080 %	2.031 %
Concentration RSD	14.6 %	114.7 %	62.7 %	1.4 %	133.1 %	254.5 %	131.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0033 ppm	0.0004 ppm	0.0002 ppm	0.0236 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0032 ppm	0.0004 ppm	0.0008 ppm	0.0295 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0033 ppm	0.0004 ppm	-0.0003 ppm	0.0253 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0032 ppm	0.0003 ppm	0.0000 ppm	0.0160 ppm	0.0009 ppm
Recovery Percentage 1	0.755 %	-0.318 %	32.533 %	3.779 %	0.339 %	0.945 %	10.696 %
Concentration RSD	80.6 %	57.9 %	2.2 %	15.7 %	329.0 %	29.2 %	13.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0053 ppm	19.9986 ppm	-0.0001 ppm	0.0167 ppm	0.0005 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 1	-0.0056 ppm	19.7609 ppm	0.0000 ppm	0.0138 ppm	0.0005 ppm	0.0005 ppm	-0.0014 ppm
Concentration per Run 2	-0.0059 ppm	20.0409 ppm	0.0000 ppm	0.0167 ppm	0.0005 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 3	-0.0045 ppm	20.1940 ppm	-0.0002 ppm	0.0196 ppm	0.0006 ppm	0.0004 ppm	0.0004 ppm
Recovery Percentage 1	-5.306 %	199,985.991 %	-0.166 %	0.834 %	2.184 %	6.663 %	-0.380 %
Concentration RSD	14.3 %	1.1 %	77.3 %	17.3 %	3.7 %	61.8 %	562.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0028 ppm	0.0019 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0047 ppm
Concentration per Run 1	-0.0036 ppm	0.0020 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0052 ppm
Concentration per Run 2	-0.0032 ppm	0.0015 ppm	-0.0007 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0046 ppm
Concentration per Run 3	-0.0018 ppm	0.0021 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0043 ppm
Recovery Percentage 1	-28.454 %	0.375 %	-0.805 %	0.510 %	0.777 %	0.891 %	46.819 %
Concentration RSD	33.0 %	16.8 %	108.8 %	47.7 %	82.1 %	143.1 %	10.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	101.1853 %	99.2730 %	98.4303 %	97.1025 %	97.0109 %	96.4275 %
Concentration per Run 1	0.0002 ppm	101.0592 %	99.2308 %	98.3675 %	99.3860 %	97.1632 %	96.2014 %
Concentration per Run 2	0.0002 ppm	101.3953 %	99.0152 %	98.4488 %	96.2158 %	96.9764 %	96.0898 %
Concentration per Run 3	0.0002 ppm	101.1016 %	99.5731 %	98.4745 %	95.7058 %	96.8931 %	96.9913 %
Recovery Percentage 1	3.575 %						
Concentration RSD	4.9 %	0.2 %	0.3 %	0.1 %	2.1 %	0.1 %	0.5 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 5 Cd pass
Analysis started at: 9/26/2024 12:25:53 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0005 ppm	-0.0028 ppm	0.0039 ppm	0.0001 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	0.0000 ppm	-0.0012 ppm	-0.0033 ppm	0.0038 ppm	0.0000 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 2	0.0003 ppm	0.0019 ppm	-0.0025 ppm	0.0040 ppm	0.0001 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 3	0.0002 ppm	0.0009 ppm	-0.0024 ppm	0.0039 ppm	0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration RSD	108.7 %	296.1 %	18.3 %	1.7 %	60.9 %	70.7 %	25.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9158 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0091 ppm	0.0006 ppm
Concentration per Run 1	4.9161 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0176 ppm	0.0004 ppm
Concentration per Run 2	4.9317 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0006 ppm	-0.0056 ppm	0.0010 ppm
Concentration per Run 3	4.8998 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0154 ppm	0.0005 ppm
Concentration RSD	0.3 %	107.5 %	330.9 %	21.5 %	31.9 %	140.7 %	43.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0016 ppm	0.0001 ppm	-0.0001 ppm	0.0067 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0070 ppm	0.0000 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0061 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0031 ppm	0.0001 ppm	0.0000 ppm	0.0071 ppm	-0.0001 ppm	-0.0008 ppm	-0.0001 ppm
Concentration RSD	106.2 %	68.0 %	98.0 %	8.1 %	73.5 %	68.9 %	259.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0018 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0027 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 3	0.0020 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm
Concentration RSD	59.3 %	35.0 %	71.0 %	27.9 %	230.7 %	24.5 %	107.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	102.4357 %	101.3624 %	99.7240 %	99.7369 %	100.9936 %	99.0911 %
Concentration per Run 1	0.0003 ppm	104.0371 %	101.1286 %	100.1697 %	103.6366 %	101.5795 %	99.0803 %
Concentration per Run 2	0.0003 ppm	101.1953 %	101.4791 %	99.6669 %	98.0663 %	100.8136 %	99.0112 %
Concentration per Run 3	0.0003 ppm	102.0748 %	101.4796 %	99.3354 %	97.5077 %	100.5878 %	99.1819 %
Concentration RSD	4.6 %	1.4 %	0.2 %	0.4 %	3.4 %	0.5 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 5 Mo pass
Analysis started at: 9/26/2024 12:32:19 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.1311 ppm	-0.0009 ppm	-0.0182 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.1258 ppm	-0.0001 ppm	-0.0184 ppm	-0.0001 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 2	0.0002 ppm	0.1328 ppm	-0.0011 ppm	-0.0185 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.1348 ppm	-0.0014 ppm	-0.0177 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm
Concentration RSD	57.2 %	3.6 %	74.1 %	2.2 %	42.3 %	7.2 %	110.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0013 ppm	0.0020 ppm	0.0004 ppm	0.0068 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0020 ppm	0.0011 ppm	0.0137 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	-0.0014 ppm	0.0020 ppm	-0.0004 ppm	0.0035 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0014 ppm	0.0019 ppm	0.0005 ppm	0.0033 ppm	-0.0002 ppm
Concentration RSD	31.1 %	18.3 %	6.8 %	1.4 %	203.1 %	87.3 %	237.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.1156 ppm	-0.0001 ppm	5.0575 [SIC 5]	0.0157 ppm	0.0009 ppm	-0.0042 ppm	-0.0035 ppm
Concentration per Run 1	-0.1139 ppm	-0.0002 ppm	5.0696 ppm	0.0185 ppm	0.0007 ppm	-0.0045 ppm	-0.0027 ppm
Concentration per Run 2	-0.1191 ppm	-0.0001 ppm	5.0721 ppm	0.0145 ppm	0.0010 ppm	-0.0037 ppm	-0.0043 ppm
Concentration per Run 3	-0.1137 ppm	0.0000 ppm	5.0307 ppm	0.0142 ppm	0.0011 ppm	-0.0045 ppm	-0.0035 ppm
Concentration RSD	2.6 %	101.5 %	0.5 %	15.1 %	21.5 %	11.0 %	22.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0021 ppm	0.0696 ppm	-0.0003 ppm	0.0001 ppm	0.0011 ppm	-0.0004 ppm	0.0152 ppm
Concentration per Run 1	0.0023 ppm	0.0696 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	-0.0007 ppm	0.0154 ppm
Concentration per Run 2	0.0027 ppm	0.0702 ppm	-0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0002 ppm	0.0152 ppm
Concentration per Run 3	0.0013 ppm	0.0691 ppm	-0.0008 ppm	0.0001 ppm	0.0013 ppm	-0.0006 ppm	0.0150 ppm
Concentration RSD	34.6 %	0.8 %	142.4 %	32.0 %	21.4 %	127.9 %	1.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0005 ppm	101.8741 %	100.4146 %	98.3517 %	98.4196 %	99.1531 %	97.3412 %
Concentration per Run 1	-0.0005 ppm	101.6893 %	100.4776 %	98.0176 %	99.6743 %	98.7660 %	97.3932 %
Concentration per Run 2	-0.0006 ppm	102.0572 %	100.4845 %	98.1511 %	98.3508 %	99.0389 %	97.3730 %
Concentration per Run 3	-0.0005 ppm	101.8758 %	100.2819 %	98.8866 %	97.2335 %	99.6545 %	97.2574 %
Concentration RSD	14.7 %	0.2 %	0.1 %	0.5 %	1.2 %	0.5 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 5 Se pass
Analysis started at: 9/26/2024 12:38:39 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0046 ppm	-0.0007 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 1	0.0004 ppm	0.0074 ppm	-0.0001 ppm	0.0026 ppm	0.0000 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 2	0.0002 ppm	0.0024 ppm	-0.0010 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run 3	0.0001 ppm	0.0041 ppm	-0.0009 ppm	0.0028 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration RSD	69.2 %	54.3 %	80.3 %	4.4 %	1,360.0 %	219.4 %	8.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0026 ppm	0.0056 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0027 ppm	0.0019 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0022 ppm	0.0169 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0029 ppm	-0.0018 ppm	0.0006 ppm
Concentration RSD	12.6 %	31.1 %	305.4 %	4.1 %	13.2 %	175.6 %	214.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0020 ppm	0.0075 ppm	0.0000 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 1	-0.0011 ppm	0.0000 ppm	0.0022 ppm	0.0057 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.0000 ppm	0.0020 ppm	0.0070 ppm	0.0001 ppm	-0.0006 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0018 ppm	0.0098 ppm	0.0001 ppm	-0.0004 ppm	0.0008 ppm
Concentration RSD	1,011.5 %	295.7 %	11.7 %	27.8 %	52.1 %	21.0 %	99.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	5.3148 [SIC 5]	0.0017 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	5.3151 ppm	0.0022 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	5.3091 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	5.3202 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0013 ppm	-0.0001 ppm
Concentration RSD	0.1 %	29.4 %	65.4 %	19.1 %	127.0 %	78.5 %	110.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	102.7497 %	99.4157 %	97.1301 %	99.7911 %	97.7907 %	97.0242 %
Concentration per Run 1	0.0003 ppm	104.2379 %	99.3922 %	96.9609 %	103.8152 %	97.2395 %	96.9129 %
Concentration per Run 2	0.0003 ppm	102.1210 %	99.3627 %	97.2047 %	97.9670 %	97.7036 %	97.2213 %
Concentration per Run 3	0.0003 ppm	101.8903 %	99.4922 %	97.2248 %	97.5911 %	98.4289 %	96.9383 %
Concentration RSD	14.0 %	1.3 %	0.1 %	0.2 %	3.5 %	0.6 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 1:07:48 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5164 ppm	0.5157 ppm	0.5014 ppm	0.5174 ppm	0.5153 ppm	0.5098 ppm	0.5026 ppm
Concentration per Run 1	0.5221 ppm	0.4971 ppm	0.5002 ppm	0.5163 ppm	0.4941 ppm	0.4893 ppm	0.4883 ppm
Concentration per Run 2	0.5125 ppm	0.5247 ppm	0.5008 ppm	0.5166 ppm	0.5262 ppm	0.5209 ppm	0.5108 ppm
Concentration per Run 3	0.5148 ppm	0.5252 ppm	0.5031 ppm	0.5193 ppm	0.5255 ppm	0.5192 ppm	0.5088 ppm
Recovery Percentage 1	103.289 %	103.138 %	100.274 %	103.476 %	103.052 %	101.956 %	100.525 %
Concentration RSD	1.0 %	3.1 %	0.3 %	0.3 %	3.6 %	3.5 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4953 ppm	0.4764 ppm	0.4968 ppm	0.5096 ppm	0.5070 ppm	5.2345 ppm	0.5165 ppm
Concentration per Run 1	0.4945 ppm	0.4752 ppm	0.5018 ppm	0.5154 ppm	0.4877 ppm	4.9884 ppm	0.4935 ppm
Concentration per Run 2	0.4955 ppm	0.4778 ppm	0.4954 ppm	0.5077 ppm	0.5169 ppm	5.3814 ppm	0.5301 ppm
Concentration per Run 3	0.4957 ppm	0.4764 ppm	0.4933 ppm	0.5057 ppm	0.5164 ppm	5.3338 ppm	0.5259 ppm
Recovery Percentage 1	99.050 %	95.289 %	99.365 %	101.920 %	101.398 %	104.691 %	103.298 %
Concentration RSD	0.1 %	0.3 %	0.9 %	1.0 %	3.3 %	4.1 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5198 ppm	0.4912 ppm	0.5039 ppm	10.2466 ppm	0.4687 ppm	0.4801 ppm	0.4882 ppm
Concentration per Run 1	0.5233 ppm	0.4703 ppm	0.5029 ppm	9.8101 ppm	0.4687 ppm	0.4791 ppm	0.4889 ppm
Concentration per Run 2	0.5200 ppm	0.5028 ppm	0.5039 ppm	10.4886 ppm	0.4692 ppm	0.4815 ppm	0.4873 ppm
Concentration per Run 3	0.5161 ppm	0.5004 ppm	0.5049 ppm	10.4410 ppm	0.4683 ppm	0.4797 ppm	0.4884 ppm
Recovery Percentage 1	103.956 %	98.235 %	100.778 %	102.466 %	93.748 %	96.025 %	97.642 %
Concentration RSD	0.7 %	3.7 %	0.2 %	3.7 %	0.1 %	0.3 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5068 ppm	5.2891 ppm	0.4997 ppm	0.4900 ppm	0.5114 ppm	0.4977 ppm	0.5032 ppm
Concentration per Run 1	0.5053 ppm	5.2866 ppm	0.4999 ppm	0.4696 ppm	0.5181 ppm	0.4965 ppm	0.5097 ppm
Concentration per Run 2	0.5063 ppm	5.2923 ppm	0.4995 ppm	0.5006 ppm	0.5083 ppm	0.4987 ppm	0.5002 ppm
Concentration per Run 3	0.5088 ppm	5.2883 ppm	0.4998 ppm	0.4998 ppm	0.5078 ppm	0.4979 ppm	0.4999 ppm
Recovery Percentage 1	101.357 %	100.744 %	99.949 %	98.003 %	102.288 %	99.538 %	100.650 %
Concentration RSD	0.4 %	0.1 %	0.0 %	3.6 %	1.1 %	0.2 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4559 ppm	103.9426 %	99.4179 %	97.1910 %	100.0717 %	93.2704 %	96.7425 %
Concentration per Run 1	0.4540 ppm	105.7809 %	98.8335 %	97.3697 %	104.0054 %	93.4393 %	95.8005 %
Concentration per Run 2	0.4579 ppm	103.2615 %	99.8055 %	97.2832 %	98.2704 %	93.2052 %	97.2691 %
Concentration per Run 3	0.4559 ppm	102.7853 %	99.6147 %	96.9201 %	97.9393 %	93.1669 %	97.1579 %
Recovery Percentage 1	91.184 %						
Concentration RSD	0.4 %	1.5 %	0.5 %	0.2 %	3.4 %	0.2 %	0.8 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 1:13:52 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0009 ppm	-0.0007 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 1	-0.0001 ppm	-0.0026 ppm	-0.0015 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 2	-0.0002 ppm	0.0037 ppm	0.0001 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 3	-0.0003 ppm	-0.0038 ppm	-0.0006 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	-2.767 %	-0.862 %	-13.068 %	7.722 %	-0.186 %	0.055 %	-1.211 %
Concentration RSD	39.5 %	468.7 %	125.2 %	5.1 %	105.8 %	689.3 %	76.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0004 ppm	-0.0038 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0005 ppm	-0.0134 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm	-0.0066 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0085 ppm	-0.0006 ppm
Recovery Percentage 1	0.452 %	-0.263 %	-1.155 %	3.744 %	0.881 %	-0.154 %	-3.159 %
Concentration RSD	52.7 %	146.9 %	73.7 %	28.4 %	97.5 %	292.1 %	100.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	-0.0030 ppm	0.0000 ppm	0.0002 ppm	-0.0029 ppm	0.0001 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 2	-0.0016 ppm	0.0001 ppm	0.0001 ppm	0.0048 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0021 ppm	-0.0002 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm
Recovery Percentage 1	-2.271 %	0.018 %	0.110 %	0.021 %	0.474 %	-4.012 %	-0.597 %
Concentration RSD	31.2 %	7,730.8 %	191.0 %	944.7 %	34.7 %	42.3 %	73.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	0.0001 ppm
Recovery Percentage 1	6.970 %	-0.020 %	0.103 %	0.504 %	0.948 %	-2.392 %	0.266 %
Concentration RSD	118.0 %	104.2 %	338.1 %	55.2 %	146.2 %	123.0 %	494.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	103.8152 %	99.3807 %	97.0612 %	99.7989 %	98.3497 %	96.0001 %
Concentration per Run 1	0.0000 ppm	105.4307 %	99.2072 %	96.2750 %	104.1743 %	97.5787 %	95.9355 %
Concentration per Run 2	0.0000 ppm	103.2233 %	99.4902 %	97.2592 %	98.7358 %	98.5033 %	95.8692 %
Concentration per Run 3	0.0000 ppm	102.7915 %	99.4447 %	97.6494 %	96.4865 %	98.9672 %	96.1955 %
Recovery Percentage 1	0.316 %						
Concentration RSD	188.7 %	1.4 %	0.2 %	0.7 %	4.0 %	0.7 %	0.2 %

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-1 WG1976262
Analysis started at: 9/26/2024 1:20:56 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0107 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	-0.0003 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0106 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	0.0006 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0099 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0014 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0116 ppm
Recovery Percentage 1	-0.318 %	0.171 %	-7.322 %	6.372 %	-0.247 %	0.008 %	10.707 %
Concentration RSD	736.1 %	516.9 %	282.6 %	9.9 %	66.0 %	4,295.1 %	8.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0004 ppm	-0.0056 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0034 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0008 ppm	-0.0216 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0005 ppm	0.0013 ppm	0.0001 ppm
Recovery Percentage 1	-0.144 %	-0.644 %	-1.623 %	7.577 %	0.729 %	-0.224 %	-3.431 %
Concentration RSD	310.7 %	69.6 %	9.2 %	7.9 %	147.1 %	247.7 %	103.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0095 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 1	-0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0055 ppm	-0.0001 ppm	-0.0004 ppm	-0.0010 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0139 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0091 ppm	0.0000 ppm	-0.0007 ppm	-0.0002 ppm
Recovery Percentage 1	-0.631 %	0.199 %	0.129 %	0.476 %	0.008 %	-4.564 %	-0.836 %
Concentration RSD	115.0 %	547.1 %	161.7 %	44.0 %	4,299.3 %	38.8 %	122.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0044 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0008 ppm	0.0044 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0043 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0044 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	6.668 %	0.874 %	-0.758 %	0.625 %	-0.500 %	-4.032 %	-1.985 %
Concentration RSD	122.9 %	0.9 %	21.4 %	55.3 %	168.6 %	67.2 %	34.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0013 ppm	105.2132 %	100.8645 %	96.8318 %	100.0154 %	98.9533 %	97.5380 %
Concentration per Run 1	0.0013 ppm	106.3137 %	101.0190 %	97.2533 %	101.0357 %	98.9806 %	97.8797 %
Concentration per Run 2	0.0013 ppm	104.7890 %	100.6998 %	96.4999 %	99.7392 %	99.1150 %	97.4405 %
Concentration per Run 3	0.0013 ppm	104.5370 %	100.8748 %	96.7422 %	99.2711 %	98.7642 %	97.2937 %
Recovery Percentage 1	26.149 %						
Concentration RSD	3.8 %	0.9 %	0.2 %	0.4 %	0.9 %	0.2 %	0.3 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-2 WG1976262
Analysis started at: 9/26/2024 1:27:20 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0546 ppm	2.1880 ppm	0.1249 ppm	1.0363 ppm	2.1624 ppm	0.0522 ppm	10.2212 ppm
Concentration per Run 1	0.0546 ppm	2.1879 ppm	0.1244 ppm	1.0357 ppm	2.1565 ppm	0.0522 ppm	10.2428 ppm
Concentration per Run 2	0.0544 ppm	2.1763 ppm	0.1251 ppm	1.0376 ppm	2.1983 ppm	0.0522 ppm	10.1633 ppm
Concentration per Run 3	0.0548 ppm	2.1998 ppm	0.1251 ppm	1.0357 ppm	2.1324 ppm	0.0523 ppm	10.2577 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.1 %	1.5 %	0.2 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0538 ppm	0.4826 ppm	0.2009 ppm	0.2743 ppm	1.0630 ppm	11.4586 ppm	-0.0011 ppm
Concentration per Run 1	0.0538 ppm	0.4821 ppm	0.1999 ppm	0.2747 ppm	1.0667 ppm	11.4524 ppm	-0.0008 ppm
Concentration per Run 2	0.0538 ppm	0.4822 ppm	0.2021 ppm	0.2738 ppm	1.0604 ppm	11.3469 ppm	-0.0013 ppm
Concentration per Run 3	0.0539 ppm	0.4835 ppm	0.2008 ppm	0.2743 ppm	1.0619 ppm	11.5765 ppm	-0.0011 ppm
Concentration RSD	0.1 %	0.2 %	0.6 %	0.2 %	0.3 %	1.0 %	27.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.5358 ppm	0.5145 ppm	1.0236 ppm	11.5193 ppm	0.4791 ppm	0.5246 ppm	0.5141 ppm
Concentration per Run 1	10.5602 ppm	0.5136 ppm	1.0208 ppm	11.5215 ppm	0.4791 ppm	0.5242 ppm	0.5122 ppm
Concentration per Run 2	10.5078 ppm	0.5154 ppm	1.0253 ppm	11.4151 ppm	0.4782 ppm	0.5253 ppm	0.5138 ppm
Concentration per Run 3	10.5393 ppm	0.5145 ppm	1.0247 ppm	11.6213 ppm	0.4799 ppm	0.5243 ppm	0.5164 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.9 %	0.2 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1263 ppm	0.8929 ppm	1.0121 ppm	1.0139 ppm	1.0324 ppm	0.1205 ppm	0.5175 ppm
Concentration per Run 1	0.1260 ppm	0.8911 ppm	1.0097 ppm	1.0110 ppm	1.0321 ppm	0.1206 ppm	0.5170 ppm
Concentration per Run 2	0.1261 ppm	0.8932 ppm	1.0124 ppm	1.0118 ppm	1.0347 ppm	0.1208 ppm	0.5182 ppm
Concentration per Run 3	0.1267 ppm	0.8945 ppm	1.0142 ppm	1.0189 ppm	1.0303 ppm	0.1202 ppm	0.5172 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.4 %	0.2 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4595 ppm	102.1446 %	97.0725 %	93.0754 %	98.5212 %	89.0938 %	94.3743 %
Concentration per Run 1	0.4600 ppm	99.8135 %	97.2863 %	93.3683 %	98.7677 %	89.3469 %	94.3709 %
Concentration per Run 2	0.4582 ppm	103.5460 %	96.9663 %	92.9787 %	98.8048 %	89.1283 %	94.2555 %
Concentration per Run 3	0.4603 ppm	103.0744 %	96.9648 %	92.8792 %	97.9909 %	88.8062 %	94.4966 %
Concentration RSD	0.2 %	2.0 %	0.2 %	0.3 %	0.5 %	0.3 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453906-01 WG1976262
Analysis started at: 9/26/2024 1:33:32 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0531 ppm	-0.0006 ppm	0.0079 ppm	0.0020 ppm	0.0000 ppm	1.8278 ppm
Concentration per Run 1	-0.0005 ppm	0.0550 ppm	-0.0005 ppm	0.0077 ppm	0.0019 ppm	0.0000 ppm	1.7954 ppm
Concentration per Run 2	0.0002 ppm	0.0483 ppm	0.0001 ppm	0.0078 ppm	0.0021 ppm	0.0000 ppm	1.8473 ppm
Concentration per Run 3	-0.0001 ppm	0.0561 ppm	-0.0013 ppm	0.0080 ppm	0.0020 ppm	0.0000 ppm	1.8406 ppm
Concentration RSD	258.9 %	8.0 %	121.0 %	1.8 %	2.7 %	124.6 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0651 ppm	0.2683 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0631 ppm	0.2520 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0665 ppm	0.2707 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0658 ppm	0.2821 ppm	-0.0009 ppm
Concentration RSD	544.6 %	23.9 %	98.5 %	19.6 %	2.7 %	5.7 %	79.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6313 ppm	0.0222 ppm	0.0006 ppm	3.3885 ppm	-0.0001 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.6284 ppm	0.0220 ppm	0.0008 ppm	3.2630 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 2	0.6306 ppm	0.0224 ppm	0.0006 ppm	3.4111 ppm	0.0001 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 3	0.6348 ppm	0.0224 ppm	0.0005 ppm	3.4914 ppm	-0.0001 ppm	-0.0003 ppm	0.0005 ppm
Concentration RSD	0.5 %	1.0 %	19.2 %	3.4 %	166.8 %	21.8 %	54.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	1.1424 ppm	-0.0003 ppm	0.0077 ppm	0.0005 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	1.1425 ppm	-0.0001 ppm	0.0075 ppm	0.0002 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 2	-0.0003 ppm	1.1422 ppm	-0.0001 ppm	0.0078 ppm	0.0006 ppm	-0.0021 ppm	-0.0002 ppm
Concentration per Run 3	0.0013 ppm	1.1424 ppm	-0.0008 ppm	0.0079 ppm	0.0006 ppm	-0.0011 ppm	0.0001 ppm
Concentration RSD	175.4 %	0.0 %	124.1 %	2.8 %	41.2 %	58.3 %	580.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	105.5960 %	99.4635 %	95.4232 %	101.4411 %	96.3176 %	96.2019 %
Concentration per Run 1	0.0011 ppm	106.3154 %	99.6494 %	95.5407 %	103.4532 %	96.2152 %	95.9172 %
Concentration per Run 2	0.0010 ppm	104.7826 %	99.3253 %	95.5083 %	100.4040 %	96.3238 %	96.4657 %
Concentration per Run 3	0.0010 ppm	105.6899 %	99.4158 %	95.2205 %	100.4661 %	96.4139 %	96.2228 %
Concentration RSD	5.0 %	0.7 %	0.2 %	0.2 %	1.7 %	0.1 %	0.3 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454942-01 WG1976262
Analysis started at: 9/26/2024 1:39:54 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0049 ppm	348.6654 ppm	0.0123 ppm	0.1245 ppm	0.9022 ppm	0.0002 ppm	98.1957 ppm
Concentration per Run 1	0.0048 ppm	332.1655 ppm	0.0140 ppm	0.1235 ppm	0.8866 ppm	0.0002 ppm	96.5569 ppm
Concentration per Run 2	0.0047 ppm	345.3700 ppm	0.0129 ppm	0.1252 ppm	0.9100 ppm	0.0002 ppm	99.0313 ppm
Concentration per Run 3	0.0051 ppm	368.4608 ppm	0.0100 ppm	0.1248 ppm	0.9100 ppm	0.0002 ppm	98.9988 ppm
Concentration RSD	4.1 %	5.3 %	16.9 %	0.7 %	1.5 %	6.2 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0034 ppm	0.0059 ppm	0.0344 ppm	1.5829 ppm	10.2099 ppm	8.1882 ppm	0.0002 ppm
Concentration per Run 1	0.0034 ppm	0.0058 ppm	0.0344 ppm	1.5814 ppm	10.0021 ppm	8.2141 ppm	0.0004 ppm
Concentration per Run 2	0.0032 ppm	0.0059 ppm	0.0341 ppm	1.5926 ppm	10.3478 ppm	7.9956 ppm	0.0002 ppm
Concentration per Run 3	0.0035 ppm	0.0059 ppm	0.0346 ppm	1.5748 ppm	10.2797 ppm	8.3549 ppm	0.0001 ppm
Concentration RSD	3.8 %	1.4 %	0.8 %	0.6 %	1.8 %	2.2 %	59.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.4449 ppm	0.2015 ppm	0.0196 ppm	14.4770 ppm	0.0381 ppm	0.1069 ppm	0.0005 ppm
Concentration per Run 1	6.4114 ppm	0.1980 ppm	0.0196 ppm	14.5589 ppm	0.0384 ppm	0.1058 ppm	0.0022 ppm
Concentration per Run 2	6.4710 ppm	0.2036 ppm	0.0194 ppm	14.1879 ppm	0.0381 ppm	0.1064 ppm	-0.0014 ppm
Concentration per Run 3	6.4523 ppm	0.2030 ppm	0.0196 ppm	14.6843 ppm	0.0379 ppm	0.1083 ppm	0.0008 ppm
Concentration RSD	0.5 %	1.5 %	0.5 %	1.8 %	0.8 %	1.2 %	359.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0095 ppm	6.6068 ppm	0.0311 ppm	0.3699 ppm	0.0720 ppm	-0.0111 ppm	0.0199 ppm
Concentration per Run 1	0.0101 ppm	6.5940 ppm	0.0309 ppm	0.3630 ppm	0.0730 ppm	-0.0101 ppm	0.0199 ppm
Concentration per Run 2	0.0103 ppm	6.6234 ppm	0.0308 ppm	0.3732 ppm	0.0720 ppm	-0.0126 ppm	0.0197 ppm
Concentration per Run 3	0.0080 ppm	6.6030 ppm	0.0315 ppm	0.3734 ppm	0.0709 ppm	-0.0105 ppm	0.0201 ppm
Concentration RSD	13.6 %	0.2 %	1.3 %	1.6 %	1.4 %	11.9 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	3.2735 ppm	98.7795 %	91.4644 %	86.5664 %	94.5808 %	72.1016 %	88.0702 %
Concentration per Run 1	3.2789 ppm	99.4110 %	91.5605 %	86.8720 %	96.7802 %	72.2625 %	88.0722 %
Concentration per Run 2	3.2891 ppm	99.0415 %	91.5497 %	86.7394 %	93.7527 %	72.1329 %	88.2210 %
Concentration per Run 3	3.2525 ppm	97.8859 %	91.2830 %	86.0877 %	93.2094 %	71.9094 %	87.9173 %
Concentration RSD	0.6 %	0.8 %	0.2 %	0.5 %	2.0 %	0.2 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: zL2454942-01D5 WG1976262
Analysis started at: 9/26/2024 1:46:13 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0011 ppm	66.9185 ppm	0.0023 ppm	0.0287 ppm	0.1752 ppm	0.0000 ppm	19.3787 ppm
Concentration per Run 1	0.0011 ppm	64.1083 ppm	0.0023 ppm	0.0287 ppm	0.1685 ppm	0.0000 ppm	18.6144 ppm
Concentration per Run 2	0.0011 ppm	68.0773 ppm	0.0018 ppm	0.0287 ppm	0.1787 ppm	0.0000 ppm	19.8186 ppm
Concentration per Run 3	0.0011 ppm	68.5698 ppm	0.0028 ppm	0.0286 ppm	0.1783 ppm	0.0001 ppm	19.7030 ppm
Concentration RSD	3.2 %	3.7 %	20.3 %	0.2 %	3.3 %	44.6 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0010 ppm	0.0070 ppm	0.3068 ppm	2.0323 ppm	1.4755 ppm	-0.0001 ppm
Concentration per Run 1	0.0007 ppm	0.0010 ppm	0.0069 ppm	0.3052 ppm	1.9449 ppm	1.4011 ppm	-0.0004 ppm
Concentration per Run 2	0.0007 ppm	0.0011 ppm	0.0072 ppm	0.3073 ppm	2.0879 ppm	1.5002 ppm	0.0002 ppm
Concentration per Run 3	0.0007 ppm	0.0009 ppm	0.0068 ppm	0.3080 ppm	2.0642 ppm	1.5251 ppm	-0.0001 ppm
Concentration RSD	2.2 %	10.4 %	3.0 %	0.5 %	3.8 %	4.4 %	248.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.4462 ppm	0.0402 ppm	0.0040 ppm	2.6192 ppm	0.0068 ppm	0.0197 ppm	0.0001 ppm
Concentration per Run 1	1.4510 ppm	0.0388 ppm	0.0041 ppm	2.4831 ppm	0.0066 ppm	0.0198 ppm	0.0004 ppm
Concentration per Run 2	1.4527 ppm	0.0409 ppm	0.0039 ppm	2.6475 ppm	0.0067 ppm	0.0194 ppm	-0.0002 ppm
Concentration per Run 3	1.4349 ppm	0.0411 ppm	0.0040 ppm	2.7269 ppm	0.0070 ppm	0.0200 ppm	0.0000 ppm
Concentration RSD	0.7 %	3.2 %	2.7 %	4.7 %	3.7 %	1.4 %	321.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	1.1837 ppm	0.0068 ppm	0.0725 ppm	0.0146 ppm	-0.0023 ppm	0.0037 ppm
Concentration per Run 1	0.0020 ppm	1.1856 ppm	0.0067 ppm	0.0698 ppm	0.0148 ppm	-0.0030 ppm	0.0036 ppm
Concentration per Run 2	0.0005 ppm	1.1854 ppm	0.0069 ppm	0.0740 ppm	0.0149 ppm	-0.0022 ppm	0.0039 ppm
Concentration per Run 3	0.0033 ppm	1.1800 ppm	0.0068 ppm	0.0739 ppm	0.0142 ppm	-0.0017 ppm	0.0036 ppm
Concentration RSD	73.4 %	0.3 %	1.5 %	3.3 %	2.5 %	30.4 %	4.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5870 ppm	101.3607 %	96.5772 %	91.9791 %	98.0147 %	90.1795 %	93.0077 %
Concentration per Run 1	0.5855 ppm	103.4154 %	96.4736 %	92.0354 %	102.4870 %	90.3070 %	92.9172 %
Concentration per Run 2	0.5887 ppm	101.1283 %	96.6246 %	91.8148 %	96.0616 %	90.2426 %	93.0729 %
Concentration per Run 3	0.5867 ppm	99.5383 %	96.6334 %	92.0872 %	95.4954 %	89.9889 %	93.0331 %
Concentration RSD	0.3 %	1.9 %	0.1 %	0.2 %	4.0 %	0.2 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454206-05 WG1976262
Analysis started at: 9/26/2024 1:52:31 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0926 ppm	0.0000 ppm	0.0495 ppm	0.0420 ppm	0.0000 ppm	25.9431 ppm
Concentration per Run 1	0.0002 ppm	0.0834 ppm	-0.0009 ppm	0.0496 ppm	0.0405 ppm	0.0000 ppm	24.8985 ppm
Concentration per Run 2	0.0004 ppm	0.0949 ppm	0.0009 ppm	0.0495 ppm	0.0427 ppm	0.0000 ppm	26.5631 ppm
Concentration per Run 3	0.0002 ppm	0.0997 ppm	0.0001 ppm	0.0494 ppm	0.0428 ppm	0.0000 ppm	26.3678 ppm
Concentration RSD	56.4 %	9.0 %	164,358.7 %	0.2 %	3.1 %	66.0 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0019 ppm	0.3071 ppm	4.4376 ppm	0.0016 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0019 ppm	0.2925 ppm	4.3083 ppm	0.0014 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0019 ppm	0.3143 ppm	4.4479 ppm	0.0019 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm	0.3146 ppm	4.5567 ppm	0.0015 ppm
Concentration RSD	6.7 %	1,122.4 %	275.8 %	5.6 %	4.1 %	2.8 %	16.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5182 ppm	0.0568 ppm	0.0008 ppm	24.7660 ppm	0.0006 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 1	5.5648 ppm	0.0543 ppm	0.0009 ppm	24.0845 ppm	0.0005 ppm	-0.0018 ppm	0.0004 ppm
Concentration per Run 2	5.5106 ppm	0.0582 ppm	0.0009 ppm	24.8366 ppm	0.0007 ppm	-0.0016 ppm	0.0005 ppm
Concentration per Run 3	5.4792 ppm	0.0580 ppm	0.0006 ppm	25.3771 ppm	0.0007 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	0.8 %	3.9 %	21.5 %	2.6 %	16.6 %	10.2 %	162.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	3.4160 ppm	-0.0008 ppm	0.1137 ppm	0.0027 ppm	-0.0005 ppm	0.0011 ppm
Concentration per Run 1	0.0002 ppm	3.4155 ppm	-0.0008 ppm	0.1094 ppm	0.0032 ppm	-0.0006 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	3.4311 ppm	-0.0004 ppm	0.1155 ppm	0.0026 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 3	0.0009 ppm	3.4014 ppm	-0.0011 ppm	0.1163 ppm	0.0024 ppm	-0.0004 ppm	0.0012 ppm
Concentration RSD	137.4 %	0.4 %	42.9 %	3.3 %	15.4 %	23.3 %	5.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	105.6575 %	95.3055 %	91.0369 %	101.3860 %	88.0230 %	92.0356 %
Concentration per Run 1	0.0015 ppm	109.0420 %	94.6097 %	91.2890 %	105.8359 %	88.3350 %	91.4759 %
Concentration per Run 2	0.0016 ppm	103.7686 %	95.7739 %	90.7336 %	99.3339 %	87.5781 %	92.3666 %
Concentration per Run 3	0.0016 ppm	104.1619 %	95.5330 %	91.0880 %	98.9881 %	88.1560 %	92.2643 %
Concentration RSD	3.2 %	2.8 %	0.6 %	0.3 %	3.8 %	0.4 %	0.5 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-3 WG1976262
Analysis started at: 9/26/2024 1:58:50 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0540 ppm	2.2984 ppm	0.1297 ppm	1.1077 ppm	2.2221 ppm	0.0525 ppm	36.0630 ppm
Concentration per Run 1	0.0541 ppm	2.3378 ppm	0.1306 ppm	1.1070 ppm	2.1899 ppm	0.0530 ppm	36.5304 ppm
Concentration per Run 2	0.0543 ppm	2.2737 ppm	0.1293 ppm	1.1066 ppm	2.2138 ppm	0.0522 ppm	35.7806 ppm
Concentration per Run 3	0.0538 ppm	2.2837 ppm	0.1292 ppm	1.1095 ppm	2.2627 ppm	0.0524 ppm	35.8781 ppm
Concentration RSD	0.5 %	1.5 %	0.6 %	0.1 %	1.7 %	0.8 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0524 ppm	0.4826 ppm	0.1965 ppm	0.2734 ppm	1.3629 ppm	15.8707 ppm	0.0012 ppm
Concentration per Run 1	0.0524 ppm	0.4825 ppm	0.1962 ppm	0.2712 ppm	1.3803 ppm	16.2627 ppm	0.0013 ppm
Concentration per Run 2	0.0524 ppm	0.4832 ppm	0.1957 ppm	0.2764 ppm	1.3529 ppm	15.5186 ppm	0.0012 ppm
Concentration per Run 3	0.0524 ppm	0.4820 ppm	0.1975 ppm	0.2725 ppm	1.3556 ppm	15.8307 ppm	0.0011 ppm
Concentration RSD	0.0 %	0.1 %	0.5 %	1.0 %	1.1 %	2.4 %	7.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.4931 ppm	0.5644 ppm	1.0090 ppm	35.8355 ppm	0.4788 ppm	0.5211 ppm	0.5288 ppm
Concentration per Run 1	15.5394 ppm	0.5715 ppm	1.0052 ppm	36.6252 ppm	0.4787 ppm	0.5207 ppm	0.5285 ppm
Concentration per Run 2	15.4569 ppm	0.5601 ppm	1.0121 ppm	35.1940 ppm	0.4804 ppm	0.5222 ppm	0.5305 ppm
Concentration per Run 3	15.4830 ppm	0.5616 ppm	1.0097 ppm	35.6874 ppm	0.4774 ppm	0.5205 ppm	0.5273 ppm
Concentration RSD	0.3 %	1.1 %	0.4 %	2.0 %	0.3 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1314 ppm	4.3340 ppm	0.9896 ppm	1.1240 ppm	1.0285 ppm	0.1190 ppm	0.5124 ppm
Concentration per Run 1	0.1307 ppm	4.3364 ppm	0.9906 ppm	1.1373 ppm	1.0249 ppm	0.1195 ppm	0.5119 ppm
Concentration per Run 2	0.1316 ppm	4.3391 ppm	0.9883 ppm	1.1141 ppm	1.0266 ppm	0.1185 ppm	0.5100 ppm
Concentration per Run 3	0.1317 ppm	4.3264 ppm	0.9899 ppm	1.1205 ppm	1.0340 ppm	0.1190 ppm	0.5152 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	1.1 %	0.5 %	0.4 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4612 ppm	102.2235 %	95.3726 %	90.4836 %	97.5780 %	84.5567 %	92.0095 %
Concentration per Run 1	0.4616 ppm	100.4896 %	95.4579 %	90.5383 %	97.2866 %	84.6216 %	92.5748 %
Concentration per Run 2	0.4613 ppm	103.2037 %	95.2902 %	90.5674 %	97.9530 %	84.5172 %	91.7441 %
Concentration per Run 3	0.4607 ppm	102.9773 %	95.3697 %	90.3452 %	97.4945 %	84.5312 %	91.7097 %
Concentration RSD	0.1 %	1.5 %	0.1 %	0.1 %	0.3 %	0.1 %	0.5 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-4 WG1976262
Analysis started at: 9/26/2024 2:05:00 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0556 ppm	2.3085 ppm	0.1326 ppm	1.1325 ppm	2.2411 ppm	0.0528 ppm	36.5299 ppm
Concentration per Run 1	0.0554 ppm	2.2680 ppm	0.1331 ppm	1.1348 ppm	2.2217 ppm	0.0519 ppm	36.0013 ppm
Concentration per Run 2	0.0549 ppm	2.3085 ppm	0.1328 ppm	1.1343 ppm	2.2581 ppm	0.0530 ppm	36.8129 ppm
Concentration per Run 3	0.0565 ppm	2.3488 ppm	0.1321 ppm	1.1285 ppm	2.2437 ppm	0.0533 ppm	36.7755 ppm
Concentration RSD	1.4 %	1.8 %	0.4 %	0.3 %	0.8 %	1.4 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0536 ppm	0.4945 ppm	0.2017 ppm	0.2810 ppm	1.3737 ppm	15.9963 ppm	0.0014 ppm
Concentration per Run 1	0.0536 ppm	0.4951 ppm	0.2014 ppm	0.2810 ppm	1.3569 ppm	15.6597 ppm	0.0013 ppm
Concentration per Run 2	0.0536 ppm	0.4937 ppm	0.2025 ppm	0.2811 ppm	1.3834 ppm	15.9244 ppm	0.0016 ppm
Concentration per Run 3	0.0537 ppm	0.4947 ppm	0.2014 ppm	0.2809 ppm	1.3808 ppm	16.4046 ppm	0.0012 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.0 %	1.1 %	2.4 %	16.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.9083 ppm	0.5683 ppm	1.0364 ppm	36.0319 ppm	0.4907 ppm	0.5345 ppm	0.5404 ppm
Concentration per Run 1	15.9115 ppm	0.5582 ppm	1.0357 ppm	35.4492 ppm	0.4910 ppm	0.5351 ppm	0.5428 ppm
Concentration per Run 2	15.8509 ppm	0.5728 ppm	1.0394 ppm	35.7133 ppm	0.4907 ppm	0.5324 ppm	0.5410 ppm
Concentration per Run 3	15.9624 ppm	0.5740 ppm	1.0341 ppm	36.9331 ppm	0.4904 ppm	0.5360 ppm	0.5374 ppm
Concentration RSD	0.4 %	1.5 %	0.3 %	2.2 %	0.1 %	0.3 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1341 ppm	4.4733 ppm	1.0122 ppm	1.1325 ppm	1.0572 ppm	0.1219 ppm	0.5256 ppm
Concentration per Run 1	0.1349 ppm	4.4957 ppm	1.0149 ppm	1.1124 ppm	1.0586 ppm	0.1224 ppm	0.5260 ppm
Concentration per Run 2	0.1362 ppm	4.4699 ppm	1.0114 ppm	1.1355 ppm	1.0608 ppm	0.1210 ppm	0.5277 ppm
Concentration per Run 3	0.1313 ppm	4.4545 ppm	1.0102 ppm	1.1496 ppm	1.0523 ppm	0.1224 ppm	0.5232 ppm
Concentration RSD	1.9 %	0.5 %	0.2 %	1.7 %	0.4 %	0.7 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4723 ppm	102.4554 %	95.0230 %	89.9223 %	98.2019 %	83.8513 %	91.5132 %
Concentration per Run 1	0.4711 ppm	103.4115 %	95.1313 %	89.8860 %	100.1532 %	83.9320 %	91.4683 %
Concentration per Run 2	0.4719 ppm	102.0878 %	95.4212 %	89.5106 %	97.7648 %	83.4713 %	91.4570 %
Concentration per Run 3	0.4740 ppm	101.8668 %	94.5165 %	90.3703 %	96.6877 %	84.1505 %	91.6144 %
Concentration RSD	0.3 %	0.8 %	0.5 %	0.5 %	1.8 %	0.4 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-5 WG1976262
Analysis started at: 9/26/2024 2:11:10 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0512 ppm	2.1479 ppm	0.1244 ppm	1.0628 ppm	2.0843 ppm	0.0494 ppm	35.0302 ppm
Concentration per Run 1	0.0510 ppm	2.1074 ppm	0.1241 ppm	1.0608 ppm	2.0579 ppm	0.0486 ppm	34.6593 ppm
Concentration per Run 2	0.0513 ppm	2.1514 ppm	0.1243 ppm	1.0631 ppm	2.1212 ppm	0.0496 ppm	35.1780 ppm
Concentration per Run 3	0.0512 ppm	2.1850 ppm	0.1248 ppm	1.0644 ppm	2.0737 ppm	0.0500 ppm	35.2534 ppm
Concentration RSD	0.3 %	1.8 %	0.3 %	0.2 %	1.6 %	1.5 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0494 ppm	0.4565 ppm	0.1875 ppm	0.2600 ppm	1.2909 ppm	15.2886 ppm	0.0011 ppm
Concentration per Run 1	0.0493 ppm	0.4565 ppm	0.1876 ppm	0.2594 ppm	1.2727 ppm	14.9131 ppm	0.0010 ppm
Concentration per Run 2	0.0494 ppm	0.4573 ppm	0.1869 ppm	0.2600 ppm	1.2969 ppm	15.2488 ppm	0.0010 ppm
Concentration per Run 3	0.0495 ppm	0.4558 ppm	0.1879 ppm	0.2605 ppm	1.3030 ppm	15.7039 ppm	0.0012 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.2 %	1.2 %	2.6 %	11.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.0604 ppm	0.5333 ppm	0.9789 ppm	35.0509 ppm	0.4555 ppm	0.4977 ppm	0.4948 ppm
Concentration per Run 1	15.0735 ppm	0.5278 ppm	0.9782 ppm	34.1205 ppm	0.4559 ppm	0.4989 ppm	0.4943 ppm
Concentration per Run 2	14.9832 ppm	0.5343 ppm	0.9775 ppm	34.9066 ppm	0.4555 ppm	0.4969 ppm	0.4951 ppm
Concentration per Run 3	15.1247 ppm	0.5377 ppm	0.9811 ppm	36.1255 ppm	0.4550 ppm	0.4973 ppm	0.4949 ppm
Concentration RSD	0.5 %	0.9 %	0.2 %	2.9 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1253 ppm	3.9478 ppm	0.9694 ppm	1.0779 ppm	0.9907 ppm	0.1141 ppm	0.4869 ppm
Concentration per Run 1	0.1261 ppm	3.9515 ppm	0.9704 ppm	1.0590 ppm	0.9890 ppm	0.1141 ppm	0.4858 ppm
Concentration per Run 2	0.1238 ppm	3.9470 ppm	0.9682 ppm	1.0797 ppm	0.9886 ppm	0.1144 ppm	0.4856 ppm
Concentration per Run 3	0.1259 ppm	3.9451 ppm	0.9697 ppm	1.0950 ppm	0.9945 ppm	0.1138 ppm	0.4892 ppm
Concentration RSD	1.0 %	0.1 %	0.1 %	1.7 %	0.3 %	0.3 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4383 ppm	103.5693 %	94.8271 %	90.5521 %	98.5384 %	84.7036 %	91.8169 %
Concentration per Run 1	0.4378 ppm	104.2939 %	94.5639 %	90.6921 %	100.6654 %	84.6824 %	91.8200 %
Concentration per Run 2	0.4393 ppm	102.9013 %	94.7520 %	90.4750 %	97.8487 %	84.6181 %	91.7574 %
Concentration per Run 3	0.4377 ppm	103.5127 %	95.1655 %	90.4893 %	97.1011 %	84.8104 %	91.8732 %
Concentration RSD	0.2 %	0.7 %	0.3 %	0.1 %	1.9 %	0.1 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-6D5 WG1976262
Analysis started at: 9/26/2024 2:17:21 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0161 ppm	-0.0013 ppm	0.0131 ppm	0.0083 ppm	0.0000 ppm	5.3117 ppm
Concentration per Run 1	-0.0001 ppm	0.0179 ppm	-0.0024 ppm	0.0132 ppm	0.0082 ppm	0.0000 ppm	5.1458 ppm
Concentration per Run 2	0.0001 ppm	0.0147 ppm	-0.0004 ppm	0.0133 ppm	0.0084 ppm	0.0000 ppm	5.3923 ppm
Concentration per Run 3	0.0003 ppm	0.0157 ppm	-0.0011 ppm	0.0126 ppm	0.0084 ppm	0.0000 ppm	5.3969 ppm
Concentration RSD	203.4 %	10.4 %	78.4 %	2.9 %	1.4 %	157.2 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0633 ppm	0.8233 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0609 ppm	0.8346 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0641 ppm	0.8034 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0650 ppm	0.8320 ppm	0.0004 ppm
Concentration RSD	49.2 %	130.5 %	157.3 %	9.1 %	3.4 %	2.1 %	138.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.1210 ppm	0.0116 ppm	0.0009 ppm	4.6393 ppm	0.0000 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 1	1.1173 ppm	0.0114 ppm	0.0010 ppm	4.5392 ppm	0.0001 ppm	-0.0009 ppm	0.0005 ppm
Concentration per Run 2	1.1243 ppm	0.0116 ppm	0.0009 ppm	4.6615 ppm	-0.0001 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	1.1214 ppm	0.0118 ppm	0.0007 ppm	4.7172 ppm	-0.0001 ppm	-0.0002 ppm	0.0011 ppm
Concentration RSD	0.3 %	2.0 %	18.3 %	2.0 %	678.4 %	57.9 %	105.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.6465 ppm	0.0012 ppm	0.0228 ppm	0.0005 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0007 ppm	0.6455 ppm	0.0014 ppm	0.0221 ppm	0.0004 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 2	0.0007 ppm	0.6468 ppm	0.0013 ppm	0.0231 ppm	0.0004 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.6472 ppm	0.0009 ppm	0.0233 ppm	0.0005 ppm	-0.0009 ppm	0.0000 ppm
Concentration RSD	43.4 %	0.1 %	25.4 %	2.8 %	17.1 %	10.3 %	122.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	103.7016 %	97.9781 %	93.9673 %	99.6274 %	94.1526 %	94.3878 %
Concentration per Run 1	0.0004 ppm	105.3553 %	97.8459 %	94.2123 %	103.6062 %	94.2847 %	94.4210 %
Concentration per Run 2	0.0004 ppm	102.7205 %	97.8713 %	93.6263 %	97.8115 %	93.7309 %	94.2528 %
Concentration per Run 3	0.0005 ppm	103.0290 %	98.2172 %	94.0632 %	97.4644 %	94.4423 %	94.4897 %
Concentration RSD	11.4 %	1.4 %	0.2 %	0.3 %	3.5 %	0.4 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:23:43 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5187 ppm	0.5215 ppm	0.5063 ppm	0.5245 ppm	0.5228 ppm	0.5125 ppm	0.4995 ppm
Concentration per Run 1	0.5171 ppm	0.5036 ppm	0.5045 ppm	0.5244 ppm	0.5072 ppm	0.4988 ppm	0.4870 ppm
Concentration per Run 2	0.5162 ppm	0.5309 ppm	0.5073 ppm	0.5257 ppm	0.5311 ppm	0.5191 ppm	0.5055 ppm
Concentration per Run 3	0.5226 ppm	0.5298 ppm	0.5070 ppm	0.5235 ppm	0.5301 ppm	0.5194 ppm	0.5060 ppm
Recovery Percentage 1	103.734 %	104.296 %	101.256 %	104.906 %	104.559 %	102.493 %	99.896 %
Concentration RSD	0.7 %	3.0 %	0.3 %	0.2 %	2.6 %	2.3 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4911 ppm	0.4762 ppm	0.4927 ppm	0.5154 ppm	0.5099 ppm	5.4264 ppm	0.5369 ppm
Concentration per Run 1	0.4919 ppm	0.4760 ppm	0.4905 ppm	0.5127 ppm	0.4961 ppm	5.2332 ppm	0.5193 ppm
Concentration per Run 2	0.4913 ppm	0.4754 ppm	0.4906 ppm	0.5130 ppm	0.5167 ppm	5.5276 ppm	0.5483 ppm
Concentration per Run 3	0.4901 ppm	0.4773 ppm	0.4971 ppm	0.5205 ppm	0.5168 ppm	5.5184 ppm	0.5431 ppm
Recovery Percentage 1	98.221 %	95.247 %	98.545 %	103.081 %	101.972 %	108.529 %	107.381 %
Concentration RSD	0.2 %	0.2 %	0.8 %	0.9 %	2.3 %	3.1 %	2.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5154 ppm	0.4905 ppm	0.5070 ppm	10.6441 ppm	0.4687 ppm	0.4802 ppm	0.4938 ppm
Concentration per Run 1	0.5148 ppm	0.4765 ppm	0.5058 ppm	10.3117 ppm	0.4686 ppm	0.4804 ppm	0.4946 ppm
Concentration per Run 2	0.5122 ppm	0.4977 ppm	0.5086 ppm	10.8734 ppm	0.4666 ppm	0.4785 ppm	0.4935 ppm
Concentration per Run 3	0.5192 ppm	0.4974 ppm	0.5066 ppm	10.7472 ppm	0.4709 ppm	0.4816 ppm	0.4932 ppm
Recovery Percentage 1	103.084 %	98.104 %	101.402 %	106.441 %	93.737 %	96.035 %	98.757 %
Concentration RSD	0.7 %	2.5 %	0.3 %	2.8 %	0.5 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5132 ppm	5.3351 ppm	0.5015 ppm	0.4974 ppm	0.5121 ppm	0.5019 ppm	0.5023 ppm
Concentration per Run 1	0.5128 ppm	5.3394 ppm	0.5010 ppm	0.4828 ppm	0.5089 ppm	0.5017 ppm	0.4989 ppm
Concentration per Run 2	0.5122 ppm	5.3229 ppm	0.5013 ppm	0.5051 ppm	0.5104 ppm	0.5019 ppm	0.5005 ppm
Concentration per Run 3	0.5146 ppm	5.3428 ppm	0.5020 ppm	0.5044 ppm	0.5171 ppm	0.5021 ppm	0.5076 ppm
Recovery Percentage 1	102.640 %	101.620 %	100.292 %	99.485 %	102.427 %	100.379 %	100.468 %
Concentration RSD	0.3 %	0.2 %	0.1 %	2.5 %	0.9 %	0.0 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4494 ppm	103.2731 %	96.8627 %	93.9832 %	98.5079 %	90.4004 %	94.0649 %
Concentration per Run 1	0.4500 ppm	105.3356 %	97.4339 %	94.2380 %	101.9361 %	90.5865 %	94.6665 %
Concentration per Run 2	0.4473 ppm	102.1765 %	97.3053 %	93.7648 %	96.8207 %	90.5846 %	94.3102 %
Concentration per Run 3	0.4510 ppm	102.3073 %	95.8488 %	93.9467 %	96.7669 %	90.0301 %	93.2180 %
Recovery Percentage 1	89.889 %						
Concentration RSD	0.4 %	1.7 %	0.9 %	0.3 %	3.0 %	0.4 %	0.8 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:29:47 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0004 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0013 ppm	0.0004 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0009 ppm	-0.0020 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	-0.0020 ppm	0.0003 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Recovery Percentage 1	-0.123 %	-0.533 %	-8.431 %	8.218 %	-0.072 %	0.537 %	-0.006 %
Concentration RSD	651.0 %	312.2 %	319.1 %	2.2 %	273.4 %	51.2 %	23,952.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0014 ppm	0.0081 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0015 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0143 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0015 ppm	0.0100 ppm	-0.0002 ppm
Recovery Percentage 1	-0.422 %	0.168 %	-0.777 %	3.559 %	2.777 %	0.322 %	-2.776 %
Concentration RSD	136.6 %	192.9 %	118.9 %	4.8 %	12.6 %	91.3 %	13.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0012 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	-0.0001 ppm	-0.0005 ppm	-0.0008 ppm
Concentration per Run 2	-0.0019 ppm	-0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 3	-0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0020 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-1.173 %	-0.751 %	0.328 %	0.023 %	-0.005 %	-2.606 %	-0.240 %
Concentration RSD	65.4 %	159.4 %	77.1 %	324.5 %	10,841.5 %	131.6 %	548.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0007 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 3	0.0008 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	5.230 %	-0.062 %	0.187 %	0.489 %	-0.500 %	-1.972 %	-1.222 %
Concentration RSD	71.4 %	36.6 %	229.2 %	67.2 %	130.5 %	48.0 %	100.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	103.5932 %	98.2288 %	95.1166 %	98.4975 %	96.6490 %	95.1597 %
Concentration per Run 1	0.0000 ppm	104.2189 %	98.4923 %	94.3958 %	100.5438 %	95.7425 %	95.3719 %
Concentration per Run 2	0.0001 ppm	103.6742 %	98.5548 %	95.9834 %	98.4542 %	97.6021 %	95.3996 %
Concentration per Run 3	0.0000 ppm	102.8866 %	97.6393 %	94.9707 %	96.4943 %	96.6025 %	94.7076 %
Recovery Percentage 1	0.531 %						
Concentration RSD	240.6 %	0.6 %	0.5 %	0.8 %	2.1 %	1.0 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976676-1 WG1976676
Analysis started at: 9/26/2024 2:40:49 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0033 ppm	-0.0039 ppm	0.0043 ppm	0.0000 ppm	0.0000 ppm	0.0082 ppm
Concentration per Run 1	0.0003 ppm	0.0037 ppm	-0.0039 ppm	0.0043 ppm	0.0000 ppm	0.0000 ppm	0.0080 ppm
Concentration per Run 2	0.0000 ppm	0.0056 ppm	-0.0037 ppm	0.0046 ppm	0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 3	0.0002 ppm	0.0005 ppm	-0.0041 ppm	0.0040 ppm	0.0000 ppm	0.0000 ppm	0.0097 ppm
Concentration RSD	82.4 %	79.6 %	5.7 %	7.2 %	345.6 %	253.6 %	17.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0006 ppm	-0.0001 ppm	0.0008 ppm	0.0015 ppm	0.0175 ppm	-0.0042 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	0.0003 ppm	0.0009 ppm	0.0015 ppm	0.0074 ppm	-0.0044 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	-0.0001 ppm	0.0007 ppm	0.0024 ppm	0.0166 ppm	-0.0047 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	-0.0004 ppm	0.0008 ppm	0.0007 ppm	0.0286 ppm	-0.0036 ppm
Concentration RSD	77.5 %	7.2 %	452.7 %	8.4 %	56.6 %	60.4 %	12.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0005 ppm	0.0000 ppm	0.0003 ppm	145.0915 ppm	-0.0007 ppm	-0.0021 ppm	-0.0001 ppm
Concentration per Run 1	0.0019 ppm	0.0000 ppm	0.0004 ppm	146.8730 ppm	-0.0005 ppm	-0.0022 ppm	0.0005 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	0.0001 ppm	148.0947 ppm	-0.0008 ppm	-0.0019 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0003 ppm	140.3067 ppm	-0.0009 ppm	-0.0022 ppm	-0.0006 ppm
Concentration RSD	222.5 %	119.4 %	52.8 %	2.9 %	25.4 %	9.1 %	448.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0333 ppm	0.0006 ppm	0.0001 ppm	-0.0002 ppm	-0.0042 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0315 ppm	0.0007 ppm	0.0001 ppm	-0.0003 ppm	-0.0044 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0356 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0043 ppm	-0.0002 ppm
Concentration per Run 3	0.0011 ppm	0.0328 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm	-0.0039 ppm	-0.0003 ppm
Concentration RSD	118.0 %	6.4 %	12.8 %	86.8 %	91.7 %	6.3 %	40.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	98.9926 %	91.3629 %	88.7204 %	94.9080 %	75.6152 %	89.3516 %
Concentration per Run 1	0.0002 ppm	99.2679 %	91.1918 %	88.8029 %	95.8900 %	75.6381 %	89.3186 %
Concentration per Run 2	0.0002 ppm	98.8346 %	91.3294 %	88.5953 %	95.1495 %	75.5914 %	89.1445 %
Concentration per Run 3	0.0002 ppm	98.8752 %	91.5673 %	88.7629 %	93.6844 %	75.6162 %	89.5916 %
Concentration RSD	12.0 %	0.2 %	0.2 %	0.1 %	1.2 %	0.0 %	0.3 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1976676-2 WG1976676
Analysis started at: 9/26/2024 2:47:20 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0496 ppm	2.0226 ppm	0.1157 ppm	0.9324 ppm	2.0151 ppm	0.0500 ppm	9.5956 ppm
Concentration per Run 1	0.0499 ppm	2.0216 ppm	0.1155 ppm	0.9327 ppm	2.0209 ppm	0.0499 ppm	9.5573 ppm
Concentration per Run 2	0.0496 ppm	2.0164 ppm	0.1141 ppm	0.9328 ppm	2.0012 ppm	0.0502 ppm	9.6020 ppm
Concentration per Run 3	0.0493 ppm	2.0299 ppm	0.1175 ppm	0.9318 ppm	2.0231 ppm	0.0499 ppm	9.6276 ppm
Concentration RSD	0.6 %	0.3 %	1.5 %	0.1 %	0.6 %	0.3 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0509 ppm	0.4989 ppm	0.1920 ppm	0.2599 ppm	0.9946 ppm	10.4545 ppm	-0.0042 ppm
Concentration per Run 1	0.0508 ppm	0.4982 ppm	0.1918 ppm	0.2591 ppm	0.9961 ppm	10.4137 ppm	-0.0045 ppm
Concentration per Run 2	0.0509 ppm	0.4987 ppm	0.1926 ppm	0.2615 ppm	0.9955 ppm	10.3767 ppm	-0.0045 ppm
Concentration per Run 3	0.0508 ppm	0.4998 ppm	0.1915 ppm	0.2592 ppm	0.9923 ppm	10.5730 ppm	-0.0036 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.5 %	0.2 %	1.0 %	12.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.0919 ppm	0.4850 ppm	0.9791 ppm	154.9021 ppm	0.4943 ppm	0.5128 ppm	0.5197 ppm
Concentration per Run 1	9.1234 ppm	0.4825 ppm	0.9785 ppm	160.5293 ppm	0.4939 ppm	0.5130 ppm	0.5201 ppm
Concentration per Run 2	9.0674 ppm	0.4856 ppm	0.9782 ppm	153.5062 ppm	0.4941 ppm	0.5129 ppm	0.5192 ppm
Concentration per Run 3	9.0849 ppm	0.4870 ppm	0.9806 ppm	150.6709 ppm	0.4950 ppm	0.5125 ppm	0.5197 ppm
Concentration RSD	0.3 %	0.5 %	0.1 %	3.3 %	0.1 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1108 ppm	0.8478 ppm	0.9112 ppm	0.9588 ppm	0.9929 ppm	0.1070 ppm	0.4964 ppm
Concentration per Run 1	0.1119 ppm	0.8498 ppm	0.9091 ppm	0.9576 ppm	0.9928 ppm	0.1072 ppm	0.4965 ppm
Concentration per Run 2	0.1082 ppm	0.8459 ppm	0.9119 ppm	0.9588 ppm	0.9943 ppm	0.1066 ppm	0.4959 ppm
Concentration per Run 3	0.1123 ppm	0.8477 ppm	0.9127 ppm	0.9601 ppm	0.9916 ppm	0.1071 ppm	0.4970 ppm
Concentration RSD	2.0 %	0.2 %	0.2 %	0.1 %	0.1 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4964 ppm	98.4386 %	90.8647 %	88.4815 %	94.1962 %	74.6568 %	88.6373 %
Concentration per Run 1	0.4951 ppm	99.1104 %	90.7082 %	88.5174 %	94.5109 %	74.6978 %	88.4518 %
Concentration per Run 2	0.4977 ppm	98.3509 %	91.0297 %	88.3093 %	94.1331 %	74.3933 %	88.7194 %
Concentration per Run 3	0.4963 ppm	97.8546 %	90.8562 %	88.6177 %	93.9447 %	74.8793 %	88.7406 %
Concentration RSD	0.3 %	0.6 %	0.2 %	0.2 %	0.3 %	0.3 %	0.2 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: L2454653-03 WG1976676
Analysis started at: 9/26/2024 2:53:40 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0124 ppm	-0.0033 ppm	0.0066 ppm	0.0052 ppm	0.0000 ppm	0.2575 ppm
Concentration per Run 1	0.0001 ppm	0.0123 ppm	-0.0035 ppm	0.0068 ppm	0.0051 ppm	0.0001 ppm	0.2559 ppm
Concentration per Run 2	0.0002 ppm	0.0119 ppm	-0.0028 ppm	0.0068 ppm	0.0052 ppm	0.0000 ppm	0.2572 ppm
Concentration per Run 3	0.0002 ppm	0.0129 ppm	-0.0035 ppm	0.0064 ppm	0.0052 ppm	0.0000 ppm	0.2593 ppm
Concentration RSD	50.8 %	4.0 %	13.5 %	3.3 %	1.2 %	118.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0006 ppm	0.0007 ppm	0.0022 ppm	0.2331 ppm	0.0349 ppm	-0.0020 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0007 ppm	0.0022 ppm	0.2272 ppm	0.0382 ppm	-0.0021 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0008 ppm	0.0023 ppm	0.2359 ppm	0.0283 ppm	-0.0020 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0007 ppm	0.0022 ppm	0.2361 ppm	0.0383 ppm	-0.0019 ppm
Concentration RSD	17.5 %	14.7 %	8.7 %	1.2 %	2.2 %	16.4 %	5.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0613 ppm	0.0036 ppm	0.0016 ppm	53.5437 ppm	0.0068 ppm	-0.0015 ppm	0.0005 ppm
Concentration per Run 1	0.0595 ppm	0.0036 ppm	0.0017 ppm	52.7067 ppm	0.0067 ppm	-0.0013 ppm	0.0005 ppm
Concentration per Run 2	0.0636 ppm	0.0037 ppm	0.0016 ppm	54.0569 ppm	0.0070 ppm	-0.0013 ppm	0.0013 ppm
Concentration per Run 3	0.0609 ppm	0.0036 ppm	0.0016 ppm	53.8676 ppm	0.0068 ppm	-0.0017 ppm	-0.0002 ppm
Concentration RSD	3.4 %	1.3 %	4.0 %	1.4 %	2.1 %	17.3 %	144.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0586 ppm	0.0003 ppm	0.0025 ppm	-0.0001 ppm	-0.0032 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0580 ppm	0.0005 ppm	0.0024 ppm	-0.0001 ppm	-0.0031 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.0588 ppm	0.0002 ppm	0.0026 ppm	-0.0001 ppm	-0.0026 ppm	0.0002 ppm
Concentration per Run 3	0.0011 ppm	0.0589 ppm	0.0001 ppm	0.0025 ppm	-0.0001 ppm	-0.0039 ppm	0.0000 ppm
Concentration RSD	116.8 %	0.8 %	78.6 %	2.6 %	32.0 %	20.1 %	280.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0830 ppm	100.2900 %	94.7765 %	91.4073 %	97.0289 %	81.4170 %	93.4085 %
Concentration per Run 1	0.0832 ppm	100.5073 %	94.9098 %	91.2437 %	99.2698 %	80.8747 %	93.8538 %
Concentration per Run 2	0.0833 ppm	100.1771 %	94.7095 %	91.4986 %	95.8141 %	81.6252 %	93.1383 %
Concentration per Run 3	0.0824 ppm	100.1856 %	94.7101 %	91.4795 %	96.0027 %	81.7511 %	93.2332 %
Concentration RSD	0.6 %	0.2 %	0.1 %	0.2 %	2.0 %	0.6 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976676-3 WG1976676
Analysis started at: 9/26/2024 3:00:02 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0483 ppm	2.0514 ppm	0.1144 ppm	0.9361 ppm	2.0548 ppm	0.0497 ppm	9.9532 ppm
Concentration per Run 1	0.0481 ppm	2.0361 ppm	0.1155 ppm	0.9361 ppm	2.0265 ppm	0.0493 ppm	9.8398 ppm
Concentration per Run 2	0.0481 ppm	2.0521 ppm	0.1133 ppm	0.9371 ppm	2.0497 ppm	0.0498 ppm	10.0016 ppm
Concentration per Run 3	0.0485 ppm	2.0659 ppm	0.1143 ppm	0.9351 ppm	2.0882 ppm	0.0500 ppm	10.0181 ppm
Concentration RSD	0.5 %	0.7 %	1.0 %	0.1 %	1.5 %	0.7 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0508 ppm	0.4903 ppm	0.1927 ppm	0.2598 ppm	1.2306 ppm	10.5683 ppm	-0.0022 ppm
Concentration per Run 1	0.0508 ppm	0.4894 ppm	0.1931 ppm	0.2587 ppm	1.2188 ppm	10.5689 ppm	-0.0021 ppm
Concentration per Run 2	0.0508 ppm	0.4897 ppm	0.1925 ppm	0.2601 ppm	1.2342 ppm	10.5557 ppm	-0.0022 ppm
Concentration per Run 3	0.0510 ppm	0.4918 ppm	0.1925 ppm	0.2606 ppm	1.2389 ppm	10.5803 ppm	-0.0023 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.4 %	0.9 %	0.1 %	4.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.3460 ppm	0.4891 ppm	0.9890 ppm	65.9776 ppm	0.4950 ppm	0.5112 ppm	0.5017 ppm
Concentration per Run 1	9.3235 ppm	0.4795 ppm	0.9878 ppm	65.5677 ppm	0.4936 ppm	0.5088 ppm	0.5008 ppm
Concentration per Run 2	9.3397 ppm	0.4923 ppm	0.9920 ppm	66.1060 ppm	0.4955 ppm	0.5121 ppm	0.5026 ppm
Concentration per Run 3	9.3748 ppm	0.4954 ppm	0.9871 ppm	66.2589 ppm	0.4959 ppm	0.5126 ppm	0.5018 ppm
Concentration RSD	0.3 %	1.7 %	0.3 %	0.6 %	0.3 %	0.4 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1097 ppm	0.8556 ppm	0.9283 ppm	0.9729 ppm	0.9937 ppm	0.1108 ppm	0.4948 ppm
Concentration per Run 1	0.1107 ppm	0.8530 ppm	0.9304 ppm	0.9633 ppm	0.9961 ppm	0.1108 ppm	0.4977 ppm
Concentration per Run 2	0.1101 ppm	0.8572 ppm	0.9278 ppm	0.9747 ppm	0.9908 ppm	0.1112 ppm	0.4932 ppm
Concentration per Run 3	0.1084 ppm	0.8567 ppm	0.9267 ppm	0.9806 ppm	0.9944 ppm	0.1103 ppm	0.4934 ppm
Concentration RSD	1.1 %	0.3 %	0.2 %	0.9 %	0.3 %	0.4 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5605 ppm	99.7875 %	93.9589 %	90.7292 %	95.1777 %	79.0420 %	91.6178 %
Concentration per Run 1	0.5592 ppm	99.9899 %	93.8795 %	90.9571 %	96.1844 %	79.4431 %	91.1904 %
Concentration per Run 2	0.5592 ppm	99.2888 %	94.0106 %	90.5835 %	94.7564 %	78.8414 %	91.8900 %
Concentration per Run 3	0.5631 ppm	100.0839 %	93.9865 %	90.6469 %	94.5922 %	78.8416 %	91.7731 %
Concentration RSD	0.4 %	0.4 %	0.1 %	0.2 %	0.9 %	0.4 %	0.4 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1976676-4 WG1976676
Analysis started at: 9/26/2024 3:06:13 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0129 ppm	-0.0022 ppm	0.0068 ppm	0.0050 ppm	0.0000 ppm	0.2663 ppm
Concentration per Run 1	0.0002 ppm	0.0123 ppm	-0.0022 ppm	0.0071 ppm	0.0049 ppm	0.0000 ppm	0.2602 ppm
Concentration per Run 2	0.0002 ppm	0.0139 ppm	-0.0020 ppm	0.0068 ppm	0.0049 ppm	0.0000 ppm	0.2689 ppm
Concentration per Run 3	0.0001 ppm	0.0126 ppm	-0.0025 ppm	0.0065 ppm	0.0051 ppm	0.0000 ppm	0.2697 ppm
Concentration RSD	19.1 %	6.3 %	13.3 %	3.8 %	1.9 %	178.2 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0006 ppm	0.0010 ppm	0.0028 ppm	0.2320 ppm	0.0355 ppm	-0.0017 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0011 ppm	0.0028 ppm	0.2264 ppm	0.0293 ppm	-0.0019 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0007 ppm	0.0029 ppm	0.2348 ppm	0.0311 ppm	-0.0013 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	0.0012 ppm	0.0026 ppm	0.2348 ppm	0.0461 ppm	-0.0018 ppm
Concentration RSD	30.7 %	29.3 %	30.1 %	5.1 %	2.1 %	26.0 %	19.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0632 ppm	0.0036 ppm	0.0014 ppm	53.5932 ppm	0.0065 ppm	-0.0017 ppm	0.0003 ppm
Concentration per Run 1	0.0621 ppm	0.0035 ppm	0.0013 ppm	52.7993 ppm	0.0067 ppm	-0.0020 ppm	0.0000 ppm
Concentration per Run 2	0.0644 ppm	0.0037 ppm	0.0015 ppm	53.8238 ppm	0.0065 ppm	-0.0012 ppm	0.0005 ppm
Concentration per Run 3	0.0630 ppm	0.0037 ppm	0.0015 ppm	54.1566 ppm	0.0064 ppm	-0.0018 ppm	0.0005 ppm
Concentration RSD	1.8 %	2.8 %	8.6 %	1.3 %	2.9 %	25.0 %	87.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0574 ppm	0.0003 ppm	0.0025 ppm	0.0001 ppm	-0.0033 ppm	-0.0001 ppm
Concentration per Run 1	0.0009 ppm	0.0563 ppm	0.0005 ppm	0.0024 ppm	0.0000 ppm	-0.0040 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	0.0596 ppm	0.0001 ppm	0.0025 ppm	0.0000 ppm	-0.0026 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	0.0562 ppm	0.0004 ppm	0.0025 ppm	0.0002 ppm	-0.0033 ppm	-0.0001 ppm
Concentration RSD	44.8 %	3.4 %	56.6 %	1.4 %	109.8 %	21.0 %	44.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0826 ppm	98.8155 %	94.2977 %	91.2895 %	95.7937 %	81.6554 %	92.8037 %
Concentration per Run 1	0.0828 ppm	99.4678 %	94.4086 %	91.5826 %	97.4359 %	81.9409 %	92.9160 %
Concentration per Run 2	0.0820 ppm	98.6880 %	94.1347 %	90.8330 %	95.1971 %	81.4434 %	92.8253 %
Concentration per Run 3	0.0831 ppm	98.2907 %	94.3497 %	91.4529 %	94.7481 %	81.5819 %	92.6699 %
Concentration RSD	0.7 %	0.6 %	0.2 %	0.4 %	1.5 %	0.3 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: zL2453698-01d10 WG1973911
Analysis started at: 9/26/2024 3:12:35 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0026 ppm	-0.0007 ppm	0.0994 ppm	0.0314 ppm	0.0000 ppm	14.1666 ppm
Concentration per Run 1	0.0005 ppm	-0.0004 ppm	-0.0014 ppm	0.0992 ppm	0.0307 ppm	0.0000 ppm	13.8427 ppm
Concentration per Run 2	0.0002 ppm	-0.0055 ppm	-0.0002 ppm	0.0996 ppm	0.0314 ppm	0.0000 ppm	14.3196 ppm
Concentration per Run 3	0.0006 ppm	-0.0019 ppm	-0.0006 ppm	0.0994 ppm	0.0322 ppm	0.0000 ppm	14.3375 ppm
Concentration RSD	54.2 %	102.2 %	81.6 %	0.2 %	2.4 %	1,778.9 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0095 ppm	0.0001 ppm	0.0014 ppm	1.0041 ppm	14.5444 ppm	-0.0089 ppm
Concentration per Run 1	-0.0001 ppm	0.0096 ppm	-0.0001 ppm	0.0015 ppm	0.9777 ppm	14.3023 ppm	-0.0087 ppm
Concentration per Run 2	-0.0001 ppm	0.0096 ppm	0.0002 ppm	0.0013 ppm	1.0158 ppm	14.4303 ppm	-0.0094 ppm
Concentration per Run 3	-0.0001 ppm	0.0095 ppm	0.0003 ppm	0.0014 ppm	1.0188 ppm	14.9006 ppm	-0.0086 ppm
Concentration RSD	38.0 %	0.7 %	141.6 %	7.9 %	2.3 %	2.2 %	4.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	32.2229 ppm	0.8716 ppm	0.0025 ppm	358.2698 ppm	0.0013 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	32.2588 ppm	0.8542 ppm	0.0026 ppm	340.6495 ppm	0.0013 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 2	32.2896 ppm	0.8785 ppm	0.0027 ppm	374.7961 ppm	0.0014 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	32.1203 ppm	0.8822 ppm	0.0023 ppm	359.3637 ppm	0.0014 ppm	-0.0002 ppm	-0.0003 ppm
Concentration RSD	0.3 %	1.7 %	7.5 %	4.8 %	4.8 %	102.6 %	611.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.1398 ppm	-0.0003 ppm	0.2565 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.1400 ppm	-0.0003 ppm	0.2499 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 2	0.0004 ppm	0.1397 ppm	-0.0006 ppm	0.2578 ppm	0.0003 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0004 ppm	0.1397 ppm	0.0001 ppm	0.2616 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm
Concentration RSD	1,184.7 %	0.2 %	150.3 %	2.3 %	86.6 %	535.4 %	18.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0439 ppm	97.3825 %	87.3902 %	87.0262 %	94.0472 %	71.2772 %	85.1944 %
Concentration per Run 1	0.0442 ppm	97.7798 %	87.1317 %	87.2793 %	96.6349 %	71.3574 %	85.0483 %
Concentration per Run 2	0.0437 ppm	96.7565 %	87.5320 %	86.8879 %	92.9244 %	71.2789 %	85.1586 %
Concentration per Run 3	0.0437 ppm	97.6113 %	87.5070 %	86.9115 %	92.5824 %	71.1952 %	85.3762 %
Concentration RSD	0.6 %	0.6 %	0.3 %	0.3 %	2.4 %	0.1 %	0.2 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: L2453698-02d10 WG1973911
Analysis started at: 9/26/2024 3:19:04 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0480 ppm	-0.0013 ppm	0.1104 ppm	0.0118 ppm	0.0000 ppm	13.9802 ppm
Concentration per Run 1	0.0002 ppm	0.0428 ppm	-0.0013 ppm	0.1106 ppm	0.0115 ppm	0.0001 ppm	13.6873 ppm
Concentration per Run 2	0.0004 ppm	0.0505 ppm	-0.0001 ppm	0.1092 ppm	0.0120 ppm	0.0000 ppm	14.1318 ppm
Concentration per Run 3	-0.0002 ppm	0.0508 ppm	-0.0025 ppm	0.1114 ppm	0.0120 ppm	0.0000 ppm	14.1214 ppm
Concentration RSD	197.5 %	9.5 %	89.9 %	1.0 %	2.2 %	428.3 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0011 ppm	0.3605 ppm	12.2208 ppm	-0.0071 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0011 ppm	0.3521 ppm	12.0300 ppm	-0.0075 ppm
Concentration per Run 2	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0010 ppm	0.3644 ppm	12.3417 ppm	-0.0069 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0012 ppm	0.3649 ppm	12.2905 ppm	-0.0069 ppm
Concentration RSD	5.3 %	23.0 %	117.5 %	6.7 %	2.0 %	1.4 %	4.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	29.3432 ppm	0.1058 ppm	0.0038 ppm	286.7653 ppm	-0.0004 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 1	29.3249 ppm	0.1033 ppm	0.0039 ppm	274.6360 ppm	-0.0004 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 2	29.2679 ppm	0.1076 ppm	0.0037 ppm	286.8624 ppm	-0.0004 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 3	29.4368 ppm	0.1067 ppm	0.0039 ppm	298.7974 ppm	-0.0004 ppm	0.0000 ppm	-0.0004 ppm
Concentration RSD	0.3 %	2.1 %	2.1 %	4.2 %	5.5 %	100.4 %	324.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.1474 ppm	-0.0001 ppm	0.2170 ppm	0.0028 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	0.1471 ppm	-0.0007 ppm	0.2129 ppm	0.0029 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.1470 ppm	0.0001 ppm	0.2182 ppm	0.0029 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	-0.0022 ppm	0.1481 ppm	0.0003 ppm	0.2198 ppm	0.0027 ppm	-0.0008 ppm	-0.0001 ppm
Concentration RSD	297.8 %	0.4 %	488.2 %	1.7 %	3.5 %	27.8 %	44.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0137 ppm	97.5546 %	87.7213 %	86.8098 %	93.8544 %	72.2874 %	85.7800 %
Concentration per Run 1	0.0136 ppm	98.7028 %	87.6047 %	86.8767 %	96.4568 %	72.4491 %	85.7752 %
Concentration per Run 2	0.0138 ppm	96.7734 %	87.8179 %	87.2735 %	92.7491 %	72.5816 %	85.8596 %
Concentration per Run 3	0.0137 ppm	97.1876 %	87.7412 %	86.2791 %	92.3574 %	71.8314 %	85.7053 %
Concentration RSD	0.8 %	1.0 %	0.1 %	0.6 %	2.4 %	0.6 %	0.1 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:25:31 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5111 ppm	0.5219 ppm	0.5068 ppm	0.5219 ppm	0.5193 ppm	0.5083 ppm	0.4962 ppm
Concentration per Run 1	0.5108 ppm	0.5089 ppm	0.5077 ppm	0.5211 ppm	0.5031 ppm	0.4947 ppm	0.4818 ppm
Concentration per Run 2	0.5126 ppm	0.5272 ppm	0.5085 ppm	0.5233 ppm	0.5275 ppm	0.5118 ppm	0.5011 ppm
Concentration per Run 3	0.5097 ppm	0.5296 ppm	0.5043 ppm	0.5212 ppm	0.5272 ppm	0.5186 ppm	0.5058 ppm
Recovery Percentage 1	102.215 %	104.379 %	101.368 %	104.371 %	103.852 %	101.669 %	99.242 %
Concentration RSD	0.3 %	2.2 %	0.4 %	0.2 %	2.7 %	2.4 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4907 ppm	0.4796 ppm	0.4945 ppm	0.5094 ppm	0.5052 ppm	5.3794 ppm	0.5283 ppm
Concentration per Run 1	0.4902 ppm	0.4814 ppm	0.4952 ppm	0.5095 ppm	0.4930 ppm	5.1699 ppm	0.5080 ppm
Concentration per Run 2	0.4916 ppm	0.4792 ppm	0.4950 ppm	0.5107 ppm	0.5103 ppm	5.5389 ppm	0.5484 ppm
Concentration per Run 3	0.4905 ppm	0.4782 ppm	0.4932 ppm	0.5080 ppm	0.5121 ppm	5.4295 ppm	0.5286 ppm
Recovery Percentage 1	98.150 %	95.925 %	98.890 %	101.882 %	101.034 %	107.589 %	105.667 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.3 %	2.1 %	3.5 %	3.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5084 ppm	0.4888 ppm	0.5071 ppm	10.4183 ppm	0.4750 ppm	0.4841 ppm	0.4935 ppm
Concentration per Run 1	0.5024 ppm	0.4761 ppm	0.5078 ppm	10.0257 ppm	0.4763 ppm	0.4862 ppm	0.4942 ppm
Concentration per Run 2	0.5129 ppm	0.4926 ppm	0.5068 ppm	10.7661 ppm	0.4751 ppm	0.4842 ppm	0.4951 ppm
Concentration per Run 3	0.5098 ppm	0.4977 ppm	0.5066 ppm	10.4631 ppm	0.4735 ppm	0.4820 ppm	0.4912 ppm
Recovery Percentage 1	101.676 %	97.755 %	101.415 %	104.183 %	94.998 %	96.826 %	98.698 %
Concentration RSD	1.1 %	2.3 %	0.1 %	3.6 %	0.3 %	0.4 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5150 ppm	5.3793 ppm	0.5004 ppm	0.4942 ppm	0.5112 ppm	0.5048 ppm	0.5013 ppm
Concentration per Run 1	0.5139 ppm	5.4053 ppm	0.4995 ppm	0.4791 ppm	0.5099 ppm	0.5084 ppm	0.5001 ppm
Concentration per Run 2	0.5146 ppm	5.3729 ppm	0.5005 ppm	0.5018 ppm	0.5128 ppm	0.5034 ppm	0.5032 ppm
Concentration per Run 3	0.5164 ppm	5.3596 ppm	0.5011 ppm	0.5018 ppm	0.5108 ppm	0.5026 ppm	0.5006 ppm
Recovery Percentage 1	102.991 %	102.462 %	100.077 %	98.846 %	102.234 %	100.963 %	100.260 %
Concentration RSD	0.3 %	0.4 %	0.2 %	2.6 %	0.3 %	0.6 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4530 ppm	101.4569 %	97.2274 %	93.9447 %	97.6757 %	89.7290 %	94.5528 %
Concentration per Run 1	0.4540 ppm	102.5065 %	97.4626 %	93.9597 %	100.0542 %	89.3439 %	94.7732 %
Concentration per Run 2	0.4533 ppm	101.7634 %	97.4940 %	93.8618 %	97.2019 %	89.7468 %	94.5154 %
Concentration per Run 3	0.4515 ppm	100.1008 %	96.7255 %	94.0125 %	95.7710 %	90.0963 %	94.3697 %
Recovery Percentage 1	90.590 %						
Concentration RSD	0.3 %	1.2 %	0.4 %	0.1 %	2.2 %	0.4 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 3:31:34 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0014 ppm	-0.0008 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0015 ppm	-0.0006 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 2	0.0001 ppm	-0.0011 ppm	-0.0006 ppm	0.0018 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	-0.0046 ppm	-0.0014 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	2.525 %	-1.431 %	-16.965 %	5.759 %	-0.217 %	0.130 %	0.021 %
Concentration RSD	48.1 %	214.7 %	54.5 %	7.5 %	169.6 %	269.3 %	5,713.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0182 ppm	-0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0017 ppm	0.0028 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0345 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0172 ppm	-0.0004 ppm
Recovery Percentage 1	0.375 %	-0.337 %	-0.380 %	2.760 %	2.467 %	0.726 %	-6.868 %
Concentration RSD	324.1 %	65.0 %	239.0 %	10.9 %	36.1 %	87.3 %	37.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0170 ppm	-0.0001 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0164 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0162 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0184 ppm	0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Recovery Percentage 1	-0.117 %	-0.101 %	0.216 %	0.849 %	-0.323 %	-6.384 %	-0.487 %
Concentration RSD	277.5 %	707.8 %	90.4 %	7.1 %	282.0 %	55.7 %	89.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0020 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0007 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0010 ppm	-0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Recovery Percentage 1	12.508 %	-0.088 %	-0.292 %	0.569 %	0.149 %	-0.324 %	-0.941 %
Concentration RSD	53.9 %	177.4 %	166.1 %	21.6 %	1,583.0 %	615.7 %	75.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	102.2779 %	97.9143 %	94.8312 %	98.5706 %	95.7877 %	95.2045 %
Concentration per Run 1	0.0000 ppm	103.8058 %	97.9345 %	94.2161 %	102.1333 %	94.9768 %	95.2158 %
Concentration per Run 2	0.0000 ppm	101.8936 %	97.9539 %	94.9889 %	97.7813 %	96.0237 %	95.4514 %
Concentration per Run 3	-0.0001 ppm	101.1344 %	97.8545 %	95.2885 %	95.7973 %	96.3625 %	94.9463 %
Recovery Percentage 1	0.142 %						
Concentration RSD	698.0 %	1.3 %	0.1 %	0.6 %	3.3 %	0.8 %	0.3 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-1 WG1975964
Analysis started at: 9/26/2024 3:41:25 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0007 ppm	-0.0009 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	-0.0011 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 2	0.0001 ppm	-0.0027 ppm	-0.0009 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 3	0.0003 ppm	-0.0003 ppm	-0.0008 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Concentration RSD	159.4 %	259.7 %	17.1 %	12.3 %	439.8 %	227.5 %	9.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0005 ppm	0.0001 ppm	-0.0033 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0026 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	-0.0001 ppm	-0.0121 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm
Concentration RSD	150.7 %	17.7 %	23.3 %	24.6 %	275.6 %	234.1 %	44.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0172 ppm	-0.0001 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 1	-0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0151 ppm	0.0000 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 2	0.0019 ppm	0.0000 ppm	-0.0001 ppm	0.0182 ppm	0.0000 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	-0.0001 ppm	0.0185 ppm	-0.0002 ppm	0.0000 ppm	-0.0010 ppm
Concentration RSD	371.1 %	258.4 %	136.0 %	10.8 %	93.4 %	103.1 %	50.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.0039 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0004 ppm	0.0039 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.0039 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	-0.0016 ppm	0.0038 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm
Concentration RSD	499.5 %	2.2 %	62.2 %	44.5 %	163.0 %	100.7 %	64.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	102.7250 %	99.8340 %	95.3133 %	99.5311 %	97.7107 %	97.9945 %
Concentration per Run 1	0.0003 ppm	101.5591 %	99.5959 %	95.4151 %	99.0544 %	97.5760 %	97.4605 %
Concentration per Run 2	0.0003 ppm	103.5178 %	99.7963 %	95.5895 %	100.3495 %	98.0794 %	97.6885 %
Concentration per Run 3	0.0002 ppm	103.0982 %	100.1097 %	94.9353 %	99.1894 %	97.4767 %	98.8346 %
Concentration RSD	16.7 %	1.0 %	0.3 %	0.4 %	0.7 %	0.3 %	0.8 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-2 WG1975964
Analysis started at: 9/26/2024 3:47:50 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0536 ppm	2.1329 ppm	0.1252 ppm	1.0287 ppm	2.0826 ppm	0.0501 ppm	9.7911 ppm
Concentration per Run 1	0.0542 ppm	2.1017 ppm	0.1257 ppm	1.0295 ppm	2.0166 ppm	0.0491 ppm	9.6021 ppm
Concentration per Run 2	0.0530 ppm	2.1505 ppm	0.1259 ppm	1.0275 ppm	2.1280 ppm	0.0506 ppm	9.8765 ppm
Concentration per Run 3	0.0536 ppm	2.1465 ppm	0.1239 ppm	1.0292 ppm	2.1031 ppm	0.0505 ppm	9.8948 ppm
Concentration RSD	1.1 %	1.3 %	0.9 %	0.1 %	2.8 %	1.7 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0531 ppm	0.4768 ppm	0.1974 ppm	0.2683 ppm	1.0122 ppm	11.4663 ppm	-0.0010 ppm
Concentration per Run 1	0.0530 ppm	0.4756 ppm	0.1986 ppm	0.2684 ppm	0.9912 ppm	11.3777 ppm	-0.0013 ppm
Concentration per Run 2	0.0532 ppm	0.4798 ppm	0.1987 ppm	0.2652 ppm	1.0211 ppm	11.5130 ppm	-0.0009 ppm
Concentration per Run 3	0.0531 ppm	0.4751 ppm	0.1949 ppm	0.2714 ppm	1.0242 ppm	11.5083 ppm	-0.0008 ppm
Concentration RSD	0.2 %	0.5 %	1.1 %	1.2 %	1.8 %	0.7 %	25.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.2837 ppm	0.4961 ppm	1.0146 ppm	11.4409 ppm	0.4763 ppm	0.5223 ppm	0.5082 ppm
Concentration per Run 1	10.2827 ppm	0.4848 ppm	1.0138 ppm	11.3693 ppm	0.4745 ppm	0.5222 ppm	0.5064 ppm
Concentration per Run 2	10.3021 ppm	0.5006 ppm	1.0149 ppm	11.5420 ppm	0.4788 ppm	0.5238 ppm	0.5094 ppm
Concentration per Run 3	10.2664 ppm	0.5029 ppm	1.0149 ppm	11.4113 ppm	0.4756 ppm	0.5211 ppm	0.5087 ppm
Concentration RSD	0.2 %	2.0 %	0.1 %	0.8 %	0.5 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1253 ppm	0.8303 ppm	1.0011 ppm	0.9916 ppm	1.0139 ppm	0.1205 ppm	0.5050 ppm
Concentration per Run 1	0.1238 ppm	0.8288 ppm	1.0011 ppm	0.9734 ppm	1.0140 ppm	0.1200 ppm	0.5044 ppm
Concentration per Run 2	0.1259 ppm	0.8342 ppm	1.0025 ppm	0.9994 ppm	1.0151 ppm	0.1209 ppm	0.5077 ppm
Concentration per Run 3	0.1261 ppm	0.8280 ppm	0.9997 ppm	1.0020 ppm	1.0126 ppm	0.1206 ppm	0.5030 ppm
Concentration RSD	1.0 %	0.4 %	0.1 %	1.6 %	0.1 %	0.4 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4533 ppm	102.8582 %	96.4080 %	92.4379 %	100.4272 %	88.1658 %	94.7363 %
Concentration per Run 1	0.4515 ppm	103.6088 %	96.4239 %	92.5863 %	102.9409 %	88.5078 %	94.9060 %
Concentration per Run 2	0.4558 ppm	102.4874 %	96.2609 %	92.3924 %	99.4569 %	87.8108 %	94.6295 %
Concentration per Run 3	0.4526 ppm	102.4785 %	96.5391 %	92.3351 %	98.8838 %	88.1789 %	94.6734 %
Concentration RSD	0.5 %	0.6 %	0.1 %	0.1 %	2.2 %	0.4 %	0.2 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: L2454059-01 WG1975964
Analysis started at: 9/26/2024 3:54:03 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0167 ppm	-0.0002 ppm	0.0250 ppm	0.1127 ppm	0.0000 ppm	16.0179 ppm
Concentration per Run 1	0.0001 ppm	0.0178 ppm	-0.0002 ppm	0.0247 ppm	0.1117 ppm	0.0000 ppm	15.9792 ppm
Concentration per Run 2	0.0001 ppm	0.0146 ppm	-0.0003 ppm	0.0252 ppm	0.1127 ppm	0.0000 ppm	16.0439 ppm
Concentration per Run 3	0.0000 ppm	0.0175 ppm	0.0000 ppm	0.0251 ppm	0.1139 ppm	0.0000 ppm	16.0305 ppm
Concentration RSD	85.3 %	10.5 %	66.9 %	1.0 %	1.0 %	23.4 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0031 ppm	0.0191 ppm	3.1238 ppm	-0.0029 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0031 ppm	0.0191 ppm	3.1081 ppm	-0.0033 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0031 ppm	0.0188 ppm	3.0200 ppm	-0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0032 ppm	0.0194 ppm	3.2433 ppm	-0.0026 ppm
Concentration RSD	52.5 %	83.9 %	181.1 %	2.3 %	1.6 %	3.6 %	13.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.6521 ppm	0.0398 ppm	0.0005 ppm	84.5803 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 1	4.6141 ppm	0.0395 ppm	0.0006 ppm	84.4231 ppm	0.0001 ppm	-0.0020 ppm	0.0004 ppm
Concentration per Run 2	4.7063 ppm	0.0399 ppm	0.0005 ppm	82.6380 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	4.6359 ppm	0.0400 ppm	0.0005 ppm	86.6797 ppm	-0.0003 ppm	-0.0015 ppm	-0.0007 ppm
Concentration RSD	1.0 %	0.6 %	10.6 %	2.4 %	244.5 %	61.8 %	2,332.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	3.4758 ppm	-0.0004 ppm	0.0911 ppm	0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	3.4816 ppm	-0.0003 ppm	0.0903 ppm	0.0002 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	3.4642 ppm	-0.0004 ppm	0.0910 ppm	0.0003 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 3	0.0006 ppm	3.4816 ppm	-0.0006 ppm	0.0920 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration RSD	59.1 %	0.3 %	38.8 %	0.9 %	36.4 %	22.4 %	242.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0030 ppm	100.8359 %	93.3756 %	90.5766 %	98.1721 %	83.3684 %	91.6000 %
Concentration per Run 1	0.0029 ppm	100.8449 %	93.7797 %	90.7044 %	99.2565 %	83.2875 %	91.7892 %
Concentration per Run 2	0.0031 ppm	100.6108 %	92.4688 %	90.6839 %	97.8453 %	83.5874 %	90.6936 %
Concentration per Run 3	0.0030 ppm	101.0520 %	93.8783 %	90.3416 %	97.4146 %	83.2303 %	92.3172 %
Concentration RSD	3.5 %	0.2 %	0.8 %	0.2 %	1.0 %	0.2 %	0.9 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-3 WG1975964
Analysis started at: 9/26/2024 4:00:33 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0556 ppm	2.1797 ppm	0.1298 ppm	1.0831 ppm	2.2621 ppm	0.0515 ppm	25.5324 ppm
Concentration per Run 1	0.0554 ppm	2.1344 ppm	0.1292 ppm	1.0851 ppm	2.2055 ppm	0.0507 ppm	25.2675 ppm
Concentration per Run 2	0.0562 ppm	2.1822 ppm	0.1290 ppm	1.0832 ppm	2.2891 ppm	0.0518 ppm	25.7132 ppm
Concentration per Run 3	0.0551 ppm	2.2226 ppm	0.1312 ppm	1.0811 ppm	2.2917 ppm	0.0520 ppm	25.6165 ppm
Concentration RSD	1.0 %	2.0 %	0.9 %	0.2 %	2.2 %	1.3 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0534 ppm	0.4987 ppm	0.1996 ppm	0.2794 ppm	1.0378 ppm	14.8594 ppm	-0.0031 ppm
Concentration per Run 1	0.0534 ppm	0.4989 ppm	0.1993 ppm	0.2786 ppm	1.0212 ppm	14.5461 ppm	-0.0032 ppm
Concentration per Run 2	0.0534 ppm	0.4981 ppm	0.2028 ppm	0.2806 ppm	1.0439 ppm	14.6631 ppm	-0.0030 ppm
Concentration per Run 3	0.0535 ppm	0.4992 ppm	0.1967 ppm	0.2789 ppm	1.0483 ppm	15.3691 ppm	-0.0032 ppm
Concentration RSD	0.2 %	0.1 %	1.5 %	0.4 %	1.4 %	3.0 %	4.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.8384 ppm	0.5383 ppm	1.0168 ppm	93.6901 ppm	0.4960 ppm	0.5343 ppm	0.5436 ppm
Concentration per Run 1	14.8251 ppm	0.5308 ppm	1.0160 ppm	92.4916 ppm	0.4962 ppm	0.5336 ppm	0.5437 ppm
Concentration per Run 2	15.0019 ppm	0.5410 ppm	1.0192 ppm	90.8828 ppm	0.4970 ppm	0.5357 ppm	0.5435 ppm
Concentration per Run 3	14.6882 ppm	0.5430 ppm	1.0152 ppm	97.6960 ppm	0.4949 ppm	0.5335 ppm	0.5435 ppm
Concentration RSD	1.1 %	1.2 %	0.2 %	3.8 %	0.2 %	0.2 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1311 ppm	4.4114 ppm	0.9871 ppm	1.0968 ppm	1.0359 ppm	0.1197 ppm	0.5167 ppm
Concentration per Run 1	0.1313 ppm	4.4122 ppm	0.9874 ppm	1.0765 ppm	1.0330 ppm	0.1197 ppm	0.5160 ppm
Concentration per Run 2	0.1309 ppm	4.4231 ppm	0.9887 ppm	1.1007 ppm	1.0478 ppm	0.1197 ppm	0.5225 ppm
Concentration per Run 3	0.1311 ppm	4.3987 ppm	0.9852 ppm	1.1132 ppm	1.0270 ppm	0.1198 ppm	0.5117 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	1.7 %	1.0 %	0.1 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4872 ppm	101.5528 %	92.3251 %	89.4918 %	98.6395 %	80.7761 %	90.3358 %
Concentration per Run 1	0.4861 ppm	101.7971 %	92.3961 %	89.5803 %	100.3190 %	81.0159 %	90.3568 %
Concentration per Run 2	0.4862 ppm	101.0845 %	91.5495 %	89.4403 %	97.9296 %	80.6402 %	89.6288 %
Concentration per Run 3	0.4891 ppm	101.7769 %	93.0297 %	89.4548 %	97.6699 %	80.6722 %	91.0219 %
Concentration RSD	0.4 %	0.4 %	0.8 %	0.1 %	1.5 %	0.3 %	0.8 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-4 WG1975964
Analysis started at: 9/26/2024 4:06:54 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0170 ppm	-0.0011 ppm	0.0254 ppm	0.1113 ppm	0.0000 ppm	15.6836 ppm
Concentration per Run 1	0.0003 ppm	0.0178 ppm	-0.0010 ppm	0.0256 ppm	0.1097 ppm	0.0000 ppm	15.6209 ppm
Concentration per Run 2	0.0003 ppm	0.0155 ppm	-0.0013 ppm	0.0254 ppm	0.1104 ppm	0.0000 ppm	15.5740 ppm
Concentration per Run 3	0.0003 ppm	0.0177 ppm	-0.0011 ppm	0.0253 ppm	0.1137 ppm	0.0001 ppm	15.8559 ppm
Concentration RSD	15.2 %	7.8 %	12.2 %	0.6 %	1.9 %	88.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0032 ppm	0.0175 ppm	3.1314 ppm	-0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0032 ppm	0.0179 ppm	3.0678 ppm	-0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0033 ppm	0.0171 ppm	3.1072 ppm	-0.0030 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0030 ppm	0.0176 ppm	3.2191 ppm	-0.0029 ppm
Concentration RSD	36.8 %	78.1 %	35.0 %	4.8 %	2.4 %	2.5 %	8.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.5938 ppm	0.0391 ppm	0.0006 ppm	79.7434 ppm	0.0003 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 1	4.6080 ppm	0.0392 ppm	0.0006 ppm	81.2548 ppm	0.0004 ppm	-0.0017 ppm	-0.0003 ppm
Concentration per Run 2	4.5878 ppm	0.0387 ppm	0.0007 ppm	79.1718 ppm	0.0005 ppm	-0.0014 ppm	0.0006 ppm
Concentration per Run 3	4.5857 ppm	0.0396 ppm	0.0006 ppm	78.8036 ppm	-0.0001 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	0.3 %	1.2 %	6.8 %	1.7 %	126.4 %	18.2 %	8,414.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	3.4823 ppm	-0.0001 ppm	0.0900 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	3.4905 ppm	-0.0004 ppm	0.0889 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 2	0.0017 ppm	3.4909 ppm	0.0004 ppm	0.0891 ppm	0.0002 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	3.4656 ppm	-0.0003 ppm	0.0919 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration RSD	53.4 %	0.4 %	469.4 %	1.8 %	57.6 %	161.0 %	109.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0030 ppm	101.8966 %	93.5494 %	89.9230 %	100.0448 %	82.8707 %	91.4330 %
Concentration per Run 1	0.0031 ppm	101.2551 %	93.8007 %	90.1232 %	100.9287 %	82.8640 %	91.7901 %
Concentration per Run 2	0.0030 ppm	102.7628 %	93.6031 %	90.0219 %	100.5360 %	82.8591 %	91.3698 %
Concentration per Run 3	0.0028 ppm	101.6721 %	93.2444 %	89.6238 %	98.6699 %	82.8888 %	91.1390 %
Concentration RSD	3.8 %	0.8 %	0.3 %	0.3 %	1.2 %	0.0 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-5 WG1975964
Analysis started at: 9/26/2024 4:13:24 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0523 ppm	2.0784 ppm	0.1263 ppm	1.0528 ppm	2.1232 ppm	0.0491 ppm	24.7313 ppm
Concentration per Run 1	0.0523 ppm	2.0593 ppm	0.1269 ppm	1.0565 ppm	2.1269 ppm	0.0485 ppm	24.5564 ppm
Concentration per Run 2	0.0523 ppm	2.0754 ppm	0.1258 ppm	1.0515 ppm	2.1418 ppm	0.0491 ppm	24.7814 ppm
Concentration per Run 3	0.0525 ppm	2.1004 ppm	0.1263 ppm	1.0504 ppm	2.1009 ppm	0.0496 ppm	24.8562 ppm
Concentration RSD	0.2 %	1.0 %	0.4 %	0.3 %	1.0 %	1.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0508 ppm	0.4793 ppm	0.1904 ppm	0.2658 ppm	0.9888 ppm	14.3772 ppm	-0.0036 ppm
Concentration per Run 1	0.0509 ppm	0.4804 ppm	0.1904 ppm	0.2666 ppm	0.9767 ppm	14.2331 ppm	-0.0038 ppm
Concentration per Run 2	0.0508 ppm	0.4791 ppm	0.1907 ppm	0.2639 ppm	0.9905 ppm	14.3990 ppm	-0.0033 ppm
Concentration per Run 3	0.0508 ppm	0.4784 ppm	0.1901 ppm	0.2668 ppm	0.9992 ppm	14.4993 ppm	-0.0038 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.6 %	1.2 %	0.9 %	8.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.2953 ppm	0.5159 ppm	0.9942 ppm	92.6644 ppm	0.4768 ppm	0.5150 ppm	0.5158 ppm
Concentration per Run 1	14.2842 ppm	0.5126 ppm	0.9977 ppm	93.4746 ppm	0.4785 ppm	0.5171 ppm	0.5193 ppm
Concentration per Run 2	14.2999 ppm	0.5188 ppm	0.9928 ppm	93.2363 ppm	0.4763 ppm	0.5145 ppm	0.5142 ppm
Concentration per Run 3	14.3017 ppm	0.5163 ppm	0.9921 ppm	91.2823 ppm	0.4757 ppm	0.5135 ppm	0.5139 ppm
Concentration RSD	0.1 %	0.6 %	0.3 %	1.3 %	0.3 %	0.4 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1276 ppm	4.0295 ppm	0.9754 ppm	1.0670 ppm	1.0011 ppm	0.1165 ppm	0.4924 ppm
Concentration per Run 1	0.1286 ppm	4.0464 ppm	0.9775 ppm	1.0545 ppm	0.9977 ppm	0.1175 ppm	0.4902 ppm
Concentration per Run 2	0.1276 ppm	4.0223 ppm	0.9759 ppm	1.0684 ppm	0.9996 ppm	0.1153 ppm	0.4923 ppm
Concentration per Run 3	0.1266 ppm	4.0199 ppm	0.9728 ppm	1.0783 ppm	1.0059 ppm	0.1167 ppm	0.4947 ppm
Concentration RSD	0.8 %	0.4 %	0.2 %	1.1 %	0.4 %	0.9 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4693 ppm	101.4900 %	92.7589 %	89.2501 %	98.7057 %	80.5383 %	90.6354 %
Concentration per Run 1	0.4699 ppm	101.6392 %	92.8979 %	89.0996 %	99.7802 %	80.4409 %	90.8723 %
Concentration per Run 2	0.4688 ppm	101.2058 %	92.9204 %	89.2358 %	98.4930 %	80.5510 %	90.9663 %
Concentration per Run 3	0.4691 ppm	101.6250 %	92.4584 %	89.4149 %	97.8439 %	80.6229 %	90.0676 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %	1.0 %	0.1 %	0.5 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-6d5 WG1975964
Analysis started at: 9/26/2024 4:19:42 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0030 ppm	-0.0004 ppm	0.0076 ppm	0.0230 ppm	0.0000 ppm	3.2410 ppm
Concentration per Run 1	0.0002 ppm	0.0051 ppm	-0.0003 ppm	0.0080 ppm	0.0221 ppm	0.0000 ppm	3.1263 ppm
Concentration per Run 2	0.0001 ppm	0.0029 ppm	0.0002 ppm	0.0075 ppm	0.0235 ppm	0.0000 ppm	3.3011 ppm
Concentration per Run 3	0.0003 ppm	0.0012 ppm	-0.0010 ppm	0.0074 ppm	0.0234 ppm	0.0000 ppm	3.2956 ppm
Concentration RSD	49.1 %	63.6 %	166.0 %	4.0 %	3.5 %	842.0 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0048 ppm	0.6432 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm	0.0051 ppm	0.6488 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0050 ppm	0.6376 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0045 ppm	0.6433 ppm	-0.0010 ppm
Concentration RSD	4,429.8 %	33.2 %	77.0 %	13.1 %	6.2 %	0.9 %	19.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.9717 ppm	0.0081 ppm	0.0007 ppm	16.7370 ppm	0.0000 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 1	0.9704 ppm	0.0078 ppm	0.0008 ppm	16.2781 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 2	0.9740 ppm	0.0083 ppm	0.0006 ppm	17.0069 ppm	0.0001 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 3	0.9706 ppm	0.0082 ppm	0.0006 ppm	16.9260 ppm	0.0001 ppm	-0.0007 ppm	0.0013 ppm
Concentration RSD	0.2 %	3.0 %	17.7 %	2.4 %	141.5 %	41.2 %	55.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.6605 ppm	0.0007 ppm	0.0187 ppm	0.0000 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.6611 ppm	0.0007 ppm	0.0181 ppm	0.0002 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 2	0.0008 ppm	0.6634 ppm	0.0007 ppm	0.0191 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 3	-0.0004 ppm	0.6571 ppm	0.0008 ppm	0.0190 ppm	0.0000 ppm	-0.0006 ppm	-0.0001 ppm
Concentration RSD	251.5 %	0.5 %	8.0 %	3.1 %	702.3 %	14.9 %	60.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	102.1258 %	97.0280 %	93.1542 %	99.7787 %	92.1600 %	95.2050 %
Concentration per Run 1	0.0008 ppm	104.4142 %	96.8875 %	93.1733 %	104.4528 %	92.0868 %	94.9895 %
Concentration per Run 2	0.0007 ppm	100.4023 %	97.1426 %	92.5965 %	97.8908 %	91.4857 %	95.5792 %
Concentration per Run 3	0.0008 ppm	101.5610 %	97.0540 %	93.6927 %	96.9927 %	92.9076 %	95.0462 %
Concentration RSD	6.9 %	2.0 %	0.1 %	0.6 %	4.1 %	0.8 %	0.3 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 4:26:01 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5105 ppm	0.5136 ppm	0.5053 ppm	0.5247 ppm	0.5152 ppm	0.4959 ppm	0.4857 ppm
Concentration per Run 1	0.5116 ppm	0.4986 ppm	0.5042 ppm	0.5240 ppm	0.4985 ppm	0.4800 ppm	0.4698 ppm
Concentration per Run 2	0.5096 ppm	0.5209 ppm	0.5061 ppm	0.5254 ppm	0.5217 ppm	0.5047 ppm	0.4974 ppm
Concentration per Run 3	0.5105 ppm	0.5212 ppm	0.5057 ppm	0.5246 ppm	0.5254 ppm	0.5031 ppm	0.4897 ppm
Recovery Percentage 1	102.109 %	102.714 %	101.069 %	104.934 %	103.036 %	99.182 %	97.132 %
Concentration RSD	0.2 %	2.5 %	0.2 %	0.1 %	2.8 %	2.8 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4890 ppm	0.4739 ppm	0.4834 ppm	0.5077 ppm	0.4904 ppm	5.4554 ppm	0.5388 ppm
Concentration per Run 1	0.4886 ppm	0.4731 ppm	0.4804 ppm	0.5093 ppm	0.4743 ppm	5.2545 ppm	0.5189 ppm
Concentration per Run 2	0.4898 ppm	0.4752 ppm	0.4842 ppm	0.5082 ppm	0.5009 ppm	5.4762 ppm	0.5412 ppm
Concentration per Run 3	0.4887 ppm	0.4734 ppm	0.4855 ppm	0.5057 ppm	0.4958 ppm	5.6354 ppm	0.5562 ppm
Recovery Percentage 1	97.803 %	94.779 %	96.670 %	101.543 %	98.072 %	109.108 %	107.753 %
Concentration RSD	0.1 %	0.2 %	0.6 %	0.4 %	2.9 %	3.5 %	3.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5068 ppm	0.4794 ppm	0.5052 ppm	10.5418 ppm	0.4670 ppm	0.4792 ppm	0.4924 ppm
Concentration per Run 1	0.5080 ppm	0.4655 ppm	0.5043 ppm	10.1449 ppm	0.4660 ppm	0.4777 ppm	0.4918 ppm
Concentration per Run 2	0.5023 ppm	0.4879 ppm	0.5063 ppm	10.5973 ppm	0.4689 ppm	0.4825 ppm	0.4933 ppm
Concentration per Run 3	0.5101 ppm	0.4848 ppm	0.5050 ppm	10.8830 ppm	0.4660 ppm	0.4776 ppm	0.4922 ppm
Recovery Percentage 1	101.358 %	95.885 %	101.044 %	105.418 %	93.397 %	95.849 %	98.488 %
Concentration RSD	0.8 %	2.5 %	0.2 %	3.5 %	0.4 %	0.6 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5120 ppm	5.3301 ppm	0.5007 ppm	0.4904 ppm	0.5016 ppm	0.5021 ppm	0.4915 ppm
Concentration per Run 1	0.5085 ppm	5.3172 ppm	0.4987 ppm	0.4745 ppm	0.4985 ppm	0.5020 ppm	0.4889 ppm
Concentration per Run 2	0.5152 ppm	5.3449 ppm	0.5017 ppm	0.4973 ppm	0.5031 ppm	0.5030 ppm	0.4941 ppm
Concentration per Run 3	0.5122 ppm	5.3281 ppm	0.5017 ppm	0.4995 ppm	0.5032 ppm	0.5012 ppm	0.4916 ppm
Recovery Percentage 1	102.391 %	101.525 %	100.145 %	98.079 %	100.321 %	100.416 %	98.309 %
Concentration RSD	0.7 %	0.3 %	0.4 %	2.8 %	0.5 %	0.2 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4877 ppm	102.0058 %	96.6675 %	93.3492 %	99.6897 %	89.9361 %	94.9439 %
Concentration per Run 1	0.4866 ppm	103.8847 %	96.4012 %	93.8705 %	103.4185 %	90.4295 %	94.9280 %
Concentration per Run 2	0.4887 ppm	100.5204 %	96.9093 %	93.0453 %	97.3381 %	89.4990 %	94.8532 %
Concentration per Run 3	0.4876 ppm	101.6122 %	96.6922 %	93.1318 %	98.3123 %	89.8797 %	95.0507 %
Recovery Percentage 1	97.531 %						
Concentration RSD	0.2 %	1.7 %	0.3 %	0.5 %	3.3 %	0.5 %	0.1 %

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:32:03 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0003 ppm	-0.0003 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	0.0003 ppm	0.0003 ppm	-0.0002 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0026 ppm
Concentration per Run 2	0.0002 ppm	-0.0006 ppm	0.0000 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0013 ppm	-0.0005 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	3.335 %	0.310 %	-5.168 %	7.116 %	-0.085 %	0.178 %	-1.279 %
Concentration RSD	10.3 %	297.8 %	94.2 %	11.1 %	305.9 %	150.9 %	114.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0160 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0011 ppm	0.0156 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0329 ppm	-0.0005 ppm
Recovery Percentage 1	0.332 %	-0.202 %	-1.461 %	3.603 %	1.458 %	0.641 %	-5.837 %
Concentration RSD	187.3 %	303.1 %	159.4 %	8.0 %	51.8 %	103.8 %	16.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0081 ppm	0.0000 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	0.0003 ppm	0.0075 ppm	-0.0001 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 2	-0.0017 ppm	-0.0001 ppm	0.0004 ppm	0.0053 ppm	0.0002 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 3	-0.0012 ppm	0.0003 ppm	0.0003 ppm	0.0116 ppm	-0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	-0.741 %	1.430 %	0.623 %	0.407 %	-0.135 %	-6.204 %	0.882 %
Concentration RSD	164.5 %	127.3 %	15.9 %	39.7 %	548.5 %	34.3 %	100.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0015 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm
Recovery Percentage 1	9.078 %	0.061 %	0.503 %	0.567 %	-0.963 %	-2.721 %	-0.878 %
Concentration RSD	62.7 %	94.3 %	72.6 %	41.6 %	83.3 %	59.5 %	292.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	102.4317 %	98.1489 %	94.2726 %	98.7844 %	95.1987 %	95.6829 %
Concentration per Run 1	0.0000 ppm	102.5395 %	98.1333 %	94.2253 %	101.2145 %	95.2241 %	95.8775 %
Concentration per Run 2	0.0000 ppm	102.3602 %	98.5512 %	94.2603 %	97.7391 %	95.4179 %	95.9619 %
Concentration per Run 3	-0.0001 ppm	102.3956 %	97.7621 %	94.3320 %	97.3997 %	94.9541 %	95.2094 %
Recovery Percentage 1	-0.815 %						
Concentration RSD	105.6 %	0.1 %	0.4 %	0.1 %	2.1 %	0.2 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454059-02 WG1975964
Analysis started at: 9/26/2024 4:42:11 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0009 ppm	-0.0002 ppm	0.0071 ppm	0.0152 ppm	0.0000 ppm	10.8743 ppm
Concentration per Run 1	0.0002 ppm	0.0026 ppm	-0.0004 ppm	0.0072 ppm	0.0148 ppm	0.0000 ppm	10.6547 ppm
Concentration per Run 2	0.0003 ppm	0.0023 ppm	-0.0008 ppm	0.0070 ppm	0.0152 ppm	0.0000 ppm	11.0252 ppm
Concentration per Run 3	0.0001 ppm	-0.0023 ppm	0.0005 ppm	0.0071 ppm	0.0156 ppm	0.0000 ppm	10.9430 ppm
Concentration RSD	52.1 %	308.7 %	264.8 %	1.3 %	2.4 %	64.4 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0026 ppm	0.0008 ppm	0.0078 ppm	0.9915 ppm	0.0027 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0026 ppm	0.0008 ppm	0.0082 ppm	0.9851 ppm	0.0030 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0025 ppm	0.0009 ppm	0.0075 ppm	0.9894 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0026 ppm	0.0008 ppm	0.0076 ppm	0.9999 ppm	0.0026 ppm
Concentration RSD	215.7 %	19.5 %	3.1 %	4.9 %	4.5 %	0.8 %	8.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.6133 ppm	0.0004 ppm	0.0000 ppm	8.9454 ppm	-0.0003 ppm	-0.0035 ppm	0.0003 ppm
Concentration per Run 1	5.6135 ppm	0.0005 ppm	0.0000 ppm	8.9591 ppm	-0.0001 ppm	-0.0034 ppm	0.0002 ppm
Concentration per Run 2	5.5997 ppm	0.0005 ppm	0.0000 ppm	8.7985 ppm	-0.0005 ppm	-0.0037 ppm	0.0002 ppm
Concentration per Run 3	5.6267 ppm	0.0002 ppm	0.0001 ppm	9.0785 ppm	-0.0002 ppm	-0.0034 ppm	0.0005 ppm
Concentration RSD	0.2 %	43.3 %	138.1 %	1.6 %	62.1 %	5.0 %	74.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	9.1718 ppm	-0.0007 ppm	0.0470 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0022 ppm	9.1374 ppm	-0.0009 ppm	0.0462 ppm	0.0000 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 2	0.0031 ppm	9.1513 ppm	-0.0007 ppm	0.0472 ppm	0.0001 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 3	0.0008 ppm	9.2266 ppm	-0.0006 ppm	0.0478 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration RSD	55.9 %	0.5 %	22.0 %	1.8 %	47.9 %	55.7 %	221.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	103.7089 %	97.8867 %	94.2049 %	101.3114 %	92.2332 %	95.8875 %
Concentration per Run 1	0.0010 ppm	104.9865 %	97.9332 %	94.5393 %	103.9782 %	92.8536 %	95.6240 %
Concentration per Run 2	0.0009 ppm	102.5180 %	97.9303 %	94.4347 %	99.9306 %	92.4134 %	96.0949 %
Concentration per Run 3	0.0010 ppm	103.6221 %	97.7965 %	93.6407 %	100.0254 %	91.4324 %	95.9435 %
Concentration RSD	4.7 %	1.2 %	0.1 %	0.5 %	2.3 %	0.8 %	0.3 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: L2454081-02 WG1975964
Analysis started at: 9/26/2024 4:48:33 PM
Comments <Comment>
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.3706 ppm	-0.0012 ppm	0.0761 ppm	0.0973 ppm	0.0000 ppm	88.1030 ppm
Concentration per Run 1	0.0003 ppm	0.3692 ppm	-0.0017 ppm	0.0762 ppm	0.0957 ppm	0.0000 ppm	87.3309 ppm
Concentration per Run 2	0.0003 ppm	0.3727 ppm	-0.0019 ppm	0.0761 ppm	0.0976 ppm	0.0000 ppm	88.8446 ppm
Concentration per Run 3	0.0004 ppm	0.3700 ppm	-0.0001 ppm	0.0761 ppm	0.0986 ppm	0.0000 ppm	88.1335 ppm
Concentration RSD	24.8 %	0.5 %	81.3 %	0.1 %	1.5 %	24.1 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0005 ppm	0.0005 ppm	0.0008 ppm	0.0107 ppm	0.6619 ppm	9.0917 ppm	-0.0056 ppm
Concentration per Run 1	-0.0005 ppm	0.0005 ppm	0.0010 ppm	0.0107 ppm	0.6579 ppm	8.8936 ppm	-0.0059 ppm
Concentration per Run 2	-0.0005 ppm	0.0004 ppm	0.0007 ppm	0.0107 ppm	0.6691 ppm	9.1018 ppm	-0.0061 ppm
Concentration per Run 3	-0.0005 ppm	0.0005 ppm	0.0009 ppm	0.0108 ppm	0.6586 ppm	9.2798 ppm	-0.0049 ppm
Concentration RSD	1.5 %	13.1 %	14.7 %	0.4 %	0.9 %	2.1 %	11.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.1228 ppm	0.0441 ppm	0.0010 ppm	298.5922 ppm	0.0029 ppm	-0.0008 ppm	0.0013 ppm
Concentration per Run 1	18.1327 ppm	0.0438 ppm	0.0010 ppm	304.0760 ppm	0.0028 ppm	-0.0002 ppm	0.0013 ppm
Concentration per Run 2	18.1173 ppm	0.0444 ppm	0.0009 ppm	303.2694 ppm	0.0030 ppm	-0.0006 ppm	0.0017 ppm
Concentration per Run 3	18.1184 ppm	0.0443 ppm	0.0012 ppm	288.4312 ppm	0.0029 ppm	-0.0015 ppm	0.0009 ppm
Concentration RSD	0.0 %	0.8 %	13.5 %	3.0 %	3.0 %	93.4 %	32.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	6.8615 ppm	-0.0005 ppm	0.5124 ppm	0.0201 ppm	0.0003 ppm	0.0009 ppm
Concentration per Run 1	0.0008 ppm	6.8579 ppm	-0.0007 ppm	0.5043 ppm	0.0202 ppm	-0.0003 ppm	0.0010 ppm
Concentration per Run 2	-0.0015 ppm	6.8437 ppm	-0.0009 ppm	0.5152 ppm	0.0202 ppm	0.0003 ppm	0.0010 ppm
Concentration per Run 3	0.0009 ppm	6.8828 ppm	0.0000 ppm	0.5177 ppm	0.0199 ppm	0.0010 ppm	0.0006 ppm
Concentration RSD	1,936.1 %	0.3 %	85.8 %	1.4 %	1.0 %	205.9 %	21.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2498 ppm	98.7175 %	87.6213 %	83.6427 %	96.6242 %	69.7994 %	85.9437 %
Concentration per Run 1	0.2502 ppm	99.0585 %	87.6309 %	83.7462 %	97.9276 %	69.9417 %	86.3309 %
Concentration per Run 2	0.2490 ppm	98.3593 %	87.6833 %	83.8468 %	95.8160 %	70.0498 %	85.8391 %
Concentration per Run 3	0.2503 ppm	98.7347 %	87.5497 %	83.3351 %	96.1291 %	69.4068 %	85.6611 %
Concentration RSD	0.3 %	0.4 %	0.1 %	0.3 %	1.2 %	0.5 %	0.4 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: L2454081-01 WG1975964
Analysis started at: 9/26/2024 4:54:59 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0102 ppm	-0.0019 ppm	0.0775 ppm	0.0970 ppm	0.0000 ppm	89.5011 ppm
Concentration per Run 1	0.0006 ppm	0.0079 ppm	-0.0022 ppm	0.0775 ppm	0.0928 ppm	0.0000 ppm	85.7611 ppm
Concentration per Run 2	0.0002 ppm	0.0103 ppm	-0.0003 ppm	0.0780 ppm	0.0985 ppm	0.0000 ppm	91.5526 ppm
Concentration per Run 3	0.0006 ppm	0.0126 ppm	-0.0031 ppm	0.0771 ppm	0.0998 ppm	0.0000 ppm	91.1896 ppm
Concentration RSD	45.1 %	23.2 %	77.9 %	0.6 %	3.8 %	65.5 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0067 ppm	0.0141 ppm	9.0786 ppm	-0.0058 ppm
Concentration per Run 1	-0.0005 ppm	0.0002 ppm	0.0001 ppm	0.0069 ppm	0.0137 ppm	8.8482 ppm	-0.0056 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0066 ppm	0.0141 ppm	8.9921 ppm	-0.0062 ppm
Concentration per Run 3	-0.0005 ppm	0.0003 ppm	-0.0001 ppm	0.0068 ppm	0.0146 ppm	9.3954 ppm	-0.0055 ppm
Concentration RSD	2.6 %	116.8 %	306.1 %	2.3 %	3.3 %	3.1 %	6.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.3971 ppm	0.0236 ppm	0.0010 ppm	295.7108 ppm	0.0025 ppm	-0.0030 ppm	0.0015 ppm
Concentration per Run 1	18.3545 ppm	0.0229 ppm	0.0010 ppm	283.7474 ppm	0.0026 ppm	-0.0036 ppm	0.0021 ppm
Concentration per Run 2	18.4507 ppm	0.0243 ppm	0.0011 ppm	304.5666 ppm	0.0024 ppm	-0.0030 ppm	0.0011 ppm
Concentration per Run 3	18.3862 ppm	0.0237 ppm	0.0009 ppm	298.8184 ppm	0.0024 ppm	-0.0023 ppm	0.0013 ppm
Concentration RSD	0.3 %	2.9 %	6.4 %	3.6 %	4.0 %	22.4 %	37.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	6.5217 ppm	-0.0006 ppm	0.5203 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0029 ppm	6.5356 ppm	-0.0006 ppm	0.4980 ppm	-0.0005 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	0.0003 ppm	6.5367 ppm	-0.0007 ppm	0.5279 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	6.4928 ppm	-0.0003 ppm	0.5350 ppm	-0.0002 ppm	0.0011 ppm	0.0003 ppm
Concentration RSD	168.5 %	0.4 %	40.3 %	3.8 %	42.0 %	2,505.7 %	114.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2451 ppm	99.0439 %	86.6004 %	83.1944 %	96.8859 %	69.3475 %	85.2485 %
Concentration per Run 1	0.2449 ppm	101.1949 %	86.6970 %	83.1343 %	101.4707 %	69.2888 %	85.1535 %
Concentration per Run 2	0.2459 ppm	97.5425 %	86.7770 %	82.8340 %	94.7923 %	69.1174 %	85.2620 %
Concentration per Run 3	0.2445 ppm	98.3943 %	86.3273 %	83.6148 %	94.3946 %	69.6362 %	85.3299 %
Concentration RSD	0.3 %	1.9 %	0.3 %	0.5 %	4.1 %	0.4 %	0.1 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-7 WG1975964
Analysis started at: 9/26/2024 5:01:24 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0556 ppm	2.1417 ppm	0.1305 ppm	1.0977 ppm	2.1985 ppm	0.0504 ppm	97.7575 ppm
Concentration per Run 1	0.0561 ppm	2.1029 ppm	0.1313 ppm	1.0947 ppm	2.1410 ppm	0.0494 ppm	96.1657 ppm
Concentration per Run 2	0.0547 ppm	2.1451 ppm	0.1299 ppm	1.0989 ppm	2.2357 ppm	0.0505 ppm	98.2247 ppm
Concentration per Run 3	0.0560 ppm	2.1771 ppm	0.1302 ppm	1.0995 ppm	2.2189 ppm	0.0514 ppm	98.8820 ppm
Concentration RSD	1.4 %	1.7 %	0.6 %	0.2 %	2.3 %	1.9 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0515 ppm	0.5201 ppm	0.1929 ppm	0.2795 ppm	1.0070 ppm	20.3483 ppm	-0.0064 ppm
Concentration per Run 1	0.0516 ppm	0.5216 ppm	0.1938 ppm	0.2795 ppm	0.9868 ppm	20.1760 ppm	-0.0060 ppm
Concentration per Run 2	0.0514 ppm	0.5199 ppm	0.1931 ppm	0.2786 ppm	1.0098 ppm	20.4138 ppm	-0.0066 ppm
Concentration per Run 3	0.0515 ppm	0.5189 ppm	0.1918 ppm	0.2804 ppm	1.0244 ppm	20.4550 ppm	-0.0065 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.3 %	1.9 %	0.7 %	5.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	27.2278 ppm	0.5106 ppm	0.9979 ppm	309.7048 ppm	0.5180 ppm	0.5398 ppm	0.5855 ppm
Concentration per Run 1	27.2664 ppm	0.5026 ppm	0.9967 ppm	310.6392 ppm	0.5210 ppm	0.5426 ppm	0.5889 ppm
Concentration per Run 2	27.2479 ppm	0.5126 ppm	0.9966 ppm	315.7442 ppm	0.5172 ppm	0.5402 ppm	0.5842 ppm
Concentration per Run 3	27.1690 ppm	0.5165 ppm	1.0004 ppm	302.7309 ppm	0.5158 ppm	0.5367 ppm	0.5834 ppm
Concentration RSD	0.2 %	1.4 %	0.2 %	2.1 %	0.5 %	0.5 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1268 ppm	7.3443 ppm	0.9320 ppm	1.5148 ppm	1.0067 ppm	0.1143 ppm	0.5058 ppm
Concentration per Run 1	0.1250 ppm	7.3736 ppm	0.9298 ppm	1.4675 ppm	1.0086 ppm	0.1149 ppm	0.5062 ppm
Concentration per Run 2	0.1282 ppm	7.3511 ppm	0.9315 ppm	1.5451 ppm	1.0051 ppm	0.1139 ppm	0.5058 ppm
Concentration per Run 3	0.1272 ppm	7.3082 ppm	0.9347 ppm	1.5318 ppm	1.0063 ppm	0.1142 ppm	0.5053 ppm
Concentration RSD	1.3 %	0.5 %	0.3 %	2.7 %	0.2 %	0.5 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7203 ppm	96.5365 %	86.2658 %	83.0128 %	94.2407 %	68.8049 %	84.8070 %
Concentration per Run 1	0.7210 ppm	96.6314 %	86.2088 %	83.2467 %	96.2109 %	68.6390 %	84.7408 %
Concentration per Run 2	0.7181 ppm	96.5178 %	86.2073 %	83.0996 %	93.8507 %	68.8627 %	84.8901 %
Concentration per Run 3	0.7219 ppm	96.4604 %	86.3812 %	82.6921 %	92.6607 %	68.9132 %	84.7901 %
Concentration RSD	0.3 %	0.1 %	0.1 %	0.3 %	1.9 %	0.2 %	0.1 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-8 WG1975964
Analysis started at: 9/26/2024 5:07:46 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0071 ppm	-0.0012 ppm	0.0789 ppm	0.0988 ppm	-0.0001 ppm	90.7932 ppm
Concentration per Run 1	0.0006 ppm	0.0093 ppm	-0.0010 ppm	0.0796 ppm	0.0973 ppm	0.0000 ppm	89.9945 ppm
Concentration per Run 2	-0.0001 ppm	0.0122 ppm	-0.0008 ppm	0.0790 ppm	0.0998 ppm	-0.0001 ppm	90.8556 ppm
Concentration per Run 3	0.0003 ppm	-0.0004 ppm	-0.0016 ppm	0.0782 ppm	0.0995 ppm	-0.0001 ppm	91.5294 ppm
Concentration RSD	110.0 %	93.4 %	36.7 %	0.8 %	1.4 %	44.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0069 ppm	0.0144 ppm	9.2388 ppm	-0.0060 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0068 ppm	0.0143 ppm	8.9531 ppm	-0.0061 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm	0.0145 ppm	9.4549 ppm	-0.0058 ppm
Concentration per Run 3	-0.0005 ppm	0.0000 ppm	0.0003 ppm	0.0072 ppm	0.0143 ppm	9.3083 ppm	-0.0062 ppm
Concentration RSD	3.3 %	180.9 %	374.3 %	4.4 %	0.6 %	2.8 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.4806 ppm	0.0239 ppm	0.0018 ppm	300.6255 ppm	0.0021 ppm	-0.0028 ppm	0.0013 ppm
Concentration per Run 1	18.3897 ppm	0.0238 ppm	0.0019 ppm	295.3577 ppm	0.0021 ppm	-0.0028 ppm	0.0015 ppm
Concentration per Run 2	18.5488 ppm	0.0238 ppm	0.0017 ppm	293.3704 ppm	0.0021 ppm	-0.0031 ppm	0.0011 ppm
Concentration per Run 3	18.5032 ppm	0.0240 ppm	0.0017 ppm	313.1483 ppm	0.0021 ppm	-0.0025 ppm	0.0014 ppm
Concentration RSD	0.4 %	0.5 %	5.7 %	3.6 %	0.7 %	11.0 %	16.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	6.5796 ppm	-0.0005 ppm	0.5301 ppm	-0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0010 ppm	6.6213 ppm	-0.0002 ppm	0.5218 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	6.5626 ppm	-0.0008 ppm	0.5348 ppm	-0.0003 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0016 ppm	6.5548 ppm	-0.0005 ppm	0.5338 ppm	-0.0004 ppm	-0.0007 ppm	0.0001 ppm
Concentration RSD	999.9 %	0.6 %	60.0 %	1.4 %	22.5 %	90.0 %	22.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2478 ppm	97.5992 %	86.3720 %	83.4844 %	95.5765 %	69.4173 %	85.0641 %
Concentration per Run 1	0.2474 ppm	97.8967 %	86.4372 %	82.8252 %	97.0875 %	68.8464 %	85.1237 %
Concentration per Run 2	0.2472 ppm	98.0207 %	86.4621 %	83.7137 %	95.3475 %	69.6628 %	85.2099 %
Concentration per Run 3	0.2488 ppm	96.8800 %	86.2167 %	83.9142 %	94.2945 %	69.7426 %	84.8587 %
Concentration RSD	0.4 %	0.6 %	0.2 %	0.7 %	1.5 %	0.7 %	0.2 %

ICP DataTrace 4

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LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-9 WG1975964
Analysis started at: 9/26/2024 5:14:11 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0548 ppm	2.0699 ppm	0.1295 ppm	1.0927 ppm	2.1543 ppm	0.0486 ppm	95.7879 ppm
Concentration per Run 1	0.0547 ppm	2.0050 ppm	0.1315 ppm	1.0937 ppm	2.0378 ppm	0.0471 ppm	92.9256 ppm
Concentration per Run 2	0.0549 ppm	2.0902 ppm	0.1279 ppm	1.0918 ppm	2.2223 ppm	0.0493 ppm	97.6232 ppm
Concentration per Run 3	0.0549 ppm	2.1145 ppm	0.1292 ppm	1.0926 ppm	2.2029 ppm	0.0494 ppm	96.8149 ppm
Concentration RSD	0.2 %	2.8 %	1.4 %	0.1 %	4.7 %	2.6 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0499 ppm	0.5084 ppm	0.1891 ppm	0.2757 ppm	0.9618 ppm	19.9543 ppm	-0.0060 ppm
Concentration per Run 1	0.0500 ppm	0.5075 ppm	0.1903 ppm	0.2748 ppm	0.9261 ppm	19.2290 ppm	-0.0061 ppm
Concentration per Run 2	0.0499 ppm	0.5097 ppm	0.1888 ppm	0.2759 ppm	0.9804 ppm	20.0856 ppm	-0.0061 ppm
Concentration per Run 3	0.0498 ppm	0.5082 ppm	0.1881 ppm	0.2764 ppm	0.9790 ppm	20.5484 ppm	-0.0057 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.3 %	3.2 %	3.4 %	3.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	27.2227 ppm	0.4906 ppm	0.9987 ppm	303.7182 ppm	0.5059 ppm	0.5317 ppm	0.5648 ppm
Concentration per Run 1	27.2138 ppm	0.4741 ppm	0.9975 ppm	304.9066 ppm	0.5049 ppm	0.5313 ppm	0.5662 ppm
Concentration per Run 2	27.2167 ppm	0.4994 ppm	0.9978 ppm	306.3547 ppm	0.5074 ppm	0.5328 ppm	0.5642 ppm
Concentration per Run 3	27.2376 ppm	0.4983 ppm	1.0010 ppm	299.8935 ppm	0.5055 ppm	0.5312 ppm	0.5639 ppm
Concentration RSD	0.0 %	2.9 %	0.2 %	1.1 %	0.3 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1273 ppm	6.9549 ppm	0.9437 ppm	1.4860 ppm	1.0038 ppm	0.1133 ppm	0.4961 ppm
Concentration per Run 1	0.1278 ppm	6.9332 ppm	0.9463 ppm	1.4452 ppm	1.0069 ppm	0.1131 ppm	0.4988 ppm
Concentration per Run 2	0.1262 ppm	6.9730 ppm	0.9440 ppm	1.4988 ppm	1.0044 ppm	0.1141 ppm	0.4971 ppm
Concentration per Run 3	0.1279 ppm	6.9586 ppm	0.9407 ppm	1.5141 ppm	1.0002 ppm	0.1128 ppm	0.4924 ppm
Concentration RSD	0.7 %	0.3 %	0.3 %	2.4 %	0.3 %	0.6 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7093 ppm	97.9565 %	86.8626 %	83.3123 %	95.6256 %	69.2963 %	84.8577 %
Concentration per Run 1	0.7108 ppm	100.2123 %	87.0240 %	83.6338 %	99.0080 %	69.6405 %	84.7329 %
Concentration per Run 2	0.7082 ppm	96.3924 %	86.9016 %	82.9992 %	93.6919 %	68.9286 %	84.8389 %
Concentration per Run 3	0.7089 ppm	97.2647 %	86.6623 %	83.3040 %	94.1770 %	69.3197 %	85.0012 %
Concentration RSD	0.2 %	2.0 %	0.2 %	0.4 %	3.1 %	0.5 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-10d5 WG1975964
Analysis started at: 9/26/2024 5:20:34 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0000 ppm	-0.0004 ppm	0.0190 ppm	0.0199 ppm	0.0000 ppm	18.4340 ppm
Concentration per Run 1	0.0003 ppm	0.0012 ppm	-0.0011 ppm	0.0189 ppm	0.0192 ppm	0.0000 ppm	17.8380 ppm
Concentration per Run 2	0.0003 ppm	-0.0003 ppm	0.0001 ppm	0.0190 ppm	0.0199 ppm	0.0000 ppm	18.4300 ppm
Concentration per Run 3	0.0002 ppm	-0.0010 ppm	0.0000 ppm	0.0189 ppm	0.0207 ppm	0.0000 ppm	19.0341 ppm
Concentration RSD	20.9 %	4,476.1 %	182.0 %	0.3 %	3.9 %	265.6 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm	0.0045 ppm	1.8625 ppm	-0.0013 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0041 ppm	1.7957 ppm	-0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0044 ppm	1.8414 ppm	-0.0016 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0016 ppm	0.0049 ppm	1.9504 ppm	-0.0013 ppm
Concentration RSD	36.8 %	358.9 %	413.5 %	8.7 %	8.4 %	4.3 %	16.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.9609 ppm	0.0049 ppm	0.0008 ppm	64.9563 ppm	0.0003 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 1	3.9516 ppm	0.0049 ppm	0.0010 ppm	63.0961 ppm	0.0002 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 2	3.9654 ppm	0.0050 ppm	0.0008 ppm	64.6053 ppm	0.0004 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 3	3.9657 ppm	0.0049 ppm	0.0006 ppm	67.1676 ppm	0.0005 ppm	-0.0009 ppm	0.0011 ppm
Concentration RSD	0.2 %	1.2 %	26.3 %	3.2 %	48.0 %	13.7 %	78.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	1.1954 ppm	0.0006 ppm	0.1070 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0014 ppm	1.1957 ppm	0.0006 ppm	0.1031 ppm	0.0000 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0022 ppm	1.1949 ppm	0.0008 ppm	0.1071 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	1.1957 ppm	0.0004 ppm	0.1107 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration RSD	58.1 %	0.0 %	36.1 %	3.5 %	84.9 %	55.6 %	96.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0513 ppm	99.2687 %	93.3628 %	89.7767 %	97.2796 %	83.8624 %	91.8086 %
Concentration per Run 1	0.0512 ppm	100.8182 %	93.3761 %	89.7048 %	100.8052 %	83.9567 %	91.6172 %
Concentration per Run 2	0.0516 ppm	99.6581 %	93.6080 %	89.9932 %	97.1534 %	84.0089 %	91.7541 %
Concentration per Run 3	0.0510 ppm	97.3299 %	93.1042 %	89.6322 %	93.8801 %	83.6217 %	92.0546 %
Concentration RSD	0.6 %	1.8 %	0.3 %	0.2 %	3.6 %	0.3 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453698-01d20 WG1973911
Analysis started at: 9/26/2024 5:26:53 PM
Comments <Comment>
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0006 ppm	-0.0006 ppm	0.0519 ppm	0.0157 ppm	0.0000 ppm	6.8640 ppm
Concentration per Run 1	0.0000 ppm	-0.0031 ppm	0.0001 ppm	0.0518 ppm	0.0154 ppm	0.0000 ppm	6.7672 ppm
Concentration per Run 2	0.0001 ppm	0.0021 ppm	-0.0010 ppm	0.0520 ppm	0.0157 ppm	0.0000 ppm	6.8985 ppm
Concentration per Run 3	0.0001 ppm	0.0026 ppm	-0.0009 ppm	0.0518 ppm	0.0159 ppm	0.0000 ppm	6.9263 ppm
Concentration RSD	165.8 %	562.5 %	99.3 %	0.3 %	1.7 %	77.8 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0045 ppm	0.0002 ppm	0.0012 ppm	0.4831 ppm	7.3821 ppm	-0.0046 ppm
Concentration per Run 1	-0.0001 ppm	0.0044 ppm	0.0002 ppm	0.0010 ppm	0.4738 ppm	7.1586 ppm	-0.0045 ppm
Concentration per Run 2	-0.0001 ppm	0.0046 ppm	0.0003 ppm	0.0011 ppm	0.4832 ppm	7.4207 ppm	-0.0045 ppm
Concentration per Run 3	0.0000 ppm	0.0046 ppm	0.0001 ppm	0.0013 ppm	0.4923 ppm	7.5669 ppm	-0.0047 ppm
Concentration RSD	40.1 %	2.4 %	65.1 %	12.9 %	1.9 %	2.8 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.0691 ppm	0.4216 ppm	0.0014 ppm	181.9190 ppm	0.0002 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	16.0500 ppm	0.4141 ppm	0.0014 ppm	189.5180 ppm	0.0005 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 2	16.0811 ppm	0.4234 ppm	0.0014 ppm	178.7398 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	16.0761 ppm	0.4273 ppm	0.0014 ppm	177.4992 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm
Concentration RSD	0.1 %	1.6 %	0.8 %	3.6 %	151.1 %	93.8 %	3,838.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.0677 ppm	0.0001 ppm	0.1269 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	0.0668 ppm	-0.0002 ppm	0.1243 ppm	0.0002 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 2	-0.0015 ppm	0.0691 ppm	0.0002 ppm	0.1272 ppm	0.0001 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 3	0.0007 ppm	0.0672 ppm	0.0005 ppm	0.1292 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm
Concentration RSD	365.3 %	1.8 %	252.6 %	1.9 %	36.0 %	3,016.5 %	29.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0201 ppm	98.1676 %	89.5612 %	87.6296 %	95.3275 %	76.0897 %	88.3065 %
Concentration per Run 1	0.0203 ppm	98.2438 %	89.4468 %	87.9399 %	97.0196 %	76.5594 %	88.0427 %
Concentration per Run 2	0.0200 ppm	97.8853 %	89.6420 %	87.0742 %	95.0078 %	75.4408 %	88.1240 %
Concentration per Run 3	0.0199 ppm	98.3738 %	89.5949 %	87.8747 %	93.9551 %	76.2690 %	88.7527 %
Concentration RSD	0.9 %	0.3 %	0.1 %	0.6 %	1.6 %	0.8 %	0.4 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453855-01d100 WG1975237
Analysis started at: 9/26/2024 5:33:22 PM
Comments RR for BE FE
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0011 ppm	1.4863 ppm	0.0090 ppm	0.0164 ppm	0.0817 ppm	0.0007 ppm	3.1301 ppm
Concentration per Run 1	0.0012 ppm	1.4477 ppm	0.0092 ppm	0.0165 ppm	0.0798 ppm	0.0007 ppm	3.0397 ppm
Concentration per Run 2	0.0009 ppm	1.5082 ppm	0.0090 ppm	0.0163 ppm	0.0828 ppm	0.0007 ppm	3.1578 ppm
Concentration per Run 3	0.0012 ppm	1.5029 ppm	0.0089 ppm	0.0165 ppm	0.0825 ppm	0.0008 ppm	3.1927 ppm
Concentration RSD	15.4 %	2.3 %	1.6 %	0.8 %	2.0 %	5.4 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0005 ppm	0.0066 ppm	0.0323 ppm	18.2372 ppm	14.8727 ppm	0.2240 ppm	0.0022 ppm
Concentration per Run 1	0.0005 ppm	0.0066 ppm	0.0321 ppm	18.2253 ppm	14.4663 ppm	0.2423 ppm	0.0017 ppm
Concentration per Run 2	0.0005 ppm	0.0067 ppm	0.0324 ppm	18.2201 ppm	15.0596 ppm	0.2121 ppm	0.0021 ppm
Concentration per Run 3	0.0004 ppm	0.0065 ppm	0.0323 ppm	18.2663 ppm	15.0921 ppm	0.2175 ppm	0.0029 ppm
Concentration RSD	9.3 %	1.5 %	0.4 %	0.1 %	2.4 %	7.2 %	27.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6411 ppm	0.1084 ppm	0.0186 ppm	0.3136 ppm	0.0400 ppm	0.0831 ppm	0.0009 ppm
Concentration per Run 1	0.6440 ppm	0.1057 ppm	0.0186 ppm	0.3054 ppm	0.0398 ppm	0.0831 ppm	0.0005 ppm
Concentration per Run 2	0.6395 ppm	0.1090 ppm	0.0185 ppm	0.3190 ppm	0.0403 ppm	0.0833 ppm	0.0005 ppm
Concentration per Run 3	0.6398 ppm	0.1104 ppm	0.0189 ppm	0.3163 ppm	0.0399 ppm	0.0830 ppm	0.0017 ppm
Concentration RSD	0.4 %	2.2 %	1.1 %	2.3 %	0.6 %	0.2 %	75.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.4620 ppm	0.0356 ppm	0.0273 ppm	0.0705 ppm	-0.0007 ppm	0.0041 ppm
Concentration per Run 1	-0.0008 ppm	0.4623 ppm	0.0355 ppm	0.0267 ppm	0.0705 ppm	-0.0008 ppm	0.0041 ppm
Concentration per Run 2	0.0018 ppm	0.4623 ppm	0.0354 ppm	0.0277 ppm	0.0704 ppm	-0.0007 ppm	0.0041 ppm
Concentration per Run 3	0.0011 ppm	0.4614 ppm	0.0359 ppm	0.0276 ppm	0.0705 ppm	-0.0006 ppm	0.0041 ppm
Concentration RSD	191.4 %	0.1 %	0.6 %	2.0 %	0.1 %	13.5 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	4.6931 ppm	101.2335 %	97.1184 %	84.1453 %	98.8145 %	92.0205 %	95.7216 %
Concentration per Run 1	4.6871 ppm	101.9118 %	97.3459 %	84.4329 %	101.7137 %	92.1169 %	95.9586 %
Concentration per Run 2	4.7080 ppm	101.7832 %	96.8985 %	84.1583 %	98.1942 %	92.0003 %	95.6283 %
Concentration per Run 3	4.6840 ppm	100.0056 %	97.1108 %	83.8449 %	96.5356 %	91.9442 %	95.5778 %
Concentration RSD	0.3 %	1.1 %	0.2 %	0.3 %	2.7 %	0.1 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453855-02d10 WG1975237
Analysis started at: 9/26/2024 5:39:49 PM
Comments RR for BE FE
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0018 ppm	16.1838 ppm	0.1190 ppm	0.0650 ppm	0.1786 ppm	0.0035 ppm	13.9678 ppm
Concentration per Run 1	0.0019 ppm	16.0277 ppm	0.1186 ppm	0.0648 ppm	0.1769 ppm	0.0035 ppm	13.8606 ppm
Concentration per Run 2	0.0016 ppm	16.2650 ppm	0.1183 ppm	0.0655 ppm	0.1798 ppm	0.0035 ppm	14.0849 ppm
Concentration per Run 3	0.0017 ppm	16.2588 ppm	0.1202 ppm	0.0647 ppm	0.1790 ppm	0.0035 ppm	13.9578 ppm
Concentration RSD	10.0 %	0.8 %	0.8 %	0.7 %	0.8 %	0.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0047 ppm	0.0669 ppm	0.1988 ppm	5.7602 ppm	114.6813 ppm	3.2597 ppm	0.0176 ppm
Concentration per Run 1	0.0047 ppm	0.0664 ppm	0.1993 ppm	5.7695 ppm	114.5313 ppm	3.2035 ppm	0.0173 ppm
Concentration per Run 2	0.0047 ppm	0.0669 ppm	0.1989 ppm	5.7239 ppm	115.4019 ppm	3.2567 ppm	0.0176 ppm
Concentration per Run 3	0.0047 ppm	0.0675 ppm	0.1983 ppm	5.7873 ppm	114.1107 ppm	3.3188 ppm	0.0178 ppm
Concentration RSD	0.5 %	0.8 %	0.3 %	0.6 %	0.6 %	1.8 %	1.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8411 ppm	0.6373 ppm	0.2359 ppm	12.7296 ppm	0.1930 ppm	0.7874 ppm	0.0247 ppm
Concentration per Run 1	9.8245 ppm	0.6305 ppm	0.2355 ppm	12.5627 ppm	0.1913 ppm	0.7828 ppm	0.0251 ppm
Concentration per Run 2	9.8441 ppm	0.6420 ppm	0.2354 ppm	12.7111 ppm	0.1930 ppm	0.7855 ppm	0.0239 ppm
Concentration per Run 3	9.8547 ppm	0.6393 ppm	0.2369 ppm	12.9151 ppm	0.1949 ppm	0.7939 ppm	0.0251 ppm
Concentration RSD	0.2 %	0.9 %	0.4 %	1.4 %	0.9 %	0.7 %	2.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0026 ppm	3.7600 ppm	0.1187 ppm	0.1115 ppm	0.8218 ppm	0.0003 ppm	0.0951 ppm
Concentration per Run 1	0.0020 ppm	3.7355 ppm	0.1181 ppm	0.1105 ppm	0.8219 ppm	-0.0001 ppm	0.0949 ppm
Concentration per Run 2	0.0025 ppm	3.7601 ppm	0.1185 ppm	0.1121 ppm	0.8231 ppm	0.0013 ppm	0.0952 ppm
Concentration per Run 3	0.0034 ppm	3.7843 ppm	0.1197 ppm	0.1118 ppm	0.8205 ppm	-0.0003 ppm	0.0953 ppm
Concentration RSD	27.8 %	0.6 %	0.7 %	0.8 %	0.2 %	296.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	5.7859 ppm	105.1587 %	98.0106 %	90.7127 %	98.9943 %	82.2430 %	92.5189 %
Concentration per Run 1	5.7871 ppm	105.0019 %	97.8520 %	90.9982 %	99.7757 %	82.9364 %	92.6136 %
Concentration per Run 2	5.7544 ppm	105.1105 %	98.1589 %	90.7465 %	98.4594 %	82.3100 %	92.2545 %
Concentration per Run 3	5.8163 ppm	105.3637 %	98.0210 %	90.3935 %	98.7478 %	81.4826 %	92.6886 %
Concentration RSD	0.5 %	0.2 %	0.2 %	0.3 %	0.7 %	0.9 %	0.3 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:46:15 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5060 ppm	0.5115 ppm	0.5055 ppm	0.5226 ppm	0.5162 ppm	0.4956 ppm	0.4795 ppm
Concentration per Run 1	0.5071 ppm	0.4950 ppm	0.5047 ppm	0.5203 ppm	0.4972 ppm	0.4793 ppm	0.4670 ppm
Concentration per Run 2	0.5059 ppm	0.5262 ppm	0.5101 ppm	0.5282 ppm	0.5255 ppm	0.5031 ppm	0.4847 ppm
Concentration per Run 3	0.5050 ppm	0.5132 ppm	0.5018 ppm	0.5193 ppm	0.5260 ppm	0.5043 ppm	0.4868 ppm
Recovery Percentage 1	101.203 %	102.293 %	101.105 %	104.522 %	103.248 %	99.112 %	95.896 %
Concentration RSD	0.2 %	3.1 %	0.8 %	0.9 %	3.2 %	2.8 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4892 ppm	0.4785 ppm	0.4826 ppm	0.5050 ppm	0.4864 ppm	5.4752 ppm	0.5413 ppm
Concentration per Run 1	0.4889 ppm	0.4771 ppm	0.4831 ppm	0.5065 ppm	0.4716 ppm	5.3750 ppm	0.5176 ppm
Concentration per Run 2	0.4910 ppm	0.4817 ppm	0.4819 ppm	0.5032 ppm	0.4926 ppm	5.5438 ppm	0.5528 ppm
Concentration per Run 3	0.4877 ppm	0.4768 ppm	0.4827 ppm	0.5053 ppm	0.4950 ppm	5.5070 ppm	0.5536 ppm
Recovery Percentage 1	97.840 %	95.705 %	96.510 %	101.001 %	97.280 %	109.505 %	108.268 %
Concentration RSD	0.3 %	0.6 %	0.1 %	0.3 %	2.7 %	1.6 %	3.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5032 ppm	0.4741 ppm	0.5068 ppm	10.6890 ppm	0.4757 ppm	0.4844 ppm	0.4932 ppm
Concentration per Run 1	0.5036 ppm	0.4609 ppm	0.5045 ppm	10.2285 ppm	0.4740 ppm	0.4839 ppm	0.4908 ppm
Concentration per Run 2	0.5037 ppm	0.4802 ppm	0.5105 ppm	10.9545 ppm	0.4789 ppm	0.4877 ppm	0.4979 ppm
Concentration per Run 3	0.5023 ppm	0.4811 ppm	0.5054 ppm	10.8839 ppm	0.4741 ppm	0.4817 ppm	0.4908 ppm
Recovery Percentage 1	100.644 %	94.813 %	101.363 %	106.890 %	95.134 %	96.889 %	98.631 %
Concentration RSD	0.2 %	2.4 %	0.6 %	3.7 %	0.6 %	0.6 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5173 ppm	5.4040 ppm	0.4989 ppm	0.4915 ppm	0.5028 ppm	0.5070 ppm	0.4912 ppm
Concentration per Run 1	0.5143 ppm	5.3838 ppm	0.4955 ppm	0.4738 ppm	0.5040 ppm	0.5043 ppm	0.4927 ppm
Concentration per Run 2	0.5223 ppm	5.4492 ppm	0.5027 ppm	0.4997 ppm	0.5005 ppm	0.5115 ppm	0.4890 ppm
Concentration per Run 3	0.5153 ppm	5.3790 ppm	0.4984 ppm	0.5011 ppm	0.5038 ppm	0.5053 ppm	0.4921 ppm
Recovery Percentage 1	103.462 %	102.934 %	99.774 %	98.302 %	100.557 %	101.407 %	98.249 %
Concentration RSD	0.8 %	0.7 %	0.7 %	3.1 %	0.4 %	0.8 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4886 ppm	101.5383 %	96.7991 %	93.4987 %	98.7194 %	89.3784 %	95.7028 %
Concentration per Run 1	0.4884 ppm	102.5186 %	96.7491 %	94.0985 %	101.9021 %	89.8819 %	95.5065 %
Concentration per Run 2	0.4901 ppm	101.1067 %	96.7942 %	92.6295 %	97.0688 %	88.6023 %	96.1093 %
Concentration per Run 3	0.4874 ppm	100.9897 %	96.8539 %	93.7680 %	97.1873 %	89.6510 %	95.4925 %
Recovery Percentage 1	97.721 %						
Concentration RSD	0.3 %	0.8 %	0.1 %	0.8 %	2.8 %	0.8 %	0.4 %

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:52:17 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0020 ppm	-0.0005 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 1	0.0003 ppm	-0.0041 ppm	-0.0002 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0017 ppm	0.0003 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	-0.0016 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm
Recovery Percentage 1	2.955 %	-1.969 %	-10.491 %	5.806 %	-0.163 %	0.547 %	-1.353 %
Concentration RSD	71.6 %	102.7 %	185.3 %	4.3 %	167.2 %	74.5 %	27.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0081 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0209 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0139 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	-0.0105 ppm	-0.0008 ppm
Recovery Percentage 1	0.553 %	-0.301 %	-0.422 %	1.901 %	1.476 %	0.325 %	-3.038 %
Concentration RSD	51.1 %	110.5 %	438.9 %	20.4 %	24.3 %	202.6 %	169.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0127 ppm	0.0000 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 1	-0.0022 ppm	0.0000 ppm	0.0001 ppm	0.0119 ppm	0.0002 ppm	-0.0008 ppm	-0.0007 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0147 ppm	-0.0001 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 3	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0115 ppm	-0.0001 ppm	-0.0006 ppm	0.0000 ppm
Recovery Percentage 1	-0.106 %	0.323 %	0.290 %	0.635 %	0.041 %	-6.105 %	-0.791 %
Concentration RSD	1,720.7 %	101.3 %	47.8 %	13.8 %	1,946.5 %	33.4 %	87.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.0009 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0000 ppm
Recovery Percentage 1	5.027 %	0.152 %	-0.218 %	0.554 %	-0.279 %	-0.260 %	-0.286 %
Concentration RSD	198.5 %	19.4 %	335.8 %	57.2 %	106.9 %	1,239.9 %	393.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	101.7302 %	98.4572 %	94.1409 %	98.9995 %	94.3372 %	96.2883 %
Concentration per Run 1	0.0000 ppm	102.6794 %	99.1197 %	94.4163 %	101.8212 %	94.4860 %	96.4931 %
Concentration per Run 2	0.0001 ppm	101.1496 %	98.0491 %	94.1702 %	98.2668 %	94.4355 %	96.2811 %
Concentration per Run 3	0.0000 ppm	101.3617 %	98.2027 %	93.8364 %	96.9104 %	94.0900 %	96.0906 %
Recovery Percentage 1	0.221 %						
Concentration RSD	503.9 %	0.8 %	0.6 %	0.3 %	2.6 %	0.2 %	0.2 %

ICP DataTrace 4

9/26/2024 6:10:52 PM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 400 FE
Analysis started at: 9/26/2024 6:00:08 PM
Comments <Comment>
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0012 ppm	-0.0007 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 1	0.0004 ppm	0.0014 ppm	-0.0009 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 2	0.0002 ppm	0.0025 ppm	-0.0013 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0097 ppm
Concentration RSD	205.0 %	117.5 %	108.0 %	12.1 %	78.8 %	590.5 %	14.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0045 ppm	0.0477 ppm	-0.0118 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0015 ppm	0.0280 ppm	-0.0111 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0010 ppm	0.0060 ppm	0.0527 ppm	-0.0123 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0059 ppm	0.0625 ppm	-0.0120 ppm
Concentration RSD	64.4 %	106.6 %	317.4 %	18.1 %	57.7 %	37.2 %	5.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0000 ppm	392.3162 ppm	-0.0008 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 1	-0.0019 ppm	0.0002 ppm	0.0000 ppm	383.7754 ppm	-0.0007 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	0.0001 ppm	392.5745 ppm	-0.0010 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0015 ppm	0.0001 ppm	0.0000 ppm	400.5988 ppm	-0.0009 ppm	-0.0011 ppm	-0.0003 ppm
Concentration RSD	610.1 %	68.0 %	252.5 %	2.1 %	14.6 %	13.0 %	172.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	0.0049 ppm	-0.0006 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	-0.0013 ppm	0.0046 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 2	-0.0015 ppm	0.0045 ppm	-0.0008 ppm	0.0003 ppm	0.0000 ppm	-0.0007 ppm	-0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0057 ppm	-0.0007 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm
Concentration RSD	74.1 %	13.3 %	55.3 %	0.8 %	122.1 %	139.6 %	3.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	96.0904 %	86.6490 %	86.0328 %	93.5706 %	70.7546 %	85.4568 %
Concentration per Run 1	0.0002 ppm	96.7318 %	86.6750 %	85.5455 %	95.7501 %	70.5449 %	85.3185 %
Concentration per Run 2	0.0004 ppm	95.7931 %	86.4560 %	86.5097 %	92.8442 %	71.1961 %	85.7152 %
Concentration per Run 3	0.0003 ppm	95.7462 %	86.8159 %	86.0430 %	92.1174 %	70.5226 %	85.3366 %
Concentration RSD	35.1 %	0.6 %	0.2 %	0.6 %	2.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: Blank DMC Trace8
Analysis started at: 9/26/2024 11:42:15 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-6.4 %	-0.1 %	-0.6 %	0.3 %	0.5 %	-0.3 %	-0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.0 %	0.2 %	-0.3 %	0.0 %	-0.2 %	-2.7 %	-0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.4 %	0.4 %	0.2 %	0.5 %	0.1 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.6 %	0.1 %	0.3 %	1.1 %	-0.2 %	-0.2 %	-1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	2.8 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICAL
Analysis started at: 9/26/2024 11:46:29 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9997 ppm	25.0365 ppm	0.9938 ppm	0.9984 ppm	0.9991 ppm	0.9988 ppm	10.0040 ppm
Concentration per Run 2	1.0004 ppm	24.9456 ppm	1.0005 ppm	1.0001 ppm	0.9954 ppm	1.0075 ppm	10.0446 ppm
Concentration per Run 3	1.0000 ppm	25.0179 ppm	1.0057 ppm	1.0015 ppm	1.0056 ppm	0.9937 ppm	9.9515 ppm
Concentration RSD	0.0 %	0.2 %	0.6 %	0.2 %	0.5 %	0.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9981 ppm	0.9987 ppm	0.9967 ppm	1.0037 ppm	24.9919 ppm	35.2545 ppm	1.0065 ppm
Concentration per Run 2	1.0015 ppm	1.0017 ppm	0.9990 ppm	1.0031 ppm	24.9420 ppm	34.8007 ppm	0.9895 ppm
Concentration per Run 3	1.0003 ppm	0.9996 ppm	1.0043 ppm	0.9932 ppm	25.0661 ppm	34.9448 ppm	1.0040 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.6 %	0.2 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9914 ppm	1.0013 ppm	0.9941 ppm	24.9701 ppm	0.9982 ppm	0.9937 ppm	0.9998 ppm
Concentration per Run 2	10.0071 ppm	1.0006 ppm	0.9983 ppm	24.7588 ppm	0.9990 ppm	1.0007 ppm	1.0004 ppm
Concentration per Run 3	10.0015 ppm	0.9980 ppm	1.0075 ppm	25.2711 ppm	1.0029 ppm	1.0056 ppm	0.9998 ppm
Concentration RSD	0.1 %	0.2 %	0.7 %	1.0 %	0.3 %	0.6 %	0.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9964 ppm	10.0376 ppm	0.9943 ppm	0.9964 ppm	1.0016 ppm	0.9897 ppm	0.9986 ppm
Concentration per Run 2	0.9961 ppm	9.9945 ppm	0.9953 ppm	1.0091 ppm	0.9992 ppm	0.9986 ppm	1.0009 ppm
Concentration per Run 3	1.0076 ppm	9.9680 ppm	1.0103 ppm	0.9946 ppm	0.9993 ppm	1.0117 ppm	1.0005 ppm
Concentration RSD	0.7 %	0.4 %	0.9 %	0.8 %	0.1 %	1.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	94.3649 %	101.0618 %	91.8267 %	90.0982 %	99.1803 %	92.4836 %
Concentration per Run 1	0.9992 ppm	94.4276 %	101.1045 %	92.4295 %	90.1566 %	99.0605 %	92.8450 %
Concentration per Run 2	1.0009 ppm	94.4295 %	100.0096 %	91.8674 %	90.1698 %	98.3930 %	92.7012 %
Concentration per Run 3	0.9999 ppm	94.2377 %	102.0712 %	91.1833 %	89.9683 %	100.0875 %	91.9045 %
Concentration RSD	0.1 %	0.1 %	1.0 %	0.7 %	0.1 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICV
Analysis started at: 9/26/2024 11:53:31 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5046 ppm	0.4948 ppm	0.4841 ppm	0.4991 ppm	0.5090 ppm	0.5123 ppm	0.4972 ppm
Concentration per Run 1	0.5055 ppm	0.4962 ppm	0.4849 ppm	0.5016 ppm	0.5077 ppm	0.5151 ppm	0.4973 ppm
Concentration per Run 2	0.5045 ppm	0.4987 ppm	0.4793 ppm	0.5003 ppm	0.5098 ppm	0.5110 ppm	0.5017 ppm
Concentration per Run 3	0.5038 ppm	0.4896 ppm	0.4881 ppm	0.4955 ppm	0.5093 ppm	0.5108 ppm	0.4926 ppm
Recovery Percentage 1	100.914 %	98.967 %	96.821 %	99.828 %	101.791 %	102.460 %	99.447 %
Concentration RSD	0.2 %	1.0 %	0.9 %	0.6 %	0.2 %	0.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5122 ppm	0.5156 ppm	0.5009 ppm	0.4924 ppm	0.5166 ppm	5.2954 ppm	0.4990 ppm
Concentration per Run 1	0.5149 ppm	0.5176 ppm	0.5014 ppm	0.4934 ppm	0.5165 ppm	5.3080 ppm	0.4998 ppm
Concentration per Run 2	0.5119 ppm	0.5161 ppm	0.5007 ppm	0.4916 ppm	0.5172 ppm	5.3129 ppm	0.5011 ppm
Concentration per Run 3	0.5099 ppm	0.5130 ppm	0.5006 ppm	0.4922 ppm	0.5162 ppm	5.2651 ppm	0.4960 ppm
Recovery Percentage 1	102.448 %	103.112 %	100.179 %	98.481 %	103.320 %	105.907 %	99.797 %
Concentration RSD	0.5 %	0.5 %	0.1 %	0.2 %	0.1 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4967 ppm	0.5033 ppm	0.5106 ppm	10.2154 ppm	0.5136 ppm	0.4969 ppm	0.5084 ppm
Concentration per Run 1	0.4981 ppm	0.5029 ppm	0.5103 ppm	10.1752 ppm	0.5153 ppm	0.4964 ppm	0.5112 ppm
Concentration per Run 2	0.4957 ppm	0.5062 ppm	0.5100 ppm	10.2723 ppm	0.5138 ppm	0.4954 ppm	0.5090 ppm
Concentration per Run 3	0.4964 ppm	0.5009 ppm	0.5116 ppm	10.1986 ppm	0.5118 ppm	0.4990 ppm	0.5050 ppm
Recovery Percentage 1	99.344 %	100.667 %	102.123 %	102.154 %	102.730 %	99.384 %	101.672 %
Concentration RSD	0.2 %	0.5 %	0.2 %	0.5 %	0.3 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4912 ppm	5.6180 ppm	0.4893 ppm	0.4800 ppm	0.5042 ppm	0.4969 ppm	0.5015 ppm
Concentration per Run 1	0.4892 ppm	5.6226 ppm	0.4915 ppm	0.4809 ppm	0.5035 ppm	0.4973 ppm	0.5025 ppm
Concentration per Run 2	0.4891 ppm	5.6137 ppm	0.4884 ppm	0.4792 ppm	0.5015 ppm	0.4915 ppm	0.5006 ppm
Concentration per Run 3	0.4952 ppm	5.6177 ppm	0.4881 ppm	0.4798 ppm	0.5077 ppm	0.5020 ppm	0.5013 ppm
Recovery Percentage 1	98.233 %	107.010 %	97.863 %	95.993 %	100.847 %	99.390 %	100.293 %
Concentration RSD	0.7 %	0.1 %	0.4 %	0.2 %	0.6 %	1.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5120 ppm	94.1504 %	100.4991 %	93.9430 %	91.3223 %	99.1230 %	93.7414 %
Concentration per Run 1	0.5133 ppm	93.8815 %	99.5849 %	93.9396 %	91.4374 %	97.9762 %	93.6964 %
Concentration per Run 2	0.5122 ppm	94.1941 %	99.9869 %	94.0474 %	91.1602 %	98.8897 %	93.8881 %
Concentration per Run 3	0.5107 ppm	94.3757 %	101.9257 %	93.8421 %	91.3694 %	100.5030 %	93.6395 %
Recovery Percentage 1	102.409 %						
Concentration RSD	0.3 %	0.3 %	1.2 %	0.1 %	0.2 %	1.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICB
Analysis started at: 9/26/2024 11:57:33 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0048 ppm	-0.0004 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 1	-0.0001 ppm	0.0043 ppm	0.0018 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	0.0004 ppm	0.0104 ppm	-0.0003 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	-0.0027 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Recovery Percentage 1	2.655 %	4.807 %	-13.782 %	3.941 %	0.080 %	-0.303 %	4.791 %
Concentration RSD	121.1 %	112.2 %	535.8 %	68.1 %	1,134.9 %	150.6 %	40.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0035 ppm	-0.0013 ppm	0.0012 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0015 ppm	0.0036 ppm	-0.0011 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0039 ppm	-0.0169 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0032 ppm	0.0142 ppm	0.0017 ppm
Recovery Percentage 1	0.471 %	-0.419 %	2.246 %	14.030 %	7.072 %	-0.052 %	11.861 %
Concentration RSD	364.9 %	26.6 %	150.1 %	17.0 %	9.9 %	1,202.2 %	44.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0020 ppm	0.0014 ppm	0.0000 ppm	-0.0006 ppm	-0.0017 ppm
Concentration per Run 1	0.0015 ppm	0.0001 ppm	0.0021 ppm	0.0014 ppm	-0.0003 ppm	-0.0010 ppm	-0.0021 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0016 ppm	0.0054 ppm	0.0007 ppm	-0.0002 ppm	-0.0016 ppm
Concentration per Run 3	-0.0022 ppm	-0.0001 ppm	0.0023 ppm	-0.0026 ppm	-0.0005 ppm	-0.0005 ppm	-0.0015 ppm
Recovery Percentage 1	0.015 %	0.870 %	3.978 %	0.071 %	-0.094 %	-5.826 %	-3.482 %
Concentration RSD	13,176.6 %	140.2 %	19.7 %	281.1 %	2,599.9 %	66.8 %	18.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0023 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.0067 ppm	0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm
Recovery Percentage 1	-2.350 %	0.468 %	0.772 %	0.222 %	-0.333 %	-1.376 %	0.458 %
Concentration RSD	104.1 %	159.9 %	83.7 %	138.5 %	269.9 %	319.8 %	234.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	91.1480 %	99.1961 %	93.4773 %	92.5095 %	100.2867 %	94.8804 %
Concentration per Run 1	0.0005 ppm	89.7396 %	99.1402 %	93.7255 %	91.9899 %	100.1195 %	95.5926 %
Concentration per Run 2	0.0006 ppm	91.6026 %	98.8645 %	93.3255 %	92.9802 %	100.1373 %	94.8768 %
Concentration per Run 3	0.0005 ppm	92.1017 %	99.5837 %	93.3809 %	92.5583 %	100.6033 %	94.1717 %
Recovery Percentage 1	10.782 %						
Concentration RSD	8.7 %	1.4 %	0.4 %	0.2 %	0.5 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICV
Analysis started at: 9/26/2024 12:01:29 PM
Rack 0
Vial 10
Comment changed position

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5063 ppm	0.4912 ppm	0.4869 ppm	0.4974 ppm	0.5079 ppm	0.5108 ppm	0.4990 ppm
Concentration per Run 1	0.5077 ppm	0.4981 ppm	0.4860 ppm	0.4979 ppm	0.5095 ppm	0.5150 ppm	0.5019 ppm
Concentration per Run 2	0.5055 ppm	0.4887 ppm	0.4866 ppm	0.4984 ppm	0.5043 ppm	0.5104 ppm	0.4965 ppm
Concentration per Run 3	0.5057 ppm	0.4869 ppm	0.4881 ppm	0.4961 ppm	0.5099 ppm	0.5070 ppm	0.4986 ppm
Recovery Percentage 1	101.262 %	98.247 %	97.387 %	99.487 %	101.576 %	102.165 %	99.795 %
Concentration RSD	0.2 %	1.2 %	0.2 %	0.2 %	0.6 %	0.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5103 ppm	0.5134 ppm	0.4973 ppm	0.4886 ppm	0.5156 ppm	5.3231 ppm	0.5040 ppm
Concentration per Run 1	0.5148 ppm	0.5163 ppm	0.4991 ppm	0.4886 ppm	0.5178 ppm	5.3674 ppm	0.5073 ppm
Concentration per Run 2	0.5073 ppm	0.5114 ppm	0.4961 ppm	0.4877 ppm	0.5136 ppm	5.2753 ppm	0.4982 ppm
Concentration per Run 3	0.5089 ppm	0.5125 ppm	0.4968 ppm	0.4896 ppm	0.5155 ppm	5.3267 ppm	0.5064 ppm
Recovery Percentage 1	102.067 %	102.682 %	99.465 %	97.724 %	103.127 %	106.462 %	100.792 %
Concentration RSD	0.8 %	0.5 %	0.3 %	0.2 %	0.4 %	0.9 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4953 ppm	0.4994 ppm	0.5059 ppm	10.3397 ppm	0.5099 ppm	0.4938 ppm	0.5113 ppm
Concentration per Run 1	0.4987 ppm	0.5015 ppm	0.5053 ppm	10.4072 ppm	0.5091 ppm	0.4924 ppm	0.5121 ppm
Concentration per Run 2	0.4946 ppm	0.4972 ppm	0.5033 ppm	10.2828 ppm	0.5099 ppm	0.4915 ppm	0.5088 ppm
Concentration per Run 3	0.4925 ppm	0.4996 ppm	0.5092 ppm	10.3290 ppm	0.5106 ppm	0.4975 ppm	0.5130 ppm
Recovery Percentage 1	99.053 %	99.887 %	101.189 %	103.397 %	101.977 %	98.759 %	102.255 %
Concentration RSD	0.6 %	0.4 %	0.6 %	0.6 %	0.1 %	0.7 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4891 ppm	5.5919 ppm	0.4899 ppm	0.4834 ppm	0.5010 ppm	0.4891 ppm	0.4994 ppm
Concentration per Run 1	0.4869 ppm	5.5915 ppm	0.4933 ppm	0.4845 ppm	0.4984 ppm	0.4845 ppm	0.4995 ppm
Concentration per Run 2	0.4884 ppm	5.5721 ppm	0.4860 ppm	0.4828 ppm	0.4977 ppm	0.4897 ppm	0.4985 ppm
Concentration per Run 3	0.4919 ppm	5.6122 ppm	0.4905 ppm	0.4828 ppm	0.5068 ppm	0.4930 ppm	0.5003 ppm
Recovery Percentage 1	97.812 %	106.513 %	97.989 %	96.680 %	100.196 %	97.815 %	99.888 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.2 %	1.0 %	0.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5093 ppm	94.5113 %	102.0803 %	94.9276 %	90.9457 %	100.4425 %	94.3809 %
Concentration per Run 1	0.5115 ppm	93.4651 %	101.2324 %	95.1404 %	89.8395 %	99.9323 %	94.4388 %
Concentration per Run 2	0.5067 ppm	95.1017 %	103.0742 %	95.2923 %	91.3934 %	100.9397 %	94.6969 %
Concentration per Run 3	0.5097 ppm	94.9672 %	101.9342 %	94.3503 %	91.6043 %	100.4556 %	94.0071 %
Recovery Percentage 1	101.859 %						
Concentration RSD	0.5 %	1.0 %	0.9 %	0.5 %	1.1 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICB
Analysis started at: 9/26/2024 12:05:29 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0036 ppm	0.0013 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 1	0.0000 ppm	-0.0051 ppm	0.0027 ppm	0.0016 ppm	0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 2	0.0000 ppm	-0.0098 ppm	0.0006 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 3	0.0003 ppm	0.0040 ppm	0.0008 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Recovery Percentage 1	1.462 %	-3.600 %	44.489 %	4.362 %	0.601 %	0.664 %	5.216 %
Concentration RSD	209.2 %	194.5 %	87.3 %	26.4 %	132.4 %	143.5 %	54.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0025 ppm	-0.0042 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0013 ppm	0.0027 ppm	-0.0080 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0034 ppm	0.0015 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0015 ppm	-0.0060 ppm	0.0005 ppm
Recovery Percentage 1	1.207 %	-0.299 %	0.733 %	10.441 %	5.049 %	-0.167 %	8.753 %
Concentration RSD	63.8 %	538.8 %	148.7 %	17.2 %	37.0 %	119.4 %	46.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0000 ppm	0.0020 ppm	0.0020 ppm	0.0005 ppm	-0.0008 ppm	-0.0014 ppm
Concentration per Run 1	0.0006 ppm	-0.0001 ppm	0.0021 ppm	0.0054 ppm	0.0006 ppm	-0.0011 ppm	0.0004 ppm
Concentration per Run 2	-0.0011 ppm	0.0000 ppm	0.0018 ppm	-0.0014 ppm	0.0007 ppm	-0.0007 ppm	-0.0008 ppm
Concentration per Run 3	0.0012 ppm	0.0000 ppm	0.0022 ppm	0.0021 ppm	0.0001 ppm	-0.0005 ppm	-0.0038 ppm
Recovery Percentage 1	0.205 %	-0.296 %	4.062 %	0.101 %	1.877 %	-7.975 %	-2.769 %
Concentration RSD	578.2 %	281.6 %	11.7 %	168.5 %	64.8 %	36.4 %	155.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.0002 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0006 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0021 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	7.693 %	0.044 %	1.513 %	-0.287 %	0.079 %	-0.634 %	1.945 %
Concentration RSD	165.7 %	194.3 %	64.0 %	45.5 %	3,436.1 %	124.7 %	83.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	90.5733 %	99.3161 %	92.9477 %	91.7184 %	99.7186 %	94.4148 %
Concentration per Run 1	0.0006 ppm	88.5612 %	100.0973 %	92.9805 %	90.7321 %	100.6037 %	94.9327 %
Concentration per Run 2	0.0004 ppm	91.6283 %	98.4737 %	92.4519 %	92.3678 %	98.7589 %	93.8543 %
Concentration per Run 3	0.0007 ppm	91.5305 %	99.3772 %	93.4107 %	92.0551 %	99.7933 %	94.4575 %
Recovery Percentage 1	11.736 %						
Concentration RSD	28.2 %	1.9 %	0.8 %	0.5 %	0.9 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 12:09:26 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0052 ppm	0.1001 ppm	0.0045 ppm	0.0316 ppm	0.0102 ppm	0.0050 ppm	0.0996 ppm
Concentration per Run 1	0.0052 ppm	0.1011 ppm	0.0054 ppm	0.0326 ppm	0.0102 ppm	0.0050 ppm	0.1004 ppm
Concentration per Run 2	0.0053 ppm	0.0990 ppm	0.0045 ppm	0.0307 ppm	0.0102 ppm	0.0050 ppm	0.0995 ppm
Concentration per Run 3	0.0052 ppm	0.1002 ppm	0.0035 ppm	0.0317 ppm	0.0101 ppm	0.0050 ppm	0.0989 ppm
Recovery Percentage 1	104.552 %	100.081 %	89.781 %	105.457 %	101.517 %	100.070 %	99.593 %
Concentration RSD	1.4 %	1.0 %	21.0 %	3.0 %	0.4 %	0.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0205 ppm	0.0099 ppm	0.0115 ppm	0.0526 ppm	2.7002 ppm	0.0101 ppm
Concentration per Run 1	0.0042 ppm	0.0207 ppm	0.0096 ppm	0.0113 ppm	0.0525 ppm	2.7349 ppm	0.0101 ppm
Concentration per Run 2	0.0042 ppm	0.0201 ppm	0.0100 ppm	0.0115 ppm	0.0532 ppm	2.6937 ppm	0.0103 ppm
Concentration per Run 3	0.0042 ppm	0.0206 ppm	0.0100 ppm	0.0116 ppm	0.0522 ppm	2.6721 ppm	0.0098 ppm
Recovery Percentage 1	105.185 %	102.334 %	98.819 %	114.643 %	105.231 %	108.009 %	100.652 %
Concentration RSD	0.8 %	1.5 %	2.1 %	1.5 %	1.1 %	1.2 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1017 ppm	0.0104 ppm	0.0530 ppm	2.0988 ppm	0.0205 ppm	0.0094 ppm	0.0499 ppm
Concentration per Run 1	0.1026 ppm	0.0105 ppm	0.0530 ppm	2.1096 ppm	0.0211 ppm	0.0098 ppm	0.0487 ppm
Concentration per Run 2	0.0999 ppm	0.0106 ppm	0.0523 ppm	2.0954 ppm	0.0201 ppm	0.0090 ppm	0.0492 ppm
Concentration per Run 3	0.1027 ppm	0.0102 ppm	0.0536 ppm	2.0914 ppm	0.0204 ppm	0.0094 ppm	0.0518 ppm
Recovery Percentage 1	101.734 %	104.443 %	105.926 %	104.940 %	82.100 %	94.182 %	99.802 %
Concentration RSD	1.5 %	1.9 %	1.2 %	0.5 %	2.5 %	4.2 %	3.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0102 ppm	0.5382 ppm	0.0503 ppm	0.0097 ppm	0.0516 ppm	0.0192 ppm	0.0103 ppm
Concentration per Run 1	0.0097 ppm	0.5399 ppm	0.0516 ppm	0.0096 ppm	0.0520 ppm	0.0189 ppm	0.0104 ppm
Concentration per Run 2	0.0087 ppm	0.5382 ppm	0.0484 ppm	0.0097 ppm	0.0513 ppm	0.0187 ppm	0.0102 ppm
Concentration per Run 3	0.0123 ppm	0.5366 ppm	0.0510 ppm	0.0097 ppm	0.0516 ppm	0.0199 ppm	0.0102 ppm
Recovery Percentage 1	102.240 %	107.648 %	100.679 %	96.716 %	103.275 %	96.009 %	102.957 %
Concentration RSD	18.0 %	0.3 %	3.3 %	0.4 %	0.7 %	3.4 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	93.1924 %	101.1818 %	94.4266 %	91.8018 %	99.9612 %	94.4713 %
Concentration per Run 1	0.0054 ppm	92.5222 %	100.2488 %	94.2720 %	91.6475 %	99.3715 %	94.7799 %
Concentration per Run 2	0.0054 ppm	94.0269 %	101.6979 %	94.0395 %	92.6010 %	100.3689 %	94.1114 %
Concentration per Run 3	0.0053 ppm	93.0282 %	101.5987 %	94.9684 %	91.1568 %	100.1431 %	94.5225 %
Recovery Percentage 1	107.355 %						
Concentration RSD	1.0 %	0.8 %	0.8 %	0.5 %	0.8 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR (ICSA)
Analysis started at: 9/26/2024 12:13:22 PM
Rack 0
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	494.7391 ppm	-0.0015 ppm	0.0047 ppm	0.0016 ppm	0.0001 ppm	538.8233 ppm
Concentration per Run 1	0.0007 ppm	493.8247 ppm	0.0012 ppm	0.0049 ppm	0.0016 ppm	0.0001 ppm	539.7826 ppm
Concentration per Run 2	0.0004 ppm	493.5129 ppm	-0.0032 ppm	0.0050 ppm	0.0015 ppm	0.0001 ppm	537.3985 ppm
Concentration per Run 3	0.0003 ppm	496.8796 ppm	-0.0026 ppm	0.0042 ppm	0.0016 ppm	0.0000 ppm	539.2889 ppm
Concentration RSD	48.8 %	0.4 %	154.5 %	10.0 %	3.1 %	40.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	-0.0008 ppm	-0.0016 ppm	180.8564 ppm	0.0183 ppm	0.0013 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0005 ppm	-0.0016 ppm	180.5780 ppm	0.0056 ppm	0.0022 ppm
Concentration per Run 2	-0.0003 ppm	-0.0007 ppm	-0.0009 ppm	-0.0014 ppm	180.5359 ppm	0.0268 ppm	0.0009 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	-0.0009 ppm	-0.0018 ppm	181.4552 ppm	0.0225 ppm	0.0009 ppm
Concentration RSD	139.4 %	85.5 %	27.1 %	10.9 %	0.3 %	61.3 %	55.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	469.4071 ppm	0.0016 ppm	-0.0001 ppm	0.0267 ppm	0.0001 ppm	-0.0195 ppm	-0.0057 ppm
Concentration per Run 1	468.1318 ppm	0.0017 ppm	-0.0005 ppm	0.0292 ppm	-0.0002 ppm	-0.0165 ppm	-0.0088 ppm
Concentration per Run 2	469.9048 ppm	0.0015 ppm	-0.0001 ppm	0.0245 ppm	0.0000 ppm	-0.0196 ppm	-0.0057 ppm
Concentration per Run 3	470.1848 ppm	0.0016 ppm	0.0004 ppm	0.0265 ppm	0.0003 ppm	-0.0224 ppm	-0.0025 ppm
Concentration RSD	0.2 %	6.9 %	601.1 %	8.8 %	433.9 %	15.1 %	55.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0047 ppm	-0.0076 ppm	-0.0005 ppm	-0.0001 ppm	-0.0004 ppm	0.0022 ppm	0.0000 ppm
Concentration per Run 1	-0.0067 ppm	-0.0083 ppm	-0.0017 ppm	-0.0001 ppm	-0.0003 ppm	0.0020 ppm	0.0001 ppm
Concentration per Run 2	-0.0006 ppm	-0.0088 ppm	0.0007 ppm	-0.0001 ppm	-0.0004 ppm	0.0016 ppm	-0.0002 ppm
Concentration per Run 3	-0.0069 ppm	-0.0058 ppm	-0.0003 ppm	-0.0002 ppm	-0.0004 ppm	0.0029 ppm	0.0001 ppm
Concentration RSD	75.7 %	20.9 %	271.2 %	42.2 %	21.7 %	31.1 %	8,263.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	86.9296 %	95.8465 %	77.3844 %	82.8019 %	95.2651 %	82.7513 %
Concentration per Run 1	0.0001 ppm	87.2461 %	94.4263 %	77.6337 %	83.0833 %	93.8253 %	82.9934 %
Concentration per Run 2	0.0004 ppm	86.6605 %	96.8616 %	77.4587 %	82.3872 %	96.2303 %	82.5380 %
Concentration per Run 3	0.0002 ppm	86.8822 %	96.2515 %	77.0607 %	82.9351 %	95.7397 %	82.7224 %
Concentration RSD	66.8 %	0.3 %	1.3 %	0.4 %	0.4 %	1.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR (SIC Multi)
Analysis started at: 9/26/2024 12:19:13 PM
Rack 0
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0199 ppm	0.0002 ppm	0.0096 ppm	0.0004 ppm	-0.0006 ppm	0.0052 ppm
Concentration per Run 1	-0.0004 ppm	0.0230 ppm	0.0006 ppm	0.0101 ppm	0.0004 ppm	-0.0004 ppm	0.0040 ppm
Concentration per Run 2	-0.0007 ppm	0.0193 ppm	0.0019 ppm	0.0097 ppm	0.0006 ppm	-0.0005 ppm	0.0057 ppm
Concentration per Run 3	-0.0005 ppm	0.0174 ppm	-0.0017 ppm	0.0090 ppm	0.0002 ppm	-0.0008 ppm	0.0058 ppm
Concentration RSD	27.4 %	14.5 %	736.3 %	5.8 %	42.1 %	38.7 %	19.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0034 ppm	19.3679 ppm	-0.0016 ppm	0.0151 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0026 ppm	19.3036 ppm	-0.0015 ppm	0.0159 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0041 ppm	19.3521 ppm	-0.0019 ppm	0.0146 ppm	-0.0033 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	-0.0034 ppm	19.4481 ppm	-0.0013 ppm	0.0148 ppm	0.0076 ppm	-0.0003 ppm
Concentration RSD	145.1 %	23.0 %	0.4 %	18.4 %	4.4 %	503.3 %	1,924.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	20.5620 [SIC 100]	0.0008 ppm	0.0084 ppm	0.0004 ppm	-0.0026 ppm	-0.0056 ppm
Concentration per Run 1	-0.0003 ppm	20.5782 ppm	0.0006 ppm	0.0082 ppm	0.0003 ppm	-0.0022 ppm	-0.0032 ppm
Concentration per Run 2	-0.0004 ppm	20.5390 ppm	0.0010 ppm	0.0050 ppm	0.0004 ppm	-0.0019 ppm	-0.0088 ppm
Concentration per Run 3	-0.0011 ppm	20.5687 ppm	0.0009 ppm	0.0118 ppm	0.0005 ppm	-0.0036 ppm	-0.0048 ppm
Concentration RSD	71.0 %	0.1 %	20.5 %	40.6 %	35.1 %	34.4 %	50.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.3413 ppm	-0.0016 ppm	0.0000 ppm	19.4361 ppm	-0.0116 ppm	9.8609 ppm
Concentration per Run 1	-0.0002 ppm	0.3024 ppm	-0.0020 ppm	-0.0001 ppm	19.2712 ppm	-0.0168 ppm	9.8110 ppm
Concentration per Run 2	-0.0015 ppm	0.3415 ppm	-0.0010 ppm	0.0000 ppm	19.5948 ppm	-0.0105 ppm	9.8635 ppm
Concentration per Run 3	0.0005 ppm	0.3799 ppm	-0.0018 ppm	0.0001 ppm	19.4423 ppm	-0.0075 ppm	9.9083 ppm
Concentration RSD	253.1 %	11.3 %	31.8 %	696.8 %	0.8 %	40.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	101.9551 %	101.9439 %	79.1549 %	98.9237 %	100.5073 %	98.3254 %
Concentration per Run 1	0.0000 ppm	101.7673 %	101.0216 %	79.1448 %	98.5967 %	99.9591 %	98.3100 %
Concentration per Run 2	0.0001 ppm	102.2563 %	102.4756 %	79.5080 %	99.2047 %	100.9877 %	98.3359 %
Concentration per Run 3	0.0002 ppm	101.8415 %	102.3346 %	78.8120 %	98.9699 %	100.5750 %	98.3302 %
Concentration RSD	91.2 %	0.3 %	0.8 %	0.4 %	0.3 %	0.5 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR Check
Analysis started at: 9/26/2024 12:23:30 PM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0030 ppm	-0.0008 ppm	21.6745 ppm	24.8285 [SIC 20]	19.8667 ppm	5.0070 ppm	0.0390 ppm
Concentration per Run 1	0.0029 ppm	0.0020 ppm	21.4307 ppm	24.6521 ppm	19.9376 ppm	5.0143 ppm	0.0381 ppm
Concentration per Run 2	0.0031 ppm	-0.0032 ppm	21.8475 ppm	24.8518 ppm	19.8952 ppm	5.0220 ppm	0.0408 ppm
Concentration per Run 3	0.0030 ppm	-0.0011 ppm	21.7453 ppm	24.9816 ppm	19.7672 ppm	4.9845 ppm	0.0383 ppm
Recovery Percentage 1			108.373 %	124.143 %	99.333 %		0.000 %
Concentration RSD	3.5 %	325.6 %	1.0 %	0.7 %	0.4 %	0.4 %	3.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.8216 ppm	4.9355 ppm	0.0011 ppm	19.8400 ppm	0.0114 ppm	520.2727 ppm	19.0440 ppm
Concentration per Run 1	4.8309 ppm	4.9315 ppm	0.0013 ppm	19.7709 ppm	0.0110 ppm	521.8433 ppm	19.1769 ppm
Concentration per Run 2	4.8194 ppm	4.9326 ppm	0.0011 ppm	19.8333 ppm	0.0125 ppm	521.1136 ppm	19.1244 ppm
Concentration per Run 3	4.8147 ppm	4.9426 ppm	0.0010 ppm	19.9158 ppm	0.0106 ppm	517.8611 ppm	18.8307 ppm
Recovery Percentage 1	96.433 %	98.711 %		99.200 %	0.000 %	104.055 %	95.220 %
Concentration RSD	0.2 %	0.1 %	14.6 %	0.4 %	8.8 %	0.4 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0059 ppm	0.0011 ppm	4.8493 ppm	467.4511 ppm	9.6238 ppm	49.9652 ppm	5.0554 ppm
Concentration per Run 1	-0.0050 ppm	0.0010 ppm	4.7767 ppm	468.7426 ppm	9.6244 ppm	49.8576 ppm	4.9903 ppm
Concentration per Run 2	-0.0061 ppm	0.0012 ppm	4.8582 ppm	465.0569 ppm	9.6495 ppm	49.9660 ppm	5.0670 ppm
Concentration per Run 3	-0.0067 ppm	0.0010 ppm	4.9128 ppm	468.5539 ppm	9.5975 ppm	50.0719 ppm	5.1089 ppm
Recovery Percentage 1		0.000 %	96.985 %	93.490 %	96.238 %	99.930 %	101.108 %
Concentration RSD	14.6 %	10.2 %	1.4 %	0.4 %	0.3 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.1622 [SIC 20]	21.7092 [SIC 100]	9.5838 ppm	4.7660 ppm	0.0130 ppm	4.9616 ppm	0.0030 ppm
Concentration per Run 1	5.1264 ppm	21.5553 ppm	9.5831 ppm	4.7728 ppm	0.0135 ppm	4.9389 ppm	0.0028 ppm
Concentration per Run 2	5.1859 ppm	21.7094 ppm	9.6287 ppm	4.7714 ppm	0.0127 ppm	4.9865 ppm	0.0032 ppm
Concentration per Run 3	5.1745 ppm	21.8630 ppm	9.5396 ppm	4.7537 ppm	0.0127 ppm	4.9594 ppm	0.0030 ppm
Recovery Percentage 1	103.245 %	108.546 %	95.838 %	95.319 %	0.000 %	99.232 %	0.000 %
Concentration RSD	0.6 %	0.7 %	0.5 %	0.2 %	3.4 %	0.5 %	5.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.9908 ppm	89.0773 %	99.8763 %	83.8115 %	84.6521 %	97.5374 %	84.5268 %
Concentration per Run 1	19.0725 ppm	88.4042 %	99.8782 %	84.0543 %	83.6052 %	97.7208 %	84.7278 %
Concentration per Run 2	18.9852 ppm	89.1038 %	99.5534 %	83.5521 %	84.6990 %	97.1662 %	84.4164 %
Concentration per Run 3	18.9147 ppm	89.7239 %	100.1973 %	83.8282 %	85.6522 %	97.7252 %	84.4361 %
Recovery Percentage 1	94.954 %						
Concentration RSD	0.4 %	0.7 %	0.3 %	0.3 %	1.2 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR 1000 Ca
Analysis started at: 9/26/2024 12:29:42 PM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0256 ppm	-0.0004 ppm	0.0108 ppm	0.0010 ppm	0.0000 ppm	919.7770 ppm
Concentration per Run 1	0.0000 ppm	0.0341 ppm	-0.0016 ppm	0.0121 ppm	0.0011 ppm	0.0000 ppm	914.7792 ppm
Concentration per Run 2	-0.0003 ppm	0.0271 ppm	-0.0004 ppm	0.0103 ppm	0.0011 ppm	0.0000 ppm	921.7770 ppm
Concentration per Run 3	-0.0004 ppm	0.0157 ppm	0.0008 ppm	0.0101 ppm	0.0009 ppm	0.0000 ppm	922.7747 ppm
Concentration RSD	109.9 %	36.3 %	296.8 %	10.3 %	9.9 %	1,787.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0020 ppm	0.0050 ppm	0.2172 ppm	-0.0004 ppm
Concentration per Run 1	0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0022 ppm	0.0049 ppm	0.2024 ppm	-0.0004 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0018 ppm	0.0051 ppm	0.2384 ppm	-0.0006 ppm
Concentration per Run 3	0.0003 ppm	0.0006 ppm	0.0003 ppm	0.0020 ppm	0.0051 ppm	0.2109 ppm	-0.0001 ppm
Concentration RSD	22.9 %	277.1 %	82.9 %	8.6 %	2.5 %	8.6 %	72.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0135 ppm	0.0005 ppm	0.0086 ppm	0.0474 ppm	0.0009 ppm	0.0011 ppm	0.0088 ppm
Concentration per Run 1	0.0134 ppm	0.0004 ppm	0.0086 ppm	0.0436 ppm	0.0010 ppm	0.0015 ppm	0.0089 ppm
Concentration per Run 2	0.0135 ppm	0.0006 ppm	0.0087 ppm	0.0472 ppm	0.0006 ppm	0.0006 ppm	0.0099 ppm
Concentration per Run 3	0.0135 ppm	0.0004 ppm	0.0084 ppm	0.0514 ppm	0.0011 ppm	0.0013 ppm	0.0077 ppm
Concentration RSD	0.5 %	17.2 %	1.6 %	8.2 %	28.2 %	44.4 %	12.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.0165 ppm	0.0011 ppm	-0.0006 ppm	-0.0007 ppm	-0.0009 ppm	0.0007 ppm
Concentration per Run 1	0.0036 ppm	0.0193 ppm	0.0021 ppm	-0.0005 ppm	-0.0007 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 2	0.0033 ppm	0.0128 ppm	0.0008 ppm	-0.0006 ppm	-0.0011 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0007 ppm	0.0173 ppm	0.0005 ppm	-0.0006 ppm	-0.0005 ppm	-0.0020 ppm	0.0007 ppm
Concentration RSD	114.1 %	20.0 %	73.1 %	17.4 %	42.2 %	114.1 %	3.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0024 ppm	87.8339 %	97.2167 %	81.4685 %	85.1210 %	96.1168 %	84.7781 %
Concentration per Run 1	0.0025 ppm	87.7354 %	97.9829 %	81.5777 %	85.0671 %	96.6660 %	84.5140 %
Concentration per Run 2	0.0023 ppm	87.4374 %	97.4951 %	81.3754 %	84.7932 %	96.6843 %	84.8132 %
Concentration per Run 3	0.0023 ppm	88.3289 %	96.1721 %	81.4524 %	85.5026 %	95.0003 %	85.0072 %
Concentration RSD	4.6 %	0.5 %	1.0 %	0.1 %	0.4 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR 500 Fe
Analysis started at: 9/26/2024 12:33:44 PM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0478 ppm	-0.0004 ppm	0.0039 ppm	0.0004 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 1	0.0001 ppm	0.0459 ppm	0.0004 ppm	0.0043 ppm	0.0004 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 2	-0.0005 ppm	0.0493 ppm	-0.0014 ppm	0.0034 ppm	0.0004 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 3	0.0000 ppm	0.0483 ppm	-0.0003 ppm	0.0040 ppm	0.0004 ppm	0.0000 ppm	0.0088 ppm
Concentration RSD	252.8 %	3.6 %	214.9 %	12.6 %	8.3 %	27.8 %	12.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0019 ppm	-0.0023 ppm	-0.0044 ppm	448.1524 ppm	-0.0105 ppm	0.0010 ppm
Concentration per Run 1	0.0003 ppm	-0.0021 ppm	-0.0023 ppm	-0.0036 ppm	448.0200 ppm	-0.0060 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	-0.0022 ppm	-0.0021 ppm	-0.0052 ppm	450.9832 ppm	-0.0371 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	-0.0013 ppm	-0.0026 ppm	-0.0045 ppm	445.4538 ppm	0.0116 ppm	0.0012 ppm
Concentration RSD	239.2 %	25.7 %	10.6 %	18.2 %	0.6 %	234.4 %	56.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0161 ppm	0.0004 ppm	-0.0005 ppm	0.0233 ppm	-0.0015 ppm	-0.0002 ppm	0.0105 ppm
Concentration per Run 1	0.0155 ppm	0.0003 ppm	-0.0004 ppm	0.0260 ppm	-0.0009 ppm	0.0002 ppm	0.0103 ppm
Concentration per Run 2	0.0161 ppm	0.0005 ppm	-0.0007 ppm	0.0212 ppm	-0.0015 ppm	-0.0007 ppm	0.0119 ppm
Concentration per Run 3	0.0166 ppm	0.0003 ppm	-0.0005 ppm	0.0228 ppm	-0.0022 ppm	-0.0001 ppm	0.0092 ppm
Concentration RSD	3.3 %	34.8 %	33.3 %	10.6 %	41.5 %	247.5 %	13.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0021 ppm	0.0021 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 1	0.0012 ppm	0.0015 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0019 ppm	0.0033 ppm	0.0029 ppm	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 3	-0.0002 ppm	0.0014 ppm	0.0022 ppm	0.0002 ppm	-0.0001 ppm	-0.0006 ppm	0.0003 ppm
Concentration RSD	106.9 %	51.1 %	42.1 %	7.5 %	397.1 %	181.5 %	141.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	95.6250 %	102.8851 %	89.0647 %	91.1482 %	101.6360 %	93.5283 %
Concentration per Run 1	-0.0008 ppm	95.1211 %	102.9994 %	88.8080 %	90.5695 %	101.7931 %	93.0140 %
Concentration per Run 2	-0.0006 ppm	95.9572 %	102.4935 %	89.0264 %	91.3599 %	101.3263 %	93.7778 %
Concentration per Run 3	-0.0007 ppm	95.7967 %	103.1624 %	89.3597 %	91.5152 %	101.7886 %	93.7932 %
Concentration RSD	9.8 %	0.5 %	0.3 %	0.3 %	0.6 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR 20 B
Analysis started at: 9/26/2024 12:37:41 PM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0035 ppm	0.0008 ppm	20.5601 [SIC 20]	0.0000 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 1	0.0003 ppm	0.0039 ppm	0.0004 ppm	20.8587 ppm	0.0000 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 2	0.0000 ppm	0.0031 ppm	0.0016 ppm	20.4995 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 3	0.0002 ppm	0.0034 ppm	0.0002 ppm	20.3221 ppm	0.0000 ppm	0.0000 ppm	0.0054 ppm
Concentration RSD	99.7 %	11.7 %	98.1 %	1.3 %	4,531.0 %	210.4 %	31.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0153 ppm	0.0386 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0013 ppm	0.0158 ppm	0.0571 ppm	0.0014 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0011 ppm	0.0141 ppm	0.0186 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0012 ppm	0.0160 ppm	0.0400 ppm	0.0026 ppm
Concentration RSD	189.7 %	30.7 %	57.9 %	10.6 %	7.0 %	50.1 %	55.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0016 ppm	0.0001 ppm	0.0012 ppm	0.0121 ppm	0.0002 ppm	-0.0004 ppm	0.0020 ppm
Concentration per Run 1	0.0011 ppm	0.0000 ppm	0.0010 ppm	0.0112 ppm	0.0002 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 2	0.0014 ppm	0.0002 ppm	0.0012 ppm	0.0094 ppm	0.0007 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 3	0.0024 ppm	0.0001 ppm	0.0012 ppm	0.0158 ppm	-0.0004 ppm	-0.0006 ppm	0.0027 ppm
Concentration RSD	42.2 %	130.9 %	8.8 %	27.3 %	287.7 %	95.7 %	35.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0016 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0006 ppm	0.0022 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	-0.0009 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0010 ppm	-0.0003 ppm
Concentration RSD	571.1 %	172.9 %	82.6 %	509.3 %	28.1 %	103.0 %	279.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	93.8445 %	102.1922 %	94.4893 %	93.1823 %	101.5024 %	95.2028 %
Concentration per Run 1	0.0006 ppm	92.9220 %	102.6491 %	93.9006 %	93.0352 %	101.7649 %	94.6161 %
Concentration per Run 2	0.0004 ppm	93.7521 %	102.1805 %	94.4103 %	92.8319 %	101.5744 %	94.8238 %
Concentration per Run 3	0.0001 ppm	94.8593 %	101.7471 %	95.1570 %	93.6799 %	101.1680 %	96.1686 %
Concentration RSD	72.1 %	1.0 %	0.4 %	0.7 %	0.5 %	0.3 %	0.9 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 12:41:38 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4971 ppm	0.4839 ppm	0.4811 ppm	0.5085 ppm	0.5097 ppm	0.5067 ppm	0.4920 ppm
Concentration per Run 1	0.4993 ppm	0.4809 ppm	0.4828 ppm	0.5170 ppm	0.5090 ppm	0.5031 ppm	0.4892 ppm
Concentration per Run 2	0.4963 ppm	0.4777 ppm	0.4777 ppm	0.5063 ppm	0.5084 ppm	0.5081 ppm	0.4939 ppm
Concentration per Run 3	0.4955 ppm	0.4931 ppm	0.4830 ppm	0.5021 ppm	0.5117 ppm	0.5087 ppm	0.4928 ppm
Recovery Percentage 1	99.411 %	96.778 %	96.230 %	101.694 %	101.945 %	101.335 %	98.392 %
Concentration RSD	0.4 %	1.7 %	0.6 %	1.5 %	0.3 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4972 ppm	0.5025 ppm	0.4891 ppm	0.4859 ppm	0.5134 ppm	5.3450 ppm	0.5033 ppm
Concentration per Run 1	0.5007 ppm	0.5064 ppm	0.4909 ppm	0.4903 ppm	0.5143 ppm	5.3558 ppm	0.5040 ppm
Concentration per Run 2	0.4955 ppm	0.5017 ppm	0.4874 ppm	0.4862 ppm	0.5094 ppm	5.3121 ppm	0.4979 ppm
Concentration per Run 3	0.4955 ppm	0.4995 ppm	0.4889 ppm	0.4813 ppm	0.5164 ppm	5.3671 ppm	0.5079 ppm
Recovery Percentage 1	99.446 %	100.505 %	97.819 %	97.187 %	102.673 %	106.900 %	100.654 %
Concentration RSD	0.6 %	0.7 %	0.4 %	0.9 %	0.7 %	0.5 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4837 ppm	0.4963 ppm	0.4967 ppm	10.1482 ppm	0.5010 ppm	0.4911 ppm	0.4987 ppm
Concentration per Run 1	0.4835 ppm	0.4960 ppm	0.4974 ppm	10.1590 ppm	0.5046 ppm	0.4902 ppm	0.5059 ppm
Concentration per Run 2	0.4852 ppm	0.4946 ppm	0.4960 ppm	10.0969 ppm	0.4988 ppm	0.4913 ppm	0.4971 ppm
Concentration per Run 3	0.4824 ppm	0.4982 ppm	0.4967 ppm	10.1888 ppm	0.4995 ppm	0.4918 ppm	0.4931 ppm
Recovery Percentage 1	96.742 %	99.251 %	99.340 %	101.482 %	100.193 %	98.221 %	99.736 %
Concentration RSD	0.3 %	0.4 %	0.1 %	0.5 %	0.6 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4885 ppm	5.5103 ppm	0.4769 ppm	0.4755 ppm	0.4986 ppm	0.4891 ppm	0.4920 ppm
Concentration per Run 1	0.4867 ppm	5.5345 ppm	0.4795 ppm	0.4723 ppm	0.4950 ppm	0.4880 ppm	0.4936 ppm
Concentration per Run 2	0.4859 ppm	5.5001 ppm	0.4743 ppm	0.4800 ppm	0.5004 ppm	0.4855 ppm	0.4924 ppm
Concentration per Run 3	0.4930 ppm	5.4964 ppm	0.4769 ppm	0.4741 ppm	0.5004 ppm	0.4939 ppm	0.4900 ppm
Recovery Percentage 1	97.702 %	104.958 %	95.376 %	95.093 %	99.722 %	97.825 %	98.395 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.8 %	0.6 %	0.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4970 ppm	96.8478 %	102.9433 %	95.2943 %	93.4942 %	101.2565 %	94.8491 %
Concentration per Run 1	0.5017 ppm	96.5124 %	103.1659 %	95.9317 %	93.5027 %	101.6852 %	95.5756 %
Concentration per Run 2	0.4940 ppm	96.6635 %	103.5088 %	95.0663 %	92.9946 %	101.7290 %	94.4775 %
Concentration per Run 3	0.4953 ppm	97.3676 %	102.1552 %	94.8848 %	93.9854 %	100.3553 %	94.4943 %
Recovery Percentage 1	99.397 %						
Concentration RSD	0.8 %	0.5 %	0.7 %	0.6 %	0.5 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 12:45:34 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0042 ppm	0.0007 ppm	0.0060 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0019 ppm	0.0068 ppm	0.0000 ppm	0.0000 ppm	0.0080 ppm
Concentration per Run 2	0.0001 ppm	0.0066 ppm	0.0013 ppm	0.0061 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	0.0004 ppm	0.0060 ppm	-0.0012 ppm	0.0053 ppm	-0.0002 ppm	0.0000 ppm	0.0093 ppm
Recovery Percentage 1	4.316 %	4.165 %	22.878 %	20.163 %	-0.425 %	0.019 %	6.422 %
Concentration RSD	61.8 %	88.2 %	242.3 %	11.7 %	225.0 %	5,804.6 %	60.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0038 ppm	0.0210 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0016 ppm	0.0053 ppm	0.0123 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0025 ppm	0.0303 ppm	0.0014 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0014 ppm	0.0035 ppm	0.0204 ppm	-0.0012 ppm
Recovery Percentage 1	1.116 %	0.076 %	-1.411 %	12.897 %	7.578 %	0.839 %	1.783 %
Concentration RSD	105.2 %	802.6 %	71.7 %	31.6 %	36.3 %	42.9 %	729.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0019 ppm	0.0115 ppm	0.0006 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0020 ppm	0.0124 ppm	0.0001 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 2	-0.0011 ppm	0.0000 ppm	0.0019 ppm	0.0067 ppm	0.0011 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0152 ppm	0.0004 ppm	-0.0001 ppm	0.0019 ppm
Recovery Percentage 1	-0.339 %	0.230 %	3.835 %	0.573 %	2.214 %	-1.221 %	0.333 %
Concentration RSD	213.3 %	233.5 %	2.3 %	37.9 %	89.6 %	54.4 %	893.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0016 ppm	0.0027 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	-0.0006 ppm	0.0008 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0023 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	10.650 %	0.260 %	0.444 %	0.076 %	-0.105 %	-0.294 %	2.132 %
Concentration RSD	143.0 %	95.0 %	266.7 %	645.2 %	303.9 %	229.7 %	21.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	90.4876 %	99.2203 %	92.7079 %	91.4897 %	99.4165 %	94.0766 %
Concentration per Run 1	0.0010 ppm	88.9070 %	99.0425 %	92.7902 %	90.8134 %	99.5073 %	94.2999 %
Concentration per Run 2	0.0007 ppm	91.1401 %	99.0641 %	92.5607 %	91.8265 %	98.9388 %	93.8033 %
Concentration per Run 3	0.0007 ppm	91.4157 %	99.5544 %	92.7727 %	91.8291 %	99.8033 %	94.1267 %
Recovery Percentage 1	16.115 %						
Concentration RSD	20.0 %	1.5 %	0.3 %	0.1 %	0.6 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-1 WG1976465
Analysis started at: 9/26/2024 12:52:19 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0040 ppm	-0.0002 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 1	0.0003 ppm	0.0108 ppm	0.0002 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 2	0.0005 ppm	0.0008 ppm	-0.0010 ppm	0.0026 ppm	0.0002 ppm	0.0000 ppm	0.0133 ppm
Concentration per Run 3	0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0108 ppm
Recovery Percentage 1	5.149 %	4.038 %	-5.493 %	6.629 %	1.039 %	-0.596 %	12.055 %
Concentration RSD	26.3 %	144.2 %	440.8 %	27.8 %	97.3 %	79.6 %	10.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0012 ppm	0.0216 ppm	0.0225 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0218 ppm	0.0178 ppm	0.0030 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0006 ppm	0.0012 ppm	0.0208 ppm	0.0180 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0222 ppm	0.0316 ppm	-0.0001 ppm
Recovery Percentage 1	1.596 %	-0.349 %	4.523 %	11.976 %	43.193 %	0.899 %	10.275 %
Concentration RSD	93.3 %	419.1 %	31.3 %	2.7 %	3.3 %	35.2 %	163.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0036 ppm	0.0003 ppm	0.0003 ppm	0.0113 ppm	0.0003 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.0045 ppm	0.0003 ppm	0.0003 ppm	0.0118 ppm	0.0006 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 2	0.0037 ppm	0.0003 ppm	0.0002 ppm	0.0113 ppm	0.0009 ppm	-0.0004 ppm	0.0017 ppm
Concentration per Run 3	0.0028 ppm	0.0002 ppm	0.0004 ppm	0.0109 ppm	-0.0005 ppm	-0.0007 ppm	-0.0003 ppm
Recovery Percentage 1	3.645 %	2.968 %	0.635 %	0.566 %	1.343 %	-5.129 %	0.664 %
Concentration RSD	23.7 %	18.3 %	36.7 %	4.2 %	224.0 %	39.3 %	360.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0058 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0079 ppm	0.0008 ppm	0.0000 ppm	0.0006 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0037 ppm	0.0009 ppm	0.0000 ppm	0.0005 ppm	-0.0018 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	0.0059 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm
Recovery Percentage 1	3.987 %	1.164 %	1.004 %	-0.279 %	6.381 %	-5.255 %	-0.290 %
Concentration RSD	218.0 %	36.5 %	123.6 %	83.9 %	32.4 %	59.6 %	531.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	95.7771 %	102.7435 %	94.4988 %	94.8022 %	102.2188 %	95.9293 %
Concentration per Run 1	0.0005 ppm	95.3206 %	102.2862 %	95.1527 %	94.5586 %	102.1893 %	96.9431 %
Concentration per Run 2	0.0004 ppm	95.1398 %	101.9880 %	94.4339 %	93.9541 %	101.2690 %	95.4120 %
Concentration per Run 3	0.0007 ppm	96.8708 %	103.9563 %	93.9099 %	95.8938 %	103.1981 %	95.4328 %
Recovery Percentage 1	11.231 %						
Concentration RSD	26.2 %	1.0 %	1.0 %	0.7 %	1.0 %	0.9 %	0.9 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-2D2 WG1976465
Analysis started at: 9/26/2024 12:56:22 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0522 ppm	2.0357 ppm	0.1207 ppm	1.0184 ppm	2.0868 ppm	0.0526 ppm	10.3098 ppm
Concentration per Run 1	0.0527 ppm	2.0531 ppm	0.1208 ppm	1.0193 ppm	2.0933 ppm	0.0529 ppm	10.3102 ppm
Concentration per Run 2	0.0523 ppm	2.0240 ppm	0.1203 ppm	1.0211 ppm	2.0895 ppm	0.0524 ppm	10.2811 ppm
Concentration per Run 3	0.0517 ppm	2.0299 ppm	0.1210 ppm	1.0148 ppm	2.0775 ppm	0.0525 ppm	10.3380 ppm
Concentration RSD	1.0 %	0.8 %	0.3 %	0.3 %	0.4 %	0.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0534 ppm	0.5181 ppm	0.2040 ppm	0.2620 ppm	1.0722 ppm	10.8513 ppm	0.0001 ppm
Concentration per Run 1	0.0536 ppm	0.5194 ppm	0.2045 ppm	0.2628 ppm	1.0759 ppm	10.9532 ppm	0.0010 ppm
Concentration per Run 2	0.0536 ppm	0.5192 ppm	0.2036 ppm	0.2620 ppm	1.0770 ppm	10.8152 ppm	-0.0009 ppm
Concentration per Run 3	0.0530 ppm	0.5158 ppm	0.2037 ppm	0.2611 ppm	1.0638 ppm	10.7854 ppm	0.0001 ppm
Concentration RSD	0.6 %	0.4 %	0.3 %	0.3 %	0.7 %	0.8 %	1,315.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2507 ppm	0.5231 ppm	1.0419 ppm	10.6931 ppm	0.5195 ppm	0.5485 ppm	0.5162 ppm
Concentration per Run 1	10.3114 ppm	0.5243 ppm	1.0383 ppm	10.7336 ppm	0.5215 ppm	0.5469 ppm	0.5206 ppm
Concentration per Run 2	10.2588 ppm	0.5229 ppm	1.0433 ppm	10.6859 ppm	0.5198 ppm	0.5473 ppm	0.5118 ppm
Concentration per Run 3	10.1818 ppm	0.5220 ppm	1.0442 ppm	10.6596 ppm	0.5174 ppm	0.5512 ppm	0.5160 ppm
Concentration RSD	0.6 %	0.2 %	0.3 %	0.4 %	0.4 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1245 ppm	0.8293 ppm	0.9969 ppm	0.9847 ppm	1.0444 ppm	0.1204 ppm	0.5203 ppm
Concentration per Run 1	0.1241 ppm	0.8335 ppm	0.9925 ppm	0.9887 ppm	1.0503 ppm	0.1204 ppm	0.5222 ppm
Concentration per Run 2	0.1242 ppm	0.8326 ppm	0.9993 ppm	0.9825 ppm	1.0418 ppm	0.1193 ppm	0.5189 ppm
Concentration per Run 3	0.1251 ppm	0.8218 ppm	0.9989 ppm	0.9830 ppm	1.0410 ppm	0.1214 ppm	0.5198 ppm
Concentration RSD	0.4 %	0.8 %	0.4 %	0.3 %	0.5 %	0.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5184 ppm	94.7482 %	103.6187 %	92.7115 %	91.6731 %	102.2911 %	93.7625 %
Concentration per Run 1	0.5183 ppm	94.4868 %	103.6657 %	92.7614 %	91.4312 %	102.6210 %	93.9246 %
Concentration per Run 2	0.5218 ppm	94.7277 %	103.5320 %	93.0233 %	91.8317 %	102.1954 %	93.9676 %
Concentration per Run 3	0.5152 ppm	95.0300 %	103.6583 %	92.3498 %	91.7563 %	102.0568 %	93.3951 %
Concentration RSD	0.6 %	0.3 %	0.1 %	0.4 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455430-01D2 WG1976465
Analysis started at: 9/26/2024 1:00:18 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	98.6460 ppm	0.0121 ppm	0.0061 ppm	1.5615 ppm	0.0017 ppm	25.8816 ppm
Concentration per Run 1	0.0004 ppm	98.5260 ppm	0.0126 ppm	0.0050 ppm	1.5726 ppm	0.0017 ppm	25.8644 ppm
Concentration per Run 2	0.0002 ppm	99.1673 ppm	0.0109 ppm	0.0059 ppm	1.5657 ppm	0.0017 ppm	25.9705 ppm
Concentration per Run 3	0.0003 ppm	98.2448 ppm	0.0129 ppm	0.0073 ppm	1.5463 ppm	0.0018 ppm	25.8099 ppm
Concentration RSD	41.8 %	0.5 %	8.9 %	19.3 %	0.9 %	4.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0883 ppm	0.3494 ppm	0.4162 ppm	202.0001 ppm	48.5369 ppm	0.0879 ppm
Concentration per Run 1	0.0004 ppm	0.0889 ppm	0.3520 ppm	0.4200 ppm	202.4164 ppm	48.1722 ppm	0.0899 ppm
Concentration per Run 2	0.0006 ppm	0.0877 ppm	0.3471 ppm	0.4127 ppm	203.3607 ppm	49.2883 ppm	0.0883 ppm
Concentration per Run 3	0.0006 ppm	0.0882 ppm	0.3490 ppm	0.4159 ppm	200.2234 ppm	48.1501 ppm	0.0857 ppm
Concentration RSD	18.8 %	0.7 %	0.7 %	0.9 %	0.8 %	1.3 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	68.4117 ppm	2.2298 ppm	0.0076 ppm	3.8036 ppm	0.2261 ppm	0.0274 ppm	-0.0003 ppm
Concentration per Run 1	68.9903 ppm	2.2320 ppm	0.0074 ppm	3.8146 ppm	0.2283 ppm	0.0289 ppm	-0.0002 ppm
Concentration per Run 2	67.9244 ppm	2.2325 ppm	0.0075 ppm	3.8249 ppm	0.2242 ppm	0.0265 ppm	0.0007 ppm
Concentration per Run 3	68.3202 ppm	2.2248 ppm	0.0079 ppm	3.7713 ppm	0.2258 ppm	0.0269 ppm	-0.0015 ppm
Concentration RSD	0.8 %	0.2 %	3.7 %	0.7 %	0.9 %	4.8 %	342.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	16.3434 ppm	0.0030 ppm	0.0912 ppm	12.4003 ppm	0.0063 ppm	0.4702 ppm
Concentration per Run 1	0.0012 ppm	16.5855 ppm	0.0031 ppm	0.0910 ppm	12.5396 ppm	0.0040 ppm	0.4737 ppm
Concentration per Run 2	0.0027 ppm	16.0408 ppm	0.0031 ppm	0.0918 ppm	12.3156 ppm	0.0092 ppm	0.4678 ppm
Concentration per Run 3	0.0057 ppm	16.4039 ppm	0.0027 ppm	0.0908 ppm	12.3456 ppm	0.0058 ppm	0.4690 ppm
Concentration RSD	71.7 %	1.7 %	7.9 %	0.5 %	1.0 %	41.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5511 ppm	100.1837 %	107.8710 %	82.3426 %	109.8311 %	123.3746 %	112.6780 %
Concentration per Run 1	0.5560 ppm	99.4958 %	108.3614 %	82.2630 %	109.3963 %	123.6850 %	112.3652 %
Concentration per Run 2	0.5453 ppm	100.8491 %	107.5445 %	82.6085 %	110.3863 %	123.4119 %	112.9406 %
Concentration per Run 3	0.5521 ppm	100.2062 %	107.7070 %	82.1562 %	109.7108 %	123.0268 %	112.7283 %
Concentration RSD	1.0 %	0.7 %	0.4 %	0.3 %	0.5 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-3D2 WG1976465
Analysis started at: 9/26/2024 1:04:14 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0508 ppm	106.4669 ppm	0.1554 ppm	0.9471 ppm	3.3580 ppm	0.0531 ppm	40.9896 ppm
Concentration per Run 1	0.0508 ppm	106.4324 ppm	0.1548 ppm	0.9406 ppm	3.3597 ppm	0.0527 ppm	40.8930 ppm
Concentration per Run 2	0.0509 ppm	106.6262 ppm	0.1568 ppm	0.9413 ppm	3.3746 ppm	0.0535 ppm	41.1082 ppm
Concentration per Run 3	0.0507 ppm	106.3422 ppm	0.1544 ppm	0.9593 ppm	3.3396 ppm	0.0531 ppm	40.9676 ppm
Concentration RSD	0.2 %	0.1 %	0.8 %	1.1 %	0.5 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0490 ppm	0.5716 ppm	0.5221 ppm	0.6779 ppm	222.2711 ppm	57.3020 ppm	0.1024 ppm
Concentration per Run 1	0.0490 ppm	0.5709 ppm	0.5227 ppm	0.6770 ppm	222.1816 ppm	57.1890 ppm	0.1033 ppm
Concentration per Run 2	0.0486 ppm	0.5683 ppm	0.5213 ppm	0.6757 ppm	222.6581 ppm	57.4121 ppm	0.1017 ppm
Concentration per Run 3	0.0494 ppm	0.5757 ppm	0.5223 ppm	0.6810 ppm	221.9736 ppm	57.3050 ppm	0.1023 ppm
Concentration RSD	0.7 %	0.6 %	0.1 %	0.4 %	0.2 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.6031 ppm	3.0212 ppm	0.9662 ppm	13.5896 ppm	0.7218 ppm	0.6496 ppm	0.4573 ppm
Concentration per Run 1	85.6546 ppm	3.0271 ppm	0.9569 ppm	13.6856 ppm	0.7235 ppm	0.6469 ppm	0.4585 ppm
Concentration per Run 2	85.4335 ppm	3.0230 ppm	0.9599 ppm	13.5335 ppm	0.7155 ppm	0.6491 ppm	0.4524 ppm
Concentration per Run 3	85.7211 ppm	3.0136 ppm	0.9817 ppm	13.5496 ppm	0.7265 ppm	0.6527 ppm	0.4611 ppm
Concentration RSD	0.2 %	0.2 %	1.4 %	0.6 %	0.8 %	0.4 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1377 ppm	24.8864 [SIC 100]	0.9097 ppm	1.0539 ppm	12.7350 ppm	0.1415 ppm	0.9934 ppm
Concentration per Run 1	0.1371 ppm	25.1121 ppm	0.9139 ppm	1.0495 ppm	12.7667 ppm	0.1407 ppm	0.9944 ppm
Concentration per Run 2	0.1371 ppm	24.8639 ppm	0.9040 ppm	1.0607 ppm	12.7095 ppm	0.1404 ppm	0.9914 ppm
Concentration per Run 3	0.1389 ppm	24.6832 ppm	0.9111 ppm	1.0516 ppm	12.7288 ppm	0.1433 ppm	0.9945 ppm
Concentration RSD	0.8 %	0.9 %	0.6 %	0.6 %	0.2 %	1.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0211 ppm	98.4091 %	106.1977 %	78.8810 %	112.1411 %	127.6331 %	115.1822 %
Concentration per Run 1	1.0228 ppm	98.3017 %	107.4065 %	79.3611 %	111.7121 %	128.9201 %	115.2170 %
Concentration per Run 2	1.0133 ppm	98.9056 %	105.8038 %	78.7691 %	112.8569 %	127.4298 %	115.1993 %
Concentration per Run 3	1.0271 ppm	98.0199 %	105.3829 %	78.5130 %	111.8543 %	126.5495 %	115.1303 %
Concentration RSD	0.7 %	0.5 %	1.0 %	0.6 %	0.6 %	0.9 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-4D2 WG1976465
Analysis started at: 9/26/2024 1:08:09 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	95.8606 ppm	0.0129 ppm	0.0071 ppm	1.4970 ppm	0.0018 ppm	26.2705 ppm
Concentration per Run 1	0.0000 ppm	95.4216 ppm	0.0108 ppm	0.0076 ppm	1.4923 ppm	0.0018 ppm	26.1592 ppm
Concentration per Run 2	0.0001 ppm	96.1764 ppm	0.0148 ppm	0.0059 ppm	1.5019 ppm	0.0019 ppm	26.3590 ppm
Concentration per Run 3	0.0001 ppm	95.9837 ppm	0.0131 ppm	0.0079 ppm	1.4967 ppm	0.0018 ppm	26.2933 ppm
Concentration RSD	45.9 %	0.4 %	15.7 %	15.3 %	0.3 %	3.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0916 ppm	0.3477 ppm	0.4936 ppm	222.2326 ppm	46.9990 ppm	0.0866 ppm
Concentration per Run 1	0.0006 ppm	0.0917 ppm	0.3475 ppm	0.4941 ppm	221.2196 ppm	46.6523 ppm	0.0888 ppm
Concentration per Run 2	0.0004 ppm	0.0913 ppm	0.3479 ppm	0.4914 ppm	222.8661 ppm	46.9083 ppm	0.0848 ppm
Concentration per Run 3	0.0005 ppm	0.0918 ppm	0.3475 ppm	0.4953 ppm	222.6120 ppm	47.4364 ppm	0.0860 ppm
Concentration RSD	21.2 %	0.3 %	0.1 %	0.4 %	0.4 %	0.9 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	66.4009 ppm	2.0875 ppm	0.0121 ppm	3.6434 ppm	0.2344 ppm	0.0304 ppm	0.0022 ppm
Concentration per Run 1	66.5343 ppm	2.0817 ppm	0.0119 ppm	3.6213 ppm	0.2346 ppm	0.0301 ppm	0.0016 ppm
Concentration per Run 2	66.3572 ppm	2.0991 ppm	0.0122 ppm	3.6570 ppm	0.2348 ppm	0.0307 ppm	0.0034 ppm
Concentration per Run 3	66.3114 ppm	2.0816 ppm	0.0123 ppm	3.6519 ppm	0.2337 ppm	0.0305 ppm	0.0016 ppm
Concentration RSD	0.2 %	0.5 %	1.5 %	0.5 %	0.3 %	1.0 %	48.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	15.4273 ppm	0.0028 ppm	0.0954 ppm	11.4669 ppm	0.0067 ppm	0.5031 ppm
Concentration per Run 1	0.0013 ppm	15.7152 ppm	0.0031 ppm	0.0950 ppm	11.4655 ppm	0.0048 ppm	0.5010 ppm
Concentration per Run 2	0.0033 ppm	15.1083 ppm	0.0035 ppm	0.0958 ppm	11.5548 ppm	0.0081 ppm	0.5042 ppm
Concentration per Run 3	0.0029 ppm	15.4583 ppm	0.0019 ppm	0.0952 ppm	11.3804 ppm	0.0071 ppm	0.5040 ppm
Concentration RSD	43.5 %	2.0 %	30.6 %	0.4 %	0.8 %	25.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5091 ppm	98.5658 %	107.3942 %	82.1562 %	110.2241 %	125.3894 %	114.2832 %
Concentration per Run 1	0.5119 ppm	98.7123 %	108.0709 %	82.4803 %	110.3403 %	125.8395 %	113.9273 %
Concentration per Run 2	0.5082 ppm	98.5987 %	106.5328 %	82.3328 %	110.3564 %	124.8338 %	114.6244 %
Concentration per Run 3	0.5072 ppm	98.3863 %	107.5790 %	81.6556 %	109.9755 %	125.4949 %	114.2980 %
Concentration RSD	0.5 %	0.2 %	0.7 %	0.5 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-5D2 WG1976465
Analysis started at: 9/26/2024 1:12:05 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0477 ppm	99.3061 ppm	0.1464 ppm	0.9115 ppm	3.3335 ppm	0.0497 ppm	34.7998 ppm
Concentration per Run 1	0.0480 ppm	99.1122 ppm	0.1466 ppm	0.9102 ppm	3.3338 ppm	0.0494 ppm	34.6701 ppm
Concentration per Run 2	0.0478 ppm	99.4479 ppm	0.1469 ppm	0.9118 ppm	3.3208 ppm	0.0505 ppm	35.1349 ppm
Concentration per Run 3	0.0474 ppm	99.3582 ppm	0.1456 ppm	0.9126 ppm	3.3458 ppm	0.0493 ppm	34.5943 ppm
Concentration RSD	0.7 %	0.2 %	0.5 %	0.1 %	0.4 %	1.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0471 ppm	0.5401 ppm	0.5369 ppm	0.6591 ppm	198.1510 ppm	56.3590 ppm	0.0861 ppm
Concentration per Run 1	0.0470 ppm	0.5402 ppm	0.5373 ppm	0.6608 ppm	197.3409 ppm	56.1734 ppm	0.0877 ppm
Concentration per Run 2	0.0472 ppm	0.5384 ppm	0.5352 ppm	0.6590 ppm	198.3207 ppm	55.7802 ppm	0.0833 ppm
Concentration per Run 3	0.0472 ppm	0.5416 ppm	0.5381 ppm	0.6575 ppm	198.7915 ppm	57.1235 ppm	0.0873 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %	0.4 %	1.2 %	2.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	77.9507 ppm	2.6591 ppm	0.9101 ppm	12.9138 ppm	0.6776 ppm	0.6004 ppm	0.4211 ppm
Concentration per Run 1	78.2158 ppm	2.6544 ppm	0.9010 ppm	12.9807 ppm	0.6762 ppm	0.6000 ppm	0.4163 ppm
Concentration per Run 2	77.6242 ppm	2.6678 ppm	0.9103 ppm	12.8258 ppm	0.6780 ppm	0.6003 ppm	0.4204 ppm
Concentration per Run 3	78.0121 ppm	2.6552 ppm	0.9190 ppm	12.9348 ppm	0.6786 ppm	0.6010 ppm	0.4266 ppm
Concentration RSD	0.4 %	0.3 %	1.0 %	0.6 %	0.2 %	0.1 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1357 ppm	18.0874 ppm	0.9057 ppm	1.0100 ppm	13.2280 ppm	0.1357 ppm	0.9412 ppm
Concentration per Run 1	0.1333 ppm	18.5163 ppm	0.9000 ppm	1.0042 ppm	13.3473 ppm	0.1354 ppm	0.9412 ppm
Concentration per Run 2	0.1381 ppm	17.7120 ppm	0.9035 ppm	1.0168 ppm	13.3032 ppm	0.1344 ppm	0.9391 ppm
Concentration per Run 3	0.1357 ppm	18.0339 ppm	0.9135 ppm	1.0090 ppm	13.0335 ppm	0.1371 ppm	0.9432 ppm
Concentration RSD	1.8 %	2.2 %	0.8 %	0.6 %	1.3 %	1.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9940 ppm	97.9836 %	105.5480 %	79.4199 %	107.4251 %	120.9376 %	110.8806 %
Concentration per Run 1	0.9978 ppm	97.9229 %	105.8561 %	80.0274 %	107.1596 %	120.8505 %	110.8414 %
Concentration per Run 2	0.9917 ppm	98.8877 %	103.7976 %	79.2979 %	108.4337 %	120.0057 %	112.0004 %
Concentration per Run 3	0.9924 ppm	97.1402 %	106.9902 %	78.9346 %	106.6820 %	121.9566 %	109.8001 %
Concentration RSD	0.3 %	0.9 %	1.5 %	0.7 %	0.8 %	0.8 %	1.0 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-6D10 WG1976465
Analysis started at: 9/26/2024 1:16:01 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	21.6025 ppm	0.0026 ppm	0.0032 ppm	0.3385 ppm	0.0004 ppm	5.7369 ppm
Concentration per Run 1	-0.0002 ppm	21.5428 ppm	0.0025 ppm	0.0037 ppm	0.3377 ppm	0.0004 ppm	5.7885 ppm
Concentration per Run 2	0.0003 ppm	21.5533 ppm	0.0024 ppm	0.0025 ppm	0.3340 ppm	0.0004 ppm	5.7498 ppm
Concentration per Run 3	-0.0002 ppm	21.7113 ppm	0.0027 ppm	0.0034 ppm	0.3438 ppm	0.0003 ppm	5.6724 ppm
Concentration RSD	558.9 %	0.4 %	6.7 %	20.4 %	1.5 %	24.7 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0203 ppm	0.0796 ppm	0.0905 ppm	46.1193 ppm	10.5697 ppm	0.0190 ppm
Concentration per Run 1	0.0000 ppm	0.0208 ppm	0.0809 ppm	0.0914 ppm	46.0780 ppm	10.4995 ppm	0.0195 ppm
Concentration per Run 2	0.0002 ppm	0.0205 ppm	0.0795 ppm	0.0907 ppm	45.4801 ppm	10.3056 ppm	0.0180 ppm
Concentration per Run 3	0.0001 ppm	0.0197 ppm	0.0782 ppm	0.0894 ppm	46.7997 ppm	10.9041 ppm	0.0197 ppm
Concentration RSD	60.1 %	2.8 %	1.7 %	1.1 %	1.4 %	2.9 %	4.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.4438 ppm	0.4956 ppm	0.0041 ppm	0.8400 ppm	0.0531 ppm	0.0042 ppm	0.0057 ppm
Concentration per Run 1	15.7156 ppm	0.4967 ppm	0.0042 ppm	0.8287 ppm	0.0538 ppm	0.0055 ppm	0.0059 ppm
Concentration per Run 2	15.3885 ppm	0.4959 ppm	0.0039 ppm	0.8357 ppm	0.0529 ppm	0.0044 ppm	0.0045 ppm
Concentration per Run 3	15.2274 ppm	0.4941 ppm	0.0041 ppm	0.8556 ppm	0.0525 ppm	0.0027 ppm	0.0068 ppm
Concentration RSD	1.6 %	0.3 %	4.2 %	1.7 %	1.2 %	33.3 %	19.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	3.6957 ppm	0.0017 ppm	0.0197 ppm	2.8103 ppm	0.0002 ppm	0.1053 ppm
Concentration per Run 1	0.0005 ppm	3.8256 ppm	0.0021 ppm	0.0200 ppm	2.8633 ppm	0.0006 ppm	0.1069 ppm
Concentration per Run 2	0.0013 ppm	3.6562 ppm	0.0019 ppm	0.0198 ppm	2.7869 ppm	-0.0010 ppm	0.1044 ppm
Concentration per Run 3	0.0025 ppm	3.6053 ppm	0.0012 ppm	0.0192 ppm	2.7806 ppm	0.0010 ppm	0.1044 ppm
Concentration RSD	68.8 %	3.1 %	25.0 %	2.3 %	1.6 %	525.2 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1265 ppm	93.9286 %	102.6505 %	91.5148 %	94.3112 %	105.8988 %	98.1788 %
Concentration per Run 1	0.1287 ppm	92.5425 %	101.1393 %	91.2951 %	93.3062 %	104.8678 %	98.1258 %
Concentration per Run 2	0.1261 ppm	94.3957 %	101.5733 %	91.9314 %	94.7203 %	104.5438 %	98.6404 %
Concentration per Run 3	0.1246 ppm	94.8475 %	105.2389 %	91.3180 %	94.9071 %	108.2847 %	97.7703 %
Concentration RSD	1.6 %	1.3 %	2.2 %	0.4 %	0.9 %	2.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455430-02D2 WG1976465
Analysis started at: 9/26/2024 1:19:57 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	84.4460 ppm	0.0109 ppm	0.0128 ppm	1.1725 ppm	0.0026 ppm	204.1783 ppm
Concentration per Run 1	-0.0006 ppm	84.0143 ppm	0.0112 ppm	0.0127 ppm	1.1632 ppm	0.0027 ppm	204.0666 ppm
Concentration per Run 2	-0.0005 ppm	84.7358 ppm	0.0100 ppm	0.0140 ppm	1.1756 ppm	0.0026 ppm	203.6960 ppm
Concentration per Run 3	-0.0003 ppm	84.5880 ppm	0.0115 ppm	0.0117 ppm	1.1785 ppm	0.0026 ppm	204.7721 ppm
Concentration RSD	27.1 %	0.5 %	7.3 %	8.6 %	0.7 %	3.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0695 ppm	0.2495 ppm	0.2148 ppm	170.8776 ppm	42.7136 ppm	0.0991 ppm
Concentration per Run 1	-0.0003 ppm	0.0696 ppm	0.2499 ppm	0.2137 ppm	170.4403 ppm	42.7147 ppm	0.1011 ppm
Concentration per Run 2	-0.0003 ppm	0.0696 ppm	0.2499 ppm	0.2156 ppm	171.1285 ppm	42.3317 ppm	0.0968 ppm
Concentration per Run 3	-0.0001 ppm	0.0694 ppm	0.2487 ppm	0.2151 ppm	171.0641 ppm	43.0942 ppm	0.0993 ppm
Concentration RSD	43.2 %	0.1 %	0.3 %	0.5 %	0.2 %	0.9 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	131.2709 ppm	2.0403 ppm	0.0023 ppm	3.3291 ppm	0.1597 ppm	0.0413 ppm	0.0017 ppm
Concentration per Run 1	131.5882 ppm	2.0402 ppm	0.0015 ppm	3.2986 ppm	0.1591 ppm	0.0413 ppm	0.0025 ppm
Concentration per Run 2	131.1854 ppm	2.0396 ppm	0.0026 ppm	3.3625 ppm	0.1619 ppm	0.0402 ppm	0.0008 ppm
Concentration per Run 3	131.0391 ppm	2.0412 ppm	0.0027 ppm	3.3261 ppm	0.1581 ppm	0.0424 ppm	0.0017 ppm
Concentration RSD	0.2 %	0.0 %	29.3 %	1.0 %	1.2 %	2.7 %	49.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	17.5810 ppm	0.0046 ppm	0.2079 ppm	9.9419 ppm	0.0044 ppm	0.3333 ppm
Concentration per Run 1	-0.0003 ppm	17.7736 ppm	0.0042 ppm	0.2085 ppm	9.9204 ppm	0.0060 ppm	0.3342 ppm
Concentration per Run 2	0.0001 ppm	17.5822 ppm	0.0050 ppm	0.2063 ppm	10.0108 ppm	0.0041 ppm	0.3342 ppm
Concentration per Run 3	0.0005 ppm	17.3873 ppm	0.0047 ppm	0.2090 ppm	9.8945 ppm	0.0031 ppm	0.3315 ppm
Concentration RSD	525.7 %	1.1 %	8.3 %	0.7 %	0.6 %	34.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4346 ppm	95.2282 %	103.7559 %	78.7092 %	106.8840 %	122.4500 %	109.6709 %
Concentration per Run 1	0.4327 ppm	94.9438 %	103.7959 %	79.2603 %	106.2224 %	122.6903 %	110.0220 %
Concentration per Run 2	0.4379 ppm	95.7328 %	104.1409 %	78.7218 %	107.8311 %	122.6761 %	110.0244 %
Concentration per Run 3	0.4331 ppm	95.0082 %	103.3307 %	78.1455 %	106.5984 %	121.9836 %	108.9662 %
Concentration RSD	0.7 %	0.5 %	0.4 %	0.7 %	0.8 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455430-03D2 WG1976465
Analysis started at: 9/26/2024 1:23:53 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	81.5105 ppm	0.0107 ppm	0.0062 ppm	1.4205 ppm	0.0018 ppm	74.4395 ppm
Concentration per Run 1	-0.0001 ppm	81.4692 ppm	0.0086 ppm	0.0060 ppm	1.4157 ppm	0.0018 ppm	74.3963 ppm
Concentration per Run 2	0.0000 ppm	81.8241 ppm	0.0106 ppm	0.0075 ppm	1.4330 ppm	0.0016 ppm	74.2640 ppm
Concentration per Run 3	-0.0005 ppm	81.2383 ppm	0.0128 ppm	0.0052 ppm	1.4127 ppm	0.0019 ppm	74.6583 ppm
Concentration RSD	151.1 %	0.4 %	19.9 %	18.9 %	0.8 %	8.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0817 ppm	0.3195 ppm	0.3250 ppm	179.7599 ppm	42.4946 ppm	0.0837 ppm
Concentration per Run 1	-0.0001 ppm	0.0816 ppm	0.3196 ppm	0.3252 ppm	179.3944 ppm	42.4231 ppm	0.0853 ppm
Concentration per Run 2	0.0001 ppm	0.0822 ppm	0.3187 ppm	0.3261 ppm	181.4297 ppm	43.0635 ppm	0.0849 ppm
Concentration per Run 3	-0.0002 ppm	0.0814 ppm	0.3200 ppm	0.3237 ppm	178.4556 ppm	41.9971 ppm	0.0808 ppm
Concentration RSD	280.4 %	0.5 %	0.2 %	0.4 %	0.8 %	1.3 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	84.7369 ppm	1.5780 ppm	0.0012 ppm	4.8504 ppm	0.2002 ppm	0.0228 ppm	0.0007 ppm
Concentration per Run 1	85.6407 ppm	1.5766 ppm	0.0009 ppm	4.8609 ppm	0.2006 ppm	0.0233 ppm	0.0032 ppm
Concentration per Run 2	84.0305 ppm	1.5815 ppm	0.0016 ppm	4.8931 ppm	0.1984 ppm	0.0216 ppm	-0.0014 ppm
Concentration per Run 3	84.5394 ppm	1.5759 ppm	0.0010 ppm	4.7974 ppm	0.2018 ppm	0.0235 ppm	0.0004 ppm
Concentration RSD	1.0 %	0.2 %	33.9 %	1.0 %	0.9 %	4.6 %	320.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	11.3416 ppm	0.0023 ppm	0.1349 ppm	10.3061 ppm	0.0045 ppm	0.4087 ppm
Concentration per Run 1	0.0029 ppm	11.2811 ppm	0.0026 ppm	0.1345 ppm	10.3622 ppm	0.0041 ppm	0.4106 ppm
Concentration per Run 2	0.0053 ppm	11.3430 ppm	0.0034 ppm	0.1348 ppm	10.2415 ppm	0.0064 ppm	0.4055 ppm
Concentration per Run 3	0.0034 ppm	11.4006 ppm	0.0008 ppm	0.1355 ppm	10.3146 ppm	0.0028 ppm	0.4100 ppm
Concentration RSD	31.7 %	0.5 %	58.2 %	0.4 %	0.6 %	40.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4333 ppm	95.3009 %	103.3382 %	80.6581 %	103.7271 %	117.4423 %	107.9494 %
Concentration per Run 1	0.4377 ppm	94.0470 %	103.5578 %	81.0736 %	102.1624 %	117.5786 %	108.0887 %
Concentration per Run 2	0.4291 ppm	96.2871 %	104.2054 %	80.6819 %	104.9944 %	118.2287 %	108.0227 %
Concentration per Run 3	0.4331 ppm	95.5686 %	102.2512 %	80.2186 %	104.0245 %	116.5195 %	107.7367 %
Concentration RSD	1.0 %	1.2 %	1.0 %	0.5 %	1.4 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 1:27:49 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5085 ppm	0.4915 ppm	0.4913 ppm	0.5031 ppm	0.5103 ppm	0.5190 ppm	0.5030 ppm
Concentration per Run 1	0.5130 ppm	0.4884 ppm	0.4881 ppm	0.5053 ppm	0.5089 ppm	0.5181 ppm	0.5022 ppm
Concentration per Run 2	0.5068 ppm	0.4973 ppm	0.4924 ppm	0.4987 ppm	0.5110 ppm	0.5202 ppm	0.5043 ppm
Concentration per Run 3	0.5059 ppm	0.4889 ppm	0.4933 ppm	0.5052 ppm	0.5110 ppm	0.5189 ppm	0.5026 ppm
Recovery Percentage 1	101.708 %	98.306 %	98.257 %	100.619 %	102.063 %	103.808 %	100.608 %
Concentration RSD	0.8 %	1.0 %	0.6 %	0.7 %	0.2 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5128 ppm	0.5177 ppm	0.5025 ppm	0.4972 ppm	0.5289 ppm	5.3733 ppm	0.5035 ppm
Concentration per Run 1	0.5151 ppm	0.5197 ppm	0.5067 ppm	0.4994 ppm	0.5258 ppm	5.3761 ppm	0.5004 ppm
Concentration per Run 2	0.5105 ppm	0.5152 ppm	0.4998 ppm	0.4969 ppm	0.5301 ppm	5.3446 ppm	0.5047 ppm
Concentration per Run 3	0.5127 ppm	0.5181 ppm	0.5010 ppm	0.4953 ppm	0.5307 ppm	5.3991 ppm	0.5055 ppm
Recovery Percentage 1	102.557 %	103.534 %	100.502 %	99.447 %	105.776 %	107.465 %	100.707 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.4 %	0.5 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4997 ppm	0.5056 ppm	0.5131 ppm	10.2028 ppm	0.5189 ppm	0.5004 ppm	0.5114 ppm
Concentration per Run 1	0.5051 ppm	0.5040 ppm	0.5133 ppm	10.1210 ppm	0.5244 ppm	0.4972 ppm	0.5159 ppm
Concentration per Run 2	0.4973 ppm	0.5060 ppm	0.5107 ppm	10.2206 ppm	0.5131 ppm	0.5024 ppm	0.5113 ppm
Concentration per Run 3	0.4967 ppm	0.5069 ppm	0.5153 ppm	10.2667 ppm	0.5192 ppm	0.5017 ppm	0.5070 ppm
Recovery Percentage 1	99.938 %	101.123 %	102.617 %	102.028 %	103.787 %	100.084 %	102.282 %
Concentration RSD	0.9 %	0.3 %	0.4 %	0.7 %	1.1 %	0.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4985 ppm	5.6678 ppm	0.4927 ppm	0.4909 ppm	0.5131 ppm	0.4966 ppm	0.5050 ppm
Concentration per Run 1	0.4989 ppm	5.7020 ppm	0.4947 ppm	0.4901 ppm	0.5190 ppm	0.4932 ppm	0.5075 ppm
Concentration per Run 2	0.4983 ppm	5.6442 ppm	0.4922 ppm	0.4918 ppm	0.5107 ppm	0.4956 ppm	0.5039 ppm
Concentration per Run 3	0.4984 ppm	5.6571 ppm	0.4912 ppm	0.4908 ppm	0.5095 ppm	0.5010 ppm	0.5036 ppm
Recovery Percentage 1	99.709 %	107.957 %	98.540 %	98.175 %	102.615 %	99.319 %	100.999 %
Concentration RSD	0.1 %	0.5 %	0.4 %	0.2 %	1.0 %	0.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5141 ppm	94.3750 %	102.4165 %	93.3511 %	91.2440 %	101.4610 %	93.7556 %
Concentration per Run 1	0.5213 ppm	93.7609 %	102.8092 %	93.8633 %	90.6821 %	101.8989 %	94.1380 %
Concentration per Run 2	0.5073 ppm	94.6337 %	101.6348 %	92.9456 %	91.5007 %	100.4048 %	93.2621 %
Concentration per Run 3	0.5138 ppm	94.7303 %	102.8056 %	93.2443 %	91.5492 %	102.0792 %	93.8667 %
Recovery Percentage 1	102.828 %						
Concentration RSD	1.4 %	0.6 %	0.7 %	0.5 %	0.5 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 1:31:45 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0028 ppm	0.0001 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 1	0.0000 ppm	-0.0079 ppm	0.0012 ppm	0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0002 ppm	0.0019 ppm	-0.0009 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 3	-0.0004 ppm	-0.0024 ppm	-0.0002 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0044 ppm
Recovery Percentage 1	-0.789 %	-2.803 %	1.713 %	4.144 %	-1.184 %	-0.107 %	4.295 %
Concentration RSD	507.3 %	175.1 %	2,067.9 %	9.9 %	64.9 %	881.6 %	23.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm	0.0043 ppm	0.0107 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0016 ppm	0.0040 ppm	-0.0023 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0014 ppm	0.0059 ppm	0.0125 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0031 ppm	0.0219 ppm	0.0023 ppm
Recovery Percentage 1	1.300 %	-0.806 %	-0.287 %	13.976 %	8.657 %	0.428 %	13.663 %
Concentration RSD	151.1 %	94.7 %	548.7 %	11.8 %	33.9 %	113.9 %	60.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0000 ppm	0.0018 ppm	0.0099 ppm	0.0007 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 1	0.0020 ppm	-0.0001 ppm	0.0015 ppm	0.0102 ppm	0.0008 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0017 ppm	0.0082 ppm	0.0009 ppm	-0.0007 ppm	-0.0038 ppm
Concentration per Run 3	0.0006 ppm	0.0001 ppm	0.0022 ppm	0.0112 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	0.671 %	0.199 %	3.617 %	0.494 %	2.852 %	0.918 %	-2.435 %
Concentration RSD	186.3 %	586.9 %	19.9 %	15.2 %	39.7 %	892.4 %	182.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0068 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0117 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0018 ppm	0.0063 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0026 ppm	0.0024 ppm	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.0012 ppm	0.0002 ppm
Recovery Percentage 1	3.557 %	1.361 %	0.163 %	-0.392 %	2.660 %	2.217 %	1.346 %
Concentration RSD	626.8 %	68.8 %	400.8 %	229.1 %	70.0 %	215.5 %	44.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	91.0858 %	99.8451 %	93.0134 %	92.1858 %	100.8209 %	94.7316 %
Concentration per Run 1	0.0005 ppm	89.3206 %	99.0173 %	92.7522 %	90.8654 %	100.3697 %	94.7773 %
Concentration per Run 2	0.0005 ppm	91.5359 %	100.5573 %	93.1264 %	92.5849 %	101.3333 %	94.7153 %
Concentration per Run 3	0.0005 ppm	92.4009 %	99.9609 %	93.1617 %	93.1071 %	100.7596 %	94.7021 %
Recovery Percentage 1	9.939 %						
Concentration RSD	6.0 %	1.7 %	0.8 %	0.2 %	1.3 %	0.5 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454018-01d2 WG1975344
Analysis started at: 9/26/2024 1:37:49 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	124.8774 ppm	0.1304 ppm	0.0055 ppm	0.6385 ppm	0.0044 ppm	13.0092 ppm
Concentration per Run 1	-0.0001 ppm	126.2066 ppm	0.1291 ppm	0.0060 ppm	0.6521 ppm	0.0040 ppm	12.9420 ppm
Concentration per Run 2	-0.0001 ppm	123.7550 ppm	0.1317 ppm	0.0049 ppm	0.6337 ppm	0.0045 ppm	13.0759 ppm
Concentration per Run 3	-0.0004 ppm	124.6706 ppm	0.1304 ppm	0.0058 ppm	0.6297 ppm	0.0046 ppm	13.0097 ppm
Concentration RSD	84.9 %	1.0 %	1.0 %	10.4 %	1.9 %	8.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0455 ppm	0.2423 ppm	0.1017 ppm	138.1851 ppm	31.9305 ppm	0.1414 ppm
Concentration per Run 1	0.0002 ppm	0.0454 ppm	0.2411 ppm	0.1020 ppm	140.4470 ppm	33.4561 ppm	0.1489 ppm
Concentration per Run 2	0.0003 ppm	0.0453 ppm	0.2427 ppm	0.1020 ppm	136.2515 ppm	31.1809 ppm	0.1370 ppm
Concentration per Run 3	0.0002 ppm	0.0460 ppm	0.2432 ppm	0.1011 ppm	137.8568 ppm	31.1546 ppm	0.1384 ppm
Concentration RSD	25.9 %	0.8 %	0.5 %	0.5 %	1.5 %	4.1 %	4.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.0587 ppm	1.6728 ppm	0.0069 ppm	1.3681 ppm	0.1351 ppm	0.0867 ppm	-0.0015 ppm
Concentration per Run 1	38.9467 ppm	1.6743 ppm	0.0067 ppm	1.4139 ppm	0.1347 ppm	0.0856 ppm	0.0003 ppm
Concentration per Run 2	39.1475 ppm	1.6628 ppm	0.0071 ppm	1.3417 ppm	0.1352 ppm	0.0862 ppm	-0.0045 ppm
Concentration per Run 3	39.0820 ppm	1.6812 ppm	0.0068 ppm	1.3486 ppm	0.1353 ppm	0.0883 ppm	-0.0002 ppm
Concentration RSD	0.3 %	0.6 %	3.5 %	2.9 %	0.2 %	1.6 %	175.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	6.1081 ppm	0.0029 ppm	0.0585 ppm	6.3517 ppm	0.0044 ppm	0.2193 ppm
Concentration per Run 1	0.0006 ppm	6.1278 ppm	0.0028 ppm	0.0573 ppm	6.3115 ppm	0.0038 ppm	0.2176 ppm
Concentration per Run 2	0.0012 ppm	6.1140 ppm	0.0028 ppm	0.0588 ppm	6.3505 ppm	0.0059 ppm	0.2191 ppm
Concentration per Run 3	0.0005 ppm	6.0824 ppm	0.0030 ppm	0.0593 ppm	6.3931 ppm	0.0036 ppm	0.2211 ppm
Concentration RSD	47.1 %	0.4 %	2.7 %	1.7 %	0.6 %	28.8 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3744 ppm	106.0946 %	107.1448 %	91.1825 %	114.8573 %	120.8621 %	116.4244 %
Concentration per Run 1	0.3722 ppm	106.6430 %	109.5956 %	91.3252 %	115.8991 %	122.1349 %	116.4103 %
Concentration per Run 2	0.3773 ppm	106.0507 %	107.4689 %	90.8380 %	114.4857 %	121.5512 %	116.3536 %
Concentration per Run 3	0.3736 ppm	105.5901 %	104.3700 %	91.3843 %	114.1871 %	118.9001 %	116.5092 %
Concentration RSD	0.7 %	0.5 %	2.5 %	0.3 %	0.8 %	1.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454018-02d2 WG1975344
Analysis started at: 9/26/2024 1:42:01 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	128.7033 ppm	0.1350 ppm	0.0039 ppm	0.9925 ppm	0.0036 ppm	25.9378 ppm
Concentration per Run 1	-0.0005 ppm	128.1702 ppm	0.1342 ppm	0.0045 ppm	0.9876 ppm	0.0036 ppm	25.8556 ppm
Concentration per Run 2	-0.0003 ppm	128.8320 ppm	0.1365 ppm	0.0027 ppm	0.9936 ppm	0.0035 ppm	25.9003 ppm
Concentration per Run 3	-0.0005 ppm	129.1077 ppm	0.1344 ppm	0.0046 ppm	0.9964 ppm	0.0036 ppm	26.0574 ppm
Concentration RSD	31.3 %	0.4 %	0.9 %	27.1 %	0.5 %	1.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0584 ppm	0.4294 ppm	0.1381 ppm	141.2725 ppm	53.4476 ppm	0.1430 ppm
Concentration per Run 1	0.0000 ppm	0.0590 ppm	0.4343 ppm	0.1401 ppm	140.6189 ppm	53.2004 ppm	0.1447 ppm
Concentration per Run 2	-0.0002 ppm	0.0582 ppm	0.4273 ppm	0.1382 ppm	142.0136 ppm	53.6467 ppm	0.1420 ppm
Concentration per Run 3	-0.0002 ppm	0.0579 ppm	0.4264 ppm	0.1360 ppm	141.1849 ppm	53.4958 ppm	0.1424 ppm
Concentration RSD	86.0 %	1.1 %	1.0 %	1.5 %	0.5 %	0.4 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	56.3545 ppm	2.0540 ppm	0.0168 ppm	3.4766 ppm	0.2507 ppm	0.0486 ppm	-0.0029 ppm
Concentration per Run 1	56.8795 ppm	2.0491 ppm	0.0173 ppm	3.4434 ppm	0.2536 ppm	0.0481 ppm	-0.0010 ppm
Concentration per Run 2	56.1897 ppm	2.0563 ppm	0.0168 ppm	3.4837 ppm	0.2493 ppm	0.0487 ppm	-0.0025 ppm
Concentration per Run 3	55.9942 ppm	2.0568 ppm	0.0163 ppm	3.5025 ppm	0.2492 ppm	0.0491 ppm	-0.0052 ppm
Concentration RSD	0.8 %	0.2 %	3.0 %	0.9 %	1.0 %	1.1 %	73.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	3.9531 ppm	0.0022 ppm	0.1290 ppm	7.7882 ppm	0.0038 ppm	0.2734 ppm
Concentration per Run 1	-0.0029 ppm	3.9915 ppm	0.0020 ppm	0.1289 ppm	7.8606 ppm	0.0029 ppm	0.2750 ppm
Concentration per Run 2	0.0009 ppm	3.9457 ppm	0.0025 ppm	0.1287 ppm	7.7857 ppm	0.0051 ppm	0.2736 ppm
Concentration per Run 3	0.0026 ppm	3.9220 ppm	0.0021 ppm	0.1294 ppm	7.7182 ppm	0.0033 ppm	0.2716 ppm
Concentration RSD	1,382.1 %	0.9 %	10.7 %	0.3 %	0.9 %	30.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2948 ppm	97.3240 %	106.7770 %	86.2460 %	104.9814 %	120.3980 %	109.7753 %
Concentration per Run 1	0.2992 ppm	96.6061 %	107.4742 %	86.5450 %	104.8158 %	121.1031 %	109.9077 %
Concentration per Run 2	0.2924 ppm	97.6543 %	106.8596 %	86.3079 %	105.1596 %	120.3227 %	109.7354 %
Concentration per Run 3	0.2928 ppm	97.7115 %	105.9973 %	85.8850 %	104.9687 %	119.7682 %	109.6828 %
Concentration RSD	1.3 %	0.6 %	0.7 %	0.4 %	0.2 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-41d2 WG1975344
Analysis started at: 9/26/2024 1:45:57 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	175.1522 ppm	0.1226 ppm	0.0599 ppm	0.6728 ppm	0.0084 ppm	40.3833 ppm
Concentration per Run 1	-0.0006 ppm	174.5523 ppm	0.1203 ppm	0.0603 ppm	0.6647 ppm	0.0082 ppm	40.1942 ppm
Concentration per Run 2	-0.0002 ppm	175.0682 ppm	0.1237 ppm	0.0595 ppm	0.6761 ppm	0.0083 ppm	40.3799 ppm
Concentration per Run 3	-0.0011 ppm	175.8360 ppm	0.1239 ppm	0.0597 ppm	0.6775 ppm	0.0086 ppm	40.5757 ppm
Concentration RSD	72.7 %	0.4 %	1.7 %	0.7 %	1.0 %	2.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.1170 ppm	0.3918 ppm	0.2363 ppm	265.1606 ppm	55.8188 ppm	0.3575 ppm
Concentration per Run 1	0.0002 ppm	0.1169 ppm	0.3937 ppm	0.2359 ppm	264.6039 ppm	55.8159 ppm	0.3611 ppm
Concentration per Run 2	0.0004 ppm	0.1180 ppm	0.3907 ppm	0.2373 ppm	264.7690 ppm	55.9193 ppm	0.3501 ppm
Concentration per Run 3	0.0002 ppm	0.1162 ppm	0.3911 ppm	0.2356 ppm	266.1088 ppm	55.7214 ppm	0.3612 ppm
Concentration RSD	47.4 %	0.8 %	0.4 %	0.4 %	0.3 %	0.2 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	90.0192 ppm	4.4320 ppm	0.0046 ppm	13.2328 ppm	0.2724 ppm	0.1068 ppm	0.0000 ppm
Concentration per Run 1	90.3859 ppm	4.4146 ppm	0.0046 ppm	13.2585 ppm	0.2744 ppm	0.1042 ppm	-0.0020 ppm
Concentration per Run 2	90.2346 ppm	4.4342 ppm	0.0043 ppm	13.2566 ppm	0.2699 ppm	0.1076 ppm	-0.0008 ppm
Concentration per Run 3	89.4371 ppm	4.4473 ppm	0.0051 ppm	13.1834 ppm	0.2730 ppm	0.1086 ppm	0.0029 ppm
Concentration RSD	0.6 %	0.4 %	9.4 %	0.3 %	0.9 %	2.2 %	7,237.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	1.9791 ppm	0.0083 ppm	0.2306 ppm	10.7478 ppm	0.0050 ppm	0.4892 ppm
Concentration per Run 1	-0.0005 ppm	2.0059 ppm	0.0080 ppm	0.2282 ppm	10.7448 ppm	0.0022 ppm	0.4910 ppm
Concentration per Run 2	-0.0011 ppm	1.9834 ppm	0.0095 ppm	0.2300 ppm	10.6937 ppm	0.0068 ppm	0.4879 ppm
Concentration per Run 3	0.0007 ppm	1.9480 ppm	0.0075 ppm	0.2334 ppm	10.8049 ppm	0.0060 ppm	0.4886 ppm
Concentration RSD	302.8 %	1.5 %	12.5 %	1.2 %	0.5 %	49.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6326 ppm	100.4903 %	110.2882 %	83.1464 %	119.1110 %	138.3180 %	124.7437 %
Concentration per Run 1	0.6322 ppm	99.6612 %	110.9918 %	83.6075 %	117.5046 %	139.0554 %	125.2391 %
Concentration per Run 2	0.6350 ppm	100.6269 %	110.4459 %	83.5488 %	119.7974 %	138.1086 %	124.9485 %
Concentration per Run 3	0.6305 ppm	101.1827 %	109.4267 %	82.2829 %	120.0311 %	137.7901 %	124.0434 %
Concentration RSD	0.4 %	0.8 %	0.7 %	0.9 %	1.2 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-43d2 WG1975344
Analysis started at: 9/26/2024 1:49:53 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	191.1024 ppm	0.1070 ppm	0.0600 ppm	0.6635 ppm	0.0089 ppm	43.0166 ppm
Concentration per Run 1	-0.0006 ppm	190.4469 ppm	0.1071 ppm	0.0595 ppm	0.6635 ppm	0.0089 ppm	42.9207 ppm
Concentration per Run 2	-0.0003 ppm	191.5272 ppm	0.1074 ppm	0.0595 ppm	0.6568 ppm	0.0091 ppm	43.1984 ppm
Concentration per Run 3	-0.0008 ppm	191.3330 ppm	0.1065 ppm	0.0610 ppm	0.6703 ppm	0.0088 ppm	42.9307 ppm
Concentration RSD	45.1 %	0.3 %	0.4 %	1.4 %	1.0 %	1.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.1277 ppm	0.4263 ppm	0.2662 ppm	291.6150 ppm	55.4927 ppm	0.3988 ppm
Concentration per Run 1	0.0004 ppm	0.1283 ppm	0.4289 ppm	0.2661 ppm	289.2645 ppm	54.9668 ppm	0.3949 ppm
Concentration per Run 2	0.0007 ppm	0.1277 ppm	0.4228 ppm	0.2658 ppm	292.7876 ppm	55.7994 ppm	0.3988 ppm
Concentration per Run 3	0.0004 ppm	0.1272 ppm	0.4272 ppm	0.2665 ppm	292.7928 ppm	55.7119 ppm	0.4027 ppm
Concentration RSD	25.7 %	0.4 %	0.7 %	0.1 %	0.7 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	100.9065 ppm	5.2261 ppm	0.0048 ppm	8.6133 ppm	0.3013 ppm	0.1164 ppm	0.0019 ppm
Concentration per Run 1	101.6182 ppm	5.2066 ppm	0.0043 ppm	8.5992 ppm	0.3030 ppm	0.1154 ppm	-0.0016 ppm
Concentration per Run 2	100.6094 ppm	5.2512 ppm	0.0051 ppm	8.5745 ppm	0.2994 ppm	0.1169 ppm	0.0032 ppm
Concentration per Run 3	100.4918 ppm	5.2204 ppm	0.0050 ppm	8.6663 ppm	0.3016 ppm	0.1169 ppm	0.0039 ppm
Concentration RSD	0.6 %	0.4 %	8.6 %	0.6 %	0.6 %	0.7 %	161.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	2.2754 ppm	0.0097 ppm	0.2501 ppm	10.7864 ppm	0.0061 ppm	0.5164 ppm
Concentration per Run 1	-0.0006 ppm	2.2926 ppm	0.0093 ppm	0.2501 ppm	10.7839 ppm	0.0041 ppm	0.5194 ppm
Concentration per Run 2	-0.0037 ppm	2.2697 ppm	0.0098 ppm	0.2507 ppm	10.7608 ppm	0.0075 ppm	0.5127 ppm
Concentration per Run 3	-0.0021 ppm	2.2639 ppm	0.0100 ppm	0.2495 ppm	10.8145 ppm	0.0066 ppm	0.5170 ppm
Concentration RSD	73.6 %	0.7 %	3.5 %	0.2 %	0.2 %	29.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6873 ppm	100.9682 %	110.0145 %	82.7960 %	121.1319 %	139.2173 %	126.2222 %
Concentration per Run 1	0.6963 ppm	100.1249 %	110.2674 %	82.7114 %	119.9657 %	139.6636 %	126.3196 %
Concentration per Run 2	0.6828 ppm	101.4037 %	108.7207 %	82.6548 %	121.7266 %	137.6067 %	125.6780 %
Concentration per Run 3	0.6828 ppm	101.3759 %	111.0555 %	83.0219 %	121.7033 %	140.3815 %	126.6691 %
Concentration RSD	1.1 %	0.7 %	1.1 %	0.2 %	0.8 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-45d2 WG1975344
Analysis started at: 9/26/2024 1:53:49 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	97.6053 ppm	0.1167 ppm	0.0306 ppm	0.7300 ppm	0.0042 ppm	55.8680 ppm
Concentration per Run 1	0.0022 ppm	97.1196 ppm	0.1156 ppm	0.0303 ppm	0.7370 ppm	0.0042 ppm	55.4486 ppm
Concentration per Run 2	0.0022 ppm	97.6493 ppm	0.1149 ppm	0.0304 ppm	0.7311 ppm	0.0042 ppm	55.8112 ppm
Concentration per Run 3	0.0017 ppm	98.0469 ppm	0.1195 ppm	0.0310 ppm	0.7218 ppm	0.0043 ppm	56.3442 ppm
Concentration RSD	13.5 %	0.5 %	2.1 %	1.2 %	1.1 %	0.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0073 ppm	0.0718 ppm	0.1952 ppm	1.2249 ppm	200.1227 ppm	12.0432 ppm	0.1707 ppm
Concentration per Run 1	0.0073 ppm	0.0723 ppm	0.1971 ppm	1.2414 ppm	198.4308 ppm	12.0712 ppm	0.1708 ppm
Concentration per Run 2	0.0072 ppm	0.0719 ppm	0.1946 ppm	1.2182 ppm	200.9639 ppm	12.0208 ppm	0.1720 ppm
Concentration per Run 3	0.0073 ppm	0.0712 ppm	0.1939 ppm	1.2152 ppm	200.9733 ppm	12.0375 ppm	0.1694 ppm
Concentration RSD	0.9 %	0.8 %	0.9 %	1.2 %	0.7 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.7552 ppm	2.4702 ppm	0.0169 ppm	1.5275 ppm	0.1758 ppm	1.8982 ppm	0.0090 ppm
Concentration per Run 1	37.0889 ppm	2.4521 ppm	0.0171 ppm	1.5200 ppm	0.1780 ppm	1.8960 ppm	0.0089 ppm
Concentration per Run 2	36.7251 ppm	2.4727 ppm	0.0167 ppm	1.5355 ppm	0.1752 ppm	1.8999 ppm	0.0106 ppm
Concentration per Run 3	36.4516 ppm	2.4859 ppm	0.0170 ppm	1.5270 ppm	0.1741 ppm	1.8988 ppm	0.0074 ppm
Concentration RSD	0.9 %	0.7 %	1.0 %	0.5 %	1.2 %	0.1 %	18.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0053 ppm	3.0574 ppm	0.1118 ppm	0.3023 ppm	3.8153 ppm	0.0017 ppm	0.3441 ppm
Concentration per Run 1	0.0041 ppm	3.0803 ppm	0.1133 ppm	0.3033 ppm	3.8586 ppm	0.0018 ppm	0.3480 ppm
Concentration per Run 2	0.0060 ppm	3.0436 ppm	0.1110 ppm	0.3022 ppm	3.7993 ppm	0.0008 ppm	0.3436 ppm
Concentration per Run 3	0.0058 ppm	3.0482 ppm	0.1110 ppm	0.3014 ppm	3.7881 ppm	0.0024 ppm	0.3408 ppm
Concentration RSD	18.8 %	0.7 %	1.2 %	0.3 %	1.0 %	49.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6196 ppm	95.3859 %	108.6249 %	86.5736 %	107.6269 %	126.1595 %	110.3623 %
Concentration per Run 1	1.6334 ppm	94.8958 %	110.4926 %	86.7273 %	107.5825 %	127.9986 %	110.5173 %
Concentration per Run 2	1.6218 ppm	94.9650 %	109.0768 %	86.4286 %	106.9616 %	127.0715 %	110.1667 %
Concentration per Run 3	1.6035 ppm	96.2969 %	106.3052 %	86.5649 %	108.3368 %	123.4083 %	110.4029 %
Concentration RSD	0.9 %	0.8 %	2.0 %	0.2 %	0.6 %	1.9 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-47d2 WG1975344
Analysis started at: 9/26/2024 1:57:45 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	85.5101 ppm	0.0858 ppm	0.0696 ppm	0.3168 ppm	0.0035 ppm	42.1924 ppm
Concentration per Run 1	0.0008 ppm	85.3315 ppm	0.0854 ppm	0.0705 ppm	0.3145 ppm	0.0035 ppm	42.1914 ppm
Concentration per Run 2	0.0014 ppm	85.8196 ppm	0.0859 ppm	0.0698 ppm	0.3168 ppm	0.0035 ppm	42.2790 ppm
Concentration per Run 3	0.0008 ppm	85.3792 ppm	0.0862 ppm	0.0686 ppm	0.3191 ppm	0.0035 ppm	42.1069 ppm
Concentration RSD	33.4 %	0.3 %	0.5 %	1.3 %	0.7 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0438 ppm	0.1844 ppm	0.2761 ppm	181.8576 ppm	19.5234 ppm	0.2053 ppm
Concentration per Run 1	0.0011 ppm	0.0443 ppm	0.1840 ppm	0.2772 ppm	182.0560 ppm	19.5663 ppm	0.2062 ppm
Concentration per Run 2	0.0012 ppm	0.0437 ppm	0.1854 ppm	0.2761 ppm	182.2663 ppm	19.5946 ppm	0.2051 ppm
Concentration per Run 3	0.0011 ppm	0.0435 ppm	0.1840 ppm	0.2750 ppm	181.2505 ppm	19.4094 ppm	0.2045 ppm
Concentration RSD	4.1 %	0.9 %	0.4 %	0.4 %	0.3 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.6393 ppm	1.5316 ppm	0.0297 ppm	1.3110 ppm	0.1179 ppm	0.6461 ppm	0.0043 ppm
Concentration per Run 1	31.8118 ppm	1.5307 ppm	0.0295 ppm	1.3154 ppm	0.1181 ppm	0.6391 ppm	0.0050 ppm
Concentration per Run 2	31.5322 ppm	1.5352 ppm	0.0301 ppm	1.3141 ppm	0.1181 ppm	0.6509 ppm	0.0026 ppm
Concentration per Run 3	31.5739 ppm	1.5288 ppm	0.0295 ppm	1.3036 ppm	0.1174 ppm	0.6482 ppm	0.0052 ppm
Concentration RSD	0.5 %	0.2 %	1.2 %	0.5 %	0.4 %	1.0 %	33.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	3.6567 ppm	0.1338 ppm	0.2224 ppm	4.2576 ppm	0.0018 ppm	0.2897 ppm
Concentration per Run 1	0.0040 ppm	3.6662 ppm	0.1323 ppm	0.2223 ppm	4.2862 ppm	0.0021 ppm	0.2909 ppm
Concentration per Run 2	0.0044 ppm	3.6521 ppm	0.1354 ppm	0.2221 ppm	4.2437 ppm	0.0019 ppm	0.2896 ppm
Concentration per Run 3	0.0032 ppm	3.6518 ppm	0.1336 ppm	0.2228 ppm	4.2428 ppm	0.0014 ppm	0.2886 ppm
Concentration RSD	15.8 %	0.2 %	1.1 %	0.2 %	0.6 %	18.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5518 ppm	97.0176 %	109.0546 %	87.4416 %	106.6695 %	123.9800 %	108.5481 %
Concentration per Run 1	0.5535 ppm	96.5735 %	109.3654 %	88.1584 %	106.5460 %	124.2270 %	108.9781 %
Concentration per Run 2	0.5515 ppm	97.3462 %	108.0067 %	87.1565 %	106.6739 %	122.9691 %	108.2271 %
Concentration per Run 3	0.5504 ppm	97.1332 %	109.7916 %	87.0101 %	106.7887 %	124.7439 %	108.4391 %
Concentration RSD	0.3 %	0.4 %	0.9 %	0.7 %	0.1 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454056-01d2 WG1975344
Analysis started at: 9/26/2024 2:01:42 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	73.5843 ppm	0.0782 ppm	0.0194 ppm	0.5128 ppm	0.0042 ppm	47.3335 ppm
Concentration per Run 1	0.0009 ppm	73.6496 ppm	0.0774 ppm	0.0194 ppm	0.5126 ppm	0.0041 ppm	47.1718 ppm
Concentration per Run 2	0.0001 ppm	73.4916 ppm	0.0786 ppm	0.0191 ppm	0.5112 ppm	0.0043 ppm	47.5699 ppm
Concentration per Run 3	0.0008 ppm	73.6117 ppm	0.0787 ppm	0.0198 ppm	0.5146 ppm	0.0042 ppm	47.2587 ppm
Concentration RSD	71.9 %	0.1 %	0.9 %	1.8 %	0.3 %	2.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0645 ppm	0.1421 ppm	0.3623 ppm	155.9227 ppm	9.2401 ppm	0.1106 ppm
Concentration per Run 1	0.0019 ppm	0.0647 ppm	0.1441 ppm	0.3674 ppm	156.9659 ppm	9.3467 ppm	0.1104 ppm
Concentration per Run 2	0.0019 ppm	0.0644 ppm	0.1421 ppm	0.3612 ppm	154.0006 ppm	9.0844 ppm	0.1107 ppm
Concentration per Run 3	0.0019 ppm	0.0643 ppm	0.1401 ppm	0.3583 ppm	156.8017 ppm	9.2893 ppm	0.1106 ppm
Concentration RSD	0.2 %	0.3 %	1.4 %	1.3 %	1.1 %	1.5 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.9667 ppm	3.1124 ppm	0.0066 ppm	1.8535 ppm	0.1276 ppm	1.5913 ppm	0.0062 ppm
Concentration per Run 1	35.3108 ppm	3.1151 ppm	0.0067 ppm	1.8511 ppm	0.1295 ppm	1.5805 ppm	0.0074 ppm
Concentration per Run 2	34.9281 ppm	3.1094 ppm	0.0067 ppm	1.8521 ppm	0.1265 ppm	1.5970 ppm	0.0056 ppm
Concentration per Run 3	34.6611 ppm	3.1127 ppm	0.0063 ppm	1.8574 ppm	0.1267 ppm	1.5965 ppm	0.0055 ppm
Concentration RSD	0.9 %	0.1 %	3.4 %	0.2 %	1.3 %	0.6 %	17.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	3.3806 ppm	0.0785 ppm	0.1814 ppm	3.3817 ppm	0.0016 ppm	0.2809 ppm
Concentration per Run 1	0.0039 ppm	3.4294 ppm	0.0786 ppm	0.1803 ppm	3.4337 ppm	0.0025 ppm	0.2827 ppm
Concentration per Run 2	0.0022 ppm	3.3831 ppm	0.0786 ppm	0.1814 ppm	3.3625 ppm	0.0017 ppm	0.2818 ppm
Concentration per Run 3	0.0014 ppm	3.3294 ppm	0.0784 ppm	0.1825 ppm	3.3490 ppm	0.0005 ppm	0.2782 ppm
Concentration RSD	50.8 %	1.5 %	0.2 %	0.6 %	1.3 %	62.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9962 ppm	94.9679 %	102.8390 %	87.6018 %	106.1997 %	120.8473 %	110.6610 %
Concentration per Run 1	1.0086 ppm	94.4577 %	103.5690 %	88.1504 %	106.4257 %	121.1850 %	111.0743 %
Concentration per Run 2	0.9934 ppm	94.8243 %	101.2237 %	87.2391 %	105.6901 %	119.1706 %	110.2042 %
Concentration per Run 3	0.9867 ppm	95.6218 %	103.7244 %	87.4158 %	106.4835 %	122.1865 %	110.7045 %
Concentration RSD	1.1 %	0.6 %	1.4 %	0.6 %	0.4 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454077-01d2 WG1975344
Analysis started at: 9/26/2024 2:05:40 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	44.5481 ppm	0.0226 ppm	0.0067 ppm	0.1749 ppm	0.0018 ppm	7.3592 ppm
Concentration per Run 1	-0.0004 ppm	44.4758 ppm	0.0223 ppm	0.0059 ppm	0.1747 ppm	0.0019 ppm	7.3578 ppm
Concentration per Run 2	-0.0001 ppm	44.6490 ppm	0.0226 ppm	0.0062 ppm	0.1747 ppm	0.0019 ppm	7.3533 ppm
Concentration per Run 3	-0.0002 ppm	44.5194 ppm	0.0229 ppm	0.0081 ppm	0.1752 ppm	0.0018 ppm	7.3665 ppm
Concentration RSD	79.2 %	0.2 %	1.3 %	17.6 %	0.2 %	2.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0261 ppm	0.0796 ppm	0.0888 ppm	63.2924 ppm	5.7236 ppm	0.1478 ppm
Concentration per Run 1	0.0014 ppm	0.0260 ppm	0.0793 ppm	0.0891 ppm	63.1492 ppm	5.7361 ppm	0.1492 ppm
Concentration per Run 2	0.0014 ppm	0.0262 ppm	0.0798 ppm	0.0889 ppm	63.3157 ppm	5.7066 ppm	0.1488 ppm
Concentration per Run 3	0.0015 ppm	0.0262 ppm	0.0797 ppm	0.0883 ppm	63.4124 ppm	5.7280 ppm	0.1452 ppm
Concentration RSD	3.8 %	0.4 %	0.4 %	0.5 %	0.2 %	0.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.6912 ppm	0.6423 ppm	0.0053 ppm	1.3028 ppm	0.0980 ppm	0.0271 ppm	0.0000 ppm
Concentration per Run 1	17.7573 ppm	0.6416 ppm	0.0055 ppm	1.3061 ppm	0.0979 ppm	0.0264 ppm	0.0000 ppm
Concentration per Run 2	17.6724 ppm	0.6411 ppm	0.0052 ppm	1.3041 ppm	0.0985 ppm	0.0274 ppm	-0.0001 ppm
Concentration per Run 3	17.6439 ppm	0.6443 ppm	0.0052 ppm	1.2982 ppm	0.0978 ppm	0.0276 ppm	0.0000 ppm
Concentration RSD	0.3 %	0.3 %	3.1 %	0.3 %	0.4 %	2.5 %	207.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	4.4590 ppm	0.0022 ppm	0.0391 ppm	2.6635 ppm	0.0004 ppm	0.1123 ppm
Concentration per Run 1	0.0018 ppm	4.4525 ppm	0.0024 ppm	0.0391 ppm	2.6663 ppm	-0.0004 ppm	0.1123 ppm
Concentration per Run 2	0.0031 ppm	4.4595 ppm	0.0021 ppm	0.0389 ppm	2.6659 ppm	0.0005 ppm	0.1127 ppm
Concentration per Run 3	0.0004 ppm	4.4650 ppm	0.0022 ppm	0.0391 ppm	2.6582 ppm	0.0010 ppm	0.1120 ppm
Concentration RSD	74.7 %	0.1 %	5.3 %	0.3 %	0.2 %	186.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2845 ppm	95.5660 %	105.6451 %	91.0775 %	96.6506 %	110.6882 %	100.6425 %
Concentration per Run 1	0.2850 ppm	95.3793 %	106.1927 %	91.3105 %	96.8098 %	111.4399 %	101.0261 %
Concentration per Run 2	0.2843 ppm	95.9155 %	105.6204 %	91.1190 %	97.0018 %	110.4392 %	100.3490 %
Concentration per Run 3	0.2841 ppm	95.4030 %	105.1222 %	90.8030 %	96.1401 %	110.1853 %	100.5523 %
Concentration RSD	0.2 %	0.3 %	0.5 %	0.3 %	0.5 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-01D2 WG1975335
Analysis started at: 9/26/2024 2:09:38 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	46.3973 ppm	0.0450 ppm	0.0037 ppm	0.2092 ppm	0.0029 ppm	9.2176 ppm
Concentration per Run 1	0.0000 ppm	45.8610 ppm	0.0441 ppm	0.0040 ppm	0.2056 ppm	0.0030 ppm	9.3032 ppm
Concentration per Run 2	0.0008 ppm	46.9498 ppm	0.0461 ppm	0.0037 ppm	0.2114 ppm	0.0028 ppm	9.2338 ppm
Concentration per Run 3	0.0001 ppm	46.3810 ppm	0.0448 ppm	0.0033 ppm	0.2106 ppm	0.0027 ppm	9.1158 ppm
Concentration RSD	132.7 %	1.2 %	2.3 %	9.0 %	1.5 %	6.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0037 ppm	0.0362 ppm	0.1221 ppm	0.1163 ppm	104.3563 ppm	5.2963 ppm	0.0698 ppm
Concentration per Run 1	0.0037 ppm	0.0361 ppm	0.1233 ppm	0.1158 ppm	102.1219 ppm	5.0739 ppm	0.0695 ppm
Concentration per Run 2	0.0039 ppm	0.0366 ppm	0.1220 ppm	0.1175 ppm	105.7921 ppm	5.4423 ppm	0.0701 ppm
Concentration per Run 3	0.0036 ppm	0.0360 ppm	0.1209 ppm	0.1155 ppm	105.1551 ppm	5.3726 ppm	0.0697 ppm
Concentration RSD	3.4 %	0.9 %	1.0 %	0.9 %	1.9 %	3.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.4873 ppm	1.8493 ppm	0.0204 ppm	0.6007 ppm	0.0785 ppm	0.3594 ppm	0.0017 ppm
Concentration per Run 1	18.6072 ppm	1.8420 ppm	0.0202 ppm	0.5873 ppm	0.0775 ppm	0.3595 ppm	0.0031 ppm
Concentration per Run 2	18.4647 ppm	1.8634 ppm	0.0207 ppm	0.6096 ppm	0.0798 ppm	0.3618 ppm	0.0013 ppm
Concentration per Run 3	18.3900 ppm	1.8425 ppm	0.0201 ppm	0.6053 ppm	0.0782 ppm	0.3568 ppm	0.0008 ppm
Concentration RSD	0.6 %	0.7 %	1.7 %	2.0 %	1.5 %	0.7 %	69.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	2.2850 ppm	0.0099 ppm	0.0872 ppm	2.4517 ppm	0.0015 ppm	0.1402 ppm
Concentration per Run 1	-0.0008 ppm	2.3028 ppm	0.0104 ppm	0.0891 ppm	2.4640 ppm	0.0011 ppm	0.1410 ppm
Concentration per Run 2	0.0021 ppm	2.3014 ppm	0.0101 ppm	0.0864 ppm	2.4618 ppm	0.0016 ppm	0.1392 ppm
Concentration per Run 3	0.0005 ppm	2.2509 ppm	0.0092 ppm	0.0860 ppm	2.4293 ppm	0.0017 ppm	0.1403 ppm
Concentration RSD	241.7 %	1.3 %	6.3 %	2.0 %	0.8 %	22.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3956 ppm	95.2278 %	103.7567 %	90.0876 %	**184.2111 %**	**206.9822 %**	**190.4696 %**
Concentration per Run 1	0.3949 ppm	94.3107 %	101.5670 %	90.3412 %	**182.5156 %**	**204.2697 %**	**190.8536 %**
Concentration per Run 2	0.4022 ppm	95.7608 %	104.1025 %	89.9162 %	**186.7109 %**	**207.2999 %**	**190.5025 %**
Concentration per Run 3	0.3897 ppm	95.6119 %	105.6005 %	90.0053 %	**183.4068 %**	**209.3769 %**	**190.0526 %**
Concentration RSD	1.6 %	0.8 %	2.0 %	0.2 %	**1.2 %**	**1.2 %**	**0.2 %**

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-03D2 WG1975335
Analysis started at: 9/26/2024 2:13:34 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	51.1743 ppm	0.0514 ppm	0.0061 ppm	0.1751 ppm	0.0028 ppm	9.4655 ppm
Concentration per Run 1	0.0001 ppm	51.6850 ppm	0.0508 ppm	0.0065 ppm	0.1779 ppm	0.0026 ppm	9.4305 ppm
Concentration per Run 2	-0.0001 ppm	50.5917 ppm	0.0517 ppm	0.0053 ppm	0.1711 ppm	0.0030 ppm	9.6160 ppm
Concentration per Run 3	0.0001 ppm	51.2464 ppm	0.0518 ppm	0.0064 ppm	0.1763 ppm	0.0027 ppm	9.3499 ppm
Concentration RSD	527.8 %	1.1 %	1.1 %	11.0 %	2.0 %	6.8 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0084 ppm	0.0405 ppm	0.1084 ppm	0.1658 ppm	105.2213 ppm	6.8805 ppm	0.0903 ppm
Concentration per Run 1	0.0084 ppm	0.0409 ppm	0.1100 ppm	0.1679 ppm	106.7439 ppm	7.1175 ppm	0.0944 ppm
Concentration per Run 2	0.0084 ppm	0.0401 ppm	0.1084 ppm	0.1647 ppm	103.0884 ppm	6.4873 ppm	0.0841 ppm
Concentration per Run 3	0.0083 ppm	0.0403 ppm	0.1067 ppm	0.1649 ppm	105.8315 ppm	7.0368 ppm	0.0924 ppm
Concentration RSD	0.9 %	1.0 %	1.5 %	1.1 %	1.8 %	5.0 %	6.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.0617 ppm	1.6688 ppm	0.0042 ppm	0.5923 ppm	0.0782 ppm	0.4822 ppm	0.0169 ppm
Concentration per Run 1	22.3907 ppm	1.6709 ppm	0.0045 ppm	0.6004 ppm	0.0803 ppm	0.4852 ppm	0.0164 ppm
Concentration per Run 2	22.0313 ppm	1.6685 ppm	0.0038 ppm	0.5787 ppm	0.0774 ppm	0.4829 ppm	0.0159 ppm
Concentration per Run 3	21.7631 ppm	1.6669 ppm	0.0045 ppm	0.5979 ppm	0.0771 ppm	0.4785 ppm	0.0183 ppm
Concentration RSD	1.4 %	0.1 %	9.0 %	2.0 %	2.3 %	0.7 %	7.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	3.2320 ppm	0.0249 ppm	0.0570 ppm	2.5989 ppm	0.0002 ppm	0.1382 ppm
Concentration per Run 1	0.0016 ppm	3.2697 ppm	0.0251 ppm	0.0566 ppm	2.6448 ppm	-0.0001 ppm	0.1402 ppm
Concentration per Run 2	0.0017 ppm	3.2256 ppm	0.0253 ppm	0.0580 ppm	2.5865 ppm	0.0004 ppm	0.1389 ppm
Concentration per Run 3	0.0027 ppm	3.2008 ppm	0.0243 ppm	0.0564 ppm	2.5655 ppm	0.0005 ppm	0.1355 ppm
Concentration RSD	30.5 %	1.1 %	2.1 %	1.5 %	1.6 %	132.7 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3860 ppm	95.4788 %	104.9091 %	90.6270 %	106.5503 %	120.9155 %	110.8067 %
Concentration per Run 1	0.3922 ppm	94.6956 %	107.4854 %	90.6132 %	105.6623 %	123.0706 %	110.8490 %
Concentration per Run 2	0.3853 ppm	95.3282 %	101.1413 %	90.5122 %	106.4437 %	117.5584 %	110.6340 %
Concentration per Run 3	0.3804 ppm	96.4125 %	106.1005 %	90.7555 %	107.5447 %	122.1176 %	110.9371 %
Concentration RSD	1.5 %	0.9 %	3.2 %	0.1 %	0.9 %	2.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:17:30 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5098 ppm	0.4918 ppm	0.4923 ppm	0.5004 ppm	0.5104 ppm	0.5207 ppm	0.5024 ppm
Concentration per Run 1	0.5145 ppm	0.4935 ppm	0.4902 ppm	0.5044 ppm	0.5119 ppm	0.5221 ppm	0.5011 ppm
Concentration per Run 2	0.5093 ppm	0.4891 ppm	0.4942 ppm	0.5017 ppm	0.5105 ppm	0.5185 ppm	0.5028 ppm
Concentration per Run 3	0.5056 ppm	0.4928 ppm	0.4923 ppm	0.4951 ppm	0.5090 ppm	0.5214 ppm	0.5034 ppm
Recovery Percentage 1	101.963 %	98.355 %	98.451 %	100.082 %	102.089 %	104.140 %	100.486 %
Concentration RSD	0.9 %	0.5 %	0.4 %	1.0 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5124 ppm	0.5159 ppm	0.5035 ppm	0.4982 ppm	0.5299 ppm	5.4021 ppm	0.5077 ppm
Concentration per Run 1	0.5186 ppm	0.5220 ppm	0.5093 ppm	0.5034 ppm	0.5281 ppm	5.4601 ppm	0.5105 ppm
Concentration per Run 2	0.5114 ppm	0.5148 ppm	0.5013 ppm	0.4977 ppm	0.5298 ppm	5.3541 ppm	0.5049 ppm
Concentration per Run 3	0.5070 ppm	0.5109 ppm	0.4999 ppm	0.4935 ppm	0.5319 ppm	5.3922 ppm	0.5077 ppm
Recovery Percentage 1	102.473 %	103.184 %	100.692 %	99.642 %	105.986 %	108.042 %	101.547 %
Concentration RSD	1.1 %	1.1 %	1.0 %	1.0 %	0.4 %	1.0 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4984 ppm	0.5069 ppm	0.5105 ppm	10.3101 ppm	0.5153 ppm	0.5041 ppm	0.5062 ppm
Concentration per Run 1	0.5042 ppm	0.5065 ppm	0.5129 ppm	10.3072 ppm	0.5205 ppm	0.5056 ppm	0.5096 ppm
Concentration per Run 2	0.4979 ppm	0.5054 ppm	0.5097 ppm	10.2889 ppm	0.5131 ppm	0.5046 ppm	0.5049 ppm
Concentration per Run 3	0.4931 ppm	0.5089 ppm	0.5089 ppm	10.3341 ppm	0.5123 ppm	0.5021 ppm	0.5040 ppm
Recovery Percentage 1	99.681 %	101.387 %	102.100 %	103.101 %	103.058 %	100.829 %	101.236 %
Concentration RSD	1.1 %	0.4 %	0.4 %	0.2 %	0.9 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5017 ppm	5.6628 ppm	0.4897 ppm	0.4915 ppm	0.5106 ppm	0.5016 ppm	0.5050 ppm
Concentration per Run 1	0.5024 ppm	5.7072 ppm	0.4986 ppm	0.4936 ppm	0.5135 ppm	0.5025 ppm	0.5097 ppm
Concentration per Run 2	0.5035 ppm	5.6558 ppm	0.4855 ppm	0.4904 ppm	0.5114 ppm	0.5009 ppm	0.5048 ppm
Concentration per Run 3	0.4991 ppm	5.6255 ppm	0.4849 ppm	0.4904 ppm	0.5068 ppm	0.5012 ppm	0.5006 ppm
Recovery Percentage 1	100.332 %	107.863 %	97.933 %	98.292 %	102.112 %	100.311 %	101.005 %
Concentration RSD	0.4 %	0.7 %	1.6 %	0.4 %	0.7 %	0.2 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5118 ppm	94.4153 %	102.1513 %	93.1540 %	91.2991 %	100.8603 %	93.4135 %
Concentration per Run 1	0.5163 ppm	93.0027 %	103.2207 %	93.1154 %	89.8900 %	101.7977 %	93.2858 %
Concentration per Run 2	0.5114 ppm	94.7781 %	102.3893 %	93.1748 %	91.8801 %	101.0735 %	93.4565 %
Concentration per Run 3	0.5078 ppm	95.4650 %	100.8440 %	93.1717 %	92.1273 %	99.7098 %	93.4983 %
Recovery Percentage 1	102.365 %						
Concentration RSD	0.8 %	1.3 %	1.2 %	0.0 %	1.3 %	1.1 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:21:26 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0025 ppm	0.0006 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	-0.0002 ppm	-0.0070 ppm	0.0025 ppm	0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0053 ppm
Concentration per Run 2	0.0000 ppm	0.0045 ppm	-0.0015 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 3	0.0000 ppm	-0.0049 ppm	0.0007 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0076 ppm
Recovery Percentage 1	-1.351 %	-2.485 %	19.573 %	5.335 %	-0.463 %	0.336 %	5.888 %
Concentration RSD	142.2 %	245.7 %	341.8 %	15.8 %	209.0 %	384.6 %	25.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0014 ppm	0.0045 ppm	0.0086 ppm	-0.0006 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0014 ppm	0.0042 ppm	0.0078 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm	0.0045 ppm	0.0375 ppm	-0.0005 ppm
Concentration per Run 3	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0046 ppm	-0.0195 ppm	-0.0015 ppm
Recovery Percentage 1	2.785 %	0.201 %	1.484 %	13.857 %	8.910 %	0.344 %	-6.361 %
Concentration RSD	67.5 %	678.9 %	55.3 %	15.7 %	4.9 %	332.0 %	123.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0000 ppm	0.0017 ppm	0.0043 ppm	0.0003 ppm	-0.0007 ppm	-0.0012 ppm
Concentration per Run 1	0.0011 ppm	0.0000 ppm	0.0015 ppm	0.0018 ppm	0.0007 ppm	-0.0003 ppm	-0.0017 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0017 ppm	0.0028 ppm	-0.0004 ppm	-0.0011 ppm	0.0014 ppm
Concentration per Run 3	0.0018 ppm	-0.0001 ppm	0.0018 ppm	0.0082 ppm	0.0007 ppm	-0.0007 ppm	-0.0033 ppm
Recovery Percentage 1	1.337 %	0.104 %	3.354 %	0.213 %	1.253 %	-6.814 %	-2.400 %
Concentration RSD	32.5 %	819.5 %	9.8 %	80.8 %	206.6 %	60.5 %	196.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.0014 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0035 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0025 ppm	0.0019 ppm	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	-0.0014 ppm	0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0008 ppm	-0.0009 ppm	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	21.209 %	0.288 %	-0.731 %	-0.485 %	2.680 %	-1.668 %	1.677 %
Concentration RSD	75.6 %	41.7 %	134.2 %	50.1 %	40.9 %	326.6 %	44.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.0374 %	100.2922 %	93.2477 %	92.5910 %	100.7210 %	94.6676 %
Concentration per Run 1	0.0006 ppm	90.5033 %	100.6481 %	93.3151 %	91.5585 %	101.3274 %	94.7476 %
Concentration per Run 2	0.0004 ppm	91.9374 %	99.9739 %	93.3765 %	91.8829 %	100.3659 %	95.0039 %
Concentration per Run 3	0.0007 ppm	93.6714 %	100.2546 %	93.0515 %	94.3315 %	100.4696 %	94.2514 %
Recovery Percentage 1	10.716 %						
Concentration RSD	31.7 %	1.7 %	0.3 %	0.2 %	1.6 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1975335-1 WG1975335
Analysis started at: 9/26/2024 2:26:25 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0124 ppm	0.0010 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0165 ppm
Concentration per Run 1	0.0000 ppm	0.0122 ppm	0.0008 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0154 ppm
Concentration per Run 2	-0.0002 ppm	0.0147 ppm	0.0004 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0159 ppm
Concentration per Run 3	0.0000 ppm	0.0102 ppm	0.0017 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0181 ppm
Recovery Percentage 1	-1.279 %	12.386 %	32.297 %	3.027 %	0.932 %	0.491 %	16.454 %
Concentration RSD	126.4 %	18.4 %	72.2 %	41.7 %	154.1 %	132.9 %	8.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0003 ppm	0.0263 ppm	0.0102 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	0.0006 ppm	0.0003 ppm	0.0273 ppm	0.0090 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0005 ppm	0.0002 ppm	0.0266 ppm	-0.0061 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0248 ppm	0.0277 ppm	0.0009 ppm
Recovery Percentage 1	0.039 %	-2.232 %	4.140 %	3.365 %	52.507 %	0.408 %	4.393 %
Concentration RSD	2,075.4 %	79.2 %	46.6 %	42.6 %	4.8 %	165.8 %	263.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0063 ppm	0.0005 ppm	0.0001 ppm	0.0137 ppm	0.0002 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 1	0.0060 ppm	0.0006 ppm	0.0001 ppm	0.0164 ppm	0.0001 ppm	-0.0007 ppm	0.0025 ppm
Concentration per Run 2	0.0066 ppm	0.0004 ppm	0.0001 ppm	0.0106 ppm	0.0002 ppm	-0.0012 ppm	-0.0017 ppm
Concentration per Run 3	0.0063 ppm	0.0006 ppm	0.0002 ppm	0.0140 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm
Recovery Percentage 1	6.309 %	5.124 %	0.230 %	0.683 %	0.642 %	-6.905 %	0.271 %
Concentration RSD	4.5 %	18.4 %	66.4 %	21.4 %	30.9 %	67.9 %	1,554.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	0.0117 ppm	0.0006 ppm	0.0000 ppm	0.0010 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.0015 ppm	0.0116 ppm	0.0005 ppm	0.0000 ppm	0.0010 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 2	0.0020 ppm	0.0115 ppm	0.0002 ppm	0.0000 ppm	0.0011 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	0.0033 ppm	0.0120 ppm	0.0012 ppm	-0.0001 ppm	0.0010 ppm	-0.0018 ppm	0.0000 ppm
Recovery Percentage 1	22.893 %	2.336 %	1.255 %	-0.272 %	10.144 %	-6.179 %	1.312 %
Concentration RSD	39.3 %	2.3 %	82.7 %	167.2 %	4.8 %	37.3 %	118.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	103.0003 %	101.9664 %	97.7153 %	101.7186 %	101.3510 %	99.3929 %
Concentration per Run 1	0.0019 ppm	102.8361 %	101.0456 %	97.2393 %	101.5058 %	100.4340 %	98.7468 %
Concentration per Run 2	0.0019 ppm	102.8624 %	101.7075 %	97.6940 %	102.0019 %	101.0161 %	99.4200 %
Concentration per Run 3	0.0019 ppm	103.3023 %	103.1462 %	98.2126 %	101.6481 %	102.6029 %	100.0120 %
Recovery Percentage 1	38.123 %						
Concentration RSD	1.5 %	0.3 %	1.1 %	0.5 %	0.3 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1975335-2D2 WG1975335
Analysis started at: 9/26/2024 2:30:31 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3665 ppm	17.9768 ppm	1.3548 ppm	1.0392 ppm	1.2123 ppm	0.7222 ppm	21.1523 ppm
Concentration per Run 1	0.3707 ppm	18.2481 ppm	1.3619 ppm	1.0528 ppm	1.2242 ppm	0.7291 ppm	21.3579 ppm
Concentration per Run 2	0.3669 ppm	18.0822 ppm	1.3623 ppm	1.0360 ppm	1.2164 ppm	0.7224 ppm	21.1928 ppm
Concentration per Run 3	0.3620 ppm	17.6001 ppm	1.3402 ppm	1.0289 ppm	1.1965 ppm	0.7150 ppm	20.9063 ppm
Concentration RSD	1.2 %	1.9 %	0.9 %	1.2 %	1.2 %	1.0 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.9661 ppm	0.3612 ppm	0.7983 ppm	0.9121 ppm	23.8514 ppm	4.4715 ppm	0.5541 ppm
Concentration per Run 1	0.9771 ppm	0.3651 ppm	0.8058 ppm	0.9239 ppm	24.1097 ppm	4.5366 ppm	0.5616 ppm
Concentration per Run 2	0.9670 ppm	0.3629 ppm	0.8005 ppm	0.9125 ppm	23.9213 ppm	4.4497 ppm	0.5559 ppm
Concentration per Run 3	0.9542 ppm	0.3557 ppm	0.7887 ppm	0.9000 ppm	23.5232 ppm	4.4281 ppm	0.5450 ppm
Concentration RSD	1.2 %	1.4 %	1.1 %	1.3 %	1.3 %	1.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.1612 ppm	2.2350 ppm	0.6041 ppm	7.6178 ppm	1.4003 ppm	0.4008 ppm	0.8783 ppm
Concentration per Run 1	6.2239 ppm	2.2613 ppm	0.6087 ppm	7.7127 ppm	1.4105 ppm	0.4038 ppm	0.8909 ppm
Concentration per Run 2	6.1718 ppm	2.2447 ppm	0.6037 ppm	7.6777 ppm	1.4053 ppm	0.4029 ppm	0.8730 ppm
Concentration per Run 3	6.0878 ppm	2.1992 ppm	0.5998 ppm	7.4630 ppm	1.3851 ppm	0.3955 ppm	0.8709 ppm
Concentration RSD	1.1 %	1.4 %	0.7 %	1.8 %	1.0 %	1.1 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.7406 ppm	6.8244 ppm	0.3224 ppm	0.5475 ppm	1.2622 ppm	0.9493 ppm	0.4530 ppm
Concentration per Run 1	0.7466 ppm	6.9004 ppm	0.3250 ppm	0.5517 ppm	1.2757 ppm	0.9517 ppm	0.4588 ppm
Concentration per Run 2	0.7447 ppm	6.8418 ppm	0.3248 ppm	0.5488 ppm	1.2675 ppm	0.9573 ppm	0.4531 ppm
Concentration per Run 3	0.7305 ppm	6.7310 ppm	0.3175 ppm	0.5421 ppm	1.2434 ppm	0.9390 ppm	0.4470 ppm
Concentration RSD	1.2 %	1.3 %	1.3 %	0.9 %	1.3 %	1.0 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7239 ppm	94.1494 %	103.3661 %	91.0772 %	97.3691 %	108.0344 %	99.0259 %
Concentration per Run 1	0.7296 ppm	93.2379 %	103.4433 %	91.0477 %	96.6296 %	108.4273 %	98.9358 %
Concentration per Run 2	0.7247 ppm	93.7870 %	103.4968 %	91.0129 %	96.9708 %	108.0764 %	98.9535 %
Concentration per Run 3	0.7174 ppm	95.4232 %	103.1583 %	91.1710 %	98.5068 %	107.5997 %	99.1883 %
Concentration RSD	0.8 %	1.2 %	0.2 %	0.1 %	1.0 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1975335-3D2 WG1975335
Analysis started at: 9/26/2024 2:34:27 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3476 ppm	19.1627 ppm	1.2830 ppm	0.9952 ppm	1.2409 ppm	0.6970 ppm	20.2425 ppm
Concentration per Run 1	0.3521 ppm	19.1924 ppm	1.2828 ppm	1.0041 ppm	1.2475 ppm	0.6973 ppm	20.2953 ppm
Concentration per Run 2	0.3473 ppm	19.2326 ppm	1.2904 ppm	0.9944 ppm	1.2367 ppm	0.6974 ppm	20.2758 ppm
Concentration per Run 3	0.3435 ppm	19.0632 ppm	1.2757 ppm	0.9870 ppm	1.2384 ppm	0.6965 ppm	20.1564 ppm
Concentration RSD	1.2 %	0.5 %	0.6 %	0.9 %	0.5 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8970 ppm	0.3417 ppm	0.7389 ppm	0.8591 ppm	24.4629 ppm	4.5249 ppm	0.5348 ppm
Concentration per Run 1	0.9075 ppm	0.3451 ppm	0.7490 ppm	0.8684 ppm	24.5754 ppm	4.5342 ppm	0.5373 ppm
Concentration per Run 2	0.8972 ppm	0.3412 ppm	0.7378 ppm	0.8586 ppm	24.4233 ppm	4.5587 ppm	0.5363 ppm
Concentration per Run 3	0.8862 ppm	0.3387 ppm	0.7299 ppm	0.8503 ppm	24.3899 ppm	4.4819 ppm	0.5307 ppm
Concentration RSD	1.2 %	1.0 %	1.3 %	1.1 %	0.4 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.1112 ppm	2.2043 ppm	0.5717 ppm	7.4464 ppm	1.3163 ppm	0.3883 ppm	0.8656 ppm
Concentration per Run 1	6.2003 ppm	2.2094 ppm	0.5738 ppm	7.4439 ppm	1.3304 ppm	0.3890 ppm	0.8758 ppm
Concentration per Run 2	6.1058 ppm	2.2048 ppm	0.5698 ppm	7.4768 ppm	1.3171 ppm	0.3888 ppm	0.8635 ppm
Concentration per Run 3	6.0274 ppm	2.1986 ppm	0.5714 ppm	7.4183 ppm	1.3013 ppm	0.3869 ppm	0.8574 ppm
Concentration RSD	1.4 %	0.2 %	0.4 %	0.4 %	1.1 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6967 ppm	3.4769 ppm	0.3071 ppm	0.5409 ppm	1.2265 ppm	0.8681 ppm	0.4240 ppm
Concentration per Run 1	0.6968 ppm	3.5155 ppm	0.3099 ppm	0.5418 ppm	1.2427 ppm	0.8645 ppm	0.4290 ppm
Concentration per Run 2	0.6987 ppm	3.4671 ppm	0.3060 ppm	0.5408 ppm	1.2263 ppm	0.8747 ppm	0.4237 ppm
Concentration per Run 3	0.6947 ppm	3.4482 ppm	0.3054 ppm	0.5403 ppm	1.2106 ppm	0.8651 ppm	0.4192 ppm
Concentration RSD	0.3 %	1.0 %	0.8 %	0.1 %	1.3 %	0.7 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6909 ppm	94.2644 %	102.4091 %	91.1698 %	97.5983 %	106.9710 %	99.0289 %
Concentration per Run 1	0.6980 ppm	93.2092 %	102.3815 %	91.0877 %	96.6766 %	107.1872 %	99.3001 %
Concentration per Run 2	0.6910 ppm	94.3341 %	102.0925 %	90.7883 %	97.6735 %	106.6441 %	98.6022 %
Concentration per Run 3	0.6837 ppm	95.2498 %	102.7533 %	91.6336 %	98.4448 %	107.0817 %	99.1843 %
Concentration RSD	1.0 %	1.1 %	0.3 %	0.5 %	0.9 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-05D2 WG1975335
Analysis started at: 9/26/2024 2:38:22 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	39.4333 ppm	0.0400 ppm	0.0058 ppm	0.1531 ppm	0.0022 ppm	4.9642 ppm
Concentration per Run 1	-0.0001 ppm	39.5763 ppm	0.0402 ppm	0.0060 ppm	0.1542 ppm	0.0022 ppm	5.0056 ppm
Concentration per Run 2	0.0000 ppm	39.6494 ppm	0.0391 ppm	0.0050 ppm	0.1535 ppm	0.0022 ppm	4.9761 ppm
Concentration per Run 3	0.0001 ppm	39.0741 ppm	0.0406 ppm	0.0063 ppm	0.1516 ppm	0.0022 ppm	4.9109 ppm
Concentration RSD	21,579.4 %	0.8 %	1.9 %	11.8 %	0.9 %	1.8 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0950 ppm	0.0296 ppm	0.1007 ppm	0.1290 ppm	87.4149 ppm	3.3930 ppm	0.0570 ppm
Concentration per Run 1	0.0963 ppm	0.0300 ppm	0.1011 ppm	0.1306 ppm	87.6646 ppm	3.4332 ppm	0.0580 ppm
Concentration per Run 2	0.0950 ppm	0.0295 ppm	0.1011 ppm	0.1292 ppm	87.6477 ppm	3.3918 ppm	0.0567 ppm
Concentration per Run 3	0.0936 ppm	0.0293 ppm	0.1000 ppm	0.1271 ppm	86.9326 ppm	3.3538 ppm	0.0562 ppm
Concentration RSD	1.4 %	1.2 %	0.7 %	1.4 %	0.5 %	1.2 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.6343 ppm	1.1440 ppm	0.0069 ppm	0.3330 ppm	0.0526 ppm	0.2738 ppm	0.0108 ppm
Concentration per Run 1	14.8176 ppm	1.1471 ppm	0.0073 ppm	0.3383 ppm	0.0528 ppm	0.2764 ppm	0.0120 ppm
Concentration per Run 2	14.6787 ppm	1.1512 ppm	0.0066 ppm	0.3349 ppm	0.0523 ppm	0.2737 ppm	0.0095 ppm
Concentration per Run 3	14.4067 ppm	1.1335 ppm	0.0069 ppm	0.3257 ppm	0.0526 ppm	0.2713 ppm	0.0109 ppm
Concentration RSD	1.4 %	0.8 %	4.9 %	2.0 %	0.5 %	0.9 %	11.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	2.9711 ppm	0.0166 ppm	0.0466 ppm	1.8470 ppm	0.0007 ppm	0.0944 ppm
Concentration per Run 1	0.0007 ppm	3.0182 ppm	0.0170 ppm	0.0471 ppm	1.8618 ppm	0.0001 ppm	0.0949 ppm
Concentration per Run 2	0.0009 ppm	2.9688 ppm	0.0169 ppm	0.0466 ppm	1.8541 ppm	0.0012 ppm	0.0947 ppm
Concentration per Run 3	0.0029 ppm	2.9263 ppm	0.0158 ppm	0.0461 ppm	1.8250 ppm	0.0006 ppm	0.0934 ppm
Concentration RSD	82.3 %	1.5 %	4.2 %	1.0 %	1.1 %	88.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4322 ppm	94.8118 %	105.5522 %	91.1133 %	106.5255 %	121.4099 %	110.9236 %
Concentration per Run 1	0.4358 ppm	93.8645 %	105.4688 %	91.0542 %	105.5648 %	121.7363 %	110.5746 %
Concentration per Run 2	0.4348 ppm	94.7010 %	104.8670 %	91.7925 %	106.4532 %	120.5315 %	111.5668 %
Concentration per Run 3	0.4260 ppm	95.8698 %	106.3207 %	90.4932 %	107.5583 %	121.9620 %	110.6293 %
Concentration RSD	1.2 %	1.1 %	0.7 %	0.7 %	0.9 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-07D2 WG1975335
Analysis started at: 9/26/2024 2:42:19 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	24.9329 ppm	0.0240 ppm	0.0032 ppm	0.0877 ppm	0.0016 ppm	4.7366 ppm
Concentration per Run 1	-0.0003 ppm	24.6893 ppm	0.0220 ppm	0.0038 ppm	0.0868 ppm	0.0017 ppm	4.7905 ppm
Concentration per Run 2	-0.0003 ppm	25.2091 ppm	0.0256 ppm	0.0031 ppm	0.0886 ppm	0.0016 ppm	4.7366 ppm
Concentration per Run 3	-0.0002 ppm	24.9004 ppm	0.0245 ppm	0.0028 ppm	0.0877 ppm	0.0016 ppm	4.6826 ppm
Concentration RSD	28.7 %	1.0 %	7.7 %	17.0 %	1.0 %	3.8 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0172 ppm	0.0612 ppm	0.0372 ppm	50.9364 ppm	2.5891 ppm	0.0435 ppm
Concentration per Run 1	0.0024 ppm	0.0174 ppm	0.0621 ppm	0.0382 ppm	50.4086 ppm	2.5328 ppm	0.0425 ppm
Concentration per Run 2	0.0024 ppm	0.0172 ppm	0.0608 ppm	0.0373 ppm	51.3377 ppm	2.6276 ppm	0.0449 ppm
Concentration per Run 3	0.0024 ppm	0.0170 ppm	0.0607 ppm	0.0361 ppm	51.0628 ppm	2.6068 ppm	0.0432 ppm
Concentration RSD	0.3 %	1.0 %	1.2 %	2.7 %	0.9 %	1.9 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0718 ppm	0.7085 ppm	0.0068 ppm	0.3541 ppm	0.0326 ppm	0.0300 ppm	-0.0016 ppm
Concentration per Run 1	10.2158 ppm	0.7074 ppm	0.0073 ppm	0.3424 ppm	0.0332 ppm	0.0300 ppm	-0.0017 ppm
Concentration per Run 2	10.0787 ppm	0.7128 ppm	0.0066 ppm	0.3602 ppm	0.0324 ppm	0.0302 ppm	-0.0023 ppm
Concentration per Run 3	9.9210 ppm	0.7054 ppm	0.0065 ppm	0.3596 ppm	0.0320 ppm	0.0297 ppm	-0.0009 ppm
Concentration RSD	1.5 %	0.5 %	6.9 %	2.9 %	1.9 %	1.0 %	43.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	1.9537 ppm	0.0034 ppm	0.0387 ppm	1.3992 ppm	-0.0004 ppm	0.0619 ppm
Concentration per Run 1	0.0014 ppm	1.9936 ppm	0.0039 ppm	0.0397 ppm	1.4164 ppm	-0.0007 ppm	0.0621 ppm
Concentration per Run 2	0.0011 ppm	1.9430 ppm	0.0027 ppm	0.0383 ppm	1.3973 ppm	-0.0003 ppm	0.0622 ppm
Concentration per Run 3	0.0013 ppm	1.9246 ppm	0.0035 ppm	0.0381 ppm	1.3840 ppm	-0.0001 ppm	0.0614 ppm
Concentration RSD	13.0 %	1.8 %	19.0 %	2.2 %	1.2 %	80.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1205 ppm	94.1919 %	102.9368 %	91.2735 %	99.0059 %	110.6480 %	102.1308 %
Concentration per Run 1	0.1232 ppm	93.4916 %	100.9108 %	90.9269 %	99.0588 %	109.3762 %	102.0734 %
Concentration per Run 2	0.1198 ppm	93.8684 %	103.6283 %	91.2294 %	98.4766 %	110.9896 %	101.9609 %
Concentration per Run 3	0.1186 ppm	95.2158 %	104.2714 %	91.6642 %	99.4822 %	111.5782 %	102.3582 %
Concentration RSD	2.0 %	1.0 %	1.7 %	0.4 %	0.5 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-09D2 WG1975335
Analysis started at: 9/26/2024 2:46:16 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	58.8468 ppm	0.0719 ppm	0.0484 ppm	0.2996 ppm	0.0028 ppm	20.1269 ppm
Concentration per Run 1	0.0020 ppm	58.9158 ppm	0.0715 ppm	0.0493 ppm	0.2991 ppm	0.0028 ppm	20.1424 ppm
Concentration per Run 2	0.0019 ppm	59.0349 ppm	0.0707 ppm	0.0484 ppm	0.3019 ppm	0.0028 ppm	20.1710 ppm
Concentration per Run 3	0.0018 ppm	58.5896 ppm	0.0736 ppm	0.0476 ppm	0.2976 ppm	0.0028 ppm	20.0673 ppm
Concentration RSD	4.7 %	0.4 %	2.0 %	1.7 %	0.7 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0132 ppm	0.0444 ppm	0.3359 ppm	0.7087 ppm	147.5021 ppm	9.5586 ppm	0.1385 ppm
Concentration per Run 1	0.0133 ppm	0.0447 ppm	0.3373 ppm	0.7105 ppm	147.5051 ppm	9.5636 ppm	0.1391 ppm
Concentration per Run 2	0.0133 ppm	0.0442 ppm	0.3356 ppm	0.7086 ppm	148.5149 ppm	9.6680 ppm	0.1387 ppm
Concentration per Run 3	0.0131 ppm	0.0443 ppm	0.3347 ppm	0.7069 ppm	146.4863 ppm	9.4442 ppm	0.1377 ppm
Concentration RSD	1.0 %	0.7 %	0.4 %	0.3 %	0.7 %	1.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.5801 ppm	1.2629 ppm	0.0341 ppm	5.2435 ppm	0.1069 ppm	6.5448 ppm	0.0235 ppm
Concentration per Run 1	27.7296 ppm	1.2656 ppm	0.0345 ppm	5.2408 ppm	0.1080 ppm	6.5427 ppm	0.0211 ppm
Concentration per Run 2	27.6009 ppm	1.2640 ppm	0.0337 ppm	5.2535 ppm	0.1066 ppm	6.5737 ppm	0.0252 ppm
Concentration per Run 3	27.4099 ppm	1.2590 ppm	0.0342 ppm	5.2363 ppm	0.1061 ppm	6.5182 ppm	0.0240 ppm
Concentration RSD	0.6 %	0.3 %	1.2 %	0.2 %	0.9 %	0.4 %	8.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	1.7455 ppm	0.2260 ppm	0.1273 ppm	3.4342 ppm	0.0017 ppm	0.1845 ppm
Concentration per Run 1	0.0015 ppm	1.7586 ppm	0.2268 ppm	0.1268 ppm	3.4435 ppm	0.0022 ppm	0.1850 ppm
Concentration per Run 2	0.0044 ppm	1.7555 ppm	0.2265 ppm	0.1277 ppm	3.4367 ppm	0.0014 ppm	0.1850 ppm
Concentration per Run 3	0.0039 ppm	1.7222 ppm	0.2248 ppm	0.1274 ppm	3.4222 ppm	0.0014 ppm	0.1835 ppm
Concentration RSD	47.2 %	1.2 %	0.5 %	0.4 %	0.3 %	28.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0548 ppm	96.6465 %	108.3108 %	88.4036 %	104.1592 %	119.5967 %	105.8163 %
Concentration per Run 1	2.0736 ppm	95.7443 %	107.9905 %	88.3539 %	103.3468 %	118.9699 %	105.7370 %
Concentration per Run 2	2.0435 ppm	96.4626 %	108.3307 %	88.5090 %	103.5925 %	119.8454 %	106.0548 %
Concentration per Run 3	2.0474 ppm	97.7327 %	108.6112 %	88.3481 %	105.5383 %	119.9747 %	105.6572 %
Concentration RSD	0.8 %	1.0 %	0.3 %	0.1 %	1.2 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-11D2 WG1975335
Analysis started at: 9/26/2024 2:50:12 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0017 ppm	230.2629 ppm	0.1543 ppm	0.0781 ppm	0.9354 ppm	0.0109 ppm	32.3841 ppm
Concentration per Run 1	-0.0015 ppm	230.6685 ppm	0.1550 ppm	0.0782 ppm	0.9335 ppm	0.0110 ppm	32.3588 ppm
Concentration per Run 2	-0.0025 ppm	230.5597 ppm	0.1537 ppm	0.0791 ppm	0.9394 ppm	0.0109 ppm	32.5082 ppm
Concentration per Run 3	-0.0011 ppm	229.5604 ppm	0.1541 ppm	0.0768 ppm	0.9332 ppm	0.0108 ppm	32.2852 ppm
Concentration RSD	42.6 %	0.3 %	0.4 %	1.5 %	0.4 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1387 ppm	0.4866 ppm	0.2944 ppm	322.3279 ppm	78.1261 ppm	0.4507 ppm
Concentration per Run 1	0.0002 ppm	0.1393 ppm	0.4884 ppm	0.2971 ppm	322.4485 ppm	77.9448 ppm	0.4515 ppm
Concentration per Run 2	0.0000 ppm	0.1385 ppm	0.4873 ppm	0.2942 ppm	323.5300 ppm	78.2827 ppm	0.4504 ppm
Concentration per Run 3	0.0004 ppm	0.1384 ppm	0.4841 ppm	0.2918 ppm	321.0051 ppm	78.1508 ppm	0.4501 ppm
Concentration RSD	106.6 %	0.4 %	0.5 %	0.9 %	0.4 %	0.2 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	111.9318 ppm	5.6966 ppm	0.0065 ppm	19.8911 ppm	0.3359 ppm	0.1444 ppm	0.0019 ppm
Concentration per Run 1	112.5968 ppm	5.6991 ppm	0.0064 ppm	19.9978 ppm	0.3370 ppm	0.1445 ppm	0.0024 ppm
Concentration per Run 2	111.6156 ppm	5.7041 ppm	0.0059 ppm	19.8441 ppm	0.3358 ppm	0.1451 ppm	-0.0036 ppm
Concentration per Run 3	111.5831 ppm	5.6867 ppm	0.0071 ppm	19.8313 ppm	0.3350 ppm	0.1437 ppm	0.0069 ppm
Concentration RSD	0.5 %	0.2 %	9.4 %	0.5 %	0.3 %	0.5 %	275.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	1.4212 ppm	0.0116 ppm	0.2296 ppm	14.2033 ppm	0.0083 ppm	0.6214 ppm
Concentration per Run 1	0.0004 ppm	1.4393 ppm	0.0128 ppm	0.2297 ppm	14.2618 ppm	0.0094 ppm	0.6262 ppm
Concentration per Run 2	0.0017 ppm	1.4214 ppm	0.0096 ppm	0.2306 ppm	14.2310 ppm	0.0100 ppm	0.6235 ppm
Concentration per Run 3	0.0011 ppm	1.4029 ppm	0.0123 ppm	0.2284 ppm	14.1171 ppm	0.0055 ppm	0.6145 ppm
Concentration RSD	62.7 %	1.3 %	15.3 %	0.5 %	0.5 %	29.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7948 ppm	102.0817 %	111.1532 %	79.4440 %	123.8656 %	141.4525 %	129.1069 %
Concentration per Run 1	0.7982 ppm	101.3472 %	110.7862 %	79.7281 %	123.6100 %	141.1096 %	129.1728 %
Concentration per Run 2	0.7883 ppm	102.1002 %	111.2072 %	79.1960 %	123.4661 %	141.3916 %	129.1599 %
Concentration per Run 3	0.7979 ppm	102.7977 %	111.4663 %	79.4079 %	124.5207 %	141.8562 %	128.9880 %
Concentration RSD	0.7 %	0.7 %	0.3 %	0.3 %	0.5 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-13D2 WG1975335
Analysis started at: 9/26/2024 2:54:09 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0027 ppm	236.2058 ppm	0.1512 ppm	0.0831 ppm	0.9359 ppm	0.0112 ppm	37.2725 ppm
Concentration per Run 1	-0.0034 ppm	235.5168 ppm	0.1531 ppm	0.0841 ppm	0.9337 ppm	0.0113 ppm	37.2773 ppm
Concentration per Run 2	-0.0020 ppm	238.5828 ppm	0.1502 ppm	0.0827 ppm	0.9460 ppm	0.0111 ppm	37.5005 ppm
Concentration per Run 3	-0.0026 ppm	234.5176 ppm	0.1502 ppm	0.0825 ppm	0.9279 ppm	0.0113 ppm	37.0398 ppm
Concentration RSD	26.7 %	0.9 %	1.1 %	1.0 %	1.0 %	0.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.1429 ppm	0.5253 ppm	0.2990 ppm	330.7569 ppm	77.8984 ppm	0.4792 ppm
Concentration per Run 1	-0.0002 ppm	0.1441 ppm	0.5300 ppm	0.2989 ppm	330.6272 ppm	77.8089 ppm	0.4808 ppm
Concentration per Run 2	0.0001 ppm	0.1436 ppm	0.5222 ppm	0.3016 ppm	334.9716 ppm	78.7555 ppm	0.4831 ppm
Concentration per Run 3	0.0002 ppm	0.1410 ppm	0.5236 ppm	0.2964 ppm	326.6719 ppm	77.1306 ppm	0.4738 ppm
Concentration RSD	1,035.5 %	1.2 %	0.8 %	0.9 %	1.3 %	1.0 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	119.1697 ppm	5.5662 ppm	0.0066 ppm	20.1215 ppm	0.3574 ppm	0.1453 ppm	0.0014 ppm
Concentration per Run 1	119.7015 ppm	5.5647 ppm	0.0063 ppm	20.0016 ppm	0.3614 ppm	0.1449 ppm	0.0022 ppm
Concentration per Run 2	119.4171 ppm	5.6006 ppm	0.0063 ppm	20.4079 ppm	0.3546 ppm	0.1451 ppm	-0.0001 ppm
Concentration per Run 3	118.3906 ppm	5.5333 ppm	0.0072 ppm	19.9552 ppm	0.3561 ppm	0.1458 ppm	0.0020 ppm
Concentration RSD	0.6 %	0.6 %	7.5 %	1.2 %	1.0 %	0.3 %	92.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	1.6663 ppm	0.0116 ppm	0.2689 ppm	14.5665 ppm	0.0099 ppm	0.6358 ppm
Concentration per Run 1	0.0005 ppm	1.6840 ppm	0.0102 ppm	0.2679 ppm	14.6946 ppm	0.0103 ppm	0.6447 ppm
Concentration per Run 2	-0.0008 ppm	1.6645 ppm	0.0131 ppm	0.2696 ppm	14.5263 ppm	0.0114 ppm	0.6317 ppm
Concentration per Run 3	-0.0023 ppm	1.6503 ppm	0.0114 ppm	0.2693 ppm	14.4787 ppm	0.0080 ppm	0.6311 ppm
Concentration RSD	162.8 %	1.0 %	12.5 %	0.3 %	0.8 %	17.3 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7996 ppm	101.6065 %	110.0102 %	78.5898 %	123.8776 %	140.8275 %	129.7190 %
Concentration per Run 1	0.8007 ppm	100.5946 %	109.9451 %	79.3036 %	122.2235 %	139.9867 %	129.9555 %
Concentration per Run 2	0.7990 ppm	101.9339 %	109.4147 %	77.8692 %	124.9047 %	140.7901 %	129.3350 %
Concentration per Run 3	0.7990 ppm	102.2912 %	110.6707 %	78.5966 %	124.5046 %	141.7058 %	129.8665 %
Concentration RSD	0.1 %	0.9 %	0.6 %	0.9 %	1.2 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-15D2 WG1975335
Analysis started at: 9/26/2024 2:58:06 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0021 ppm	197.1978 ppm	0.1278 ppm	0.0690 ppm	0.7029 ppm	0.0091 ppm	46.0131 ppm
Concentration per Run 1	-0.0022 ppm	196.8716 ppm	0.1282 ppm	0.0688 ppm	0.6969 ppm	0.0091 ppm	46.0898 ppm
Concentration per Run 2	-0.0021 ppm	198.6732 ppm	0.1292 ppm	0.0694 ppm	0.7126 ppm	0.0091 ppm	46.1300 ppm
Concentration per Run 3	-0.0021 ppm	196.0487 ppm	0.1259 ppm	0.0687 ppm	0.6993 ppm	0.0090 ppm	45.8195 ppm
Concentration RSD	3.0 %	0.7 %	1.3 %	0.5 %	1.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1344 ppm	0.4124 ppm	0.2725 ppm	304.4076 ppm	57.3127 ppm	0.3803 ppm
Concentration per Run 1	-0.0002 ppm	0.1344 ppm	0.4144 ppm	0.2729 ppm	302.4337 ppm	56.9990 ppm	0.3791 ppm
Concentration per Run 2	0.0002 ppm	0.1354 ppm	0.4118 ppm	0.2731 ppm	308.3845 ppm	57.7048 ppm	0.3835 ppm
Concentration per Run 3	-0.0001 ppm	0.1333 ppm	0.4110 ppm	0.2714 ppm	302.4044 ppm	57.2342 ppm	0.3782 ppm
Concentration RSD	335.6 %	0.8 %	0.4 %	0.3 %	1.1 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	100.9684 ppm	5.2147 ppm	0.0050 ppm	10.7693 ppm	0.2962 ppm	0.1197 ppm	0.0010 ppm
Concentration per Run 1	101.2952 ppm	5.1986 ppm	0.0049 ppm	10.7381 ppm	0.2961 ppm	0.1185 ppm	0.0005 ppm
Concentration per Run 2	101.0722 ppm	5.2529 ppm	0.0047 ppm	10.8264 ppm	0.2969 ppm	0.1186 ppm	0.0006 ppm
Concentration per Run 3	100.5378 ppm	5.1927 ppm	0.0053 ppm	10.7435 ppm	0.2955 ppm	0.1220 ppm	0.0019 ppm
Concentration RSD	0.4 %	0.6 %	6.0 %	0.5 %	0.3 %	1.6 %	74.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.7961 ppm	0.0079 ppm	0.2499 ppm	12.2131 ppm	0.0062 ppm	0.5519 ppm
Concentration per Run 1	0.0007 ppm	1.8046 ppm	0.0084 ppm	0.2501 ppm	12.2589 ppm	0.0070 ppm	0.5538 ppm
Concentration per Run 2	0.0032 ppm	1.7974 ppm	0.0084 ppm	0.2504 ppm	12.2118 ppm	0.0066 ppm	0.5523 ppm
Concentration per Run 3	-0.0015 ppm	1.7864 ppm	0.0070 ppm	0.2491 ppm	12.1686 ppm	0.0050 ppm	0.5497 ppm
Concentration RSD	287.8 %	0.5 %	10.2 %	0.3 %	0.4 %	16.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6904 ppm	100.4745 %	109.2802 %	79.7510 %	122.7219 %	139.8473 %	127.8135 %
Concentration per Run 1	0.6935 ppm	99.8928 %	110.3097 %	80.5984 %	121.6916 %	141.2191 %	128.5532 %
Concentration per Run 2	0.6903 ppm	100.5048 %	107.8814 %	79.3298 %	123.0393 %	138.4369 %	127.6293 %
Concentration per Run 3	0.6873 ppm	101.0258 %	109.6497 %	79.3246 %	123.4346 %	139.8859 %	127.2581 %
Concentration RSD	0.5 %	0.6 %	1.1 %	0.9 %	0.7 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-17D2 WG1975335
Analysis started at: 9/26/2024 3:02:03 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0028 ppm	104.2474 ppm	0.1148 ppm	0.0388 ppm	1.2538 ppm	0.0049 ppm	158.2426 ppm
Concentration per Run 1	0.0029 ppm	104.1259 ppm	0.1148 ppm	0.0399 ppm	1.2571 ppm	0.0049 ppm	157.9101 ppm
Concentration per Run 2	0.0026 ppm	104.2903 ppm	0.1137 ppm	0.0385 ppm	1.2432 ppm	0.0050 ppm	158.5103 ppm
Concentration per Run 3	0.0029 ppm	104.3261 ppm	0.1159 ppm	0.0379 ppm	1.2612 ppm	0.0049 ppm	158.3075 ppm
Concentration RSD	5.6 %	0.1 %	1.0 %	2.6 %	0.8 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0713 ppm	0.0888 ppm	0.2494 ppm	2.6449 ppm	247.9795 ppm	10.2388 ppm	0.1663 ppm
Concentration per Run 1	0.0720 ppm	0.0904 ppm	0.2524 ppm	2.6697 ppm	248.1128 ppm	10.3089 ppm	0.1685 ppm
Concentration per Run 2	0.0712 ppm	0.0887 ppm	0.2487 ppm	2.6474 ppm	246.6893 ppm	10.1852 ppm	0.1660 ppm
Concentration per Run 3	0.0707 ppm	0.0872 ppm	0.2471 ppm	2.6176 ppm	249.1365 ppm	10.2223 ppm	0.1644 ppm
Concentration RSD	0.9 %	1.8 %	1.1 %	1.0 %	0.5 %	0.6 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.0453 ppm	3.7752 ppm	0.0135 ppm	1.7413 ppm	0.2399 ppm	4.8767 ppm	0.1641 ppm
Concentration per Run 1	55.6891 ppm	3.7671 ppm	0.0130 ppm	1.7453 ppm	0.2431 ppm	4.8800 ppm	0.1634 ppm
Concentration per Run 2	55.0170 ppm	3.7752 ppm	0.0136 ppm	1.7374 ppm	0.2391 ppm	4.8834 ppm	0.1639 ppm
Concentration per Run 3	54.4299 ppm	3.7832 ppm	0.0139 ppm	1.7413 ppm	0.2375 ppm	4.8667 ppm	0.1651 ppm
Concentration RSD	1.1 %	0.2 %	3.1 %	0.2 %	1.2 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0050 ppm	9.1217 ppm	1.2788 ppm	0.7675 ppm	3.4592 ppm	0.0014 ppm	0.3793 ppm
Concentration per Run 1	0.0022 ppm	9.2310 ppm	1.2950 ppm	0.7689 ppm	3.4799 ppm	-0.0013 ppm	0.3826 ppm
Concentration per Run 2	0.0070 ppm	9.1155 ppm	1.2750 ppm	0.7666 ppm	3.4538 ppm	0.0020 ppm	0.3805 ppm
Concentration per Run 3	0.0057 ppm	9.0187 ppm	1.2664 ppm	0.7670 ppm	3.4438 ppm	0.0035 ppm	0.3749 ppm
Concentration RSD	49.9 %	1.2 %	1.1 %	0.2 %	0.5 %	174.7 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	20.0530 [SIC 50]	94.7738 %	108.2681 %	83.3832 %	108.3433 %	127.1790 %	109.2795 %
Concentration per Run 1	20.3942 ppm	93.8834 %	108.4954 %	83.6433 %	107.8125 %	127.2601 %	109.4570 %
Concentration per Run 2	20.0017 ppm	94.8337 %	108.3798 %	83.2401 %	108.3211 %	127.1969 %	109.1502 %
Concentration per Run 3	19.7633 ppm	95.6044 %	107.9291 %	83.2662 %	108.8962 %	127.0800 %	109.2314 %
Concentration RSD	1.6 %	0.9 %	0.3 %	0.3 %	0.5 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:06:01 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5086 ppm	0.5003 ppm	0.4908 ppm	0.5031 ppm	0.5076 ppm	0.5200 ppm	0.5022 ppm
Concentration per Run 1	0.5133 ppm	0.5013 ppm	0.4911 ppm	0.5067 ppm	0.5097 ppm	0.5220 ppm	0.5017 ppm
Concentration per Run 2	0.5080 ppm	0.4971 ppm	0.4932 ppm	0.5018 ppm	0.5065 ppm	0.5167 ppm	0.5037 ppm
Concentration per Run 3	0.5044 ppm	0.5025 ppm	0.4881 ppm	0.5008 ppm	0.5066 ppm	0.5212 ppm	0.5013 ppm
Recovery Percentage 1	101.714 %	100.055 %	98.158 %	100.622 %	101.518 %	103.994 %	100.449 %
Concentration RSD	0.9 %	0.6 %	0.5 %	0.6 %	0.4 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5151 ppm	0.5147 ppm	0.5044 ppm	0.4997 ppm	0.5341 ppm	5.3402 ppm	0.5022 ppm
Concentration per Run 1	0.5195 ppm	0.5192 ppm	0.5093 ppm	0.5048 ppm	0.5359 ppm	5.3904 ppm	0.5054 ppm
Concentration per Run 2	0.5136 ppm	0.5140 ppm	0.5040 ppm	0.4991 ppm	0.5332 ppm	5.3260 ppm	0.4999 ppm
Concentration per Run 3	0.5123 ppm	0.5108 ppm	0.5001 ppm	0.4953 ppm	0.5332 ppm	5.3041 ppm	0.5013 ppm
Recovery Percentage 1	103.023 %	102.935 %	100.888 %	99.944 %	106.828 %	106.804 %	100.441 %
Concentration RSD	0.7 %	0.8 %	0.9 %	1.0 %	0.3 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4991 ppm	0.5064 ppm	0.5080 ppm	10.2639 ppm	0.5148 ppm	0.5040 ppm	0.5067 ppm
Concentration per Run 1	0.5048 ppm	0.5081 ppm	0.5094 ppm	10.3209 ppm	0.5196 ppm	0.5043 ppm	0.5141 ppm
Concentration per Run 2	0.4977 ppm	0.5064 ppm	0.5069 ppm	10.2437 ppm	0.5142 ppm	0.5050 ppm	0.5020 ppm
Concentration per Run 3	0.4949 ppm	0.5048 ppm	0.5077 ppm	10.2271 ppm	0.5107 ppm	0.5027 ppm	0.5039 ppm
Recovery Percentage 1	99.829 %	101.289 %	101.600 %	102.639 %	102.969 %	100.798 %	101.333 %
Concentration RSD	1.0 %	0.3 %	0.2 %	0.5 %	0.9 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5033 ppm	5.6755 ppm	0.4924 ppm	0.4898 ppm	0.5085 ppm	0.5035 ppm	0.5068 ppm
Concentration per Run 1	0.5058 ppm	5.7315 ppm	0.4960 ppm	0.4901 ppm	0.5117 ppm	0.5079 ppm	0.5115 ppm
Concentration per Run 2	0.5045 ppm	5.6586 ppm	0.4923 ppm	0.4905 ppm	0.5121 ppm	0.5032 ppm	0.5065 ppm
Concentration per Run 3	0.4996 ppm	5.6364 ppm	0.4889 ppm	0.4888 ppm	0.5017 ppm	0.4992 ppm	0.5025 ppm
Recovery Percentage 1	100.661 %	108.105 %	98.479 %	97.961 %	101.702 %	100.693 %	101.367 %
Concentration RSD	0.6 %	0.9 %	0.7 %	0.2 %	1.2 %	0.9 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5143 ppm	93.9251 %	102.5292 %	92.5472 %	91.1122 %	100.6228 %	92.6283 %
Concentration per Run 1	0.5189 ppm	93.1618 %	102.1457 %	92.3236 %	90.5071 %	100.2784 %	92.6112 %
Concentration per Run 2	0.5115 ppm	94.2775 %	102.3172 %	92.3466 %	91.3063 %	100.4239 %	92.4921 %
Concentration per Run 3	0.5125 ppm	94.3360 %	103.1247 %	92.9714 %	91.5231 %	101.1660 %	92.7817 %
Recovery Percentage 1	102.858 %						
Concentration RSD	0.8 %	0.7 %	0.5 %	0.4 %	0.6 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 3:09:57 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0012 ppm	0.0011 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 1	-0.0002 ppm	-0.0012 ppm	0.0010 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 2	-0.0003 ppm	-0.0056 ppm	0.0011 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0031 ppm
Concentration per Run 3	-0.0002 ppm	0.0032 ppm	0.0011 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Recovery Percentage 1	-3.282 %	-1.208 %	35.043 %	4.317 %	0.828 %	-0.322 %	4.165 %
Concentration RSD	42.8 %	362.2 %	6.6 %	42.3 %	96.7 %	334.6 %	34.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0013 ppm	0.0060 ppm	0.0093 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0016 ppm	0.0068 ppm	0.0208 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0010 ppm	0.0048 ppm	-0.0065 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0002 ppm	0.0014 ppm	0.0065 ppm	0.0135 ppm	0.0009 ppm
Recovery Percentage 1	1.809 %	-2.152 %	0.391 %	13.495 %	12.033 %	0.370 %	9.383 %
Concentration RSD	56.3 %	53.6 %	582.4 %	22.6 %	18.1 %	152.4 %	90.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0001 ppm	0.0016 ppm	0.0050 ppm	0.0003 ppm	0.0001 ppm	-0.0031 ppm
Concentration per Run 1	0.0009 ppm	0.0002 ppm	0.0014 ppm	0.0017 ppm	0.0004 ppm	0.0006 ppm	-0.0032 ppm
Concentration per Run 2	0.0010 ppm	0.0002 ppm	0.0017 ppm	0.0040 ppm	0.0004 ppm	-0.0010 ppm	-0.0038 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	0.0017 ppm	0.0091 ppm	0.0001 ppm	0.0006 ppm	-0.0025 ppm
Recovery Percentage 1	0.918 %	1.461 %	3.207 %	0.248 %	1.207 %	0.778 %	-6.278 %
Concentration RSD	5.2 %	46.2 %	10.2 %	76.5 %	61.4 %	1,215.9 %	20.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.0025 ppm	0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0022 ppm	0.0030 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	0.0022 ppm	0.0025 ppm	0.0009 ppm	-0.0001 ppm	0.0005 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0020 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0011 ppm	0.0000 ppm
Recovery Percentage 1	21.171 %	0.494 %	1.316 %	-0.329 %	3.686 %	1.579 %	0.225 %
Concentration RSD	3.9 %	23.2 %	59.1 %	133.6 %	28.3 %	359.7 %	414.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	92.2456 %	101.2724 %	93.2132 %	92.4305 %	101.1143 %	94.5457 %
Concentration per Run 1	0.0007 ppm	91.1993 %	101.8449 %	93.2830 %	92.0028 %	102.2499 %	94.7985 %
Concentration per Run 2	0.0006 ppm	92.4809 %	101.3182 %	93.1125 %	92.6211 %	100.5484 %	94.3748 %
Concentration per Run 3	0.0008 ppm	93.0567 %	100.6541 %	93.2440 %	92.6674 %	100.5445 %	94.4638 %
Recovery Percentage 1	13.382 %						
Concentration RSD	15.9 %	1.0 %	0.6 %	0.1 %	0.4 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-19D2 WG1975335
Analysis started at: 9/26/2024 3:18:47 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	88.8007 ppm	0.1225 ppm	0.0883 ppm	0.8219 ppm	0.0039 ppm	307.0234 ppm
Concentration per Run 1	0.0010 ppm	88.7476 ppm	0.1197 ppm	0.0887 ppm	0.8218 ppm	0.0039 ppm	307.7822 ppm
Concentration per Run 2	0.0017 ppm	88.7791 ppm	0.1240 ppm	0.0875 ppm	0.8265 ppm	0.0039 ppm	306.8883 ppm
Concentration per Run 3	0.0012 ppm	88.8755 ppm	0.1239 ppm	0.0889 ppm	0.8175 ppm	0.0039 ppm	306.3997 ppm
Concentration RSD	26.5 %	0.1 %	2.0 %	0.8 %	0.6 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0068 ppm	0.0901 ppm	0.4030 ppm	1.0778 ppm	374.3628 ppm	8.8766 ppm	0.1600 ppm
Concentration per Run 1	0.0069 ppm	0.0897 ppm	0.4036 ppm	1.0830 ppm	376.0363 ppm	8.9391 ppm	0.1620 ppm
Concentration per Run 2	0.0065 ppm	0.0902 ppm	0.4025 ppm	1.0668 ppm	375.0117 ppm	8.8381 ppm	0.1591 ppm
Concentration per Run 3	0.0070 ppm	0.0905 ppm	0.4030 ppm	1.0837 ppm	372.0403 ppm	8.8526 ppm	0.1589 ppm
Concentration RSD	4.1 %	0.4 %	0.1 %	0.9 %	0.6 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	104.4742 ppm	4.7398 ppm	0.0227 ppm	2.6803 ppm	1.1170 ppm	1.8426 ppm	0.0139 ppm
Concentration per Run 1	104.5842 ppm	4.7423 ppm	0.0229 ppm	2.6768 ppm	1.1187 ppm	1.8500 ppm	0.0122 ppm
Concentration per Run 2	104.1693 ppm	4.7417 ppm	0.0229 ppm	2.6976 ppm	1.1114 ppm	1.8339 ppm	0.0165 ppm
Concentration per Run 3	104.6690 ppm	4.7354 ppm	0.0224 ppm	2.6665 ppm	1.1209 ppm	1.8440 ppm	0.0129 ppm
Concentration RSD	0.3 %	0.1 %	1.2 %	0.6 %	0.4 %	0.4 %	16.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0060 ppm	17.1111 ppm	0.0608 ppm	1.7753 ppm	3.1902 ppm	0.0082 ppm	3.2331 ppm
Concentration per Run 1	0.0070 ppm	17.1406 ppm	0.0607 ppm	1.7709 ppm	3.1935 ppm	0.0067 ppm	3.2362 ppm
Concentration per Run 2	0.0050 ppm	17.1095 ppm	0.0606 ppm	1.7830 ppm	3.1759 ppm	0.0075 ppm	3.2264 ppm
Concentration per Run 3	0.0061 ppm	17.0833 ppm	0.0612 ppm	1.7720 ppm	3.2010 ppm	0.0106 ppm	3.2367 ppm
Concentration RSD	16.8 %	0.2 %	0.5 %	0.4 %	0.4 %	25.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2160 ppm	93.8783 %	106.0775 %	79.0194 %	102.3679 %	118.8823 %	101.1099 %
Concentration per Run 1	2.2198 ppm	93.9780 %	105.8349 %	78.8160 %	102.5218 %	118.9881 %	101.0336 %
Concentration per Run 2	2.2029 ppm	94.1404 %	105.9490 %	79.5957 %	102.2564 %	118.4368 %	101.5908 %
Concentration per Run 3	2.2251 ppm	93.5166 %	106.4486 %	78.6464 %	102.3255 %	119.2218 %	100.7054 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.6 %	0.1 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-21D2 WG1975335
Analysis started at: 9/26/2024 3:22:49 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	43.0855 ppm	0.0153 ppm	0.0093 ppm	0.0653 ppm	0.0017 ppm	7.4433 ppm
Concentration per Run 1	-0.0005 ppm	43.4830 ppm	0.0156 ppm	0.0094 ppm	0.0659 ppm	0.0017 ppm	7.4370 ppm
Concentration per Run 2	-0.0005 ppm	43.2956 ppm	0.0156 ppm	0.0089 ppm	0.0659 ppm	0.0016 ppm	7.3990 ppm
Concentration per Run 3	-0.0002 ppm	42.4780 ppm	0.0147 ppm	0.0096 ppm	0.0640 ppm	0.0019 ppm	7.4938 ppm
Concentration RSD	42.7 %	1.2 %	3.3 %	4.2 %	1.7 %	8.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0295 ppm	0.0917 ppm	0.0463 ppm	64.9849 ppm	4.8129 ppm	0.1482 ppm
Concentration per Run 1	-0.0001 ppm	0.0300 ppm	0.0929 ppm	0.0472 ppm	65.8345 ppm	4.9427 ppm	0.1540 ppm
Concentration per Run 2	-0.0002 ppm	0.0291 ppm	0.0912 ppm	0.0466 ppm	65.5166 ppm	4.8781 ppm	0.1496 ppm
Concentration per Run 3	0.0000 ppm	0.0294 ppm	0.0911 ppm	0.0451 ppm	63.6037 ppm	4.6179 ppm	0.1409 ppm
Concentration RSD	110.2 %	1.5 %	1.1 %	2.3 %	1.9 %	3.6 %	4.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.2809 ppm	0.6431 ppm	0.0070 ppm	0.7727 ppm	0.0701 ppm	0.0221 ppm	-0.0024 ppm
Concentration per Run 1	18.5491 ppm	0.6460 ppm	0.0069 ppm	0.7912 ppm	0.0714 ppm	0.0217 ppm	-0.0013 ppm
Concentration per Run 2	18.1642 ppm	0.6431 ppm	0.0065 ppm	0.7786 ppm	0.0696 ppm	0.0227 ppm	-0.0035 ppm
Concentration per Run 3	18.1295 ppm	0.6402 ppm	0.0076 ppm	0.7483 ppm	0.0692 ppm	0.0218 ppm	-0.0023 ppm
Concentration RSD	1.3 %	0.5 %	8.0 %	2.9 %	1.6 %	2.4 %	47.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	3.8396 ppm	0.0021 ppm	0.0362 ppm	2.5243 ppm	0.0002 ppm	0.1083 ppm
Concentration per Run 1	0.0018 ppm	3.8974 ppm	0.0022 ppm	0.0362 ppm	2.5652 ppm	-0.0004 ppm	0.1101 ppm
Concentration per Run 2	0.0023 ppm	3.8285 ppm	0.0025 ppm	0.0359 ppm	2.5062 ppm	0.0004 ppm	0.1076 ppm
Concentration per Run 3	-0.0001 ppm	3.7930 ppm	0.0015 ppm	0.0366 ppm	2.5014 ppm	0.0006 ppm	0.1072 ppm
Concentration RSD	97.9 %	1.4 %	26.3 %	1.0 %	1.4 %	228.5 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1297 ppm	92.6166 %	104.3185 %	89.4568 %	94.5540 %	109.1411 %	99.1794 %
Concentration per Run 1	0.1315 ppm	91.1864 %	105.3437 %	89.4996 %	93.8088 %	109.7831 %	99.1744 %
Concentration per Run 2	0.1289 ppm	93.0509 %	106.2808 %	89.2618 %	94.8184 %	110.8604 %	99.1292 %
Concentration per Run 3	0.1288 ppm	93.6125 %	101.3310 %	89.6089 %	95.0350 %	106.7799 %	99.2346 %
Concentration RSD	1.2 %	1.4 %	2.5 %	0.2 %	0.7 %	1.9 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-23D2 WG1975335
Analysis started at: 9/26/2024 3:26:46 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0024 ppm	229.5874 ppm	0.1644 ppm	0.0784 ppm	0.8993 ppm	0.0109 ppm	30.9338 ppm
Concentration per Run 1	-0.0022 ppm	230.8693 ppm	0.1639 ppm	0.0773 ppm	0.9094 ppm	0.0109 ppm	30.9978 ppm
Concentration per Run 2	-0.0023 ppm	229.5324 ppm	0.1670 ppm	0.0794 ppm	0.8973 ppm	0.0111 ppm	30.9445 ppm
Concentration per Run 3	-0.0029 ppm	228.3603 ppm	0.1622 ppm	0.0784 ppm	0.8911 ppm	0.0109 ppm	30.8592 ppm
Concentration RSD	16.3 %	0.5 %	1.5 %	1.3 %	1.0 %	0.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1406 ppm	0.4859 ppm	0.3002 ppm	323.6646 ppm	77.4862 ppm	0.4453 ppm
Concentration per Run 1	-0.0001 ppm	0.1411 ppm	0.4883 ppm	0.3023 ppm	327.0914 ppm	78.2910 ppm	0.4518 ppm
Concentration per Run 2	-0.0001 ppm	0.1407 ppm	0.4847 ppm	0.3004 ppm	322.1009 ppm	77.2632 ppm	0.4425 ppm
Concentration per Run 3	-0.0003 ppm	0.1401 ppm	0.4846 ppm	0.2979 ppm	321.8014 ppm	76.9045 ppm	0.4415 ppm
Concentration RSD	106.3 %	0.4 %	0.4 %	0.7 %	0.9 %	0.9 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	110.3193 ppm	5.4480 ppm	0.0058 ppm	15.4314 ppm	0.3397 ppm	0.1353 ppm	-0.0003 ppm
Concentration per Run 1	111.0181 ppm	5.4813 ppm	0.0057 ppm	15.5320 ppm	0.3421 ppm	0.1357 ppm	0.0026 ppm
Concentration per Run 2	110.1354 ppm	5.4327 ppm	0.0067 ppm	15.4584 ppm	0.3373 ppm	0.1354 ppm	-0.0027 ppm
Concentration per Run 3	109.8043 ppm	5.4298 ppm	0.0052 ppm	15.3038 ppm	0.3397 ppm	0.1348 ppm	-0.0007 ppm
Concentration RSD	0.6 %	0.5 %	13.1 %	0.8 %	0.7 %	0.4 %	981.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	2.2584 ppm	0.0099 ppm	0.2159 ppm	14.5608 ppm	0.0093 ppm	0.6226 ppm
Concentration per Run 1	0.0019 ppm	2.2795 ppm	0.0102 ppm	0.2176 ppm	14.5735 ppm	0.0084 ppm	0.6250 ppm
Concentration per Run 2	-0.0033 ppm	2.2475 ppm	0.0116 ppm	0.2164 ppm	14.5632 ppm	0.0107 ppm	0.6196 ppm
Concentration per Run 3	0.0012 ppm	2.2482 ppm	0.0081 ppm	0.2139 ppm	14.5459 ppm	0.0089 ppm	0.6232 ppm
Concentration RSD	3,242.3 %	0.8 %	17.9 %	0.9 %	0.1 %	12.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7842 ppm	102.0634 %	111.2383 %	78.9535 %	124.2198 %	141.9647 %	129.9606 %
Concentration per Run 1	0.7878 ppm	101.3832 %	110.4519 %	78.9486 %	123.6783 %	140.8546 %	129.4749 %
Concentration per Run 2	0.7824 ppm	102.5246 %	111.9419 %	78.8928 %	124.6966 %	142.9597 %	130.1157 %
Concentration per Run 3	0.7824 ppm	102.2825 %	111.3210 %	79.0191 %	124.2845 %	142.0798 %	130.2912 %
Concentration RSD	0.4 %	0.6 %	0.7 %	0.1 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-25D2 WG1975335
Analysis started at: 9/26/2024 3:30:42 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0024 ppm	246.7958 ppm	0.1664 ppm	0.0993 ppm	1.0429 ppm	0.0129 ppm	39.7576 ppm
Concentration per Run 1	-0.0030 ppm	247.0107 ppm	0.1666 ppm	0.1000 ppm	1.0483 ppm	0.0129 ppm	39.7193 ppm
Concentration per Run 2	-0.0021 ppm	247.8911 ppm	0.1658 ppm	0.0996 ppm	1.0450 ppm	0.0131 ppm	39.7901 ppm
Concentration per Run 3	-0.0021 ppm	245.4856 ppm	0.1669 ppm	0.0984 ppm	1.0354 ppm	0.0128 ppm	39.7632 ppm
Concentration RSD	21.9 %	0.5 %	0.4 %	0.8 %	0.6 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1377 ppm	0.5719 ppm	0.2740 ppm	328.7877 ppm	88.5092 ppm	0.5251 ppm
Concentration per Run 1	-0.0002 ppm	0.1380 ppm	0.5752 ppm	0.2739 ppm	329.8525 ppm	89.0515 ppm	0.5313 ppm
Concentration per Run 2	-0.0001 ppm	0.1378 ppm	0.5725 ppm	0.2753 ppm	329.2642 ppm	88.5234 ppm	0.5284 ppm
Concentration per Run 3	0.0001 ppm	0.1373 ppm	0.5681 ppm	0.2730 ppm	327.2464 ppm	87.9528 ppm	0.5154 ppm
Concentration RSD	187.4 %	0.3 %	0.6 %	0.4 %	0.4 %	0.6 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	119.2181 ppm	5.9704 ppm	0.0047 ppm	17.0879 ppm	0.3747 ppm	0.1501 ppm	0.0033 ppm
Concentration per Run 1	119.7830 ppm	5.9629 ppm	0.0049 ppm	17.1826 ppm	0.3774 ppm	0.1510 ppm	0.0042 ppm
Concentration per Run 2	119.1869 ppm	5.9829 ppm	0.0041 ppm	17.0614 ppm	0.3762 ppm	0.1486 ppm	0.0017 ppm
Concentration per Run 3	118.6844 ppm	5.9653 ppm	0.0052 ppm	17.0196 ppm	0.3707 ppm	0.1507 ppm	0.0039 ppm
Concentration RSD	0.5 %	0.2 %	12.1 %	0.5 %	1.0 %	0.9 %	42.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	2.3039 ppm	0.0147 ppm	0.3004 ppm	15.0167 ppm	0.0103 ppm	0.6183 ppm
Concentration per Run 1	-0.0049 ppm	2.3019 ppm	0.0142 ppm	0.3016 ppm	15.0840 ppm	0.0114 ppm	0.6223 ppm
Concentration per Run 2	-0.0016 ppm	2.3126 ppm	0.0155 ppm	0.3007 ppm	15.0273 ppm	0.0118 ppm	0.6159 ppm
Concentration per Run 3	0.0011 ppm	2.2972 ppm	0.0145 ppm	0.2989 ppm	14.9387 ppm	0.0077 ppm	0.6168 ppm
Concentration RSD	165.8 %	0.3 %	4.6 %	0.4 %	0.5 %	21.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8086 ppm	103.5786 %	111.7244 %	78.8165 %	126.4113 %	143.8714 %	131.2497 %
Concentration per Run 1	0.8101 ppm	102.7352 %	111.9581 %	78.8630 %	125.0582 %	143.9070 %	131.4348 %
Concentration per Run 2	0.8136 ppm	103.9719 %	111.9429 %	78.8281 %	127.0770 %	144.5985 %	130.8308 %
Concentration per Run 3	0.8022 ppm	104.0287 %	111.2721 %	78.7585 %	127.0986 %	143.1087 %	131.4834 %
Concentration RSD	0.7 %	0.7 %	0.4 %	0.1 %	0.9 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-27D2 WG1975335
Analysis started at: 9/26/2024 3:34:38 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0026 ppm	226.7609 ppm	0.1687 ppm	0.0654 ppm	0.7420 ppm	0.0109 ppm	47.2622 ppm
Concentration per Run 1	-0.0020 ppm	226.7993 ppm	0.1705 ppm	0.0668 ppm	0.7492 ppm	0.0109 ppm	47.2997 ppm
Concentration per Run 2	-0.0037 ppm	227.7938 ppm	0.1677 ppm	0.0647 ppm	0.7407 ppm	0.0111 ppm	47.7908 ppm
Concentration per Run 3	-0.0022 ppm	225.6895 ppm	0.1678 ppm	0.0647 ppm	0.7359 ppm	0.0106 ppm	46.6963 ppm
Concentration RSD	36.0 %	0.5 %	0.9 %	1.9 %	0.9 %	2.6 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1477 ppm	0.5180 ppm	0.2973 ppm	334.8322 ppm	62.4986 ppm	0.4663 ppm
Concentration per Run 1	-0.0001 ppm	0.1484 ppm	0.5195 ppm	0.2999 ppm	335.2211 ppm	62.8027 ppm	0.4769 ppm
Concentration per Run 2	-0.0004 ppm	0.1474 ppm	0.5188 ppm	0.2964 ppm	335.8572 ppm	62.0473 ppm	0.4672 ppm
Concentration per Run 3	-0.0004 ppm	0.1473 ppm	0.5158 ppm	0.2957 ppm	333.4184 ppm	62.6458 ppm	0.4547 ppm
Concentration RSD	68.4 %	0.4 %	0.4 %	0.8 %	0.4 %	0.6 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	120.7519 ppm	5.9811 ppm	0.0057 ppm	9.8234 ppm	0.3551 ppm	0.1418 ppm	0.0021 ppm
Concentration per Run 1	121.6311 ppm	5.9737 ppm	0.0059 ppm	9.8437 ppm	0.3560 ppm	0.1418 ppm	0.0038 ppm
Concentration per Run 2	120.4497 ppm	6.0210 ppm	0.0056 ppm	9.8458 ppm	0.3561 ppm	0.1437 ppm	-0.0026 ppm
Concentration per Run 3	120.1749 ppm	5.9486 ppm	0.0056 ppm	9.7808 ppm	0.3533 ppm	0.1398 ppm	0.0051 ppm
Concentration RSD	0.6 %	0.6 %	3.2 %	0.4 %	0.5 %	1.4 %	195.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	1.7701 ppm	0.0119 ppm	0.2835 ppm	13.7838 ppm	0.0076 ppm	0.6224 ppm
Concentration per Run 1	0.0023 ppm	1.7838 ppm	0.0115 ppm	0.2869 ppm	13.8308 ppm	0.0040 ppm	0.6219 ppm
Concentration per Run 2	0.0007 ppm	1.7564 ppm	0.0120 ppm	0.2841 ppm	13.7994 ppm	0.0079 ppm	0.6255 ppm
Concentration per Run 3	0.0004 ppm	1.7700 ppm	0.0122 ppm	0.2796 ppm	13.7212 ppm	0.0108 ppm	0.6199 ppm
Concentration RSD	92.1 %	0.8 %	3.3 %	1.3 %	0.4 %	44.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7862 ppm	101.7065 %	111.5483 %	78.9052 %	125.5319 %	144.3422 %	130.8815 %
Concentration per Run 1	0.7957 ppm	101.3517 %	112.7063 %	79.0922 %	125.1939 %	145.2603 %	130.8576 %
Concentration per Run 2	0.7805 ppm	101.3897 %	109.0480 %	77.9013 %	125.0638 %	142.2097 %	130.3010 %
Concentration per Run 3	0.7824 ppm	102.3780 %	112.8904 %	79.7223 %	126.3379 %	145.5566 %	131.4860 %
Concentration RSD	1.1 %	0.6 %	1.9 %	1.2 %	0.6 %	1.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-29D2 WG1975335
Analysis started at: 9/26/2024 3:38:35 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	49.8733 ppm	0.0513 ppm	0.0058 ppm	0.3123 ppm	0.0030 ppm	11.1393 ppm
Concentration per Run 1	0.0009 ppm	50.2270 ppm	0.0519 ppm	0.0061 ppm	0.3146 ppm	0.0030 ppm	11.2178 ppm
Concentration per Run 2	0.0006 ppm	49.7854 ppm	0.0518 ppm	0.0049 ppm	0.3125 ppm	0.0029 ppm	11.1408 ppm
Concentration per Run 3	0.0005 ppm	49.6074 ppm	0.0501 ppm	0.0064 ppm	0.3098 ppm	0.0029 ppm	11.0592 ppm
Concentration RSD	27.8 %	0.6 %	2.0 %	14.2 %	0.8 %	1.9 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0175 ppm	0.0392 ppm	0.1171 ppm	0.4246 ppm	122.1778 ppm	4.2901 ppm	0.0729 ppm
Concentration per Run 1	0.0175 ppm	0.0399 ppm	0.1188 ppm	0.4269 ppm	122.6742 ppm	4.3294 ppm	0.0743 ppm
Concentration per Run 2	0.0174 ppm	0.0386 ppm	0.1170 ppm	0.4243 ppm	121.9614 ppm	4.2336 ppm	0.0733 ppm
Concentration per Run 3	0.0175 ppm	0.0391 ppm	0.1155 ppm	0.4228 ppm	121.8978 ppm	4.3073 ppm	0.0712 ppm
Concentration RSD	0.5 %	1.7 %	1.4 %	0.5 %	0.4 %	1.2 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.5837 ppm	1.8063 ppm	0.0072 ppm	0.4601 ppm	0.0705 ppm	0.6421 ppm	0.0099 ppm
Concentration per Run 1	17.7324 ppm	1.8165 ppm	0.0072 ppm	0.4635 ppm	0.0709 ppm	0.6476 ppm	0.0108 ppm
Concentration per Run 2	17.6167 ppm	1.8004 ppm	0.0075 ppm	0.4605 ppm	0.0705 ppm	0.6421 ppm	0.0095 ppm
Concentration per Run 3	17.4021 ppm	1.8018 ppm	0.0070 ppm	0.4565 ppm	0.0700 ppm	0.6366 ppm	0.0093 ppm
Concentration RSD	1.0 %	0.5 %	4.1 %	0.8 %	0.6 %	0.9 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	2.4204 ppm	0.0462 ppm	0.0940 ppm	2.4393 ppm	0.0001 ppm	0.1484 ppm
Concentration per Run 1	0.0054 ppm	2.4359 ppm	0.0466 ppm	0.0948 ppm	2.4575 ppm	0.0001 ppm	0.1492 ppm
Concentration per Run 2	-0.0007 ppm	2.4300 ppm	0.0467 ppm	0.0936 ppm	2.4428 ppm	-0.0017 ppm	0.1485 ppm
Concentration per Run 3	0.0009 ppm	2.3955 ppm	0.0454 ppm	0.0935 ppm	2.4175 ppm	0.0019 ppm	0.1476 ppm
Concentration RSD	172.2 %	0.9 %	1.5 %	0.8 %	0.8 %	1,518.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6154 ppm	96.1318 %	107.3442 %	89.7192 %	109.7163 %	123.7633 %	111.1209 %
Concentration per Run 1	0.6207 ppm	95.7383 %	106.8002 %	89.6494 %	109.5424 %	123.3709 %	111.7344 %
Concentration per Run 2	0.6161 ppm	95.6714 %	107.8527 %	89.8392 %	109.1309 %	124.0351 %	111.0303 %
Concentration per Run 3	0.6094 ppm	96.9855 %	107.3796 %	89.6690 %	110.4757 %	123.8838 %	110.5980 %
Concentration RSD	0.9 %	0.8 %	0.5 %	0.1 %	0.6 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-31D2 WG1975335
Analysis started at: 9/26/2024 3:42:31 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	31.7915 ppm	0.0302 ppm	0.0029 ppm	0.1013 ppm	0.0024 ppm	4.9475 ppm
Concentration per Run 1	-0.0005 ppm	31.8541 ppm	0.0312 ppm	0.0045 ppm	0.1017 ppm	0.0024 ppm	4.9568 ppm
Concentration per Run 2	-0.0004 ppm	31.9195 ppm	0.0309 ppm	0.0026 ppm	0.1014 ppm	0.0024 ppm	4.9510 ppm
Concentration per Run 3	-0.0007 ppm	31.6008 ppm	0.0286 ppm	0.0016 ppm	0.1006 ppm	0.0025 ppm	4.9347 ppm
Concentration RSD	27.0 %	0.5 %	4.6 %	50.7 %	0.5 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0259 ppm	0.0447 ppm	0.0398 ppm	70.5586 ppm	2.6568 ppm	0.0386 ppm
Concentration per Run 1	0.0018 ppm	0.0262 ppm	0.0448 ppm	0.0405 ppm	70.7862 ppm	2.6735 ppm	0.0400 ppm
Concentration per Run 2	0.0018 ppm	0.0256 ppm	0.0447 ppm	0.0394 ppm	70.9139 ppm	2.6692 ppm	0.0380 ppm
Concentration per Run 3	0.0016 ppm	0.0258 ppm	0.0445 ppm	0.0396 ppm	69.9758 ppm	2.6276 ppm	0.0379 ppm
Concentration RSD	6.9 %	1.3 %	0.3 %	1.4 %	0.7 %	1.0 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.7696 ppm	1.3658 ppm	0.0036 ppm	0.2781 ppm	0.0386 ppm	0.0345 ppm	0.0006 ppm
Concentration per Run 1	11.8280 ppm	1.3711 ppm	0.0031 ppm	0.2762 ppm	0.0386 ppm	0.0347 ppm	-0.0002 ppm
Concentration per Run 2	11.7820 ppm	1.3698 ppm	0.0041 ppm	0.2797 ppm	0.0392 ppm	0.0351 ppm	0.0028 ppm
Concentration per Run 3	11.6987 ppm	1.3566 ppm	0.0036 ppm	0.2782 ppm	0.0379 ppm	0.0336 ppm	-0.0008 ppm
Concentration RSD	0.6 %	0.6 %	13.9 %	0.6 %	1.7 %	2.2 %	308.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	3.1742 ppm	0.0014 ppm	0.0414 ppm	1.8671 ppm	-0.0001 ppm	0.0795 ppm
Concentration per Run 1	-0.0011 ppm	3.2149 ppm	0.0013 ppm	0.0416 ppm	1.8742 ppm	-0.0021 ppm	0.0798 ppm
Concentration per Run 2	0.0028 ppm	3.1625 ppm	0.0017 ppm	0.0415 ppm	1.8718 ppm	0.0003 ppm	0.0793 ppm
Concentration per Run 3	0.0025 ppm	3.1454 ppm	0.0012 ppm	0.0411 ppm	1.8554 ppm	0.0015 ppm	0.0793 ppm
Concentration RSD	152.1 %	1.1 %	19.9 %	0.6 %	0.5 %	1,604.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1521 ppm	94.7253 %	100.0688 %	90.5333 %	104.1208 %	114.2079 %	107.9816 %
Concentration per Run 1	0.1527 ppm	94.6658 %	100.4887 %	90.5399 %	104.5703 %	114.3680 %	108.0474 %
Concentration per Run 2	0.1522 ppm	94.8016 %	100.1790 %	90.2193 %	103.9275 %	114.1379 %	107.6035 %
Concentration per Run 3	0.1515 ppm	94.7085 %	99.5386 %	90.8408 %	103.8645 %	114.1178 %	108.2940 %
Concentration RSD	0.4 %	0.1 %	0.5 %	0.3 %	0.4 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-33D2 WG1975335
Analysis started at: 9/26/2024 3:46:28 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	36.1972 ppm	0.0143 ppm	0.0024 ppm	0.0809 ppm	0.0016 ppm	9.1563 ppm
Concentration per Run 1	-0.0004 ppm	35.8759 ppm	0.0147 ppm	0.0022 ppm	0.0804 ppm	0.0018 ppm	9.2176 ppm
Concentration per Run 2	-0.0005 ppm	36.7920 ppm	0.0157 ppm	0.0023 ppm	0.0827 ppm	0.0015 ppm	9.0686 ppm
Concentration per Run 3	-0.0005 ppm	35.9239 ppm	0.0125 ppm	0.0027 ppm	0.0798 ppm	0.0017 ppm	9.1827 ppm
Concentration RSD	13.5 %	1.4 %	11.6 %	10.2 %	1.9 %	8.8 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0322 ppm	0.0780 ppm	0.0721 ppm	85.9582 ppm	2.0609 ppm	0.0518 ppm
Concentration per Run 1	0.0004 ppm	0.0324 ppm	0.0785 ppm	0.0721 ppm	85.2166 ppm	2.0479 ppm	0.0507 ppm
Concentration per Run 2	0.0002 ppm	0.0325 ppm	0.0774 ppm	0.0726 ppm	87.5882 ppm	2.1229 ppm	0.0553 ppm
Concentration per Run 3	0.0002 ppm	0.0316 ppm	0.0780 ppm	0.0716 ppm	85.0697 ppm	2.0119 ppm	0.0494 ppm
Concentration RSD	35.2 %	1.5 %	0.7 %	0.7 %	1.6 %	2.7 %	6.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4445 ppm	1.2323 ppm	0.0021 ppm	0.4442 ppm	0.0585 ppm	0.0422 ppm	-0.0027 ppm
Concentration per Run 1	20.6890 ppm	1.2252 ppm	0.0021 ppm	0.4424 ppm	0.0596 ppm	0.0423 ppm	-0.0043 ppm
Concentration per Run 2	20.3202 ppm	1.2429 ppm	0.0020 ppm	0.4619 ppm	0.0579 ppm	0.0422 ppm	-0.0018 ppm
Concentration per Run 3	20.3242 ppm	1.2288 ppm	0.0022 ppm	0.4284 ppm	0.0582 ppm	0.0420 ppm	-0.0020 ppm
Concentration RSD	1.0 %	0.8 %	5.2 %	3.8 %	1.6 %	0.4 %	51.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	1.5513 ppm	0.0026 ppm	0.0628 ppm	2.2442 ppm	-0.0001 ppm	0.1014 ppm
Concentration per Run 1	0.0015 ppm	1.5617 ppm	0.0035 ppm	0.0638 ppm	2.2710 ppm	0.0001 ppm	0.1028 ppm
Concentration per Run 2	0.0014 ppm	1.5450 ppm	0.0024 ppm	0.0615 ppm	2.2333 ppm	-0.0005 ppm	0.1009 ppm
Concentration per Run 3	0.0025 ppm	1.5471 ppm	0.0019 ppm	0.0631 ppm	2.2282 ppm	0.0001 ppm	0.1004 ppm
Concentration RSD	31.9 %	0.6 %	32.7 %	1.9 %	1.0 %	310.7 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2108 ppm	94.6400 %	103.3723 %	90.4107 %	101.3100 %	114.1118 %	105.1171 %
Concentration per Run 1	0.2131 ppm	93.4850 %	101.9490 %	90.8499 %	99.8727 %	113.5574 %	105.3719 %
Concentration per Run 2	0.2095 ppm	95.4135 %	105.7490 %	89.7444 %	102.2462 %	115.1166 %	104.6029 %
Concentration per Run 3	0.2099 ppm	95.0215 %	102.4187 %	90.6379 %	101.8112 %	113.6615 %	105.3765 %
Concentration RSD	0.9 %	1.1 %	2.0 %	0.6 %	1.2 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-35D2 WG1975335
Analysis started at: 9/26/2024 3:50:24 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	31.5936 ppm	0.0152 ppm	0.0024 ppm	0.0852 ppm	0.0017 ppm	9.3567 ppm
Concentration per Run 1	0.0004 ppm	31.9053 ppm	0.0160 ppm	0.0038 ppm	0.0866 ppm	0.0016 ppm	9.2637 ppm
Concentration per Run 2	-0.0004 ppm	31.3610 ppm	0.0145 ppm	0.0012 ppm	0.0838 ppm	0.0018 ppm	9.3897 ppm
Concentration per Run 3	-0.0004 ppm	31.5146 ppm	0.0152 ppm	0.0021 ppm	0.0852 ppm	0.0018 ppm	9.4168 ppm
Concentration RSD	268.6 %	0.9 %	4.7 %	56.9 %	1.7 %	5.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0285 ppm	0.0583 ppm	0.0658 ppm	76.1186 ppm	2.1103 ppm	0.0422 ppm
Concentration per Run 1	0.0004 ppm	0.0292 ppm	0.0590 ppm	0.0676 ppm	76.9394 ppm	2.1957 ppm	0.0467 ppm
Concentration per Run 2	0.0003 ppm	0.0286 ppm	0.0585 ppm	0.0651 ppm	75.2928 ppm	2.0493 ppm	0.0402 ppm
Concentration per Run 3	0.0002 ppm	0.0278 ppm	0.0575 ppm	0.0648 ppm	76.1236 ppm	2.0858 ppm	0.0397 ppm
Concentration RSD	26.7 %	2.5 %	1.4 %	2.4 %	1.1 %	3.6 %	9.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.2337 ppm	1.0302 ppm	0.0007 ppm	0.3501 ppm	0.0555 ppm	0.0386 ppm	-0.0016 ppm
Concentration per Run 1	17.4390 ppm	1.0305 ppm	0.0009 ppm	0.3590 ppm	0.0557 ppm	0.0385 ppm	-0.0002 ppm
Concentration per Run 2	17.2229 ppm	1.0290 ppm	0.0008 ppm	0.3440 ppm	0.0553 ppm	0.0385 ppm	-0.0004 ppm
Concentration per Run 3	17.0393 ppm	1.0312 ppm	0.0005 ppm	0.3471 ppm	0.0556 ppm	0.0387 ppm	-0.0042 ppm
Concentration RSD	1.2 %	0.1 %	31.8 %	2.3 %	0.4 %	0.3 %	141.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	2.0091 ppm	0.0011 ppm	0.0633 ppm	2.0127 ppm	0.0007 ppm	0.1012 ppm
Concentration per Run 1	-0.0014 ppm	2.0463 ppm	0.0017 ppm	0.0618 ppm	2.0231 ppm	0.0013 ppm	0.1014 ppm
Concentration per Run 2	0.0027 ppm	2.0169 ppm	0.0009 ppm	0.0640 ppm	2.0184 ppm	0.0007 ppm	0.1019 ppm
Concentration per Run 3	0.0034 ppm	1.9641 ppm	0.0008 ppm	0.0641 ppm	1.9967 ppm	0.0002 ppm	0.1003 ppm
Concentration RSD	167.1 %	2.1 %	42.8 %	2.1 %	0.7 %	73.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1856 ppm	94.8763 %	102.5963 %	90.8288 %	102.2427 %	113.5319 %	105.4172 %
Concentration per Run 1	0.1903 ppm	94.2799 %	106.1843 %	91.2499 %	102.1434 %	116.4126 %	105.9554 %
Concentration per Run 2	0.1844 ppm	94.5026 %	100.6653 %	90.7954 %	101.3154 %	111.3572 %	105.3913 %
Concentration per Run 3	0.1820 ppm	95.8465 %	100.9393 %	90.4412 %	103.2692 %	112.8261 %	104.9048 %
Concentration RSD	2.3 %	0.9 %	3.0 %	0.4 %	1.0 %	2.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-37D2 WG1975335
Analysis started at: 9/26/2024 3:54:21 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0077 ppm	62.9991 ppm	0.0500 ppm	0.0109 ppm	0.4412 ppm	0.0031 ppm	20.1734 ppm
Concentration per Run 1	0.0079 ppm	62.9249 ppm	0.0501 ppm	0.0105 ppm	0.4419 ppm	0.0030 ppm	20.1676 ppm
Concentration per Run 2	0.0074 ppm	62.9291 ppm	0.0502 ppm	0.0113 ppm	0.4399 ppm	0.0031 ppm	20.1366 ppm
Concentration per Run 3	0.0077 ppm	63.1435 ppm	0.0498 ppm	0.0109 ppm	0.4419 ppm	0.0031 ppm	20.2160 ppm
Concentration RSD	3.1 %	0.2 %	0.4 %	3.4 %	0.3 %	1.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.2334 ppm	0.0628 ppm	0.7036 ppm	0.6789 ppm	146.7512 ppm	7.1866 ppm	0.0847 ppm
Concentration per Run 1	0.2374 ppm	0.0635 ppm	0.7145 ppm	0.6874 ppm	146.8561 ppm	7.2140 ppm	0.0852 ppm
Concentration per Run 2	0.2322 ppm	0.0629 ppm	0.7005 ppm	0.6777 ppm	146.2558 ppm	7.1637 ppm	0.0839 ppm
Concentration per Run 3	0.2307 ppm	0.0621 ppm	0.6960 ppm	0.6715 ppm	147.1419 ppm	7.1822 ppm	0.0851 ppm
Concentration RSD	1.5 %	1.1 %	1.4 %	1.2 %	0.3 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.9944 ppm	1.7948 ppm	0.0055 ppm	3.7552 ppm	0.1395 ppm	0.6618 ppm	0.0041 ppm
Concentration per Run 1	34.4618 ppm	1.7929 ppm	0.0053 ppm	3.7676 ppm	0.1418 ppm	0.6622 ppm	0.0059 ppm
Concentration per Run 2	33.8969 ppm	1.7941 ppm	0.0053 ppm	3.7424 ppm	0.1389 ppm	0.6634 ppm	0.0042 ppm
Concentration per Run 3	33.6245 ppm	1.7974 ppm	0.0059 ppm	3.7557 ppm	0.1377 ppm	0.6598 ppm	0.0021 ppm
Concentration RSD	1.3 %	0.1 %	6.1 %	0.3 %	1.5 %	0.3 %	46.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	2.6520 ppm	0.2253 ppm	0.1398 ppm	3.7926 ppm	0.0018 ppm	0.3057 ppm
Concentration per Run 1	0.0048 ppm	2.6976 ppm	0.2286 ppm	0.1397 ppm	3.8341 ppm	0.0015 ppm	0.3092 ppm
Concentration per Run 2	0.0028 ppm	2.6426 ppm	0.2247 ppm	0.1399 ppm	3.7819 ppm	0.0014 ppm	0.3051 ppm
Concentration per Run 3	-0.0014 ppm	2.6159 ppm	0.2227 ppm	0.1398 ppm	3.7618 ppm	0.0023 ppm	0.3027 ppm
Concentration RSD	152.8 %	1.6 %	1.3 %	0.1 %	1.0 %	28.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4402 ppm	95.4806 %	107.1789 %	86.5268 %	111.4622 %	127.5436 %	112.4934 %
Concentration per Run 1	1.4737 ppm	94.1407 %	107.2034 %	86.6229 %	110.4879 %	127.4593 %	112.6919 %
Concentration per Run 2	1.4305 ppm	95.7557 %	108.4167 %	86.2008 %	111.5789 %	129.2831 %	112.3914 %
Concentration per Run 3	1.4163 ppm	96.5454 %	105.9165 %	86.7566 %	112.3198 %	125.8883 %	112.3970 %
Concentration RSD	2.1 %	1.3 %	1.2 %	0.3 %	0.8 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:58:18 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5032 ppm	0.4949 ppm	0.4914 ppm	0.4942 ppm	0.5061 ppm	0.5178 ppm	0.5025 ppm
Concentration per Run 1	0.5074 ppm	0.4908 ppm	0.4906 ppm	0.4976 ppm	0.5052 ppm	0.5191 ppm	0.5022 ppm
Concentration per Run 2	0.5027 ppm	0.4944 ppm	0.4949 ppm	0.4925 ppm	0.5049 ppm	0.5186 ppm	0.5054 ppm
Concentration per Run 3	0.4994 ppm	0.4995 ppm	0.4887 ppm	0.4924 ppm	0.5083 ppm	0.5157 ppm	0.4999 ppm
Recovery Percentage 1	100.638 %	98.978 %	98.284 %	98.834 %	101.227 %	103.561 %	100.498 %
Concentration RSD	0.8 %	0.9 %	0.6 %	0.6 %	0.4 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5068 ppm	0.5087 ppm	0.4994 ppm	0.4928 ppm	0.5278 ppm	5.2744 ppm	0.4976 ppm
Concentration per Run 1	0.5137 ppm	0.5149 ppm	0.5042 ppm	0.4975 ppm	0.5272 ppm	5.2795 ppm	0.4990 ppm
Concentration per Run 2	0.5060 ppm	0.5073 ppm	0.4983 ppm	0.4916 ppm	0.5287 ppm	5.2375 ppm	0.4951 ppm
Concentration per Run 3	0.5007 ppm	0.5038 ppm	0.4957 ppm	0.4894 ppm	0.5274 ppm	5.3062 ppm	0.4988 ppm
Recovery Percentage 1	101.357 %	101.731 %	99.878 %	98.565 %	105.552 %	105.488 %	99.525 %
Concentration RSD	1.3 %	1.1 %	0.9 %	0.9 %	0.2 %	0.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4939 ppm	0.5040 ppm	0.5008 ppm	10.2226 ppm	0.5093 ppm	0.5018 ppm	0.4970 ppm
Concentration per Run 1	0.5020 ppm	0.5032 ppm	0.5028 ppm	10.1529 ppm	0.5149 ppm	0.4992 ppm	0.5019 ppm
Concentration per Run 2	0.4922 ppm	0.5047 ppm	0.4998 ppm	10.2701 ppm	0.5080 ppm	0.5025 ppm	0.4951 ppm
Concentration per Run 3	0.4875 ppm	0.5040 ppm	0.4998 ppm	10.2448 ppm	0.5051 ppm	0.5035 ppm	0.4941 ppm
Recovery Percentage 1	98.780 %	100.791 %	100.155 %	102.226 %	101.863 %	100.350 %	99.404 %
Concentration RSD	1.5 %	0.1 %	0.3 %	0.6 %	1.0 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5015 ppm	5.5883 ppm	0.4846 ppm	0.4865 ppm	0.5075 ppm	0.4981 ppm	0.5012 ppm
Concentration per Run 1	0.5002 ppm	5.6327 ppm	0.4884 ppm	0.4871 ppm	0.5122 ppm	0.4959 ppm	0.5044 ppm
Concentration per Run 2	0.5024 ppm	5.5768 ppm	0.4851 ppm	0.4868 ppm	0.5063 ppm	0.4989 ppm	0.5004 ppm
Concentration per Run 3	0.5019 ppm	5.5552 ppm	0.4803 ppm	0.4856 ppm	0.5040 ppm	0.4995 ppm	0.4988 ppm
Recovery Percentage 1	100.304 %	106.443 %	96.920 %	97.301 %	101.502 %	99.615 %	100.241 %
Concentration RSD	0.2 %	0.7 %	0.8 %	0.2 %	0.8 %	0.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5050 ppm	94.8073 %	102.5241 %	92.6500 %	91.6367 %	100.5820 %	92.9464 %
Concentration per Run 1	0.5135 ppm	93.4719 %	102.4516 %	93.1699 %	90.3891 %	100.2286 %	93.5038 %
Concentration per Run 2	0.5032 ppm	95.0307 %	102.5787 %	92.6036 %	91.8837 %	100.8849 %	92.7630 %
Concentration per Run 3	0.4982 ppm	95.9193 %	102.5420 %	92.1766 %	92.6374 %	100.6326 %	92.5725 %
Recovery Percentage 1	100.993 %						
Concentration RSD	1.5 %	1.3 %	0.1 %	0.5 %	1.2 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:02:15 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0031 ppm	0.0000 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 2	-0.0001 ppm	-0.0018 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 3	-0.0002 ppm	0.0062 ppm	-0.0004 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Recovery Percentage 1	-1.479 %	0.400 %	-5.773 %	5.400 %	0.022 %	0.369 %	3.761 %
Concentration RSD	110.4 %	1,254.6 %	123.3 %	53.6 %	2,370.8 %	200.3 %	4.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0053 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0014 ppm	0.0049 ppm	-0.0108 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0014 ppm	0.0056 ppm	0.0250 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0055 ppm	-0.0106 ppm	0.0019 ppm
Recovery Percentage 1	1.523 %	-0.423 %	0.521 %	13.028 %	10.676 %	0.048 %	5.191 %
Concentration RSD	43.9 %	257.0 %	552.1 %	12.2 %	7.3 %	1,715.1 %	237.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0017 ppm	0.0037 ppm	0.0003 ppm	-0.0003 ppm	-0.0019 ppm
Concentration per Run 1	0.0006 ppm	0.0001 ppm	0.0020 ppm	0.0071 ppm	0.0000 ppm	-0.0009 ppm	-0.0026 ppm
Concentration per Run 2	-0.0007 ppm	0.0002 ppm	0.0016 ppm	0.0036 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0017 ppm	0.0003 ppm	0.0006 ppm	0.0001 ppm	-0.0032 ppm
Recovery Percentage 1	0.069 %	1.604 %	3.491 %	0.184 %	1.046 %	-3.118 %	-3.778 %
Concentration RSD	933.4 %	46.7 %	10.6 %	92.7 %	103.6 %	172.5 %	94.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	-0.0014 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0025 ppm	-0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 3	0.0030 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	20.741 %	-0.115 %	0.379 %	-0.540 %	4.533 %	0.978 %	-0.279 %
Concentration RSD	56.7 %	203.6 %	15.1 %	64.6 %	46.1 %	383.1 %	719.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.8299 %	101.0317 %	92.8411 %	93.1977 %	101.1292 %	94.1224 %
Concentration per Run 1	0.0007 ppm	91.8951 %	101.6750 %	92.3487 %	92.8378 %	101.8524 %	93.8072 %
Concentration per Run 2	0.0006 ppm	93.1510 %	101.6713 %	93.4018 %	93.7560 %	101.4906 %	94.8429 %
Concentration per Run 3	0.0006 ppm	93.4436 %	99.7488 %	92.7729 %	92.9993 %	100.0445 %	93.7170 %
Recovery Percentage 1	12.844 %						
Concentration RSD	13.6 %	0.9 %	1.1 %	0.6 %	0.5 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-1 WG1976106
Analysis started at: 9/26/2024 4:08:10 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0012 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	-0.0005 ppm	-0.0048 ppm	-0.0007 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 2	-0.0001 ppm	0.0045 ppm	0.0007 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 3	0.0000 ppm	-0.0035 ppm	0.0006 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0074 ppm
Recovery Percentage 1	-2.828 %	-1.233 %	6.618 %	0.962 %	-1.013 %	0.701 %	6.163 %
Concentration RSD	143.5 %	408.5 %	371.8 %	197.6 %	42.8 %	17.8 %	18.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0106 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	-0.0067 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0008 ppm	-0.0002 ppm	0.0004 ppm	0.0011 ppm	0.0236 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0148 ppm	0.0009 ppm
Recovery Percentage 1	1.209 %	-1.656 %	0.096 %	2.572 %	1.503 %	0.423 %	6.524 %
Concentration RSD	95.3 %	123.9 %	1,487.4 %	48.0 %	50.0 %	147.4 %	32.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0029 ppm	0.0003 ppm	-0.0007 ppm	-0.0015 ppm
Concentration per Run 1	0.0008 ppm	0.0001 ppm	-0.0004 ppm	0.0067 ppm	0.0001 ppm	-0.0008 ppm	-0.0007 ppm
Concentration per Run 2	-0.0020 ppm	0.0000 ppm	-0.0002 ppm	0.0039 ppm	0.0003 ppm	-0.0007 ppm	-0.0030 ppm
Concentration per Run 3	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm	0.0005 ppm	-0.0005 ppm	-0.0008 ppm
Recovery Percentage 1	-0.648 %	0.104 %	-0.407 %	0.146 %	1.236 %	-6.817 %	-3.019 %
Concentration RSD	213.3 %	412.2 %	87.9 %	147.9 %	56.9 %	24.8 %	87.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	-0.0012 ppm	-0.0005 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0029 ppm	-0.0007 ppm	-0.0011 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0022 ppm	-0.0023 ppm	-0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0008 ppm	-0.0001 ppm
Recovery Percentage 1	21.216 %	-0.235 %	-1.084 %	-0.715 %	3.953 %	3.501 %	-0.030 %
Concentration RSD	41.2 %	82.3 %	129.3 %	83.5 %	23.9 %	19.2 %	4,100.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	97.4686 %	100.3498 %	96.6435 %	103.3114 %	102.8119 %	100.6270 %
Concentration per Run 1	0.0007 ppm	96.6624 %	100.1318 %	96.0808 %	103.5817 %	102.6482 %	100.6534 %
Concentration per Run 2	0.0007 ppm	97.4190 %	99.7913 %	96.9512 %	103.5630 %	102.2299 %	100.5840 %
Concentration per Run 3	0.0005 ppm	98.3245 %	101.1263 %	96.8986 %	102.7896 %	103.5576 %	100.6436 %
Recovery Percentage 1	12.662 %						
Concentration RSD	12.0 %	0.9 %	0.7 %	0.5 %	0.4 %	0.7 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-2 WG1976106
Analysis started at: 9/26/2024 4:12:25 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0527 ppm	2.0486 ppm	0.1199 ppm	1.0115 ppm	2.0611 ppm	0.0522 ppm	10.2534 ppm
Concentration per Run 1	0.0531 ppm	2.0457 ppm	0.1202 ppm	1.0270 ppm	2.0574 ppm	0.0521 ppm	10.2642 ppm
Concentration per Run 2	0.0530 ppm	2.0390 ppm	0.1193 ppm	1.0096 ppm	2.0592 ppm	0.0521 ppm	10.2343 ppm
Concentration per Run 3	0.0520 ppm	2.0611 ppm	0.1203 ppm	0.9979 ppm	2.0667 ppm	0.0522 ppm	10.2617 ppm
Concentration RSD	1.1 %	0.6 %	0.4 %	1.4 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0556 ppm	0.5212 ppm	0.2069 ppm	0.2662 ppm	1.0596 ppm	10.7258 ppm	-0.0011 ppm
Concentration per Run 1	0.0566 ppm	0.5308 ppm	0.2101 ppm	0.2700 ppm	1.0566 ppm	10.6771 ppm	0.0002 ppm
Concentration per Run 2	0.0556 ppm	0.5199 ppm	0.2065 ppm	0.2663 ppm	1.0537 ppm	10.7047 ppm	-0.0014 ppm
Concentration per Run 3	0.0545 ppm	0.5130 ppm	0.2041 ppm	0.2625 ppm	1.0684 ppm	10.7954 ppm	-0.0020 ppm
Concentration RSD	1.9 %	1.7 %	1.5 %	1.4 %	0.7 %	0.6 %	107.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.3206 ppm	0.5220 ppm	0.9645 ppm	10.5965 ppm	0.5268 ppm	0.5451 ppm	0.4512 ppm
Concentration per Run 1	10.5032 ppm	0.5224 ppm	0.9725 ppm	10.5391 ppm	0.5351 ppm	0.5458 ppm	0.4534 ppm
Concentration per Run 2	10.3240 ppm	0.5201 ppm	0.9630 ppm	10.6070 ppm	0.5270 ppm	0.5454 ppm	0.4502 ppm
Concentration per Run 3	10.1345 ppm	0.5233 ppm	0.9580 ppm	10.6433 ppm	0.5182 ppm	0.5440 ppm	0.4502 ppm
Concentration RSD	1.8 %	0.3 %	0.8 %	0.5 %	1.6 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1215 ppm	0.8192 ppm	0.9730 ppm	0.9798 ppm	1.0474 ppm	0.1223 ppm	0.5286 ppm
Concentration per Run 1	0.1207 ppm	0.8343 ppm	0.9902 ppm	0.9830 ppm	1.0639 ppm	0.1226 ppm	0.5377 ppm
Concentration per Run 2	0.1207 ppm	0.8173 ppm	0.9696 ppm	0.9778 ppm	1.0459 ppm	0.1220 ppm	0.5278 ppm
Concentration per Run 3	0.1230 ppm	0.8060 ppm	0.9593 ppm	0.9785 ppm	1.0322 ppm	0.1225 ppm	0.5205 ppm
Concentration RSD	1.1 %	1.7 %	1.6 %	0.3 %	1.5 %	0.3 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5232 ppm	93.2080 %	103.4146 %	92.0786 %	93.0333 %	102.1455 %	94.2714 %
Concentration per Run 1	0.5316 ppm	91.5172 %	103.1287 %	91.6661 %	91.9263 %	102.1943 %	94.1483 %
Concentration per Run 2	0.5220 ppm	93.2407 %	103.8609 %	91.9893 %	93.1864 %	102.4617 %	94.2633 %
Concentration per Run 3	0.5160 ppm	94.8662 %	103.2541 %	92.5803 %	93.9872 %	101.7804 %	94.4025 %
Concentration RSD	1.5 %	1.8 %	0.4 %	0.5 %	1.1 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453858-03 WG1976106
Analysis started at: 9/26/2024 4:16:23 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	1.5593 ppm	0.0004 ppm	0.0534 ppm	0.0318 ppm	0.0017 ppm	13.6712 ppm
Concentration per Run 1	-0.0005 ppm	1.5596 ppm	0.0002 ppm	0.0540 ppm	0.0317 ppm	0.0017 ppm	13.7269 ppm
Concentration per Run 2	0.0000 ppm	1.5609 ppm	0.0008 ppm	0.0528 ppm	0.0319 ppm	0.0017 ppm	13.6272 ppm
Concentration per Run 3	-0.0002 ppm	1.5573 ppm	0.0002 ppm	0.0534 ppm	0.0317 ppm	0.0018 ppm	13.6595 ppm
Concentration RSD	111.8 %	0.1 %	86.5 %	1.1 %	0.3 %	2.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0168 ppm	0.0000 ppm	0.0021 ppm	1.7526 ppm	2.6978 ppm	0.0258 ppm
Concentration per Run 1	0.0003 ppm	0.0168 ppm	0.0002 ppm	0.0025 ppm	1.7543 ppm	2.7177 ppm	0.0267 ppm
Concentration per Run 2	0.0003 ppm	0.0170 ppm	0.0002 ppm	0.0021 ppm	1.7505 ppm	2.6602 ppm	0.0254 ppm
Concentration per Run 3	0.0003 ppm	0.0164 ppm	-0.0003 ppm	0.0018 ppm	1.7531 ppm	2.7157 ppm	0.0251 ppm
Concentration RSD	10.6 %	1.8 %	1,182.8 %	15.6 %	0.1 %	1.2 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.4020 ppm	0.5458 ppm	0.0042 ppm	16.6705 ppm	0.0219 ppm	0.0010 ppm	0.0012 ppm
Concentration per Run 1	6.5537 ppm	0.5460 ppm	0.0043 ppm	16.6539 ppm	0.0226 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 2	6.3630 ppm	0.5440 ppm	0.0041 ppm	16.7281 ppm	0.0221 ppm	0.0010 ppm	0.0024 ppm
Concentration per Run 3	6.2894 ppm	0.5475 ppm	0.0041 ppm	16.6296 ppm	0.0211 ppm	0.0014 ppm	0.0007 ppm
Concentration RSD	2.1 %	0.3 %	3.2 %	0.3 %	3.4 %	36.9 %	86.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	12.0470 ppm	0.0021 ppm	0.1171 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	12.2555 ppm	0.0029 ppm	0.1172 ppm	0.0004 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 2	-0.0009 ppm	12.0195 ppm	0.0017 ppm	0.1168 ppm	0.0003 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0003 ppm	11.8659 ppm	0.0018 ppm	0.1171 ppm	0.0003 ppm	-0.0013 ppm	0.0000 ppm
Concentration RSD	1,485.1 %	1.6 %	32.2 %	0.2 %	11.2 %	606.3 %	10.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0415 ppm	90.5031 %	103.3558 %	90.9305 %	93.9755 %	104.9501 %	95.1901 %
Concentration per Run 1	0.0423 ppm	88.4344 %	103.1322 %	91.2486 %	92.9491 %	105.0605 %	96.1226 %
Concentration per Run 2	0.0415 ppm	90.7768 %	104.4553 %	90.8149 %	94.1059 %	105.8836 %	94.9304 %
Concentration per Run 3	0.0406 ppm	92.2980 %	102.4797 %	90.7281 %	94.8716 %	103.9063 %	94.5172 %
Concentration RSD	2.1 %	2.2 %	1.0 %	0.3 %	1.0 %	0.9 %	0.9 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-3 WG1976106
Analysis started at: 9/26/2024 4:20:21 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0537 ppm	3.6072 ppm	0.1246 ppm	1.0959 ppm	2.0972 ppm	0.0542 ppm	23.7913 ppm
Concentration per Run 1	0.0547 ppm	3.6331 ppm	0.1221 ppm	1.1155 ppm	2.0897 ppm	0.0542 ppm	23.7407 ppm
Concentration per Run 2	0.0535 ppm	3.5952 ppm	0.1266 ppm	1.0997 ppm	2.0954 ppm	0.0544 ppm	23.9033 ppm
Concentration per Run 3	0.0529 ppm	3.5934 ppm	0.1252 ppm	1.0725 ppm	2.1066 ppm	0.0541 ppm	23.7300 ppm
Concentration RSD	1.7 %	0.6 %	1.8 %	2.0 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0563 ppm	0.5413 ppm	0.2087 ppm	0.2714 ppm	2.8147 ppm	13.4966 ppm	0.0262 ppm
Concentration per Run 1	0.0573 ppm	0.5501 ppm	0.2133 ppm	0.2753 ppm	2.8092 ppm	13.4100 ppm	0.0272 ppm
Concentration per Run 2	0.0564 ppm	0.5409 ppm	0.2075 ppm	0.2718 ppm	2.8129 ppm	13.4806 ppm	0.0253 ppm
Concentration per Run 3	0.0551 ppm	0.5328 ppm	0.2052 ppm	0.2671 ppm	2.8219 ppm	13.5993 ppm	0.0260 ppm
Concentration RSD	1.9 %	1.6 %	2.0 %	1.5 %	0.2 %	0.7 %	3.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.8294 ppm	1.0636 ppm	0.9337 ppm	27.2718 ppm	0.5512 ppm	0.5561 ppm	0.4615 ppm
Concentration per Run 1	17.1757 ppm	1.0644 ppm	0.9418 ppm	27.3210 ppm	0.5634 ppm	0.5549 ppm	0.4623 ppm
Concentration per Run 2	16.7815 ppm	1.0667 ppm	0.9375 ppm	27.2204 ppm	0.5506 ppm	0.5619 ppm	0.4649 ppm
Concentration per Run 3	16.5309 ppm	1.0596 ppm	0.9217 ppm	27.2741 ppm	0.5396 ppm	0.5514 ppm	0.4574 ppm
Concentration RSD	1.9 %	0.3 %	1.1 %	0.2 %	2.2 %	1.0 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1309 ppm	12.7655 ppm	0.9728 ppm	1.0992 ppm	1.0652 ppm	0.1256 ppm	0.5355 ppm
Concentration per Run 1	0.1331 ppm	13.0219 ppm	0.9892 ppm	1.1004 ppm	1.0867 ppm	0.1257 ppm	0.5440 ppm
Concentration per Run 2	0.1313 ppm	12.7397 ppm	0.9744 ppm	1.1007 ppm	1.0595 ppm	0.1259 ppm	0.5350 ppm
Concentration per Run 3	0.1283 ppm	12.5349 ppm	0.9548 ppm	1.0966 ppm	1.0494 ppm	0.1253 ppm	0.5276 ppm
Concentration RSD	1.9 %	1.9 %	1.8 %	0.2 %	1.8 %	0.3 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5716 ppm	90.6966 %	103.3193 %	89.4765 %	92.6746 %	103.2662 %	93.9787 %
Concentration per Run 1	0.5823 ppm	89.1839 %	103.6890 %	89.2531 %	92.1825 %	103.9571 %	94.1471 %
Concentration per Run 2	0.5739 ppm	90.6386 %	103.4720 %	89.2753 %	92.4222 %	103.5071 %	93.8837 %
Concentration per Run 3	0.5585 ppm	92.2674 %	102.7968 %	89.9011 %	93.4190 %	102.3345 %	93.9052 %
Concentration RSD	2.1 %	1.7 %	0.5 %	0.4 %	0.7 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-4 WG1976106
Analysis started at: 9/26/2024 4:24:19 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	1.6057 ppm	-0.0003 ppm	0.0544 ppm	0.0329 ppm	0.0018 ppm	14.1426 ppm
Concentration per Run 1	0.0000 ppm	1.6062 ppm	-0.0019 ppm	0.0565 ppm	0.0329 ppm	0.0018 ppm	14.1613 ppm
Concentration per Run 2	-0.0006 ppm	1.6097 ppm	0.0003 ppm	0.0540 ppm	0.0329 ppm	0.0018 ppm	14.1306 ppm
Concentration per Run 3	-0.0001 ppm	1.6013 ppm	0.0007 ppm	0.0527 ppm	0.0330 ppm	0.0018 ppm	14.1358 ppm
Concentration RSD	150.0 %	0.3 %	469.6 %	3.5 %	0.1 %	1.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0178 ppm	-0.0001 ppm	0.0020 ppm	1.8183 ppm	2.7858 ppm	0.0270 ppm
Concentration per Run 1	0.0002 ppm	0.0180 ppm	-0.0001 ppm	0.0022 ppm	1.8180 ppm	2.7869 ppm	0.0278 ppm
Concentration per Run 2	0.0003 ppm	0.0175 ppm	-0.0002 ppm	0.0021 ppm	1.8144 ppm	2.7995 ppm	0.0265 ppm
Concentration per Run 3	0.0003 ppm	0.0178 ppm	-0.0001 ppm	0.0018 ppm	1.8225 ppm	2.7710 ppm	0.0266 ppm
Concentration RSD	7.2 %	1.6 %	49.5 %	10.2 %	0.2 %	0.5 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.6252 ppm	0.5629 ppm	0.0056 ppm	17.2546 ppm	0.0226 ppm	0.0007 ppm	-0.0006 ppm
Concentration per Run 1	6.7698 ppm	0.5631 ppm	0.0056 ppm	17.2065 ppm	0.0232 ppm	0.0005 ppm	-0.0006 ppm
Concentration per Run 2	6.5917 ppm	0.5620 ppm	0.0056 ppm	17.2451 ppm	0.0226 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 3	6.5141 ppm	0.5636 ppm	0.0055 ppm	17.3121 ppm	0.0220 ppm	0.0014 ppm	-0.0007 ppm
Concentration RSD	2.0 %	0.1 %	0.8 %	0.3 %	2.7 %	95.6 %	10.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	12.4742 ppm	0.0039 ppm	0.1205 ppm	0.0005 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0005 ppm	12.6572 ppm	0.0040 ppm	0.1211 ppm	0.0007 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 2	0.0038 ppm	12.4639 ppm	0.0040 ppm	0.1200 ppm	0.0004 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 3	0.0012 ppm	12.3014 ppm	0.0037 ppm	0.1205 ppm	0.0006 ppm	0.0003 ppm	0.0001 ppm
Concentration RSD	96.0 %	1.4 %	4.7 %	0.5 %	29.8 %	1,069.1 %	48.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0430 ppm	90.6723 %	103.5360 %	91.2851 %	94.4482 %	104.8846 %	95.7544 %
Concentration per Run 1	0.0440 ppm	89.0495 %	102.8065 %	90.9857 %	93.8963 %	104.5276 %	95.7188 %
Concentration per Run 2	0.0427 ppm	91.1562 %	103.9116 %	91.3235 %	94.6730 %	105.4032 %	96.0085 %
Concentration per Run 3	0.0422 ppm	91.8113 %	103.8898 %	91.5462 %	94.7752 %	104.7229 %	95.5360 %
Concentration RSD	2.1 %	1.6 %	0.6 %	0.3 %	0.5 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-5 WG1976106
Analysis started at: 9/26/2024 4:28:16 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0518 ppm	3.4589 ppm	0.1215 ppm	1.0719 ppm	2.0175 ppm	0.0523 ppm	22.8887 ppm
Concentration per Run 1	0.0533 ppm	3.4589 ppm	0.1223 ppm	1.1039 ppm	2.0090 ppm	0.0524 ppm	22.9331 ppm
Concentration per Run 2	0.0517 ppm	3.4448 ppm	0.1194 ppm	1.0678 ppm	2.0209 ppm	0.0521 ppm	22.8091 ppm
Concentration per Run 3	0.0504 ppm	3.4730 ppm	0.1229 ppm	1.0439 ppm	2.0227 ppm	0.0523 ppm	22.9237 ppm
Concentration RSD	2.8 %	0.4 %	1.6 %	2.8 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0540 ppm	0.5253 ppm	0.2020 ppm	0.2635 ppm	2.6919 ppm	13.0497 ppm	0.0251 ppm
Concentration per Run 1	0.0560 ppm	0.5435 ppm	0.2087 ppm	0.2715 ppm	2.6676 ppm	13.0132 ppm	0.0254 ppm
Concentration per Run 2	0.0538 ppm	0.5229 ppm	0.2018 ppm	0.2626 ppm	2.6785 ppm	13.0554 ppm	0.0259 ppm
Concentration per Run 3	0.0523 ppm	0.5096 ppm	0.1957 ppm	0.2564 ppm	2.7295 ppm	13.0805 ppm	0.0241 ppm
Concentration RSD	3.4 %	3.3 %	3.2 %	2.9 %	1.2 %	0.3 %	3.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.3591 ppm	1.0233 ppm	0.9114 ppm	26.2743 ppm	0.5344 ppm	0.5370 ppm	0.3821 ppm
Concentration per Run 1	16.9260 ppm	1.0237 ppm	0.9355 ppm	26.0769 ppm	0.5526 ppm	0.5373 ppm	0.3873 ppm
Concentration per Run 2	16.2873 ppm	1.0180 ppm	0.9067 ppm	26.3958 ppm	0.5316 ppm	0.5348 ppm	0.3811 ppm
Concentration per Run 3	15.8640 ppm	1.0283 ppm	0.8920 ppm	26.3501 ppm	0.5189 ppm	0.5388 ppm	0.3779 ppm
Concentration RSD	3.3 %	0.5 %	2.4 %	0.7 %	3.2 %	0.4 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1265 ppm	12.0937 ppm	0.9671 ppm	1.0736 ppm	1.0420 ppm	0.1206 ppm	0.5204 ppm
Concentration per Run 1	0.1271 ppm	12.4134 ppm	0.9940 ppm	1.0813 ppm	1.0738 ppm	0.1209 ppm	0.5367 ppm
Concentration per Run 2	0.1255 ppm	12.0516 ppm	0.9655 ppm	1.0688 ppm	1.0379 ppm	0.1214 ppm	0.5180 ppm
Concentration per Run 3	0.1269 ppm	11.8161 ppm	0.9417 ppm	1.0706 ppm	1.0143 ppm	0.1196 ppm	0.5065 ppm
Concentration RSD	0.7 %	2.5 %	2.7 %	0.6 %	2.9 %	0.8 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5528 ppm	90.6653 %	103.9459 %	89.5658 %	93.1959 %	104.4024 %	94.2537 %
Concentration per Run 1	0.5721 ppm	88.1040 %	102.9700 %	89.7900 %	91.7769 %	103.5569 %	94.8970 %
Concentration per Run 2	0.5530 ppm	90.6040 %	105.6150 %	89.5179 %	92.9991 %	105.6995 %	94.1357 %
Concentration per Run 3	0.5331 ppm	93.2879 %	103.2526 %	89.3896 %	94.8115 %	103.9508 %	93.7284 %
Concentration RSD	3.5 %	2.9 %	1.4 %	0.2 %	1.6 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-6D5 WG1976106
Analysis started at: 9/26/2024 4:32:13 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.3029 ppm	0.0001 ppm	0.0117 ppm	0.0061 ppm	0.0003 ppm	2.6256 ppm
Concentration per Run 1	-0.0001 ppm	0.3009 ppm	-0.0002 ppm	0.0125 ppm	0.0060 ppm	0.0003 ppm	2.6179 ppm
Concentration per Run 2	-0.0002 ppm	0.3053 ppm	0.0015 ppm	0.0120 ppm	0.0060 ppm	0.0004 ppm	2.6300 ppm
Concentration per Run 3	-0.0001 ppm	0.3024 ppm	-0.0009 ppm	0.0104 ppm	0.0062 ppm	0.0003 ppm	2.6289 ppm
Concentration RSD	82.5 %	0.7 %	1,026.9 %	9.3 %	1.8 %	7.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0033 ppm	0.0000 ppm	0.0014 ppm	0.3436 ppm	0.5340 ppm	0.0069 ppm
Concentration per Run 1	0.0001 ppm	0.0034 ppm	-0.0002 ppm	0.0019 ppm	0.3417 ppm	0.5304 ppm	0.0065 ppm
Concentration per Run 2	0.0001 ppm	0.0034 ppm	0.0002 ppm	0.0014 ppm	0.3463 ppm	0.5536 ppm	0.0075 ppm
Concentration per Run 3	0.0001 ppm	0.0030 ppm	0.0001 ppm	0.0011 ppm	0.3429 ppm	0.5180 ppm	0.0067 ppm
Concentration RSD	5.0 %	8.3 %	4,739.8 %	27.0 %	0.7 %	3.4 %	8.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.2058 ppm	0.1038 ppm	0.0067 ppm	3.2487 ppm	0.0043 ppm	-0.0002 ppm	0.0100 ppm
Concentration per Run 1	1.2259 ppm	0.1042 ppm	0.0069 ppm	3.2490 ppm	0.0048 ppm	0.0002 ppm	0.0104 ppm
Concentration per Run 2	1.2049 ppm	0.1036 ppm	0.0065 ppm	3.2322 ppm	0.0043 ppm	-0.0012 ppm	0.0089 ppm
Concentration per Run 3	1.1866 ppm	0.1036 ppm	0.0068 ppm	3.2649 ppm	0.0040 ppm	0.0004 ppm	0.0106 ppm
Concentration RSD	1.6 %	0.3 %	3.2 %	0.5 %	9.2 %	425.0 %	9.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	2.2136 ppm	0.0112 ppm	0.0223 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	2.2434 ppm	0.0111 ppm	0.0222 ppm	0.0007 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	2.2115 ppm	0.0118 ppm	0.0224 ppm	0.0006 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	0.0015 ppm	2.1858 ppm	0.0108 ppm	0.0223 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm
Concentration RSD	107.6 %	1.3 %	4.4 %	0.4 %	10.5 %	732.0 %	14,611.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0081 ppm	92.5544 %	103.3922 %	93.6797 %	92.5749 %	102.3882 %	95.0690 %
Concentration per Run 1	0.0084 ppm	91.0747 %	102.4181 %	93.8277 %	91.5901 %	101.3854 %	95.6934 %
Concentration per Run 2	0.0081 ppm	92.7685 %	103.8115 %	93.4169 %	92.7178 %	103.0245 %	94.3510 %
Concentration per Run 3	0.0079 ppm	93.8200 %	103.9471 %	93.7944 %	93.4168 %	102.7546 %	95.1624 %
Concentration RSD	3.6 %	1.5 %	0.8 %	0.2 %	1.0 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453858-01 WG1976106
Analysis started at: 9/26/2024 4:36:10 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	11.6807 ppm	0.0013 ppm	0.1449 ppm	0.0135 ppm	0.0081 ppm	52.7548 ppm
Concentration per Run 1	-0.0001 ppm	11.6400 ppm	0.0024 ppm	0.1497 ppm	0.0134 ppm	0.0081 ppm	52.5459 ppm
Concentration per Run 2	0.0003 ppm	11.6885 ppm	0.0005 ppm	0.1443 ppm	0.0135 ppm	0.0081 ppm	52.7274 ppm
Concentration per Run 3	0.0001 ppm	11.7136 ppm	0.0011 ppm	0.1407 ppm	0.0135 ppm	0.0081 ppm	52.9911 ppm
Concentration RSD	310.1 %	0.3 %	74.4 %	3.1 %	0.6 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.1143 ppm	-0.0001 ppm	0.0215 ppm	41.1642 ppm	5.7178 ppm	0.1156 ppm
Concentration per Run 1	0.0025 ppm	0.1167 ppm	-0.0001 ppm	0.0219 ppm	40.8575 ppm	5.6987 ppm	0.1149 ppm
Concentration per Run 2	0.0024 ppm	0.1136 ppm	0.0000 ppm	0.0214 ppm	41.3005 ppm	5.7234 ppm	0.1170 ppm
Concentration per Run 3	0.0023 ppm	0.1126 ppm	-0.0001 ppm	0.0211 ppm	41.3347 ppm	5.7313 ppm	0.1148 ppm
Concentration RSD	5.0 %	1.9 %	84.7 %	1.8 %	0.6 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.7642 ppm	3.7136 ppm	0.0005 ppm	37.4597 ppm	0.1670 ppm	0.0013 ppm	0.0002 ppm
Concentration per Run 1	25.2532 ppm	3.6991 ppm	0.0006 ppm	37.3132 ppm	0.1708 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	24.7132 ppm	3.7110 ppm	0.0005 ppm	37.5029 ppm	0.1666 ppm	0.0018 ppm	0.0009 ppm
Concentration per Run 3	24.3261 ppm	3.7307 ppm	0.0005 ppm	37.5629 ppm	0.1637 ppm	0.0010 ppm	-0.0002 ppm
Concentration RSD	1.9 %	0.4 %	11.8 %	0.3 %	2.2 %	34.0 %	309.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	21.2777 [SIC 100]	0.0005 ppm	0.6277 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	21.7038 ppm	0.0006 ppm	0.6261 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0016 ppm	21.2507 ppm	0.0009 ppm	0.6256 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0018 ppm	20.8787 ppm	-0.0001 ppm	0.6312 ppm	0.0003 ppm	-0.0024 ppm	0.0000 ppm
Concentration RSD	16.0 %	1.9 %	105.1 %	0.5 %	118.6 %	191.9 %	5,344.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4188 ppm	91.8499 %	104.6022 %	90.8870 %	100.7920 %	114.5198 %	103.4508 %
Concentration per Run 1	0.4259 ppm	90.3464 %	104.9206 %	90.2901 %	100.0874 %	114.9107 %	102.9079 %
Concentration per Run 2	0.4189 ppm	92.0582 %	104.5304 %	91.1431 %	100.8679 %	114.0609 %	103.8249 %
Concentration per Run 3	0.4115 ppm	93.1452 %	104.3555 %	91.2279 %	101.4205 %	114.5879 %	103.6198 %
Concentration RSD	1.7 %	1.5 %	0.3 %	0.6 %	0.7 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453858-02 WG1976106
Analysis started at: 9/26/2024 4:40:07 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0235 ppm	0.0006 ppm	0.1806 ppm	0.0379 ppm	0.0013 ppm	385.4822 ppm
Concentration per Run 1	-0.0006 ppm	0.0229 ppm	0.0012 ppm	0.1852 ppm	0.0380 ppm	0.0013 ppm	387.2325 ppm
Concentration per Run 2	-0.0006 ppm	0.0265 ppm	-0.0005 ppm	0.1809 ppm	0.0379 ppm	0.0013 ppm	383.6077 ppm
Concentration per Run 3	-0.0005 ppm	0.0212 ppm	0.0012 ppm	0.1758 ppm	0.0378 ppm	0.0013 ppm	385.6063 ppm
Concentration RSD	15.7 %	11.5 %	162.3 %	2.6 %	0.2 %	2.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0710 ppm	-0.0007 ppm	0.0054 ppm	0.7396 ppm	21.8839 ppm	0.0644 ppm
Concentration per Run 1	0.0003 ppm	0.0723 ppm	-0.0009 ppm	0.0057 ppm	0.7419 ppm	21.9190 ppm	0.0634 ppm
Concentration per Run 2	0.0002 ppm	0.0708 ppm	-0.0004 ppm	0.0055 ppm	0.7349 ppm	21.7571 ppm	0.0648 ppm
Concentration per Run 3	0.0003 ppm	0.0698 ppm	-0.0007 ppm	0.0052 ppm	0.7418 ppm	21.9756 ppm	0.0649 ppm
Concentration RSD	21.3 %	1.7 %	34.0 %	4.8 %	0.5 %	0.5 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	232.5467 ppm	7.0845 ppm	0.0005 ppm	110.0080 ppm	0.5986 ppm	0.0005 ppm	-0.0014 ppm
Concentration per Run 1	237.5542 ppm	7.0797 ppm	0.0004 ppm	109.5024 ppm	0.6090 ppm	-0.0003 ppm	-0.0025 ppm
Concentration per Run 2	231.8687 ppm	7.0726 ppm	0.0003 ppm	109.6905 ppm	0.5986 ppm	0.0015 ppm	0.0012 ppm
Concentration per Run 3	228.2171 ppm	7.1012 ppm	0.0008 ppm	110.8310 ppm	0.5883 ppm	0.0002 ppm	-0.0030 ppm
Concentration RSD	2.0 %	0.2 %	45.2 %	0.7 %	1.7 %	193.8 %	161.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	24.6878 [SIC 100]	-0.0003 ppm	2.3533 ppm	-0.0003 ppm	-0.0034 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	25.1107 ppm	-0.0003 ppm	2.3563 ppm	-0.0003 ppm	-0.0029 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	24.6660 ppm	-0.0010 ppm	2.3522 ppm	-0.0001 ppm	-0.0039 ppm	0.0000 ppm
Concentration per Run 3	-0.0023 ppm	24.2866 ppm	0.0004 ppm	2.3514 ppm	-0.0003 ppm	-0.0035 ppm	0.0001 ppm
Concentration RSD	281.3 %	1.7 %	262.2 %	0.1 %	37.8 %	15.3 %	38,481.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1607 ppm	86.1038 %	102.9084 %	80.7576 %	93.8405 %	110.7592 %	93.3231 %
Concentration per Run 1	0.1640 ppm	84.5272 %	101.7476 %	80.6079 %	93.0525 %	110.1681 %	93.4704 %
Concentration per Run 2	0.1613 ppm	86.4759 %	103.7358 %	80.9940 %	94.0467 %	111.2880 %	93.5868 %
Concentration per Run 3	0.1569 ppm	87.3084 %	103.2417 %	80.6708 %	94.4222 %	110.8214 %	92.9121 %
Concentration RSD	2.3 %	1.7 %	1.0 %	0.3 %	0.8 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-39D2 WG1975335
Analysis started at: 9/26/2024 4:44:04 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0021 ppm	198.9160 ppm	0.1362 ppm	0.0636 ppm	0.7378 ppm	0.0093 ppm	32.7842 ppm
Concentration per Run 1	-0.0017 ppm	199.4382 ppm	0.1334 ppm	0.0640 ppm	0.7433 ppm	0.0093 ppm	32.8696 ppm
Concentration per Run 2	-0.0029 ppm	198.8124 ppm	0.1380 ppm	0.0639 ppm	0.7348 ppm	0.0092 ppm	32.8127 ppm
Concentration per Run 3	-0.0018 ppm	198.4973 ppm	0.1371 ppm	0.0629 ppm	0.7353 ppm	0.0094 ppm	32.6704 ppm
Concentration RSD	31.2 %	0.2 %	1.8 %	0.9 %	0.6 %	1.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.1316 ppm	0.4626 ppm	0.2837 ppm	293.2393 ppm	61.6911 ppm	0.3956 ppm
Concentration per Run 1	0.0003 ppm	0.1338 ppm	0.4667 ppm	0.2875 ppm	295.2200 ppm	62.0114 ppm	0.3983 ppm
Concentration per Run 2	0.0001 ppm	0.1309 ppm	0.4629 ppm	0.2826 ppm	291.7660 ppm	61.5663 ppm	0.3942 ppm
Concentration per Run 3	0.0003 ppm	0.1301 ppm	0.4582 ppm	0.2810 ppm	292.7320 ppm	61.4956 ppm	0.3943 ppm
Concentration RSD	54.6 %	1.5 %	0.9 %	1.2 %	0.6 %	0.5 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	105.6821 ppm	5.3961 ppm	0.0059 ppm	16.7387 ppm	0.3253 ppm	0.1251 ppm	0.0036 ppm
Concentration per Run 1	106.7241 ppm	5.4165 ppm	0.0058 ppm	16.8040 ppm	0.3288 ppm	0.1241 ppm	-0.0001 ppm
Concentration per Run 2	105.7161 ppm	5.3880 ppm	0.0060 ppm	16.7775 ppm	0.3263 ppm	0.1250 ppm	0.0009 ppm
Concentration per Run 3	104.6062 ppm	5.3837 ppm	0.0060 ppm	16.6344 ppm	0.3209 ppm	0.1261 ppm	0.0098 ppm
Concentration RSD	1.0 %	0.3 %	1.5 %	0.5 %	1.2 %	0.8 %	153.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	1.0133 ppm	0.0112 ppm	0.2035 ppm	12.6044 ppm	0.0089 ppm	0.5574 ppm
Concentration per Run 1	-0.0051 ppm	1.0210 ppm	0.0114 ppm	0.2048 ppm	12.6425 ppm	0.0083 ppm	0.5588 ppm
Concentration per Run 2	-0.0030 ppm	1.0168 ppm	0.0109 ppm	0.2025 ppm	12.5975 ppm	0.0090 ppm	0.5608 ppm
Concentration per Run 3	-0.0003 ppm	1.0020 ppm	0.0114 ppm	0.2032 ppm	12.5733 ppm	0.0094 ppm	0.5525 ppm
Concentration RSD	84.8 %	1.0 %	2.7 %	0.6 %	0.3 %	6.5 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6993 ppm	100.7230 %	110.6706 %	80.5191 %	121.9361 %	139.9544 %	127.1860 %
Concentration per Run 1	0.7093 ppm	100.0427 %	110.1979 %	80.8585 %	121.7011 %	139.8177 %	127.4122 %
Concentration per Run 2	0.6974 ppm	100.1912 %	111.8292 %	80.6598 %	120.7165 %	141.0250 %	127.3403 %
Concentration per Run 3	0.6912 ppm	101.9351 %	109.9848 %	80.0390 %	123.3905 %	139.0206 %	126.8054 %
Concentration RSD	1.3 %	1.0 %	0.9 %	0.5 %	1.1 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 4:48:02 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5063 ppm	0.4945 ppm	0.4884 ppm	0.4988 ppm	0.5078 ppm	0.5201 ppm	0.5010 ppm
Concentration per Run 1	0.5126 ppm	0.4946 ppm	0.4881 ppm	0.5022 ppm	0.5072 ppm	0.5188 ppm	0.4988 ppm
Concentration per Run 2	0.5053 ppm	0.4911 ppm	0.4893 ppm	0.4991 ppm	0.5061 ppm	0.5229 ppm	0.5040 ppm
Concentration per Run 3	0.5010 ppm	0.4977 ppm	0.4879 ppm	0.4951 ppm	0.5101 ppm	0.5185 ppm	0.5002 ppm
Recovery Percentage 1	101.262 %	98.898 %	97.680 %	99.762 %	101.557 %	104.017 %	100.206 %
Concentration RSD	1.2 %	0.7 %	0.2 %	0.7 %	0.4 %	0.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5111 ppm	0.5132 ppm	0.5016 ppm	0.4983 ppm	0.5334 ppm	5.3172 ppm	0.4997 ppm
Concentration per Run 1	0.5162 ppm	0.5189 ppm	0.5060 ppm	0.5055 ppm	0.5385 ppm	5.3569 ppm	0.5011 ppm
Concentration per Run 2	0.5102 ppm	0.5119 ppm	0.5026 ppm	0.4963 ppm	0.5301 ppm	5.2803 ppm	0.4962 ppm
Concentration per Run 3	0.5067 ppm	0.5088 ppm	0.4962 ppm	0.4931 ppm	0.5316 ppm	5.3145 ppm	0.5017 ppm
Recovery Percentage 1	102.212 %	102.641 %	100.326 %	99.659 %	106.681 %	106.345 %	99.934 %
Concentration RSD	0.9 %	1.0 %	1.0 %	1.3 %	0.8 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4970 ppm	0.5052 ppm	0.5030 ppm	10.2421 ppm	0.5119 ppm	0.5009 ppm	0.5044 ppm
Concentration per Run 1	0.5039 ppm	0.5046 ppm	0.5055 ppm	10.1864 ppm	0.5174 ppm	0.5002 ppm	0.5054 ppm
Concentration per Run 2	0.4961 ppm	0.5049 ppm	0.5023 ppm	10.2774 ppm	0.5127 ppm	0.5024 ppm	0.5053 ppm
Concentration per Run 3	0.4911 ppm	0.5061 ppm	0.5011 ppm	10.2624 ppm	0.5055 ppm	0.4999 ppm	0.5025 ppm
Recovery Percentage 1	99.410 %	101.043 %	100.597 %	102.421 %	102.375 %	100.171 %	100.881 %
Concentration RSD	1.3 %	0.2 %	0.4 %	0.5 %	1.2 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4999 ppm	5.6339 ppm	0.4874 ppm	0.4894 ppm	0.5083 ppm	0.4998 ppm	0.5044 ppm
Concentration per Run 1	0.5011 ppm	5.6787 ppm	0.4914 ppm	0.4878 ppm	0.5137 ppm	0.5001 ppm	0.5108 ppm
Concentration per Run 2	0.5007 ppm	5.6204 ppm	0.4873 ppm	0.4911 ppm	0.5102 ppm	0.4990 ppm	0.5037 ppm
Concentration per Run 3	0.4979 ppm	5.6027 ppm	0.4836 ppm	0.4892 ppm	0.5011 ppm	0.5002 ppm	0.4988 ppm
Recovery Percentage 1	99.986 %	107.313 %	97.483 %	97.872 %	101.665 %	99.957 %	100.881 %
Concentration RSD	0.4 %	0.7 %	0.8 %	0.3 %	1.3 %	0.1 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5071 ppm	94.6345 %	102.9977 %	93.3085 %	92.0326 %	100.9709 %	93.6783 %
Concentration per Run 1	0.5114 ppm	93.7399 %	103.0571 %	93.4733 %	91.2902 %	101.1405 %	93.9280 %
Concentration per Run 2	0.5075 ppm	94.7597 %	102.2925 %	93.2237 %	92.1716 %	100.2597 %	93.7107 %
Concentration per Run 3	0.5023 ppm	95.4039 %	103.6435 %	93.2284 %	92.6361 %	101.5124 %	93.3962 %
Recovery Percentage 1	101.415 %						
Concentration RSD	0.9 %	0.9 %	0.7 %	0.2 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:52:00 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0051 ppm	0.0002 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0080 ppm
Concentration per Run 1	0.0002 ppm	-0.0023 ppm	-0.0002 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 2	0.0003 ppm	-0.0075 ppm	0.0016 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 3	0.0000 ppm	-0.0054 ppm	-0.0007 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0084 ppm
Recovery Percentage 1	2.494 %	-5.078 %	8.001 %	5.403 %	-0.569 %	0.516 %	8.000 %
Concentration RSD	107.3 %	52.1 %	515.0 %	34.2 %	60.0 %	25.2 %	4.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm	0.0051 ppm	0.0226 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0054 ppm	0.0009 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0014 ppm	0.0048 ppm	0.0390 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0051 ppm	0.0277 ppm	0.0014 ppm
Recovery Percentage 1	0.861 %	-0.310 %	1.366 %	13.615 %	10.244 %	0.902 %	7.794 %
Concentration RSD	66.2 %	262.1 %	141.4 %	7.2 %	6.3 %	86.8 %	94.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0000 ppm	0.0019 ppm	0.0067 ppm	0.0003 ppm	-0.0007 ppm	-0.0013 ppm
Concentration per Run 1	-0.0009 ppm	0.0002 ppm	0.0021 ppm	0.0104 ppm	0.0005 ppm	-0.0011 ppm	-0.0005 ppm
Concentration per Run 2	0.0015 ppm	-0.0001 ppm	0.0018 ppm	0.0060 ppm	0.0002 ppm	0.0001 ppm	-0.0031 ppm
Concentration per Run 3	0.0013 ppm	0.0000 ppm	0.0017 ppm	0.0036 ppm	0.0002 ppm	-0.0010 ppm	-0.0004 ppm
Recovery Percentage 1	0.653 %	0.231 %	3.759 %	0.333 %	1.054 %	-6.655 %	-2.603 %
Concentration RSD	201.0 %	590.2 %	12.1 %	51.7 %	71.0 %	99.7 %	116.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0018 ppm	0.0010 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0027 ppm	-0.0031 ppm	0.0004 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0015 ppm	-0.0016 ppm	0.0017 ppm	0.0000 ppm	0.0006 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 3	-0.0006 ppm	-0.0006 ppm	0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0000 ppm
Recovery Percentage 1	11.905 %	-0.358 %	2.047 %	-0.129 %	4.628 %	2.177 %	-0.504 %
Concentration RSD	143.9 %	70.2 %	61.9 %	520.6 %	28.7 %	116.0 %	142.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.1980 %	101.5251 %	92.7181 %	92.3829 %	101.6868 %	94.0494 %
Concentration per Run 1	0.0006 ppm	90.0502 %	101.3825 %	92.3377 %	90.7864 %	101.4243 %	94.2606 %
Concentration per Run 2	0.0005 ppm	93.1478 %	102.2157 %	92.5440 %	93.3791 %	102.4429 %	93.9024 %
Concentration per Run 3	0.0004 ppm	93.3960 %	100.9771 %	93.2727 %	92.9833 %	101.1932 %	93.9851 %
Recovery Percentage 1	10.069 %						
Concentration RSD	23.9 %	2.0 %	0.6 %	0.5 %	1.5 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453858-04 WG1976106
Analysis started at: 9/26/2024 4:56:00 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0173 ppm	0.0014 ppm	0.0213 ppm	0.0141 ppm	0.0003 ppm	136.7042 ppm
Concentration per Run 1	0.0002 ppm	0.0121 ppm	0.0035 ppm	0.0221 ppm	0.0142 ppm	0.0003 ppm	136.0985 ppm
Concentration per Run 2	0.0003 ppm	0.0194 ppm	0.0014 ppm	0.0213 ppm	0.0140 ppm	0.0003 ppm	136.9005 ppm
Concentration per Run 3	0.0005 ppm	0.0203 ppm	-0.0006 ppm	0.0207 ppm	0.0142 ppm	0.0003 ppm	137.1136 ppm
Concentration RSD	45.7 %	26.0 %	145.0 %	3.5 %	0.7 %	1.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0217 ppm	-0.0005 ppm	0.0032 ppm	41.5612 ppm	11.4641 ppm	0.0267 ppm
Concentration per Run 1	-0.0004 ppm	0.0221 ppm	-0.0007 ppm	0.0034 ppm	41.4499 ppm	11.4821 ppm	0.0265 ppm
Concentration per Run 2	-0.0004 ppm	0.0212 ppm	-0.0004 ppm	0.0030 ppm	41.5383 ppm	11.4545 ppm	0.0275 ppm
Concentration per Run 3	-0.0004 ppm	0.0219 ppm	-0.0006 ppm	0.0031 ppm	41.6955 ppm	11.4556 ppm	0.0260 ppm
Concentration RSD	5.5 %	2.2 %	25.1 %	7.4 %	0.3 %	0.1 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	71.3221 ppm	1.2593 ppm	0.0001 ppm	52.3471 ppm	0.0897 ppm	-0.0001 ppm	-0.0012 ppm
Concentration per Run 1	72.7662 ppm	1.2586 ppm	0.0000 ppm	52.1817 ppm	0.0916 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	71.0876 ppm	1.2605 ppm	-0.0001 ppm	52.5531 ppm	0.0893 ppm	-0.0002 ppm	-0.0013 ppm
Concentration per Run 3	70.1124 ppm	1.2587 ppm	0.0003 ppm	52.3066 ppm	0.0883 ppm	0.0000 ppm	-0.0007 ppm
Concentration RSD	1.9 %	0.1 %	306.0 %	0.4 %	1.9 %	100.3 %	34.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	22.4912 [SIC 100]	-0.0002 ppm	0.8141 ppm	0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0024 ppm	22.9316 ppm	0.0000 ppm	0.8067 ppm	0.0003 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	22.3747 ppm	0.0001 ppm	0.8170 ppm	0.0002 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0009 ppm	22.1673 ppm	-0.0006 ppm	0.8185 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm
Concentration RSD	208.5 %	1.8 %	212.5 %	0.8 %	29.3 %	72.5 %	153.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0841 ppm	90.7132 %	103.5838 %	87.5244 %	89.9872 %	102.9353 %	90.9112 %
Concentration per Run 1	0.0858 ppm	89.1922 %	104.8074 %	87.8915 %	89.0753 %	104.3904 %	91.1320 %
Concentration per Run 2	0.0838 ppm	91.0601 %	103.4601 %	87.6490 %	90.1034 %	102.6748 %	90.8400 %
Concentration per Run 3	0.0827 ppm	91.8873 %	102.4838 %	87.0328 %	90.7831 %	101.7408 %	90.7616 %
Concentration RSD	1.9 %	1.5 %	1.1 %	0.5 %	1.0 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 4:59:57 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5035 ppm	0.4925 ppm	0.4866 ppm	0.4959 ppm	0.5063 ppm	0.5165 ppm	0.5020 ppm
Concentration per Run 1	0.5067 ppm	0.4969 ppm	0.4875 ppm	0.4989 ppm	0.5043 ppm	0.5146 ppm	0.5006 ppm
Concentration per Run 2	0.5037 ppm	0.4893 ppm	0.4865 ppm	0.4981 ppm	0.5050 ppm	0.5168 ppm	0.5020 ppm
Concentration per Run 3	0.5000 ppm	0.4912 ppm	0.4857 ppm	0.4908 ppm	0.5097 ppm	0.5181 ppm	0.5034 ppm
Recovery Percentage 1	100.693 %	98.496 %	97.316 %	99.188 %	101.260 %	103.298 %	100.393 %
Concentration RSD	0.7 %	0.8 %	0.2 %	0.9 %	0.6 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5064 ppm	0.5083 ppm	0.4983 ppm	0.4935 ppm	0.5220 ppm	5.2814 ppm	0.4973 ppm
Concentration per Run 1	0.5101 ppm	0.5133 ppm	0.5001 ppm	0.4969 ppm	0.5215 ppm	5.2779 ppm	0.4953 ppm
Concentration per Run 2	0.5086 ppm	0.5105 ppm	0.4999 ppm	0.4936 ppm	0.5189 ppm	5.2598 ppm	0.4947 ppm
Concentration per Run 3	0.5003 ppm	0.5012 ppm	0.4950 ppm	0.4900 ppm	0.5255 ppm	5.3066 ppm	0.5019 ppm
Recovery Percentage 1	101.271 %	101.666 %	99.666 %	98.702 %	104.394 %	105.628 %	99.461 %
Concentration RSD	1.0 %	1.2 %	0.6 %	0.7 %	0.6 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4927 ppm	0.5029 ppm	0.4984 ppm	10.1728 ppm	0.5076 ppm	0.5005 ppm	0.5035 ppm
Concentration per Run 1	0.4979 ppm	0.5004 ppm	0.4993 ppm	10.1194 ppm	0.5112 ppm	0.4994 ppm	0.5063 ppm
Concentration per Run 2	0.4940 ppm	0.5032 ppm	0.4994 ppm	10.1942 ppm	0.5069 ppm	0.4993 ppm	0.5076 ppm
Concentration per Run 3	0.4862 ppm	0.5051 ppm	0.4965 ppm	10.2048 ppm	0.5048 ppm	0.5028 ppm	0.4965 ppm
Recovery Percentage 1	98.538 %	100.583 %	99.674 %	101.728 %	101.527 %	100.098 %	100.691 %
Concentration RSD	1.2 %	0.5 %	0.3 %	0.5 %	0.6 %	0.4 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4960 ppm	5.5843 ppm	0.4840 ppm	0.4877 ppm	0.5038 ppm	0.4979 ppm	0.5007 ppm
Concentration per Run 1	0.4942 ppm	5.6113 ppm	0.4842 ppm	0.4844 ppm	0.5064 ppm	0.4951 ppm	0.5051 ppm
Concentration per Run 2	0.4958 ppm	5.5877 ppm	0.4840 ppm	0.4863 ppm	0.5050 ppm	0.4963 ppm	0.5016 ppm
Concentration per Run 3	0.4980 ppm	5.5540 ppm	0.4838 ppm	0.4924 ppm	0.4999 ppm	0.5021 ppm	0.4953 ppm
Recovery Percentage 1	99.194 %	106.369 %	96.799 %	97.536 %	100.755 %	99.573 %	100.140 %
Concentration RSD	0.4 %	0.5 %	0.0 %	0.9 %	0.7 %	0.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5038 ppm	95.2795 %	103.8050 %	93.6259 %	91.9242 %	101.9838 %	93.6839 %
Concentration per Run 1	0.5060 ppm	94.6627 %	104.5835 %	94.0963 %	91.4566 %	102.8805 %	94.0674 %
Concentration per Run 2	0.5066 ppm	94.7238 %	102.7955 %	93.5997 %	91.4987 %	100.4834 %	93.6882 %
Concentration per Run 3	0.4987 ppm	96.4520 %	104.0361 %	93.1817 %	92.8174 %	102.5873 %	93.2960 %
Recovery Percentage 1	100.753 %						
Concentration RSD	0.9 %	1.1 %	0.9 %	0.5 %	0.8 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:03:54 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0004 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 1	-0.0002 ppm	0.0103 ppm	-0.0009 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	-0.0003 ppm	-0.0065 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 3	0.0001 ppm	-0.0027 ppm	-0.0003 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	0.0058 ppm
Recovery Percentage 1	-1.947 %	0.363 %	-12.892 %	4.318 %	-0.722 %	0.954 %	5.698 %
Concentration RSD	135.8 %	2,424.3 %	121.4 %	38.8 %	116.8 %	76.6 %	22.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0013 ppm	0.0049 ppm	0.0079 ppm	-0.0003 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0012 ppm	0.0051 ppm	0.0025 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0015 ppm	0.0049 ppm	-0.0042 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0047 ppm	0.0256 ppm	-0.0012 ppm
Recovery Percentage 1	3.113 %	-1.369 %	-0.365 %	12.790 %	9.708 %	0.318 %	-2.842 %
Concentration RSD	43.7 %	64.5 %	326.3 %	12.0 %	4.1 %	197.0 %	326.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0006 ppm	0.0000 ppm	0.0019 ppm	0.0077 ppm	0.0002 ppm	-0.0008 ppm	-0.0008 ppm
Concentration per Run 1	0.0010 ppm	0.0000 ppm	0.0024 ppm	0.0058 ppm	0.0003 ppm	-0.0013 ppm	-0.0015 ppm
Concentration per Run 2	0.0011 ppm	0.0000 ppm	0.0017 ppm	0.0092 ppm	-0.0005 ppm	-0.0006 ppm	-0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0016 ppm	0.0082 ppm	0.0009 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	0.640 %	0.143 %	3.718 %	0.386 %	0.843 %	-7.903 %	-1.649 %
Concentration RSD	114.6 %	392.4 %	23.4 %	22.5 %	343.2 %	62.6 %	94.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0022 ppm	0.0006 ppm	-0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	-0.0013 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	-0.0037 ppm	0.0008 ppm	0.0000 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0015 ppm	-0.0015 ppm	0.0010 ppm	-0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0000 ppm
Recovery Percentage 1	5.987 %	-0.437 %	1.281 %	-0.521 %	5.270 %	2.550 %	0.456 %
Concentration RSD	148.2 %	61.6 %	74.2 %	112.1 %	11.0 %	7.2 %	171.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.9428 %	101.4812 %	92.6902 %	92.9067 %	101.3874 %	93.9346 %
Concentration per Run 1	0.0007 ppm	91.3330 %	101.9377 %	93.0285 %	91.9484 %	101.7122 %	94.3648 %
Concentration per Run 2	0.0005 ppm	93.7012 %	100.3213 %	92.2054 %	93.8107 %	100.1634 %	93.8198 %
Concentration per Run 3	0.0005 ppm	93.7944 %	102.1845 %	92.8368 %	92.9611 %	102.2865 %	93.6192 %
Recovery Percentage 1	11.241 %						
Concentration RSD	23.5 %	1.5 %	1.0 %	0.5 %	1.0 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-1 WG1976295
Analysis started at: 9/26/2024 5:09:12 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0114 ppm	-0.0002 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0986 ppm
Concentration per Run 1	0.0003 ppm	0.0195 ppm	-0.0005 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0990 ppm
Concentration per Run 2	0.0000 ppm	0.0153 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0999 ppm
Concentration per Run 3	0.0003 ppm	-0.0007 ppm	-0.0004 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0968 ppm
Recovery Percentage 1	2.843 %	11.380 %	-6.149 %	3.949 %	0.321 %	0.549 %	98.574 %
Concentration RSD	69.2 %	93.8 %	252.8 %	81.5 %	15.8 %	173.9 %	1.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0004 ppm	0.0294 ppm	0.0042 ppm	-0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0006 ppm	0.0279 ppm	-0.0089 ppm	-0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0005 ppm	0.0293 ppm	0.0219 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0309 ppm	-0.0003 ppm	-0.0008 ppm
Recovery Percentage 1	0.927 %	-1.630 %	1.744 %	3.684 %	58.802 %	0.169 %	-8.568 %
Concentration RSD	86.0 %	133.5 %	98.0 %	73.7 %	5.1 %	376.6 %	138.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0089 ppm	0.0004 ppm	0.0001 ppm	0.0101 ppm	0.0001 ppm	-0.0006 ppm	-0.0006 ppm
Concentration per Run 1	0.0079 ppm	0.0005 ppm	-0.0001 ppm	0.0088 ppm	-0.0008 ppm	-0.0012 ppm	-0.0030 ppm
Concentration per Run 2	0.0095 ppm	0.0002 ppm	0.0003 ppm	0.0139 ppm	0.0007 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0092 ppm	0.0005 ppm	0.0003 ppm	0.0075 ppm	0.0005 ppm	-0.0004 ppm	0.0007 ppm
Recovery Percentage 1	8.891 %	3.931 %	0.259 %	0.503 %	0.449 %	-5.904 %	-1.251 %
Concentration RSD	9.4 %	44.3 %	170.9 %	33.3 %	726.2 %	96.4 %	334.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	-0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0015 ppm	-0.0019 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 2	0.0020 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0011 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0021 ppm	-0.0010 ppm	0.0005 ppm	0.0002 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	18.543 %	-0.144 %	0.303 %	1.041 %	11.192 %	3.238 %	0.317 %
Concentration RSD	18.5 %	181.7 %	212.8 %	53.9 %	5.1 %	89.8 %	554.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	99.4197 %	102.6956 %	98.8641 %	101.8971 %	103.4625 %	100.9662 %
Concentration per Run 1	0.0008 ppm	97.7533 %	102.5895 %	98.1354 %	101.0742 %	103.3473 %	100.6360 %
Concentration per Run 2	0.0008 ppm	100.7333 %	103.2716 %	99.3221 %	103.3577 %	104.0431 %	101.2628 %
Concentration per Run 3	0.0007 ppm	99.7725 %	102.2258 %	99.1348 %	101.2594 %	102.9971 %	100.9997 %
Recovery Percentage 1	15.149 %						
Concentration RSD	5.4 %	1.5 %	0.5 %	0.6 %	1.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-2D2 WG1976295
Analysis started at: 9/26/2024 5:13:24 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0517 ppm	2.0615 ppm	0.1187 ppm	1.0071 ppm	2.0697 ppm	0.0531 ppm	10.1691 ppm
Concentration per Run 1	0.0522 ppm	2.0557 ppm	0.1181 ppm	1.0182 ppm	2.0696 ppm	0.0529 ppm	10.1332 ppm
Concentration per Run 2	0.0518 ppm	2.0730 ppm	0.1197 ppm	1.0037 ppm	2.0625 ppm	0.0533 ppm	10.2233 ppm
Concentration per Run 3	0.0513 ppm	2.0557 ppm	0.1184 ppm	0.9994 ppm	2.0770 ppm	0.0530 ppm	10.1510 ppm
Concentration RSD	0.8 %	0.5 %	0.7 %	1.0 %	0.3 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0543 ppm	0.5212 ppm	0.2065 ppm	0.2662 ppm	1.0811 ppm	10.6588 ppm	0.0012 ppm
Concentration per Run 1	0.0552 ppm	0.5271 ppm	0.2092 ppm	0.2691 ppm	1.0793 ppm	10.7192 ppm	0.0016 ppm
Concentration per Run 2	0.0539 ppm	0.5181 ppm	0.2052 ppm	0.2645 ppm	1.0827 ppm	10.6554 ppm	0.0001 ppm
Concentration per Run 3	0.0538 ppm	0.5182 ppm	0.2052 ppm	0.2650 ppm	1.0812 ppm	10.6018 ppm	0.0018 ppm
Concentration RSD	1.4 %	1.0 %	1.1 %	0.9 %	0.2 %	0.6 %	79.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0918 ppm	0.5302 ppm	1.0021 ppm	10.5454 ppm	0.5268 ppm	0.5437 ppm	0.5223 ppm
Concentration per Run 1	10.2699 ppm	0.5300 ppm	1.0083 ppm	10.5378 ppm	0.5347 ppm	0.5381 ppm	0.5259 ppm
Concentration per Run 2	10.0267 ppm	0.5319 ppm	0.9968 ppm	10.5408 ppm	0.5224 ppm	0.5484 ppm	0.5191 ppm
Concentration per Run 3	9.9789 ppm	0.5289 ppm	1.0010 ppm	10.5576 ppm	0.5233 ppm	0.5445 ppm	0.5218 ppm
Concentration RSD	1.5 %	0.3 %	0.6 %	0.1 %	1.3 %	1.0 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1236 ppm	0.8012 ppm	0.9776 ppm	0.9717 ppm	1.0149 ppm	0.1198 ppm	0.5284 ppm
Concentration per Run 1	0.1229 ppm	0.8110 ppm	0.9919 ppm	0.9685 ppm	1.0296 ppm	0.1200 ppm	0.5353 ppm
Concentration per Run 2	0.1246 ppm	0.7963 ppm	0.9697 ppm	0.9752 ppm	1.0133 ppm	0.1224 ppm	0.5253 ppm
Concentration per Run 3	0.1233 ppm	0.7964 ppm	0.9713 ppm	0.9714 ppm	1.0017 ppm	0.1168 ppm	0.5245 ppm
Concentration RSD	0.7 %	1.1 %	1.3 %	0.3 %	1.4 %	2.4 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5237 ppm	94.0639 %	101.8390 %	91.4874 %	91.7674 %	99.9931 %	92.6184 %
Concentration per Run 1	0.5309 ppm	92.3641 %	101.6655 %	92.0339 %	90.3664 %	99.8744 %	92.8168 %
Concentration per Run 2	0.5171 ppm	95.0153 %	101.4241 %	91.2032 %	92.7540 %	99.9041 %	92.5845 %
Concentration per Run 3	0.5229 ppm	94.8123 %	102.4274 %	91.2251 %	92.1818 %	100.2008 %	92.4539 %
Concentration RSD	1.3 %	1.6 %	0.5 %	0.5 %	1.4 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454047-07D4 WG1975918
Analysis started at: 9/26/2024 5:23:14 PM
Rack 3
Vial 6
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	211.3013 ppm	0.0009 ppm	0.0037 ppm	0.4671 ppm	0.0072 ppm	38.6387 ppm
Concentration per Run 1	-0.0006 ppm	211.2043 ppm	-0.0026 ppm	0.0043 ppm	0.4643 ppm	0.0072 ppm	38.6689 ppm
Concentration per Run 2	-0.0010 ppm	210.7624 ppm	0.0016 ppm	0.0044 ppm	0.4657 ppm	0.0072 ppm	38.6295 ppm
Concentration per Run 3	-0.0007 ppm	211.9372 ppm	0.0037 ppm	0.0025 ppm	0.4712 ppm	0.0071 ppm	38.6176 ppm
Concentration RSD	26.6 %	0.3 %	348.7 %	29.2 %	0.8 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.1990 ppm	3.8025 ppm	-0.0041 ppm	164.7021 ppm	50.5174 ppm	0.1628 ppm
Concentration per Run 1	-0.0004 ppm	0.1997 ppm	3.8095 ppm	-0.0043 ppm	164.6780 ppm	50.7282 ppm	0.1662 ppm
Concentration per Run 2	-0.0003 ppm	0.1996 ppm	3.7996 ppm	-0.0041 ppm	164.4516 ppm	50.0830 ppm	0.1606 ppm
Concentration per Run 3	-0.0004 ppm	0.1978 ppm	3.7984 ppm	-0.0037 ppm	164.9766 ppm	50.7408 ppm	0.1615 ppm
Concentration RSD	8.0 %	0.5 %	0.2 %	7.3 %	0.2 %	0.7 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	285.9358 ppm	1.4292 ppm	0.0003 ppm	10.4715 ppm	3.0897 ppm	0.0207 ppm	-0.0098 ppm
Concentration per Run 1	286.5564 ppm	1.4331 ppm	0.0003 ppm	10.4595 ppm	3.0993 ppm	0.0215 ppm	-0.0083 ppm
Concentration per Run 2	285.9975 ppm	1.4228 ppm	0.0003 ppm	10.4103 ppm	3.0836 ppm	0.0201 ppm	-0.0115 ppm
Concentration per Run 3	285.2535 ppm	1.4317 ppm	0.0004 ppm	10.5447 ppm	3.0862 ppm	0.0205 ppm	-0.0096 ppm
Concentration RSD	0.2 %	0.4 %	13.0 %	0.6 %	0.3 %	3.4 %	16.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.4492 ppm	0.0038 ppm	0.1455 ppm	9.2202 ppm	0.0082 ppm	0.2453 ppm
Concentration per Run 1	0.0005 ppm	0.4474 ppm	0.0032 ppm	0.1457 ppm	9.2012 ppm	0.0087 ppm	0.2450 ppm
Concentration per Run 2	0.0008 ppm	0.4518 ppm	0.0038 ppm	0.1455 ppm	9.1712 ppm	0.0068 ppm	0.2457 ppm
Concentration per Run 3	0.0035 ppm	0.4484 ppm	0.0043 ppm	0.1454 ppm	9.2884 ppm	0.0092 ppm	0.2450 ppm
Concentration RSD	101.6 %	0.5 %	13.4 %	0.1 %	0.7 %	15.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3268 ppm	98.1190 %	98.5223 %	79.3228 %	95.4743 %	100.3592 %	97.0183 %
Concentration per Run 1	0.3288 ppm	97.9235 %	97.8571 %	79.0962 %	95.1646 %	99.9151 %	96.4410 %
Concentration per Run 2	0.3256 ppm	97.8972 %	98.1574 %	79.2226 %	95.4210 %	99.7603 %	96.9932 %
Concentration per Run 3	0.3260 ppm	98.5363 %	99.5522 %	79.6496 %	95.8374 %	101.4022 %	97.6207 %
Concentration RSD	0.5 %	0.4 %	0.9 %	0.4 %	0.4 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453965-01D2 WG1976295
Analysis started at: 9/26/2024 5:27:30 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	12.8363 ppm	0.0274 ppm	0.0682 ppm	0.2015 ppm	0.0011 ppm	1,016.9215 [SIC 1500]
Concentration per Run 1	-0.0003 ppm	12.9129 ppm	0.0260 ppm	0.0687 ppm	0.2032 ppm	0.0012 ppm	1,022.4292 ppm
Concentration per Run 2	-0.0007 ppm	12.7733 ppm	0.0292 ppm	0.0689 ppm	0.2005 ppm	0.0011 ppm	1,015.4376 ppm
Concentration per Run 3	-0.0007 ppm	12.8228 ppm	0.0271 ppm	0.0671 ppm	0.2007 ppm	0.0012 ppm	1,012.8977 ppm
Concentration RSD	39.1 %	0.6 %	5.8 %	1.5 %	0.7 %	1.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0047 ppm	0.0104 ppm	0.0357 ppm	0.0420 ppm	26.5086 ppm	4.1820 ppm	0.0276 ppm
Concentration per Run 1	-0.0049 ppm	0.0109 ppm	0.0364 ppm	0.0425 ppm	26.7877 ppm	4.2520 ppm	0.0288 ppm
Concentration per Run 2	-0.0048 ppm	0.0105 ppm	0.0355 ppm	0.0419 ppm	26.3338 ppm	4.1629 ppm	0.0273 ppm
Concentration per Run 3	-0.0046 ppm	0.0099 ppm	0.0351 ppm	0.0415 ppm	26.4044 ppm	4.1310 ppm	0.0266 ppm
Concentration RSD	3.6 %	5.0 %	1.8 %	1.1 %	0.9 %	1.5 %	4.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.8924 ppm	0.9007 ppm	0.0178 ppm	0.7568 ppm	0.0338 ppm	0.0360 ppm	-0.0006 ppm
Concentration per Run 1	8.0748 ppm	0.9064 ppm	0.0173 ppm	0.7577 ppm	0.0352 ppm	0.0356 ppm	0.0001 ppm
Concentration per Run 2	7.8286 ppm	0.8984 ppm	0.0179 ppm	0.7525 ppm	0.0334 ppm	0.0360 ppm	-0.0025 ppm
Concentration per Run 3	7.7739 ppm	0.8975 ppm	0.0181 ppm	0.7603 ppm	0.0328 ppm	0.0365 ppm	0.0006 ppm
Concentration RSD	2.0 %	0.5 %	2.4 %	0.5 %	3.7 %	1.3 %	270.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0053 ppm	6.8631 ppm	0.0017 ppm	4.4660 ppm	0.2076 ppm	0.0021 ppm	0.0452 ppm
Concentration per Run 1	0.0060 ppm	6.9462 ppm	0.0008 ppm	4.4896 ppm	0.2098 ppm	0.0027 ppm	0.0458 ppm
Concentration per Run 2	0.0062 ppm	6.8509 ppm	0.0025 ppm	4.4648 ppm	0.2075 ppm	0.0029 ppm	0.0452 ppm
Concentration per Run 3	0.0036 ppm	6.7924 ppm	0.0017 ppm	4.4436 ppm	0.2055 ppm	0.0007 ppm	0.0448 ppm
Concentration RSD	27.0 %	1.1 %	51.3 %	0.5 %	1.1 %	59.3 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2203 ppm	86.8891 %	104.3828 %	80.2315 %	85.7248 %	104.6898 %	86.0650 %
Concentration per Run 1	0.2261 ppm	85.0144 %	103.7543 %	80.3434 %	84.5059 %	104.1966 %	85.8634 %
Concentration per Run 2	0.2188 ppm	87.4248 %	104.6638 %	80.3479 %	85.9656 %	104.7982 %	86.2816 %
Concentration per Run 3	0.2162 ppm	88.2283 %	104.7305 %	80.0033 %	86.7028 %	105.0748 %	86.0500 %
Concentration RSD	2.3 %	1.9 %	0.5 %	0.2 %	1.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:31:27 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5023 ppm	0.4868 ppm	0.4868 ppm	0.4910 ppm	0.5070 ppm	0.5123 ppm	0.5055 ppm
Concentration per Run 1	0.5070 ppm	0.4873 ppm	0.4859 ppm	0.4914 ppm	0.5045 ppm	0.5143 ppm	0.5059 ppm
Concentration per Run 2	0.5012 ppm	0.4859 ppm	0.4866 ppm	0.4925 ppm	0.5074 ppm	0.5102 ppm	0.5028 ppm
Concentration per Run 3	0.4985 ppm	0.4873 ppm	0.4880 ppm	0.4892 ppm	0.5090 ppm	0.5124 ppm	0.5077 ppm
Recovery Percentage 1	100.452 %	97.367 %	97.359 %	98.210 %	101.400 %	102.459 %	101.094 %
Concentration RSD	0.9 %	0.2 %	0.2 %	0.3 %	0.4 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4988 ppm	0.5023 ppm	0.4950 ppm	0.4924 ppm	0.5176 ppm	5.2580 ppm	0.4996 ppm
Concentration per Run 1	0.5015 ppm	0.5076 ppm	0.4996 ppm	0.4962 ppm	0.5162 ppm	5.2793 ppm	0.5025 ppm
Concentration per Run 2	0.4992 ppm	0.5007 ppm	0.4938 ppm	0.4921 ppm	0.5184 ppm	5.2717 ppm	0.4951 ppm
Concentration per Run 3	0.4957 ppm	0.4985 ppm	0.4917 ppm	0.4889 ppm	0.5183 ppm	5.2231 ppm	0.5012 ppm
Recovery Percentage 1	99.759 %	100.455 %	99.008 %	98.474 %	103.528 %	105.161 %	99.921 %
Concentration RSD	0.6 %	0.9 %	0.8 %	0.7 %	0.2 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4867 ppm	0.4981 ppm	0.4935 ppm	10.1171 ppm	0.5036 ppm	0.4990 ppm	0.4984 ppm
Concentration per Run 1	0.4909 ppm	0.4978 ppm	0.4941 ppm	10.0425 ppm	0.5101 ppm	0.5003 ppm	0.5017 ppm
Concentration per Run 2	0.4867 ppm	0.4988 ppm	0.4937 ppm	10.1280 ppm	0.5026 ppm	0.4958 ppm	0.4992 ppm
Concentration per Run 3	0.4824 ppm	0.4978 ppm	0.4928 ppm	10.1808 ppm	0.4980 ppm	0.5009 ppm	0.4944 ppm
Recovery Percentage 1	97.336 %	99.626 %	98.708 %	101.171 %	100.713 %	99.802 %	99.687 %
Concentration RSD	0.9 %	0.1 %	0.1 %	0.7 %	1.2 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4984 ppm	5.5762 ppm	0.4766 ppm	0.4861 ppm	0.4994 ppm	0.4976 ppm	0.4978 ppm
Concentration per Run 1	0.4970 ppm	5.6039 ppm	0.4789 ppm	0.4868 ppm	0.5043 ppm	0.4981 ppm	0.5019 ppm
Concentration per Run 2	0.4986 ppm	5.5690 ppm	0.4761 ppm	0.4843 ppm	0.4985 ppm	0.4979 ppm	0.4973 ppm
Concentration per Run 3	0.4994 ppm	5.5556 ppm	0.4746 ppm	0.4870 ppm	0.4956 ppm	0.4970 ppm	0.4942 ppm
Recovery Percentage 1	99.673 %	106.213 %	95.314 %	97.211 %	99.889 %	99.528 %	99.558 %
Concentration RSD	0.2 %	0.4 %	0.5 %	0.3 %	0.9 %	0.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4955 ppm	97.1117 %	107.1306 %	94.3194 %	93.6373 %	104.9039 %	94.8144 %
Concentration per Run 1	0.4983 ppm	96.7245 %	107.1018 %	93.9654 %	93.3052 %	105.4029 %	94.2722 %
Concentration per Run 2	0.4969 ppm	96.9469 %	106.3360 %	94.2473 %	93.4103 %	104.0470 %	95.0278 %
Concentration per Run 3	0.4912 ppm	97.6637 %	107.9542 %	94.7456 %	94.1963 %	105.2618 %	95.1431 %
Recovery Percentage 1	99.095 %						
Concentration RSD	0.8 %	0.5 %	0.8 %	0.4 %	0.5 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:35:24 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0064 ppm	0.0001 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 1	-0.0003 ppm	0.0074 ppm	0.0003 ppm	0.0015 ppm	-0.0002 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 2	0.0001 ppm	0.0060 ppm	-0.0005 ppm	0.0020 ppm	-0.0001 ppm	0.0001 ppm	0.0064 ppm
Concentration per Run 3	0.0002 ppm	0.0058 ppm	0.0004 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0082 ppm
Recovery Percentage 1	-0.346 %	6.404 %	2.940 %	5.680 %	-1.164 %	0.464 %	7.632 %
Concentration RSD	1,085.6 %	13.5 %	590.8 %	14.6 %	67.1 %	200.1 %	14.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0052 ppm	0.0103 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0017 ppm	0.0056 ppm	0.0065 ppm	0.0013 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0015 ppm	0.0053 ppm	0.0073 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0013 ppm	0.0045 ppm	0.0171 ppm	0.0013 ppm
Recovery Percentage 1	1.681 %	-0.630 %	-1.239 %	14.559 %	10.301 %	0.412 %	6.033 %
Concentration RSD	78.7 %	220.1 %	28.6 %	13.8 %	11.0 %	57.1 %	195.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0001 ppm	0.0016 ppm	0.0054 ppm	0.0004 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 1	-0.0008 ppm	0.0002 ppm	0.0020 ppm	0.0062 ppm	0.0005 ppm	-0.0005 ppm	-0.0015 ppm
Concentration per Run 2	0.0015 ppm	0.0001 ppm	0.0017 ppm	0.0088 ppm	0.0007 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm
Recovery Percentage 1	0.220 %	0.983 %	3.118 %	0.269 %	1.541 %	-1.985 %	-1.057 %
Concentration RSD	548.4 %	110.5 %	29.7 %	72.8 %	102.2 %	132.3 %	236.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	-0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0006 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	-0.0011 ppm	-0.0029 ppm	0.0004 ppm	0.0000 ppm	0.0007 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0024 ppm	-0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-3.982 %	-0.463 %	0.538 %	-0.005 %	5.817 %	-0.768 %	0.329 %
Concentration RSD	257.6 %	26.9 %	177.7 %	4,335.8 %	20.3 %	643.4 %	305.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	93.3520 %	103.2630 %	93.2934 %	93.8849 %	103.6274 %	95.0892 %
Concentration per Run 1	0.0007 ppm	91.2888 %	104.2103 %	93.2359 %	92.0442 %	104.3991 %	95.1933 %
Concentration per Run 2	0.0004 ppm	93.5793 %	102.5934 %	93.3905 %	93.9519 %	103.0404 %	95.3779 %
Concentration per Run 3	0.0005 ppm	95.1880 %	102.9854 %	93.2539 %	95.6584 %	103.4428 %	94.6963 %
Recovery Percentage 1	10.864 %						
Concentration RSD	30.1 %	2.1 %	0.8 %	0.1 %	1.9 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-1 WG1976217
Analysis started at: 9/26/2024 5:40:57 PM
Rack 3
Vial 7
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0025 ppm	0.0009 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 1	-0.0005 ppm	-0.0017 ppm	0.0009 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 2	-0.0001 ppm	-0.0043 ppm	0.0005 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 3	0.0000 ppm	-0.0016 ppm	0.0013 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Recovery Percentage 1	-3.039 %	-2.510 %	30.332 %	1.802 %	-0.880 %	-0.237 %	5.693 %
Concentration RSD	124.4 %	60.9 %	41.9 %	116.6 %	88.7 %	96.4 %	30.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0015 ppm	0.0121 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0018 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0013 ppm	0.0017 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0332 ppm	0.0000 ppm
Recovery Percentage 1	0.830 %	-1.524 %	0.576 %	2.432 %	2.914 %	0.484 %	1.649 %
Concentration RSD	98.3 %	40.4 %	113.5 %	101.9 %	21.2 %	151.1 %	179.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0034 ppm	-0.0002 ppm	-0.0001 ppm	-0.0026 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0048 ppm	-0.0002 ppm	-0.0005 ppm	-0.0036 ppm
Concentration per Run 2	-0.0008 ppm	0.0002 ppm	-0.0003 ppm	0.0005 ppm	-0.0005 ppm	-0.0001 ppm	-0.0020 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0049 ppm	0.0002 ppm	0.0001 ppm	-0.0022 ppm
Recovery Percentage 1	-0.271 %	1.204 %	0.437 %	0.170 %	-0.705 %	-1.459 %	-5.196 %
Concentration RSD	171.0 %	123.6 %	205.1 %	74.9 %	186.1 %	193.3 %	33.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	-0.0023 ppm	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0024 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0034 ppm	-0.0018 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0011 ppm	-0.0002 ppm
Concentration per Run 3	0.0029 ppm	-0.0028 ppm	-0.0004 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	19.864 %	-0.468 %	-0.519 %	-0.719 %	3.027 %	0.764 %	-0.631 %
Concentration RSD	100.0 %	20.4 %	114.6 %	47.6 %	60.1 %	592.3 %	284.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	96.6188 %	102.7408 %	96.7516 %	103.6034 %	105.8502 %	101.7694 %
Concentration per Run 1	0.0004 ppm	94.5228 %	102.2293 %	96.1839 %	102.5625 %	105.6333 %	101.4087 %
Concentration per Run 2	0.0004 ppm	96.7645 %	103.0827 %	97.4948 %	103.7834 %	106.0949 %	102.7021 %
Concentration per Run 3	0.0004 ppm	98.5692 %	102.9105 %	96.5761 %	104.4643 %	105.8224 %	101.1975 %
Recovery Percentage 1	8.085 %						
Concentration RSD	8.6 %	2.1 %	0.4 %	0.7 %	0.9 %	0.2 %	0.8 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-2 WG1976217
Analysis started at: 9/26/2024 5:49:02 PM
Rack 3
Vial 8
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0442 ppm	1.9271 ppm	0.1073 ppm	0.8088 ppm	1.9455 ppm	0.0491 ppm	9.6698 ppm
Concentration per Run 1	0.0436 ppm	1.9185 ppm	0.1077 ppm	0.7968 ppm	1.9427 ppm	0.0490 ppm	9.6004 ppm
Concentration per Run 2	0.0440 ppm	1.9277 ppm	0.1073 ppm	0.8049 ppm	1.9428 ppm	0.0489 ppm	9.6776 ppm
Concentration per Run 3	0.0448 ppm	1.9352 ppm	0.1069 ppm	0.8247 ppm	1.9511 ppm	0.0495 ppm	9.7314 ppm
Concentration RSD	1.4 %	0.4 %	0.4 %	1.8 %	0.2 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0450 ppm	0.4305 ppm	0.1722 ppm	0.2224 ppm	0.9925 ppm	10.1107 ppm	0.0009 ppm
Concentration per Run 1	0.0445 ppm	0.4254 ppm	0.1699 ppm	0.2193 ppm	0.9895 ppm	10.0993 ppm	0.0005 ppm
Concentration per Run 2	0.0448 ppm	0.4284 ppm	0.1712 ppm	0.2216 ppm	0.9898 ppm	10.1196 ppm	0.0018 ppm
Concentration per Run 3	0.0457 ppm	0.4376 ppm	0.1754 ppm	0.2263 ppm	0.9981 ppm	10.1133 ppm	0.0005 ppm
Concentration RSD	1.4 %	1.5 %	1.6 %	1.6 %	0.5 %	0.1 %	77.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.4038 ppm	0.4917 ppm	0.8085 ppm	10.0428 ppm	0.4322 ppm	0.5055 ppm	0.3730 ppm
Concentration per Run 1	8.3271 ppm	0.4872 ppm	0.7938 ppm	9.9252 ppm	0.4258 ppm	0.5002 ppm	0.3654 ppm
Concentration per Run 2	8.3803 ppm	0.4920 ppm	0.8042 ppm	10.0389 ppm	0.4315 ppm	0.5063 ppm	0.3715 ppm
Concentration per Run 3	8.5039 ppm	0.4960 ppm	0.8275 ppm	10.1643 ppm	0.4393 ppm	0.5099 ppm	0.3820 ppm
Concentration RSD	1.1 %	0.9 %	2.1 %	1.2 %	1.6 %	1.0 %	2.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1083 ppm	0.6833 ppm	0.7999 ppm	0.9346 ppm	0.8783 ppm	0.1168 ppm	0.4428 ppm
Concentration per Run 1	0.1079 ppm	0.6756 ppm	0.7872 ppm	0.9317 ppm	0.8622 ppm	0.1171 ppm	0.4371 ppm
Concentration per Run 2	0.1083 ppm	0.6765 ppm	0.7972 ppm	0.9281 ppm	0.8811 ppm	0.1167 ppm	0.4417 ppm
Concentration per Run 3	0.1086 ppm	0.6979 ppm	0.8153 ppm	0.9441 ppm	0.8918 ppm	0.1166 ppm	0.4496 ppm
Concentration RSD	0.3 %	1.8 %	1.8 %	0.9 %	1.7 %	0.2 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4212 ppm	117.0528 %	112.1930 %	104.4378 %	101.2956 %	105.2400 %	99.2228 %
Concentration per Run 1	0.4151 ppm	118.3170 %	112.9696 %	105.1618 %	100.0123 %	105.5626 %	98.9941 %
Concentration per Run 2	0.4187 ppm	117.5806 %	112.4531 %	104.0671 %	102.4044 %	105.3264 %	98.9405 %
Concentration per Run 3	0.4299 ppm	115.2608 %	111.1564 %	104.0845 %	101.4701 %	104.8310 %	99.7339 %
Concentration RSD	1.8 %	1.4 %	0.8 %	0.6 %	1.2 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454059-02 WG1976217
Analysis started at: 9/26/2024 5:53:18 PM
Rack 3
Vial 14
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0012 ppm	-0.0004 ppm	0.0080 ppm	0.0155 ppm	0.0000 ppm	11.8081 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0002 ppm	0.0080 ppm	0.0156 ppm	0.0000 ppm	11.7832 ppm
Concentration per Run 2	-0.0002 ppm	-0.0052 ppm	-0.0006 ppm	0.0083 ppm	0.0155 ppm	0.0000 ppm	11.8178 ppm
Concentration per Run 3	0.0002 ppm	0.0024 ppm	-0.0007 ppm	0.0076 ppm	0.0156 ppm	0.0000 ppm	11.8234 ppm
Concentration RSD	429.4 %	325.3 %	132.8 %	4.2 %	0.5 %	75.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0029 ppm	0.0019 ppm	0.0045 ppm	1.0219 ppm	0.0043 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0032 ppm	0.0020 ppm	0.0047 ppm	1.0285 ppm	0.0059 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0028 ppm	0.0018 ppm	0.0047 ppm	1.0167 ppm	0.0031 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0027 ppm	0.0017 ppm	0.0040 ppm	1.0205 ppm	0.0041 ppm
Concentration RSD	121.8 %	231.1 %	8.0 %	6.6 %	9.8 %	0.6 %	32.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9147 ppm	0.0002 ppm	0.0048 ppm	9.0009 ppm	0.0006 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 1	6.0654 ppm	0.0001 ppm	0.0047 ppm	9.0029 ppm	0.0009 ppm	-0.0007 ppm	0.0015 ppm
Concentration per Run 2	5.8846 ppm	0.0001 ppm	0.0050 ppm	8.9910 ppm	0.0011 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	5.7942 ppm	0.0003 ppm	0.0048 ppm	9.0088 ppm	-0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration RSD	2.3 %	80.5 %	2.6 %	0.1 %	106.7 %	89.4 %	474.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	10.6244 ppm	0.0021 ppm	0.0489 ppm	0.0002 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	0.0025 ppm	10.8652 ppm	0.0016 ppm	0.0489 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	10.5550 ppm	0.0022 ppm	0.0489 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.0026 ppm	10.4530 ppm	0.0025 ppm	0.0488 ppm	0.0000 ppm	-0.0007 ppm	0.0003 ppm
Concentration RSD	17.5 %	2.0 %	20.0 %	0.1 %	101.2 %	36.9 %	59.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	90.3712 %	104.4716 %	92.7765 %	94.0209 %	105.5968 %	96.7260 %
Concentration per Run 1	0.0009 ppm	88.0964 %	104.3879 %	91.1009 %	92.7510 %	106.2834 %	95.6970 %
Concentration per Run 2	0.0009 ppm	90.7369 %	103.4474 %	93.7225 %	94.0835 %	104.4040 %	97.8271 %
Concentration per Run 3	0.0009 ppm	92.2804 %	105.5794 %	93.5062 %	95.2282 %	106.1030 %	96.6538 %
Concentration RSD	2.7 %	2.3 %	1.0 %	1.6 %	1.3 %	1.0 %	1.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454059-01 WG1976217
Analysis started at: 9/26/2024 5:57:16 PM
Rack 3
Vial 9
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0116 ppm	0.0000 ppm	0.0231 ppm	0.1093 ppm	0.0001 ppm	16.2274 ppm
Concentration per Run 1	0.0000 ppm	0.0159 ppm	-0.0001 ppm	0.0235 ppm	0.1086 ppm	0.0000 ppm	16.3056 ppm
Concentration per Run 2	-0.0003 ppm	0.0115 ppm	0.0005 ppm	0.0224 ppm	0.1094 ppm	0.0001 ppm	16.1547 ppm
Concentration per Run 3	-0.0001 ppm	0.0075 ppm	-0.0004 ppm	0.0233 ppm	0.1100 ppm	0.0001 ppm	16.2220 ppm
Concentration RSD	89.9 %	36.1 %	1,642.3 %	2.6 %	0.7 %	11.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0044 ppm	0.0134 ppm	2.9032 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0043 ppm	0.0136 ppm	2.9148 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0045 ppm	0.0131 ppm	2.8885 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0043 ppm	0.0133 ppm	2.9061 ppm	0.0001 ppm
Concentration RSD	308.4 %	207.2 %	109.9 %	3.0 %	1.9 %	0.5 %	101.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7359 ppm	0.0358 ppm	0.0009 ppm	76.7644 ppm	0.0009 ppm	-0.0001 ppm	-0.0019 ppm
Concentration per Run 1	4.8658 ppm	0.0360 ppm	0.0008 ppm	76.8537 ppm	0.0012 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	4.7105 ppm	0.0356 ppm	0.0013 ppm	76.4769 ppm	0.0012 ppm	0.0002 ppm	-0.0014 ppm
Concentration per Run 3	4.6313 ppm	0.0358 ppm	0.0005 ppm	76.9626 ppm	0.0004 ppm	-0.0006 ppm	-0.0030 ppm
Concentration RSD	2.5 %	0.7 %	45.2 %	0.3 %	46.5 %	264.5 %	47.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	3.5804 ppm	0.0001 ppm	0.0888 ppm	0.0000 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0013 ppm	3.6489 ppm	0.0002 ppm	0.0886 ppm	0.0001 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 2	0.0023 ppm	3.5684 ppm	-0.0002 ppm	0.0887 ppm	-0.0003 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.0007 ppm	3.5238 ppm	0.0003 ppm	0.0890 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm
Concentration RSD	334.0 %	1.8 %	185.7 %	0.2 %	920.1 %	80.6 %	25.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	87.8654 %	101.5914 %	89.1356 %	91.4675 %	102.6474 %	93.1018 %
Concentration per Run 1	0.0042 ppm	85.7210 %	100.2520 %	88.7426 %	90.2772 %	101.5309 %	93.0522 %
Concentration per Run 2	0.0041 ppm	88.2271 %	102.6635 %	89.4501 %	91.6851 %	103.8492 %	93.5055 %
Concentration per Run 3	0.0040 ppm	89.6480 %	101.8589 %	89.2142 %	92.4402 %	102.5619 %	92.7477 %
Concentration RSD	2.4 %	2.3 %	1.2 %	0.4 %	1.2 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-3 WG1976217
Analysis started at: 9/26/2024 6:01:14 PM
Rack 3
Vial 10
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0536 ppm	2.0056 ppm	0.1232 ppm	1.0681 ppm	2.1241 ppm	0.0518 ppm	26.0939 ppm
Concentration per Run 1	0.0548 ppm	2.0018 ppm	0.1246 ppm	1.0895 ppm	2.1254 ppm	0.0517 ppm	26.0653 ppm
Concentration per Run 2	0.0537 ppm	2.0096 ppm	0.1220 ppm	1.0663 ppm	2.1225 ppm	0.0517 ppm	25.9541 ppm
Concentration per Run 3	0.0522 ppm	2.0054 ppm	0.1232 ppm	1.0484 ppm	2.1246 ppm	0.0519 ppm	26.2622 ppm
Concentration RSD	2.4 %	0.2 %	1.1 %	1.9 %	0.1 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0555 ppm	0.5198 ppm	0.2069 ppm	0.2723 ppm	1.0382 ppm	13.4994 ppm	0.0008 ppm
Concentration per Run 1	0.0568 ppm	0.5306 ppm	0.2114 ppm	0.2783 ppm	1.0401 ppm	13.5762 ppm	0.0002 ppm
Concentration per Run 2	0.0555 ppm	0.5192 ppm	0.2065 ppm	0.2725 ppm	1.0362 ppm	13.4615 ppm	0.0013 ppm
Concentration per Run 3	0.0542 ppm	0.5096 ppm	0.2027 ppm	0.2660 ppm	1.0384 ppm	13.4606 ppm	0.0010 ppm
Concentration RSD	2.3 %	2.0 %	2.1 %	2.3 %	0.2 %	0.5 %	68.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.0144 ppm	0.5445 ppm	0.9255 ppm	86.3347 ppm	0.5251 ppm	0.5459 ppm	0.4280 ppm
Concentration per Run 1	15.3320 ppm	0.5440 ppm	0.9415 ppm	86.0766 ppm	0.5356 ppm	0.5474 ppm	0.4317 ppm
Concentration per Run 2	15.0203 ppm	0.5431 ppm	0.9242 ppm	86.3473 ppm	0.5255 ppm	0.5447 ppm	0.4312 ppm
Concentration per Run 3	14.6908 ppm	0.5464 ppm	0.9108 ppm	86.5801 ppm	0.5141 ppm	0.5457 ppm	0.4210 ppm
Concentration RSD	2.1 %	0.3 %	1.7 %	0.3 %	2.0 %	0.3 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1285 ppm	4.4693 ppm	0.9607 ppm	1.0570 ppm	1.0522 ppm	0.1226 ppm	0.5328 ppm
Concentration per Run 1	0.1299 ppm	4.5642 ppm	0.9764 ppm	1.0540 ppm	1.0729 ppm	0.1234 ppm	0.5426 ppm
Concentration per Run 2	0.1262 ppm	4.4695 ppm	0.9608 ppm	1.0576 ppm	1.0491 ppm	0.1217 ppm	0.5321 ppm
Concentration per Run 3	0.1294 ppm	4.3741 ppm	0.9450 ppm	1.0594 ppm	1.0345 ppm	0.1228 ppm	0.5236 ppm
Concentration RSD	1.6 %	2.1 %	1.6 %	0.3 %	1.8 %	0.7 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5301 ppm	89.1540 %	102.5787 %	88.1974 %	90.6498 %	102.2404 %	92.1732 %
Concentration per Run 1	0.5420 ppm	87.5380 %	103.0483 %	88.1012 %	90.0561 %	103.2663 %	92.6322 %
Concentration per Run 2	0.5303 ppm	89.1117 %	102.8352 %	88.4764 %	90.4807 %	102.3496 %	92.3179 %
Concentration per Run 3	0.5179 ppm	90.8124 %	101.8526 %	88.0146 %	91.4124 %	101.1053 %	91.5696 %
Concentration RSD	2.3 %	1.8 %	0.6 %	0.3 %	0.8 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-4 WG1976217
Analysis started at: 9/26/2024 6:05:13 PM
Rack 3
Vial 11
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0150 ppm	0.0008 ppm	0.0240 ppm	0.1093 ppm	0.0000 ppm	16.2972 ppm
Concentration per Run 1	-0.0001 ppm	0.0185 ppm	0.0008 ppm	0.0243 ppm	0.1099 ppm	0.0000 ppm	16.3550 ppm
Concentration per Run 2	-0.0005 ppm	0.0176 ppm	0.0008 ppm	0.0251 ppm	0.1092 ppm	0.0000 ppm	16.2693 ppm
Concentration per Run 3	0.0002 ppm	0.0090 ppm	0.0008 ppm	0.0226 ppm	0.1088 ppm	0.0000 ppm	16.2674 ppm
Concentration RSD	268.0 %	35.1 %	4.6 %	5.3 %	0.5 %	89.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0046 ppm	0.0168 ppm	2.9349 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0048 ppm	0.0172 ppm	2.9579 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0045 ppm	0.0157 ppm	2.9046 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0045 ppm	0.0173 ppm	2.9422 ppm	0.0007 ppm
Concentration RSD	132.8 %	112.0 %	135.4 %	3.5 %	5.3 %	0.9 %	51.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7346 ppm	0.0362 ppm	0.0056 ppm	77.0304 ppm	0.0008 ppm	0.0007 ppm	0.0015 ppm
Concentration per Run 1	4.8292 ppm	0.0367 ppm	0.0058 ppm	77.3266 ppm	0.0010 ppm	0.0008 ppm	0.0027 ppm
Concentration per Run 2	4.7175 ppm	0.0360 ppm	0.0055 ppm	76.8278 ppm	0.0009 ppm	0.0007 ppm	0.0018 ppm
Concentration per Run 3	4.6571 ppm	0.0359 ppm	0.0056 ppm	76.9369 ppm	0.0005 ppm	0.0006 ppm	0.0000 ppm
Concentration RSD	1.8 %	1.2 %	2.4 %	0.3 %	30.7 %	11.1 %	91.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	3.5702 ppm	0.0035 ppm	0.0888 ppm	0.0005 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0012 ppm	3.6325 ppm	0.0031 ppm	0.0891 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0019 ppm	3.5661 ppm	0.0036 ppm	0.0886 ppm	0.0005 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0026 ppm	3.5119 ppm	0.0038 ppm	0.0888 ppm	0.0003 ppm	0.0018 ppm	0.0002 ppm
Concentration RSD	364.4 %	1.7 %	10.7 %	0.3 %	28.4 %	224.7 %	35.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0039 ppm	88.5185 %	101.9818 %	89.4473 %	91.8487 %	102.8643 %	93.4564 %
Concentration per Run 1	0.0039 ppm	86.8858 %	101.5359 %	89.0583 %	91.3724 %	102.8061 %	93.4911 %
Concentration per Run 2	0.0038 ppm	88.7788 %	101.6520 %	89.4420 %	92.0988 %	102.4676 %	93.3506 %
Concentration per Run 3	0.0040 ppm	89.8910 %	102.7576 %	89.8416 %	92.0748 %	103.3194 %	93.5276 %
Concentration RSD	2.6 %	1.7 %	0.7 %	0.4 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-5 WG1976217
Analysis started at: 9/26/2024 6:09:11 PM
Rack 3
Vial 12
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0518 ppm	1.9440 ppm	0.1200 ppm	1.0413 ppm	2.0576 ppm	0.0504 ppm	25.2819 ppm
Concentration per Run 1	0.0528 ppm	1.9489 ppm	0.1198 ppm	1.0599 ppm	2.0682 ppm	0.0507 ppm	25.3393 ppm
Concentration per Run 2	0.0515 ppm	1.9430 ppm	0.1204 ppm	1.0405 ppm	2.0569 ppm	0.0504 ppm	25.0680 ppm
Concentration per Run 3	0.0512 ppm	1.9402 ppm	0.1197 ppm	1.0234 ppm	2.0477 ppm	0.0501 ppm	25.4383 ppm
Concentration RSD	1.7 %	0.2 %	0.3 %	1.8 %	0.5 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0536 ppm	0.5062 ppm	0.2008 ppm	0.2654 ppm	1.0010 ppm	13.1504 ppm	0.0008 ppm
Concentration per Run 1	0.0544 ppm	0.5140 ppm	0.2042 ppm	0.2711 ppm	1.0045 ppm	13.1798 ppm	0.0016 ppm
Concentration per Run 2	0.0538 ppm	0.5083 ppm	0.2012 ppm	0.2645 ppm	1.0021 ppm	13.0731 ppm	0.0000 ppm
Concentration per Run 3	0.0525 ppm	0.4962 ppm	0.1969 ppm	0.2607 ppm	0.9965 ppm	13.1983 ppm	0.0008 ppm
Concentration RSD	1.8 %	1.8 %	1.8 %	2.0 %	0.4 %	0.5 %	101.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5981 ppm	0.5308 ppm	0.9111 ppm	83.2919 ppm	0.5093 ppm	0.5307 ppm	0.3806 ppm
Concentration per Run 1	14.8407 ppm	0.5310 ppm	0.9214 ppm	83.0281 ppm	0.5190 ppm	0.5314 ppm	0.3799 ppm
Concentration per Run 2	14.5847 ppm	0.5295 ppm	0.9157 ppm	83.1401 ppm	0.5103 ppm	0.5324 ppm	0.3816 ppm
Concentration per Run 3	14.3690 ppm	0.5319 ppm	0.8962 ppm	83.7076 ppm	0.4985 ppm	0.5282 ppm	0.3802 ppm
Concentration RSD	1.6 %	0.2 %	1.4 %	0.4 %	2.0 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1258 ppm	4.0290 ppm	0.9533 ppm	1.0331 ppm	1.0274 ppm	0.1203 ppm	0.5191 ppm
Concentration per Run 1	0.1260 ppm	4.1041 ppm	0.9616 ppm	1.0365 ppm	1.0463 ppm	0.1199 ppm	0.5279 ppm
Concentration per Run 2	0.1270 ppm	4.0355 ppm	0.9612 ppm	1.0346 ppm	1.0239 ppm	0.1207 ppm	0.5192 ppm
Concentration per Run 3	0.1243 ppm	3.9475 ppm	0.9372 ppm	1.0283 ppm	1.0121 ppm	0.1202 ppm	0.5103 ppm
Concentration RSD	1.1 %	1.9 %	1.5 %	0.4 %	1.7 %	0.3 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5155 ppm	89.1513 %	102.9690 %	88.2485 %	91.1532 %	103.0676 %	92.4916 %
Concentration per Run 1	0.5236 ppm	87.9239 %	103.0205 %	87.8245 %	91.1390 %	103.2168 %	92.5257 %
Concentration per Run 2	0.5178 ppm	88.9709 %	103.3961 %	88.2435 %	90.8725 %	103.4341 %	92.6839 %
Concentration per Run 3	0.5051 ppm	90.5591 %	102.4902 %	88.6774 %	91.4480 %	102.5518 %	92.2654 %
Concentration RSD	1.8 %	1.5 %	0.4 %	0.5 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-6D5 WG1976217
Analysis started at: 9/26/2024 6:13:09 PM
Rack 3
Vial 13
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0054 ppm	0.0001 ppm	0.0063 ppm	0.0213 ppm	0.0000 ppm	3.1920 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0071 ppm	0.0210 ppm	0.0000 ppm	3.1873 ppm
Concentration per Run 2	0.0001 ppm	0.0099 ppm	-0.0012 ppm	0.0064 ppm	0.0215 ppm	0.0000 ppm	3.2040 ppm
Concentration per Run 3	-0.0001 ppm	0.0066 ppm	0.0004 ppm	0.0054 ppm	0.0214 ppm	0.0000 ppm	3.1847 ppm
Concentration RSD	153.0 %	93.9 %	1,244.1 %	13.4 %	1.1 %	17.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0018 ppm	0.0041 ppm	0.5911 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0019 ppm	0.0039 ppm	0.5987 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0019 ppm	0.0035 ppm	0.5777 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm	0.0050 ppm	0.5968 ppm	-0.0006 ppm
Concentration RSD	225.2 %	84.3 %	702.6 %	9.5 %	18.9 %	2.0 %	38,224.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9000 ppm	0.0070 ppm	0.0067 ppm	15.2887 ppm	0.0005 ppm	-0.0007 ppm	0.0100 ppm
Concentration per Run 1	0.9173 ppm	0.0071 ppm	0.0062 ppm	15.2892 ppm	0.0010 ppm	-0.0005 ppm	0.0073 ppm
Concentration per Run 2	0.8975 ppm	0.0071 ppm	0.0070 ppm	15.1726 ppm	0.0001 ppm	-0.0008 ppm	0.0111 ppm
Concentration per Run 3	0.8851 ppm	0.0069 ppm	0.0070 ppm	15.4043 ppm	0.0004 ppm	-0.0009 ppm	0.0116 ppm
Concentration RSD	1.8 %	1.3 %	6.6 %	0.8 %	95.3 %	24.2 %	23.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.6691 ppm	0.0102 ppm	0.0174 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0017 ppm	0.6800 ppm	0.0105 ppm	0.0175 ppm	0.0005 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0011 ppm	0.6679 ppm	0.0093 ppm	0.0174 ppm	0.0005 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0010 ppm	0.6592 ppm	0.0109 ppm	0.0173 ppm	0.0004 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	268.6 %	1.6 %	7.9 %	0.6 %	12.8 %	410.8 %	247.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	92.3847 %	103.0348 %	92.8696 %	92.1954 %	102.1875 %	93.9262 %
Concentration per Run 1	0.0013 ppm	90.4997 %	103.3137 %	93.0659 %	91.0742 %	102.7615 %	94.2134 %
Concentration per Run 2	0.0010 ppm	92.7065 %	102.2638 %	92.8385 %	92.4707 %	101.7289 %	93.7110 %
Concentration per Run 3	0.0010 ppm	93.9478 %	103.5270 %	92.7043 %	93.0412 %	102.0720 %	93.8541 %
Concentration RSD	18.8 %	1.9 %	0.7 %	0.2 %	1.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:17:08 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4995 ppm	0.4898 ppm	0.4842 ppm	0.4919 ppm	0.5074 ppm	0.5154 ppm	0.4964 ppm
Concentration per Run 1	0.5021 ppm	0.4850 ppm	0.4849 ppm	0.4953 ppm	0.5035 ppm	0.5122 ppm	0.4930 ppm
Concentration per Run 2	0.4983 ppm	0.4916 ppm	0.4859 ppm	0.4921 ppm	0.5086 ppm	0.5183 ppm	0.5002 ppm
Concentration per Run 3	0.4981 ppm	0.4928 ppm	0.4820 ppm	0.4884 ppm	0.5102 ppm	0.5158 ppm	0.4958 ppm
Recovery Percentage 1	99.900 %	97.960 %	96.849 %	98.380 %	101.480 %	103.088 %	99.273 %
Concentration RSD	0.5 %	0.9 %	0.4 %	0.7 %	0.7 %	0.6 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5020 ppm	0.5053 ppm	0.4929 ppm	0.4925 ppm	0.5180 ppm	5.3065 ppm	0.4998 ppm
Concentration per Run 1	0.5063 ppm	0.5084 ppm	0.4953 ppm	0.4941 ppm	0.5107 ppm	5.2854 ppm	0.4977 ppm
Concentration per Run 2	0.5017 ppm	0.5045 ppm	0.4919 ppm	0.4915 ppm	0.5215 ppm	5.3459 ppm	0.5061 ppm
Concentration per Run 3	0.4982 ppm	0.5030 ppm	0.4915 ppm	0.4919 ppm	0.5218 ppm	5.2882 ppm	0.4957 ppm
Recovery Percentage 1	100.409 %	101.058 %	98.583 %	98.498 %	103.601 %	106.131 %	99.969 %
Concentration RSD	0.8 %	0.5 %	0.4 %	0.3 %	1.2 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4872 ppm	0.5015 ppm	0.4965 ppm	10.1857 ppm	0.5047 ppm	0.4962 ppm	0.5003 ppm
Concentration per Run 1	0.4899 ppm	0.4976 ppm	0.4968 ppm	10.0693 ppm	0.5061 ppm	0.4959 ppm	0.5016 ppm
Concentration per Run 2	0.4869 ppm	0.5031 ppm	0.4958 ppm	10.2093 ppm	0.5044 ppm	0.4947 ppm	0.4960 ppm
Concentration per Run 3	0.4847 ppm	0.5037 ppm	0.4969 ppm	10.2787 ppm	0.5037 ppm	0.4980 ppm	0.5031 ppm
Recovery Percentage 1	97.433 %	100.291 %	99.302 %	101.857 %	100.944 %	99.242 %	100.051 %
Concentration RSD	0.5 %	0.7 %	0.1 %	1.0 %	0.2 %	0.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4976 ppm	5.5485 ppm	0.4824 ppm	0.4868 ppm	0.4958 ppm	0.4938 ppm	0.4985 ppm
Concentration per Run 1	0.4967 ppm	5.5712 ppm	0.4832 ppm	0.4839 ppm	0.4978 ppm	0.4953 ppm	0.4991 ppm
Concentration per Run 2	0.4984 ppm	5.5351 ppm	0.4839 ppm	0.4881 ppm	0.4959 ppm	0.4937 ppm	0.4982 ppm
Concentration per Run 3	0.4976 ppm	5.5392 ppm	0.4803 ppm	0.4883 ppm	0.4939 ppm	0.4924 ppm	0.4982 ppm
Recovery Percentage 1	99.510 %	105.685 %	96.486 %	97.352 %	99.169 %	98.756 %	99.705 %
Concentration RSD	0.2 %	0.4 %	0.4 %	0.5 %	0.4 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4987 ppm	95.9275 %	104.3372 %	93.9803 %	92.5491 %	101.9843 %	93.8243 %
Concentration per Run 1	0.5018 ppm	95.1423 %	105.4229 %	93.9768 %	91.9699 %	102.8191 %	93.9847 %
Concentration per Run 2	0.4992 ppm	96.0504 %	103.6674 %	94.1261 %	92.4900 %	101.5356 %	93.7201 %
Concentration per Run 3	0.4952 ppm	96.5897 %	103.9212 %	93.8380 %	93.1874 %	101.5980 %	93.7681 %
Recovery Percentage 1	99.749 %						
Concentration RSD	0.7 %	0.8 %	0.9 %	0.2 %	0.7 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:21:05 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 1	-0.0004 ppm	-0.0059 ppm	0.0001 ppm	0.0024 ppm	-0.0002 ppm	0.0001 ppm	0.0055 ppm
Concentration per Run 2	0.0000 ppm	0.0032 ppm	-0.0009 ppm	0.0021 ppm	0.0001 ppm	0.0001 ppm	0.0070 ppm
Concentration per Run 3	-0.0002 ppm	0.0027 ppm	0.0007 ppm	0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0107 ppm
Recovery Percentage 1	-2.641 %	0.004 %	-0.734 %	7.565 %	-0.645 %	0.911 %	7.724 %
Concentration RSD	95.3 %	123,961.0 %	3,481.0 %	6.9 %	226.1 %	99.8 %	34.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0038 ppm	0.0114 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0014 ppm	0.0034 ppm	0.0169 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0011 ppm	0.0050 ppm	0.0194 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm	0.0031 ppm	-0.0021 ppm	-0.0002 ppm
Recovery Percentage 1	1.442 %	-0.083 %	0.318 %	13.098 %	7.609 %	0.456 %	-2.243 %
Concentration RSD	78.4 %	2,618.2 %	302.5 %	15.8 %	26.7 %	103.1 %	134.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0001 ppm	0.0023 ppm	0.0123 ppm	-0.0002 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0010 ppm	0.0002 ppm	0.0026 ppm	0.0091 ppm	-0.0002 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 2	0.0017 ppm	0.0002 ppm	0.0021 ppm	0.0120 ppm	-0.0002 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0024 ppm	0.0158 ppm	-0.0001 ppm	-0.0012 ppm	-0.0001 ppm
Recovery Percentage 1	1.027 %	1.034 %	4.669 %	0.614 %	-0.729 %	-4.202 %	0.993 %
Concentration RSD	62.0 %	91.6 %	10.5 %	27.2 %	41.2 %	193.4 %	133.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	-0.0036 ppm	0.0017 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	-0.0032 ppm	0.0020 ppm	0.0000 ppm	0.0002 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0010 ppm	-0.0031 ppm	0.0018 ppm	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	-0.0045 ppm	0.0014 ppm	0.0000 ppm	0.0005 ppm	-0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	7.727 %	-0.720 %	3.431 %	0.212 %	3.487 %	-5.140 %	0.390 %
Concentration RSD	31.8 %	22.2 %	17.8 %	107.0 %	46.6 %	32.6 %	274.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.7334 %	101.6861 %	92.8684 %	92.6714 %	101.8706 %	94.2023 %
Concentration per Run 1	0.0006 ppm	91.4196 %	101.6277 %	93.0800 %	91.8954 %	101.7872 %	94.1693 %
Concentration per Run 2	0.0007 ppm	92.8530 %	102.6230 %	92.7415 %	92.7749 %	102.8954 %	94.2401 %
Concentration per Run 3	0.0005 ppm	93.9275 %	100.8077 %	92.7837 %	93.3440 %	100.9293 %	94.1976 %
Recovery Percentage 1	12.207 %						
Concentration RSD	20.9 %	1.4 %	0.9 %	0.2 %	0.8 %	1.0 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454085-04D2 WG1976295
Analysis started at: 9/26/2024 6:26:57 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	116.1300 ppm	0.0314 ppm	0.0152 ppm	0.5503 ppm	0.0092 ppm	20.8480 ppm
Concentration per Run 1	-0.0009 ppm	115.4604 ppm	0.0318 ppm	0.0143 ppm	0.5474 ppm	0.0090 ppm	20.6517 ppm
Concentration per Run 2	-0.0002 ppm	116.8444 ppm	0.0310 ppm	0.0157 ppm	0.5517 ppm	0.0092 ppm	20.9267 ppm
Concentration per Run 3	-0.0005 ppm	116.0851 ppm	0.0316 ppm	0.0156 ppm	0.5518 ppm	0.0094 ppm	20.9657 ppm
Concentration RSD	66.7 %	0.6 %	1.4 %	5.2 %	0.5 %	2.0 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0785 ppm	0.2324 ppm	0.2231 ppm	153.0255 ppm	19.7199 ppm	0.1826 ppm
Concentration per Run 1	0.0001 ppm	0.0791 ppm	0.2339 ppm	0.2247 ppm	152.1964 ppm	19.6302 ppm	0.1798 ppm
Concentration per Run 2	0.0001 ppm	0.0781 ppm	0.2325 ppm	0.2222 ppm	154.1437 ppm	19.8581 ppm	0.1836 ppm
Concentration per Run 3	0.0002 ppm	0.0782 ppm	0.2306 ppm	0.2226 ppm	152.7364 ppm	19.6713 ppm	0.1843 ppm
Concentration RSD	65.9 %	0.7 %	0.7 %	0.6 %	0.7 %	0.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	50.9588 ppm	2.9527 ppm	0.0033 ppm	1.3944 ppm	0.1604 ppm	0.1522 ppm	0.0004 ppm
Concentration per Run 1	51.2841 ppm	2.9397 ppm	0.0030 ppm	1.3855 ppm	0.1606 ppm	0.1504 ppm	-0.0022 ppm
Concentration per Run 2	51.0245 ppm	2.9591 ppm	0.0034 ppm	1.4072 ppm	0.1609 ppm	0.1533 ppm	0.0039 ppm
Concentration per Run 3	50.5678 ppm	2.9593 ppm	0.0035 ppm	1.3904 ppm	0.1597 ppm	0.1529 ppm	-0.0006 ppm
Concentration RSD	0.7 %	0.4 %	8.9 %	0.8 %	0.4 %	1.0 %	864.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	3.1388 ppm	0.0082 ppm	0.0869 ppm	7.8752 ppm	0.0060 ppm	0.4676 ppm
Concentration per Run 1	-0.0014 ppm	3.1423 ppm	0.0085 ppm	0.0859 ppm	7.9127 ppm	0.0055 ppm	0.4712 ppm
Concentration per Run 2	0.0024 ppm	3.1435 ppm	0.0083 ppm	0.0873 ppm	7.8777 ppm	0.0054 ppm	0.4666 ppm
Concentration per Run 3	-0.0010 ppm	3.1307 ppm	0.0078 ppm	0.0874 ppm	7.8351 ppm	0.0071 ppm	0.4650 ppm
Concentration RSD	8,999.4 %	0.2 %	4.6 %	0.9 %	0.5 %	16.7 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3501 ppm	109.2860 %	111.4104 %	92.5950 %	140.8339 %	**149.4343 %**	143.9321 %
Concentration per Run 1	0.3505 ppm	108.3081 %	112.5254 %	92.6014 %	139.6663 %	**150.3568 %**	144.0201 %
Concentration per Run 2	0.3522 ppm	109.4269 %	110.8208 %	92.4625 %	141.2409 %	**149.2638 %**	143.6341 %
Concentration per Run 3	0.3478 ppm	110.1229 %	110.8849 %	92.7210 %	141.5946 %	**148.6822 %**	144.1420 %
Concentration RSD	0.6 %	0.8 %	0.9 %	0.1 %	0.7 %	**0.6 %**	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454097-02D2 WG1976295
Analysis started at: 9/26/2024 6:31:13 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	77.5137 ppm	0.0410 ppm	0.0435 ppm	0.7321 ppm	0.0041 ppm	56.3935 ppm
Concentration per Run 1	0.0006 ppm	77.5167 ppm	0.0408 ppm	0.0445 ppm	0.7292 ppm	0.0041 ppm	55.9682 ppm
Concentration per Run 2	0.0005 ppm	77.0327 ppm	0.0397 ppm	0.0431 ppm	0.7302 ppm	0.0041 ppm	56.5536 ppm
Concentration per Run 3	0.0011 ppm	77.9915 ppm	0.0425 ppm	0.0428 ppm	0.7370 ppm	0.0041 ppm	56.6586 ppm
Concentration RSD	41.7 %	0.6 %	3.4 %	2.0 %	0.6 %	0.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0538 ppm	0.1737 ppm	0.3149 ppm	134.3141 ppm	4.3845 ppm	0.0726 ppm
Concentration per Run 1	0.0021 ppm	0.0556 ppm	0.1766 ppm	0.3195 ppm	133.1852 ppm	4.3963 ppm	0.0726 ppm
Concentration per Run 2	0.0021 ppm	0.0532 ppm	0.1729 ppm	0.3129 ppm	134.1461 ppm	4.3656 ppm	0.0722 ppm
Concentration per Run 3	0.0022 ppm	0.0526 ppm	0.1716 ppm	0.3123 ppm	135.6110 ppm	4.3914 ppm	0.0730 ppm
Concentration RSD	3.8 %	2.9 %	1.5 %	1.3 %	0.9 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.9528 ppm	2.8035 ppm	0.0034 ppm	1.5717 ppm	0.1171 ppm	1.1894 ppm	0.0062 ppm
Concentration per Run 1	28.3686 ppm	2.7862 ppm	0.0038 ppm	1.5688 ppm	0.1187 ppm	1.1902 ppm	0.0059 ppm
Concentration per Run 2	27.8769 ppm	2.8063 ppm	0.0032 ppm	1.5703 ppm	0.1171 ppm	1.1870 ppm	0.0083 ppm
Concentration per Run 3	27.6130 ppm	2.8180 ppm	0.0032 ppm	1.5761 ppm	0.1156 ppm	1.1910 ppm	0.0044 ppm
Concentration RSD	1.4 %	0.6 %	9.9 %	0.2 %	1.3 %	0.2 %	31.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	4.8919 ppm	0.0239 ppm	0.2824 ppm	2.5445 ppm	0.0012 ppm	0.2336 ppm
Concentration per Run 1	0.0021 ppm	4.9798 ppm	0.0237 ppm	0.2818 ppm	2.5803 ppm	0.0019 ppm	0.2376 ppm
Concentration per Run 2	0.0021 ppm	4.8450 ppm	0.0243 ppm	0.2809 ppm	2.5384 ppm	0.0003 ppm	0.2339 ppm
Concentration per Run 3	0.0043 ppm	4.8509 ppm	0.0238 ppm	0.2846 ppm	2.5147 ppm	0.0015 ppm	0.2294 ppm
Concentration RSD	44.2 %	1.6 %	1.5 %	0.7 %	1.3 %	69.8 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7530 ppm	95.1920 %	103.5540 %	89.1382 %	107.7160 %	121.6511 %	112.1247 %
Concentration per Run 1	1.7816 ppm	93.6696 %	105.2389 %	89.2641 %	106.1400 %	123.3162 %	112.3090 %
Concentration per Run 2	1.7305 ppm	95.1835 %	102.6569 %	89.3958 %	107.1448 %	120.9430 %	112.3536 %
Concentration per Run 3	1.7468 ppm	96.7228 %	102.7662 %	88.7546 %	109.8633 %	120.6939 %	111.7117 %
Concentration RSD	1.5 %	1.6 %	1.4 %	0.4 %	1.8 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454097-04D2 WG1976295
Analysis started at: 9/26/2024 6:35:11 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	72.6956 ppm	0.0533 ppm	0.0344 ppm	0.8158 ppm	0.0046 ppm	58.9086 ppm
Concentration per Run 1	0.0017 ppm	72.1423 ppm	0.0536 ppm	0.0359 ppm	0.8027 ppm	0.0047 ppm	59.2019 ppm
Concentration per Run 2	0.0011 ppm	73.7987 ppm	0.0538 ppm	0.0334 ppm	0.8408 ppm	0.0044 ppm	58.1620 ppm
Concentration per Run 3	0.0013 ppm	72.1457 ppm	0.0524 ppm	0.0339 ppm	0.8038 ppm	0.0048 ppm	59.3619 ppm
Concentration RSD	21.7 %	1.3 %	1.5 %	3.8 %	2.7 %	3.8 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0112 ppm	0.0487 ppm	0.1329 ppm	0.2866 ppm	140.4185 ppm	5.0983 ppm	0.0822 ppm
Concentration per Run 1	0.0113 ppm	0.0495 ppm	0.1332 ppm	0.2901 ppm	138.9841 ppm	4.9847 ppm	0.0815 ppm
Concentration per Run 2	0.0112 ppm	0.0490 ppm	0.1337 ppm	0.2859 ppm	143.6481 ppm	5.3855 ppm	0.0874 ppm
Concentration per Run 3	0.0112 ppm	0.0476 ppm	0.1318 ppm	0.2837 ppm	138.6233 ppm	4.9248 ppm	0.0778 ppm
Concentration RSD	0.5 %	2.0 %	0.7 %	1.1 %	2.0 %	4.9 %	5.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.6756 ppm	3.3991 ppm	0.0035 ppm	1.1779 ppm	0.1151 ppm	1.9430 ppm	0.0067 ppm
Concentration per Run 1	21.8206 ppm	3.3801 ppm	0.0032 ppm	1.1556 ppm	0.1155 ppm	1.9475 ppm	0.0053 ppm
Concentration per Run 2	21.8519 ppm	3.4226 ppm	0.0034 ppm	1.2306 ppm	0.1156 ppm	1.9441 ppm	0.0050 ppm
Concentration per Run 3	21.3542 ppm	3.3946 ppm	0.0037 ppm	1.1474 ppm	0.1141 ppm	1.9375 ppm	0.0096 ppm
Concentration RSD	1.3 %	0.6 %	7.6 %	3.9 %	0.7 %	0.3 %	38.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	4.3900 ppm	0.0516 ppm	0.3571 ppm	1.8056 ppm	0.0014 ppm	0.2148 ppm
Concentration per Run 1	0.0020 ppm	4.4183 ppm	0.0522 ppm	0.3584 ppm	1.8069 ppm	0.0024 ppm	0.2152 ppm
Concentration per Run 2	0.0006 ppm	4.3896 ppm	0.0519 ppm	0.3509 ppm	1.8143 ppm	0.0007 ppm	0.2166 ppm
Concentration per Run 3	0.0033 ppm	4.3621 ppm	0.0508 ppm	0.3620 ppm	1.7957 ppm	0.0010 ppm	0.2128 ppm
Concentration RSD	69.5 %	0.6 %	1.5 %	1.6 %	0.5 %	64.7 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	14.4757 ppm	95.0904 %	103.8662 %	89.9280 %	109.5166 %	123.6618 %	113.9211 %
Concentration per Run 1	14.5915 ppm	94.9197 %	102.3408 %	90.0730 %	109.5318 %	122.7548 %	114.2003 %
Concentration per Run 2	14.5721 ppm	93.9297 %	107.7599 %	89.6809 %	108.2813 %	126.6781 %	113.6674 %
Concentration per Run 3	14.2635 ppm	96.4219 %	101.4979 %	90.0301 %	110.7366 %	121.5523 %	113.8957 %
Concentration RSD	1.3 %	1.3 %	3.3 %	0.2 %	1.1 %	2.2 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454098-02D2 WG1976295
Analysis started at: 9/26/2024 6:39:09 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	174.1450 ppm	0.0410 ppm	0.1449 ppm	0.8700 ppm	0.0040 ppm	613.7981 ppm
Concentration per Run 1	0.0014 ppm	173.6358 ppm	0.0392 ppm	0.1452 ppm	0.8648 ppm	0.0039 ppm	607.3451 ppm
Concentration per Run 2	0.0014 ppm	174.0965 ppm	0.0426 ppm	0.1450 ppm	0.8728 ppm	0.0040 ppm	614.7359 ppm
Concentration per Run 3	0.0011 ppm	174.7028 ppm	0.0411 ppm	0.1444 ppm	0.8725 ppm	0.0041 ppm	619.3133 ppm
Concentration RSD	11.7 %	0.3 %	4.1 %	0.3 %	0.5 %	2.7 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0900 ppm	0.3772 ppm	0.5868 ppm	184.5815 ppm	7.9770 ppm	0.0804 ppm
Concentration per Run 1	0.0018 ppm	0.0906 ppm	0.3818 ppm	0.5900 ppm	182.8313 ppm	7.9539 ppm	0.0802 ppm
Concentration per Run 2	0.0020 ppm	0.0896 ppm	0.3745 ppm	0.5847 ppm	184.4133 ppm	7.9828 ppm	0.0809 ppm
Concentration per Run 3	0.0020 ppm	0.0898 ppm	0.3753 ppm	0.5858 ppm	186.5001 ppm	7.9941 ppm	0.0802 ppm
Concentration RSD	5.8 %	0.6 %	1.1 %	0.5 %	1.0 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	79.2544 ppm	2.2737 ppm	0.0277 ppm	18.5537 ppm	0.3156 ppm	0.0263 ppm	0.0024 ppm
Concentration per Run 1	80.1330 ppm	2.2655 ppm	0.0276 ppm	18.5820 ppm	0.3191 ppm	0.0262 ppm	0.0036 ppm
Concentration per Run 2	78.9306 ppm	2.2763 ppm	0.0272 ppm	18.5472 ppm	0.3135 ppm	0.0260 ppm	0.0021 ppm
Concentration per Run 3	78.6998 ppm	2.2793 ppm	0.0282 ppm	18.5319 ppm	0.3143 ppm	0.0265 ppm	0.0016 ppm
Concentration RSD	1.0 %	0.3 %	1.7 %	0.1 %	1.0 %	1.0 %	44.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0070 ppm	2.7243 ppm	0.0045 ppm	1.5944 ppm	14.8437 ppm	0.0081 ppm	1.1916 ppm
Concentration per Run 1	0.0076 ppm	2.7399 ppm	0.0040 ppm	1.5803 ppm	14.9327 ppm	0.0076 ppm	1.2022 ppm
Concentration per Run 2	0.0068 ppm	2.7137 ppm	0.0038 ppm	1.5981 ppm	14.7507 ppm	0.0101 ppm	1.1878 ppm
Concentration per Run 3	0.0065 ppm	2.7194 ppm	0.0057 ppm	1.6047 ppm	14.8477 ppm	0.0066 ppm	1.1847 ppm
Concentration RSD	8.3 %	0.5 %	22.4 %	0.8 %	0.6 %	21.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5257 ppm	91.0484 %	104.0327 %	69.3558 %	102.3942 %	122.5526 %	105.5918 %
Concentration per Run 1	0.5327 ppm	90.3129 %	106.1611 %	69.6394 %	102.1093 %	124.6476 %	105.6540 %
Concentration per Run 2	0.5216 ppm	91.5786 %	103.7374 %	69.9158 %	102.9936 %	121.9865 %	106.0157 %
Concentration per Run 3	0.5227 ppm	91.2536 %	102.1997 %	68.5121 %	102.0796 %	121.0238 %	105.1058 %
Concentration RSD	1.2 %	0.7 %	1.9 %	1.1 %	0.5 %	1.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454865-01D2 WG1976295
Analysis started at: 9/26/2024 6:43:07 PM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	88.4075 ppm	0.0462 ppm	0.0379 ppm	0.1366 ppm	0.0044 ppm	10.7799 ppm
Concentration per Run 1	0.0001 ppm	88.0899 ppm	0.0474 ppm	0.0387 ppm	0.1360 ppm	0.0043 ppm	10.7995 ppm
Concentration per Run 2	-0.0005 ppm	88.4177 ppm	0.0464 ppm	0.0372 ppm	0.1373 ppm	0.0044 ppm	10.7239 ppm
Concentration per Run 3	-0.0004 ppm	88.7149 ppm	0.0447 ppm	0.0380 ppm	0.1364 ppm	0.0043 ppm	10.8162 ppm
Concentration RSD	108.7 %	0.4 %	2.9 %	2.0 %	0.5 %	1.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0110 ppm	0.4667 ppm	0.0480 ppm	139.9088 ppm	6.5994 ppm	0.0421 ppm
Concentration per Run 1	0.0021 ppm	0.0106 ppm	0.4725 ppm	0.0493 ppm	139.6804 ppm	6.5983 ppm	0.0426 ppm
Concentration per Run 2	0.0021 ppm	0.0111 ppm	0.4674 ppm	0.0475 ppm	139.8708 ppm	6.5863 ppm	0.0417 ppm
Concentration per Run 3	0.0019 ppm	0.0114 ppm	0.4602 ppm	0.0471 ppm	140.1752 ppm	6.6136 ppm	0.0420 ppm
Concentration RSD	6.1 %	3.5 %	1.3 %	2.4 %	0.2 %	0.2 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6560 ppm	0.6151 ppm	0.0004 ppm	0.5741 ppm	0.1299 ppm	0.0874 ppm	-0.0016 ppm
Concentration per Run 1	5.7199 ppm	0.6138 ppm	0.0001 ppm	0.5706 ppm	0.1321 ppm	0.0882 ppm	-0.0012 ppm
Concentration per Run 2	5.6761 ppm	0.6158 ppm	0.0007 ppm	0.5767 ppm	0.1299 ppm	0.0868 ppm	-0.0017 ppm
Concentration per Run 3	5.5721 ppm	0.6158 ppm	0.0003 ppm	0.5748 ppm	0.1275 ppm	0.0871 ppm	-0.0020 ppm
Concentration RSD	1.3 %	0.2 %	77.7 %	0.5 %	1.8 %	0.9 %	26.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0055 ppm	4.5354 ppm	0.0044 ppm	0.0684 ppm	0.2555 ppm	0.0007 ppm	0.4093 ppm
Concentration per Run 1	0.0048 ppm	4.6007 ppm	0.0047 ppm	0.0684 ppm	0.2580 ppm	0.0009 ppm	0.4125 ppm
Concentration per Run 2	0.0064 ppm	4.5252 ppm	0.0045 ppm	0.0687 ppm	0.2553 ppm	0.0005 ppm	0.4102 ppm
Concentration per Run 3	0.0052 ppm	4.4802 ppm	0.0040 ppm	0.0680 ppm	0.2533 ppm	0.0006 ppm	0.4052 ppm
Concentration RSD	15.4 %	1.3 %	8.1 %	0.5 %	0.9 %	32.7 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4612 ppm	95.5759 %	108.3621 %	93.4051 %	95.7700 %	111.0194 %	100.6036 %
Concentration per Run 1	0.4680 ppm	94.7102 %	108.3932 %	93.6982 %	95.3263 %	111.1883 %	100.9027 %
Concentration per Run 2	0.4623 ppm	95.2949 %	109.6248 %	93.3014 %	95.2752 %	112.5215 %	100.5922 %
Concentration per Run 3	0.4532 ppm	96.7226 %	107.0684 %	93.2156 %	96.7086 %	109.3485 %	100.3158 %
Concentration RSD	1.6 %	1.1 %	1.2 %	0.3 %	0.8 %	1.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2452560-01D2 WG1976295
Analysis started at: 9/26/2024 6:47:05 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	84.8519 ppm	0.0950 ppm	0.0396 ppm	0.0925 ppm	0.0025 ppm	9.5650 ppm
Concentration per Run 1	-0.0009 ppm	84.2755 ppm	0.0940 ppm	0.0391 ppm	0.0914 ppm	0.0025 ppm	9.5596 ppm
Concentration per Run 2	-0.0004 ppm	85.1013 ppm	0.0948 ppm	0.0400 ppm	0.0923 ppm	0.0026 ppm	9.5721 ppm
Concentration per Run 3	-0.0010 ppm	85.1790 ppm	0.0961 ppm	0.0396 ppm	0.0936 ppm	0.0025 ppm	9.5632 ppm
Concentration RSD	44.5 %	0.6 %	1.1 %	1.2 %	1.2 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.2139 ppm	0.1795 ppm	0.2477 ppm	236.3608 ppm	4.8124 ppm	0.1844 ppm
Concentration per Run 1	0.0003 ppm	0.2168 ppm	0.1817 ppm	0.2493 ppm	235.0504 ppm	4.7663 ppm	0.1832 ppm
Concentration per Run 2	0.0005 ppm	0.2126 ppm	0.1789 ppm	0.2475 ppm	234.4342 ppm	4.8311 ppm	0.1828 ppm
Concentration per Run 3	0.0002 ppm	0.2125 ppm	0.1781 ppm	0.2462 ppm	239.5979 ppm	4.8398 ppm	0.1873 ppm
Concentration RSD	46.0 %	1.1 %	1.0 %	0.6 %	1.2 %	0.8 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.6936 ppm	2.0896 ppm	0.0145 ppm	20.5894 ppm	0.1985 ppm	0.1260 ppm	0.0187 ppm
Concentration per Run 1	34.2538 ppm	2.0807 ppm	0.0142 ppm	20.3900 ppm	0.2015 ppm	0.1244 ppm	0.0212 ppm
Concentration per Run 2	33.5033 ppm	2.0961 ppm	0.0148 ppm	20.7745 ppm	0.1967 ppm	0.1266 ppm	0.0185 ppm
Concentration per Run 3	33.3236 ppm	2.0919 ppm	0.0146 ppm	20.6037 ppm	0.1974 ppm	0.1269 ppm	0.0163 ppm
Concentration RSD	1.5 %	0.4 %	1.9 %	0.9 %	1.3 %	1.1 %	13.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	7.7007 ppm	0.0105 ppm	0.0959 ppm	1.0083 ppm	0.0014 ppm	0.1654 ppm
Concentration per Run 1	0.0018 ppm	7.7768 ppm	0.0110 ppm	0.0955 ppm	1.0196 ppm	0.0023 ppm	0.1675 ppm
Concentration per Run 2	0.0036 ppm	7.7015 ppm	0.0104 ppm	0.0956 ppm	1.0020 ppm	0.0005 ppm	0.1643 ppm
Concentration per Run 3	0.0028 ppm	7.6238 ppm	0.0102 ppm	0.0966 ppm	1.0033 ppm	0.0015 ppm	0.1643 ppm
Concentration RSD	32.0 %	1.0 %	4.1 %	0.6 %	1.0 %	63.0 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5751 ppm	93.9127 %	102.8728 %	88.9331 %	100.1676 %	114.4424 %	105.2220 %
Concentration per Run 1	0.5836 ppm	92.3394 %	102.8291 %	89.2649 %	98.1619 %	114.2135 %	105.6543 %
Concentration per Run 2	0.5724 ppm	94.5169 %	102.4206 %	89.1388 %	101.1207 %	113.4004 %	105.3012 %
Concentration per Run 3	0.5693 ppm	94.8818 %	103.3686 %	88.3958 %	101.2202 %	115.7134 %	104.7106 %
Concentration RSD	1.3 %	1.5 %	0.5 %	0.5 %	1.7 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-3D2 WG1976295
Analysis started at: 9/26/2024 6:51:03 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0518 ppm	69.9369 ppm	0.1713 ppm	0.9922 ppm	2.0904 ppm	0.0553 ppm	110.1887 ppm
Concentration per Run 1	0.0521 ppm	69.1131 ppm	0.1692 ppm	0.9936 ppm	2.0504 ppm	0.0560 ppm	110.6800 ppm
Concentration per Run 2	0.0515 ppm	69.7179 ppm	0.1694 ppm	0.9963 ppm	2.0816 ppm	0.0560 ppm	111.0404 ppm
Concentration per Run 3	0.0518 ppm	70.9797 ppm	0.1752 ppm	0.9868 ppm	2.1393 ppm	0.0538 ppm	108.8455 ppm
Concentration RSD	0.6 %	1.4 %	2.0 %	0.5 %	2.2 %	2.2 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0507 ppm	0.5551 ppm	0.3988 ppm	0.4187 ppm	176.3018 ppm	13.8324 ppm	0.1675 ppm
Concentration per Run 1	0.0510 ppm	0.5575 ppm	0.3988 ppm	0.4199 ppm	172.8946 ppm	13.4304 ppm	0.1641 ppm
Concentration per Run 2	0.0508 ppm	0.5574 ppm	0.4003 ppm	0.4188 ppm	175.6477 ppm	13.5744 ppm	0.1621 ppm
Concentration per Run 3	0.0504 ppm	0.5504 ppm	0.3975 ppm	0.4173 ppm	180.3632 ppm	14.4925 ppm	0.1764 ppm
Concentration RSD	0.5 %	0.7 %	0.4 %	0.3 %	2.1 %	4.2 %	4.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.3516 ppm	2.4068 ppm	0.9634 ppm	31.8183 ppm	0.6423 ppm	0.6623 ppm	0.5010 ppm
Concentration per Run 1	38.4938 ppm	2.3951 ppm	0.9577 ppm	30.8377 ppm	0.6407 ppm	0.6638 ppm	0.5039 ppm
Concentration per Run 2	38.3706 ppm	2.4112 ppm	0.9650 ppm	31.2693 ppm	0.6451 ppm	0.6587 ppm	0.5037 ppm
Concentration per Run 3	38.1903 ppm	2.4141 ppm	0.9676 ppm	33.3479 ppm	0.6411 ppm	0.6643 ppm	0.4956 ppm
Concentration RSD	0.4 %	0.4 %	0.5 %	4.2 %	0.4 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1260 ppm	8.2252 ppm	0.9535 ppm	1.9476 ppm	2.1005 ppm	0.1158 ppm	0.6628 ppm
Concentration per Run 1	0.1241 ppm	8.3029 ppm	0.9485 ppm	1.9661 ppm	2.1135 ppm	0.1150 ppm	0.6651 ppm
Concentration per Run 2	0.1261 ppm	8.2156 ppm	0.9617 ppm	1.9702 ppm	2.1060 ppm	0.1151 ppm	0.6627 ppm
Concentration per Run 3	0.1278 ppm	8.1571 ppm	0.9502 ppm	1.9064 ppm	2.0820 ppm	0.1172 ppm	0.6607 ppm
Concentration RSD	1.5 %	0.9 %	0.8 %	1.8 %	0.8 %	1.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0043 ppm	92.0862 %	102.3777 %	84.6696 %	95.6796 %	110.2917 %	98.6362 %
Concentration per Run 1	1.0058 ppm	91.6718 %	101.1011 %	85.0705 %	95.0824 %	109.6724 %	98.7778 %
Concentration per Run 2	1.0102 ppm	91.7952 %	101.0233 %	84.4790 %	95.4057 %	109.2474 %	98.5593 %
Concentration per Run 3	0.9969 ppm	92.7918 %	105.0087 %	84.4593 %	96.5508 %	111.9553 %	98.5713 %
Concentration RSD	0.7 %	0.7 %	2.2 %	0.4 %	0.8 %	1.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-4D2 WG1976295
Analysis started at: 9/26/2024 6:55:02 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	69.2256 ppm	0.0663 ppm	0.0350 ppm	0.0819 ppm	0.0022 ppm	10.3357 ppm
Concentration per Run 1	-0.0005 ppm	69.3122 ppm	0.0669 ppm	0.0321 ppm	0.0823 ppm	0.0022 ppm	10.2770 ppm
Concentration per Run 2	-0.0005 ppm	69.4208 ppm	0.0661 ppm	0.0359 ppm	0.0825 ppm	0.0022 ppm	10.3650 ppm
Concentration per Run 3	0.0003 ppm	68.9439 ppm	0.0659 ppm	0.0371 ppm	0.0810 ppm	0.0022 ppm	10.3649 ppm
Concentration RSD	221.9 %	0.4 %	0.8 %	7.4 %	1.0 %	1.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0704 ppm	0.1457 ppm	0.1888 ppm	201.7485 ppm	3.7777 ppm	0.1586 ppm
Concentration per Run 1	0.0002 ppm	0.0668 ppm	0.1385 ppm	0.1777 ppm	202.4596 ppm	3.8379 ppm	0.1595 ppm
Concentration per Run 2	0.0005 ppm	0.0725 ppm	0.1500 ppm	0.1950 ppm	202.8848 ppm	3.7921 ppm	0.1597 ppm
Concentration per Run 3	0.0005 ppm	0.0718 ppm	0.1487 ppm	0.1936 ppm	199.9012 ppm	3.7031 ppm	0.1565 ppm
Concentration RSD	36.6 %	4.4 %	4.3 %	5.1 %	0.8 %	1.8 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.6724 ppm	1.7200 ppm	0.0156 ppm	20.7762 ppm	0.1501 ppm	0.1073 ppm	0.0171 ppm
Concentration per Run 1	28.2500 ppm	1.7214 ppm	0.0146 ppm	20.8192 ppm	0.1430 ppm	0.1079 ppm	0.0180 ppm
Concentration per Run 2	30.5440 ppm	1.7213 ppm	0.0164 ppm	20.8822 ppm	0.1551 ppm	0.1075 ppm	0.0152 ppm
Concentration per Run 3	30.2231 ppm	1.7174 ppm	0.0158 ppm	20.6271 ppm	0.1521 ppm	0.1065 ppm	0.0182 ppm
Concentration RSD	4.2 %	0.1 %	5.9 %	0.6 %	4.2 %	0.7 %	9.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	6.1637 ppm	0.0085 ppm	0.0869 ppm	1.0806 ppm	0.0014 ppm	0.1620 ppm
Concentration per Run 1	0.0015 ppm	5.8606 ppm	0.0087 ppm	0.0866 ppm	1.0290 ppm	0.0020 ppm	0.1541 ppm
Concentration per Run 2	0.0039 ppm	6.3284 ppm	0.0084 ppm	0.0872 ppm	1.1111 ppm	0.0015 ppm	0.1674 ppm
Concentration per Run 3	0.0014 ppm	6.3023 ppm	0.0082 ppm	0.0869 ppm	1.1017 ppm	0.0007 ppm	0.1645 ppm
Concentration RSD	63.9 %	4.3 %	2.9 %	0.4 %	4.2 %	46.5 %	4.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4932 ppm	95.6241 %	101.9371 %	88.7326 %	102.2467 %	113.1881 %	103.9229 %
Concentration per Run 1	0.4696 ppm	99.5712 %	102.5942 %	88.7424 %	107.0219 %	113.7800 %	103.9479 %
Concentration per Run 2	0.5054 ppm	92.9384 %	101.5717 %	88.8821 %	99.0538 %	113.1709 %	103.9503 %
Concentration per Run 3	0.5044 ppm	94.3628 %	101.6455 %	88.5732 %	100.6644 %	112.6134 %	103.8703 %
Concentration RSD	4.1 %	3.7 %	0.6 %	0.2 %	4.1 %	0.5 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-5D2 WG1976295
Analysis started at: 9/26/2024 6:59:00 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0506 ppm	87.9472 ppm	0.2211 ppm	1.0012 ppm	2.0561 ppm	0.0531 ppm	19.1599 ppm
Concentration per Run 1	0.0506 ppm	86.5324 ppm	0.2234 ppm	1.0086 ppm	2.0146 ppm	0.0540 ppm	19.2378 ppm
Concentration per Run 2	0.0509 ppm	88.5860 ppm	0.2196 ppm	1.0031 ppm	2.0791 ppm	0.0525 ppm	19.0728 ppm
Concentration per Run 3	0.0503 ppm	88.7232 ppm	0.2202 ppm	0.9918 ppm	2.0745 ppm	0.0528 ppm	19.1691 ppm
Concentration RSD	0.5 %	1.4 %	0.9 %	0.9 %	1.7 %	1.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0504 ppm	0.6939 ppm	0.3741 ppm	0.5066 ppm	242.2377 ppm	15.2730 ppm	0.1957 ppm
Concentration per Run 1	0.0504 ppm	0.6979 ppm	0.3759 ppm	0.5086 ppm	237.5663 ppm	14.6903 ppm	0.1878 ppm
Concentration per Run 2	0.0506 ppm	0.6951 ppm	0.3748 ppm	0.5059 ppm	244.1139 ppm	15.5813 ppm	0.2007 ppm
Concentration per Run 3	0.0502 ppm	0.6888 ppm	0.3715 ppm	0.5051 ppm	245.0330 ppm	15.5475 ppm	0.1987 ppm
Concentration RSD	0.4 %	0.7 %	0.6 %	0.4 %	1.7 %	3.3 %	3.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.2371 ppm	2.5740 ppm	0.9431 ppm	31.4131 ppm	0.6816 ppm	0.6638 ppm	0.5124 ppm
Concentration per Run 1	43.3660 ppm	2.5540 ppm	0.9400 ppm	30.1234 ppm	0.6873 ppm	0.6653 ppm	0.5174 ppm
Concentration per Run 2	43.3740 ppm	2.5742 ppm	0.9426 ppm	32.0358 ppm	0.6822 ppm	0.6572 ppm	0.5118 ppm
Concentration per Run 3	42.9712 ppm	2.5939 ppm	0.9468 ppm	32.0799 ppm	0.6753 ppm	0.6690 ppm	0.5080 ppm
Concentration RSD	0.5 %	0.8 %	0.4 %	3.6 %	0.9 %	0.9 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1288 ppm	8.2941 ppm	0.9829 ppm	1.0631 ppm	1.9872 ppm	0.1165 ppm	0.6692 ppm
Concentration per Run 1	0.1280 ppm	8.3756 ppm	0.9881 ppm	1.0773 ppm	2.0020 ppm	0.1164 ppm	0.6730 ppm
Concentration per Run 2	0.1298 ppm	8.2981 ppm	0.9897 ppm	1.0559 ppm	1.9879 ppm	0.1164 ppm	0.6709 ppm
Concentration per Run 3	0.1285 ppm	8.2086 ppm	0.9709 ppm	1.0561 ppm	1.9716 ppm	0.1167 ppm	0.6636 ppm
Concentration RSD	0.7 %	1.0 %	1.1 %	1.2 %	0.8 %	0.1 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0412 ppm	93.2214 %	104.5068 %	85.9589 %	99.1069 %	115.1283 %	103.0704 %
Concentration per Run 1	1.0496 ppm	93.0157 %	103.6961 %	86.1646 %	99.0861 %	115.2366 %	103.2229 %
Concentration per Run 2	1.0433 ppm	92.7960 %	105.8726 %	86.2874 %	98.3688 %	115.8671 %	103.4012 %
Concentration per Run 3	1.0308 ppm	93.8526 %	103.9517 %	85.4248 %	99.8660 %	114.2811 %	102.5872 %
Concentration RSD	0.9 %	0.6 %	1.1 %	0.5 %	0.8 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-6D10 WG1976295
Analysis started at: 9/26/2024 7:02:58 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	17.4413 ppm	0.0187 ppm	0.0103 ppm	0.0191 ppm	0.0005 ppm	1.8817 ppm
Concentration per Run 1	-0.0001 ppm	17.3857 ppm	0.0190 ppm	0.0117 ppm	0.0189 ppm	0.0004 ppm	1.8656 ppm
Concentration per Run 2	0.0000 ppm	17.3263 ppm	0.0175 ppm	0.0092 ppm	0.0192 ppm	0.0005 ppm	1.8877 ppm
Concentration per Run 3	-0.0001 ppm	17.6118 ppm	0.0197 ppm	0.0101 ppm	0.0192 ppm	0.0004 ppm	1.8919 ppm
Concentration RSD	66.8 %	0.9 %	5.8 %	12.4 %	1.0 %	12.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0440 ppm	0.0365 ppm	0.0494 ppm	51.6939 ppm	1.0417 ppm	0.0419 ppm
Concentration per Run 1	0.0001 ppm	0.0438 ppm	0.0366 ppm	0.0496 ppm	51.3245 ppm	1.0535 ppm	0.0427 ppm
Concentration per Run 2	0.0001 ppm	0.0438 ppm	0.0360 ppm	0.0487 ppm	51.5680 ppm	1.0246 ppm	0.0419 ppm
Concentration per Run 3	0.0001 ppm	0.0443 ppm	0.0369 ppm	0.0500 ppm	52.1891 ppm	1.0470 ppm	0.0410 ppm
Concentration RSD	7.6 %	0.7 %	1.1 %	1.3 %	0.9 %	1.5 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8269 ppm	0.4266 ppm	0.0060 ppm	4.4196 ppm	0.0404 ppm	0.0247 ppm	0.0017 ppm
Concentration per Run 1	6.8289 ppm	0.4241 ppm	0.0060 ppm	4.3677 ppm	0.0406 ppm	0.0256 ppm	0.0010 ppm
Concentration per Run 2	6.7543 ppm	0.4268 ppm	0.0059 ppm	4.4383 ppm	0.0398 ppm	0.0250 ppm	0.0026 ppm
Concentration per Run 3	6.8974 ppm	0.4289 ppm	0.0061 ppm	4.4528 ppm	0.0408 ppm	0.0234 ppm	0.0013 ppm
Concentration RSD	1.0 %	0.6 %	2.1 %	1.0 %	1.3 %	4.5 %	49.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	1.5332 ppm	0.0045 ppm	0.0186 ppm	0.2011 ppm	0.0006 ppm	0.0325 ppm
Concentration per Run 1	0.0016 ppm	1.5394 ppm	0.0038 ppm	0.0185 ppm	0.2006 ppm	0.0005 ppm	0.0327 ppm
Concentration per Run 2	0.0014 ppm	1.5033 ppm	0.0052 ppm	0.0185 ppm	0.1987 ppm	0.0005 ppm	0.0323 ppm
Concentration per Run 3	0.0007 ppm	1.5570 ppm	0.0046 ppm	0.0187 ppm	0.2042 ppm	0.0008 ppm	0.0326 ppm
Concentration RSD	36.3 %	1.8 %	15.6 %	0.7 %	1.4 %	31.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1184 ppm	92.5798 %	104.3619 %	91.4995 %	91.9705 %	105.4032 %	95.1646 %
Concentration per Run 1	0.1191 ppm	92.5134 %	105.7527 %	90.6139 %	92.2385 %	106.7742 %	94.2650 %
Concentration per Run 2	0.1168 ppm	93.6975 %	103.7012 %	92.2580 %	92.7968 %	104.4030 %	95.7861 %
Concentration per Run 3	0.1194 ppm	91.5287 %	103.6319 %	91.6266 %	90.8761 %	105.0322 %	95.4426 %
Concentration RSD	1.2 %	1.2 %	1.2 %	0.9 %	1.1 %	1.2 %	0.8 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:06:57 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5037 ppm	0.4971 ppm	0.4886 ppm	0.4956 ppm	0.5090 ppm	0.5202 ppm	0.5025 ppm
Concentration per Run 1	0.5056 ppm	0.4981 ppm	0.4860 ppm	0.4970 ppm	0.5057 ppm	0.5184 ppm	0.4983 ppm
Concentration per Run 2	0.5016 ppm	0.4946 ppm	0.4913 ppm	0.4937 ppm	0.5097 ppm	0.5172 ppm	0.5045 ppm
Concentration per Run 3	0.5038 ppm	0.4987 ppm	0.4885 ppm	0.4962 ppm	0.5116 ppm	0.5249 ppm	0.5047 ppm
Recovery Percentage 1	100.740 %	99.423 %	97.717 %	99.130 %	101.801 %	104.033 %	100.499 %
Concentration RSD	0.4 %	0.5 %	0.5 %	0.3 %	0.6 %	0.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5080 ppm	0.5088 ppm	0.4998 ppm	0.4962 ppm	0.5286 ppm	5.3183 ppm	0.4995 ppm
Concentration per Run 1	0.5093 ppm	0.5098 ppm	0.5030 ppm	0.4979 ppm	0.5233 ppm	5.3287 ppm	0.4965 ppm
Concentration per Run 2	0.5067 ppm	0.5075 ppm	0.4966 ppm	0.4953 ppm	0.5307 ppm	5.3071 ppm	0.5010 ppm
Concentration per Run 3	0.5079 ppm	0.5090 ppm	0.4999 ppm	0.4954 ppm	0.5316 ppm	5.3192 ppm	0.5011 ppm
Recovery Percentage 1	101.595 %	101.757 %	99.963 %	99.246 %	105.711 %	106.367 %	99.903 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.3 %	0.9 %	0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4938 ppm	0.5061 ppm	0.4997 ppm	10.2595 ppm	0.5100 ppm	0.5021 ppm	0.5006 ppm
Concentration per Run 1	0.4961 ppm	0.5047 ppm	0.4968 ppm	10.2673 ppm	0.5135 ppm	0.5010 ppm	0.5006 ppm
Concentration per Run 2	0.4906 ppm	0.5064 ppm	0.4984 ppm	10.2398 ppm	0.5078 ppm	0.5031 ppm	0.5020 ppm
Concentration per Run 3	0.4948 ppm	0.5072 ppm	0.5040 ppm	10.2712 ppm	0.5085 ppm	0.5023 ppm	0.4992 ppm
Recovery Percentage 1	98.763 %	101.225 %	99.947 %	102.595 %	101.992 %	100.427 %	100.121 %
Concentration RSD	0.6 %	0.3 %	0.8 %	0.2 %	0.6 %	0.2 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5009 ppm	5.6057 ppm	0.4862 ppm	0.4911 ppm	0.5059 ppm	0.4987 ppm	0.5032 ppm
Concentration per Run 1	0.4982 ppm	5.6208 ppm	0.4884 ppm	0.4876 ppm	0.5062 ppm	0.4961 ppm	0.5049 ppm
Concentration per Run 2	0.5040 ppm	5.5847 ppm	0.4845 ppm	0.4913 ppm	0.5050 ppm	0.5019 ppm	0.5011 ppm
Concentration per Run 3	0.5006 ppm	5.6117 ppm	0.4856 ppm	0.4945 ppm	0.5066 ppm	0.4979 ppm	0.5034 ppm
Recovery Percentage 1	100.185 %	106.776 %	97.231 %	98.229 %	101.190 %	99.731 %	100.636 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.7 %	0.2 %	0.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5041 ppm	94.6605 %	102.5119 %	92.2238 %	91.3907 %	100.3514 %	92.3895 %
Concentration per Run 1	0.5065 ppm	94.1575 %	102.2373 %	92.9007 %	90.7250 %	100.1262 %	92.7339 %
Concentration per Run 2	0.5027 ppm	95.1586 %	103.2948 %	91.9338 %	91.9763 %	101.0465 %	92.1001 %
Concentration per Run 3	0.5030 ppm	94.6656 %	102.0036 %	91.8368 %	91.4706 %	99.8813 %	92.3346 %
Recovery Percentage 1	100.816 %						
Concentration RSD	0.4 %	0.5 %	0.7 %	0.6 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:10:54 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0001 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	-0.0001 ppm	0.0044 ppm	-0.0010 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 3	-0.0002 ppm	-0.0014 ppm	0.0007 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0056 ppm
Recovery Percentage 1	-1.706 %	0.918 %	4.247 %	4.857 %	-1.032 %	0.834 %	6.369 %
Concentration RSD	97.3 %	335.5 %	783.6 %	14.5 %	45.9 %	29.7 %	11.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0014 ppm	0.0066 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0016 ppm	0.0082 ppm	0.0057 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0004 ppm	0.0014 ppm	0.0058 ppm	0.0120 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0014 ppm	0.0058 ppm	-0.0102 ppm	-0.0009 ppm
Recovery Percentage 1	2.266 %	-0.811 %	1.611 %	14.272 %	13.242 %	0.099 %	0.183 %
Concentration RSD	61.0 %	283.8 %	133.0 %	8.1 %	20.9 %	462.1 %	4,803.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0001 ppm	0.0022 ppm	0.0047 ppm	-0.0001 ppm	-0.0001 ppm	-0.0013 ppm
Concentration per Run 1	0.0010 ppm	0.0001 ppm	0.0021 ppm	0.0048 ppm	0.0006 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 2	0.0008 ppm	0.0001 ppm	0.0023 ppm	0.0036 ppm	-0.0004 ppm	-0.0002 ppm	-0.0013 ppm
Concentration per Run 3	0.0011 ppm	0.0002 ppm	0.0021 ppm	0.0058 ppm	-0.0006 ppm	0.0003 ppm	-0.0023 ppm
Recovery Percentage 1	0.952 %	1.313 %	4.372 %	0.237 %	-0.402 %	-0.732 %	-2.562 %
Concentration RSD	14.2 %	40.1 %	5.9 %	22.6 %	637.5 %	396.3 %	75.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0010 ppm	0.0028 ppm	0.0006 ppm	0.0001 ppm	0.0004 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 3	0.0014 ppm	-0.0009 ppm	0.0017 ppm	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0002 ppm
Recovery Percentage 1	10.452 %	0.077 %	1.529 %	-0.039 %	3.217 %	0.490 %	-0.173 %
Concentration RSD	28.1 %	544.7 %	110.5 %	1,732.4 %	41.7 %	1,074.7 %	1,209.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.0086 %	101.5239 %	92.5002 %	92.3245 %	101.2432 %	93.9792 %
Concentration per Run 1	0.0007 ppm	91.1841 %	101.4616 %	92.6290 %	92.1127 %	101.4523 %	94.0070 %
Concentration per Run 2	0.0006 ppm	91.6812 %	101.8335 %	92.6125 %	91.8259 %	101.1871 %	94.0336 %
Concentration per Run 3	0.0004 ppm	93.1604 %	101.2768 %	92.2592 %	93.0349 %	101.0901 %	93.8971 %
Recovery Percentage 1	11.617 %						
Concentration RSD	31.3 %	1.1 %	0.3 %	0.2 %	0.7 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454991-01D2 WG1976295
Analysis started at: 9/26/2024 7:16:22 PM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	140.0946 ppm	0.0440 ppm	0.0185 ppm	0.9139 ppm	0.0052 ppm	69.0941 ppm
Concentration per Run 1	-0.0002 ppm	139.8443 ppm	0.0432 ppm	0.0189 ppm	0.9206 ppm	0.0052 ppm	68.8192 ppm
Concentration per Run 2	-0.0003 ppm	140.4171 ppm	0.0437 ppm	0.0184 ppm	0.9113 ppm	0.0052 ppm	69.6017 ppm
Concentration per Run 3	-0.0009 ppm	140.0226 ppm	0.0451 ppm	0.0181 ppm	0.9097 ppm	0.0051 ppm	68.8614 ppm
Concentration RSD	84.7 %	0.2 %	2.2 %	1.9 %	0.6 %	0.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0741 ppm	0.2223 ppm	0.1604 ppm	176.1608 ppm	5.0390 ppm	0.1086 ppm
Concentration per Run 1	0.0012 ppm	0.0748 ppm	0.2252 ppm	0.1622 ppm	177.2897 ppm	5.0983 ppm	0.1116 ppm
Concentration per Run 2	0.0014 ppm	0.0745 ppm	0.2212 ppm	0.1599 ppm	176.5336 ppm	5.0353 ppm	0.1068 ppm
Concentration per Run 3	0.0013 ppm	0.0731 ppm	0.2205 ppm	0.1592 ppm	174.6592 ppm	4.9833 ppm	0.1074 ppm
Concentration RSD	5.7 %	1.2 %	1.2 %	1.0 %	0.8 %	1.1 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.7538 ppm	3.3367 ppm	0.0043 ppm	2.6703 ppm	0.1440 ppm	1.0385 ppm	0.0000 ppm
Concentration per Run 1	42.3945 ppm	3.3247 ppm	0.0039 ppm	2.6508 ppm	0.1446 ppm	1.0415 ppm	-0.0024 ppm
Concentration per Run 2	41.4337 ppm	3.3585 ppm	0.0045 ppm	2.6862 ppm	0.1434 ppm	1.0384 ppm	-0.0004 ppm
Concentration per Run 3	41.4332 ppm	3.3269 ppm	0.0044 ppm	2.6738 ppm	0.1440 ppm	1.0356 ppm	0.0027 ppm
Concentration RSD	1.3 %	0.6 %	7.4 %	0.7 %	0.4 %	0.3 %	7,756.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	4.3487 ppm	0.0159 ppm	0.2561 ppm	2.7749 ppm	0.0005 ppm	0.3080 ppm
Concentration per Run 1	0.0017 ppm	4.3992 ppm	0.0160 ppm	0.2570 ppm	2.7979 ppm	0.0002 ppm	0.3101 ppm
Concentration per Run 2	0.0021 ppm	4.3425 ppm	0.0163 ppm	0.2570 ppm	2.7757 ppm	0.0013 ppm	0.3066 ppm
Concentration per Run 3	0.0029 ppm	4.3044 ppm	0.0155 ppm	0.2543 ppm	2.7509 ppm	0.0000 ppm	0.3073 ppm
Concentration RSD	28.1 %	1.1 %	2.6 %	0.6 %	0.8 %	153.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9661 ppm	97.0346 %	106.2978 %	88.9626 %	109.3373 %	126.1343 %	114.0527 %
Concentration per Run 1	0.9826 ppm	95.9998 %	106.5004 %	88.7846 %	108.5823 %	125.5150 %	113.4631 %
Concentration per Run 2	0.9656 ppm	97.9002 %	105.6962 %	89.2687 %	110.5589 %	126.2833 %	114.6228 %
Concentration per Run 3	0.9500 ppm	97.2038 %	106.6967 %	88.8345 %	108.8708 %	126.6047 %	114.0722 %
Concentration RSD	1.7 %	1.0 %	0.5 %	0.3 %	1.0 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454991-02D2 WG1976295
Analysis started at: 9/26/2024 7:20:23 PM
Rack 2
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	121.2360 ppm	0.0294 ppm	0.0116 ppm	0.3749 ppm	0.0045 ppm	5.5474 ppm
Concentration per Run 1	-0.0002 ppm	120.5892 ppm	0.0302 ppm	0.0118 ppm	0.3732 ppm	0.0044 ppm	5.5066 ppm
Concentration per Run 2	-0.0007 ppm	122.0491 ppm	0.0289 ppm	0.0107 ppm	0.3778 ppm	0.0045 ppm	5.5608 ppm
Concentration per Run 3	-0.0009 ppm	121.0699 ppm	0.0291 ppm	0.0123 ppm	0.3738 ppm	0.0045 ppm	5.5748 ppm
Concentration RSD	55.5 %	0.6 %	2.5 %	7.1 %	0.7 %	1.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0559 ppm	0.1895 ppm	0.1101 ppm	183.7811 ppm	5.4759 ppm	0.1217 ppm
Concentration per Run 1	-0.0001 ppm	0.0565 ppm	0.1920 ppm	0.1119 ppm	183.3136 ppm	5.4863 ppm	0.1248 ppm
Concentration per Run 2	0.0000 ppm	0.0554 ppm	0.1889 ppm	0.1100 ppm	185.2141 ppm	5.5205 ppm	0.1211 ppm
Concentration per Run 3	-0.0002 ppm	0.0557 ppm	0.1876 ppm	0.1084 ppm	182.8157 ppm	5.4207 ppm	0.1193 ppm
Concentration RSD	101.7 %	1.0 %	1.2 %	1.6 %	0.7 %	0.9 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.7187 ppm	1.4989 ppm	0.0029 ppm	2.7821 ppm	0.1230 ppm	0.0809 ppm	0.0005 ppm
Concentration per Run 1	34.1470 ppm	1.4879 ppm	0.0026 ppm	2.7551 ppm	0.1242 ppm	0.0801 ppm	0.0019 ppm
Concentration per Run 2	33.6422 ppm	1.5048 ppm	0.0033 ppm	2.8096 ppm	0.1230 ppm	0.0822 ppm	-0.0019 ppm
Concentration per Run 3	33.3668 ppm	1.5039 ppm	0.0028 ppm	2.7816 ppm	0.1217 ppm	0.0804 ppm	0.0015 ppm
Concentration RSD	1.2 %	0.6 %	13.2 %	1.0 %	1.0 %	1.4 %	426.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	4.2012 ppm	0.0040 ppm	0.0519 ppm	2.3007 ppm	0.0017 ppm	0.2289 ppm
Concentration per Run 1	0.0020 ppm	4.2472 ppm	0.0045 ppm	0.0515 ppm	2.3225 ppm	0.0015 ppm	0.2304 ppm
Concentration per Run 2	0.0018 ppm	4.1842 ppm	0.0030 ppm	0.0520 ppm	2.3016 ppm	0.0020 ppm	0.2280 ppm
Concentration per Run 3	0.0012 ppm	4.1724 ppm	0.0046 ppm	0.0523 ppm	2.2780 ppm	0.0017 ppm	0.2281 ppm
Concentration RSD	23.6 %	1.0 %	21.7 %	0.8 %	1.0 %	16.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3255 ppm	96.7137 %	105.8387 %	91.6003 %	105.2466 %	119.5811 %	110.8462 %
Concentration per Run 1	0.3316 ppm	95.7389 %	106.4453 %	92.0472 %	104.7915 %	119.9305 %	111.4450 %
Concentration per Run 2	0.3232 ppm	96.8841 %	105.4189 %	91.5954 %	105.3507 %	119.1695 %	110.7516 %
Concentration per Run 3	0.3217 ppm	97.5182 %	105.6520 %	91.1583 %	105.5975 %	119.6431 %	110.3419 %
Concentration RSD	1.6 %	0.9 %	0.5 %	0.5 %	0.4 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455018-09D2 WG1976295
Analysis started at: 9/26/2024 7:24:22 PM
Rack 2
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	65.7439 ppm	0.0223 ppm	0.0601 ppm	0.3893 ppm	0.0026 ppm	746.3596 ppm
Concentration per Run 1	-0.0009 ppm	65.0055 ppm	0.0194 ppm	0.0603 ppm	0.3835 ppm	0.0028 ppm	747.7466 ppm
Concentration per Run 2	-0.0007 ppm	66.7938 ppm	0.0222 ppm	0.0605 ppm	0.4005 ppm	0.0022 ppm	737.1356 ppm
Concentration per Run 3	-0.0013 ppm	65.4323 ppm	0.0253 ppm	0.0596 ppm	0.3838 ppm	0.0028 ppm	754.1966 ppm
Concentration RSD	35.6 %	1.4 %	13.2 %	0.8 %	2.5 %	14.2 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0029 ppm	0.0288 ppm	0.1740 ppm	0.1136 ppm	86.5237 ppm	25.5476 ppm	0.0682 ppm
Concentration per Run 1	-0.0029 ppm	0.0286 ppm	0.1749 ppm	0.1137 ppm	85.5280 ppm	25.0593 ppm	0.0669 ppm
Concentration per Run 2	-0.0030 ppm	0.0298 ppm	0.1738 ppm	0.1148 ppm	88.4388 ppm	26.6974 ppm	0.0721 ppm
Concentration per Run 3	-0.0028 ppm	0.0281 ppm	0.1734 ppm	0.1122 ppm	85.6044 ppm	24.8861 ppm	0.0657 ppm
Concentration RSD	3.7 %	3.1 %	0.5 %	1.2 %	1.9 %	3.9 %	4.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.6263 ppm	1.3652 ppm	0.0051 ppm	13.1508 ppm	0.1117 ppm	1.1822 ppm	0.0000 ppm
Concentration per Run 1	55.2370 ppm	1.3551 ppm	0.0057 ppm	12.8204 ppm	0.1135 ppm	1.1784 ppm	0.0015 ppm
Concentration per Run 2	54.6352 ppm	1.3747 ppm	0.0045 ppm	13.7699 ppm	0.1112 ppm	1.1831 ppm	-0.0010 ppm
Concentration per Run 3	54.0067 ppm	1.3659 ppm	0.0052 ppm	12.8622 ppm	0.1105 ppm	1.1852 ppm	-0.0006 ppm
Concentration RSD	1.1 %	0.7 %	12.6 %	4.1 %	1.4 %	0.3 %	4,029.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	4.6869 ppm	0.0687 ppm	1.4995 ppm	6.7823 ppm	0.0019 ppm	0.1943 ppm
Concentration per Run 1	0.0032 ppm	4.7614 ppm	0.0690 ppm	1.5046 ppm	6.8323 ppm	0.0017 ppm	0.1944 ppm
Concentration per Run 2	-0.0011 ppm	4.6812 ppm	0.0675 ppm	1.4786 ppm	6.7722 ppm	0.0005 ppm	0.1948 ppm
Concentration per Run 3	0.0003 ppm	4.6181 ppm	0.0697 ppm	1.5154 ppm	6.7425 ppm	0.0036 ppm	0.1938 ppm
Concentration RSD	286.7 %	1.5 %	1.6 %	1.3 %	0.7 %	81.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2727 ppm	89.4350 %	100.5455 %	77.0847 %	95.3161 %	110.9240 %	98.0696 %
Concentration per Run 1	0.2772 ppm	89.0373 %	99.5315 %	77.2573 %	95.0073 %	109.9016 %	98.6497 %
Concentration per Run 2	0.2716 ppm	89.4342 %	103.3746 %	76.8973 %	95.5365 %	113.1671 %	97.6985 %
Concentration per Run 3	0.2695 ppm	89.8335 %	98.7306 %	77.0994 %	95.4046 %	109.7033 %	97.8606 %
Concentration RSD	1.5 %	0.4 %	2.5 %	0.2 %	0.3 %	1.8 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: zL2455018-10D2 WG1976295
Analysis started at: 9/26/2024 7:28:20 PM
Rack 2
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	84.0118 ppm	0.0307 ppm	0.0703 ppm	0.4824 ppm	0.0032 ppm	1,024.7901 [SIC 1500]
Concentration per Run 1	-0.0011 ppm	83.9152 ppm	0.0329 ppm	0.0696 ppm	0.4768 ppm	0.0033 ppm	1,022.6801 ppm
Concentration per Run 2	-0.0007 ppm	84.0440 ppm	0.0288 ppm	0.0709 ppm	0.4874 ppm	0.0031 ppm	1,022.4180 ppm
Concentration per Run 3	-0.0013 ppm	84.0764 ppm	0.0304 ppm	0.0703 ppm	0.4829 ppm	0.0033 ppm	1,029.2721 ppm
Concentration RSD	29.2 %	0.1 %	6.8 %	1.0 %	1.1 %	2.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0040 ppm	0.0345 ppm	0.2160 ppm	0.1416 ppm	110.0325 ppm	31.3711 ppm	0.0899 ppm
Concentration per Run 1	-0.0040 ppm	0.0347 ppm	0.2174 ppm	0.1421 ppm	108.7857 ppm	31.0592 ppm	0.0896 ppm
Concentration per Run 2	-0.0040 ppm	0.0346 ppm	0.2159 ppm	0.1421 ppm	110.9912 ppm	31.6724 ppm	0.0907 ppm
Concentration per Run 3	-0.0040 ppm	0.0340 ppm	0.2146 ppm	0.1406 ppm	110.3205 ppm	31.3818 ppm	0.0895 ppm
Concentration RSD	0.4 %	1.1 %	0.6 %	0.6 %	1.0 %	1.0 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	135.1074 ppm	1.8465 ppm	0.0056 ppm	14.1094 ppm	0.1229 ppm	1.8567 ppm	-0.0004 ppm
Concentration per Run 1	136.1045 ppm	1.8386 ppm	0.0056 ppm	14.0860 ppm	0.1235 ppm	1.8579 ppm	-0.0006 ppm
Concentration per Run 2	135.0630 ppm	1.8488 ppm	0.0056 ppm	14.1455 ppm	0.1229 ppm	1.8599 ppm	0.0014 ppm
Concentration per Run 3	134.1548 ppm	1.8521 ppm	0.0057 ppm	14.0968 ppm	0.1223 ppm	1.8525 ppm	-0.0021 ppm
Concentration RSD	0.7 %	0.4 %	1.4 %	0.2 %	0.5 %	0.2 %	408.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	4.4616 ppm	0.0061 ppm	1.9531 ppm	8.3317 ppm	0.0044 ppm	0.2571 ppm
Concentration per Run 1	-0.0003 ppm	4.4876 ppm	0.0054 ppm	1.9443 ppm	8.3823 ppm	0.0050 ppm	0.2585 ppm
Concentration per Run 2	-0.0011 ppm	4.4745 ppm	0.0075 ppm	1.9529 ppm	8.3126 ppm	0.0062 ppm	0.2570 ppm
Concentration per Run 3	0.0022 ppm	4.4226 ppm	0.0054 ppm	1.9620 ppm	8.3003 ppm	0.0020 ppm	0.2559 ppm
Concentration RSD	639.3 %	0.8 %	20.5 %	0.5 %	0.5 %	49.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3941 ppm	88.2450 %	100.4283 %	72.8825 %	96.0657 %	115.4557 %	98.7703 %
Concentration per Run 1	0.3970 ppm	87.9534 %	100.8901 %	73.0766 %	96.1975 %	115.9464 %	98.9716 %
Concentration per Run 2	0.3971 ppm	88.0259 %	100.8505 %	72.8976 %	96.0579 %	115.5132 %	98.6443 %
Concentration per Run 3	0.3882 ppm	88.7558 %	99.5442 %	72.6733 %	95.9416 %	114.9076 %	98.6949 %
Concentration RSD	1.3 %	0.5 %	0.8 %	0.3 %	0.1 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455019-09D2 WG1976295
Analysis started at: 9/26/2024 7:32:18 PM
Rack 2
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	75.2212 ppm	0.0316 ppm	0.0696 ppm	0.4420 ppm	0.0030 ppm	896.3350 ppm
Concentration per Run 1	-0.0012 ppm	75.3003 ppm	0.0320 ppm	0.0700 ppm	0.4465 ppm	0.0029 ppm	896.5370 ppm
Concentration per Run 2	-0.0008 ppm	75.4231 ppm	0.0328 ppm	0.0706 ppm	0.4355 ppm	0.0031 ppm	901.0790 ppm
Concentration per Run 3	-0.0007 ppm	74.9402 ppm	0.0301 ppm	0.0681 ppm	0.4439 ppm	0.0029 ppm	891.3889 ppm
Concentration RSD	27.5 %	0.3 %	4.4 %	1.8 %	1.3 %	3.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0036 ppm	0.0313 ppm	0.2013 ppm	0.1239 ppm	95.7354 ppm	18.0109 ppm	0.0708 ppm
Concentration per Run 1	-0.0037 ppm	0.0313 ppm	0.2035 ppm	0.1240 ppm	96.3512 ppm	18.0953 ppm	0.0741 ppm
Concentration per Run 2	-0.0036 ppm	0.0316 ppm	0.2005 ppm	0.1241 ppm	94.7512 ppm	17.8925 ppm	0.0701 ppm
Concentration per Run 3	-0.0036 ppm	0.0310 ppm	0.1999 ppm	0.1235 ppm	96.1037 ppm	18.0449 ppm	0.0683 ppm
Concentration RSD	2.8 %	1.0 %	1.0 %	0.2 %	0.9 %	0.6 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.0900 ppm	1.4551 ppm	0.0053 ppm	7.4618 ppm	0.1093 ppm	1.3072 ppm	-0.0027 ppm
Concentration per Run 1	61.0171 ppm	1.4599 ppm	0.0053 ppm	7.4652 ppm	0.1116 ppm	1.3097 ppm	-0.0023 ppm
Concentration per Run 2	59.9423 ppm	1.4581 ppm	0.0054 ppm	7.4678 ppm	0.1090 ppm	1.3117 ppm	-0.0001 ppm
Concentration per Run 3	59.3104 ppm	1.4474 ppm	0.0051 ppm	7.4524 ppm	0.1074 ppm	1.3001 ppm	-0.0056 ppm
Concentration RSD	1.4 %	0.5 %	2.6 %	0.1 %	1.9 %	0.5 %	104.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	4.2593 ppm	0.0058 ppm	1.7486 ppm	7.8029 ppm	0.0050 ppm	0.2367 ppm
Concentration per Run 1	0.0018 ppm	4.2752 ppm	0.0063 ppm	1.7583 ppm	7.8949 ppm	0.0044 ppm	0.2402 ppm
Concentration per Run 2	0.0000 ppm	4.2720 ppm	0.0059 ppm	1.7377 ppm	7.7821 ppm	0.0067 ppm	0.2348 ppm
Concentration per Run 3	0.0013 ppm	4.2306 ppm	0.0051 ppm	1.7498 ppm	7.7317 ppm	0.0039 ppm	0.2350 ppm
Concentration RSD	89.7 %	0.6 %	10.6 %	0.6 %	1.1 %	29.8 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3115 ppm	89.6739 %	100.8590 %	75.0490 %	96.6207 %	113.0445 %	98.5226 %
Concentration per Run 1	0.3156 ppm	87.6742 %	100.6790 %	74.9784 %	94.2620 %	112.7514 %	98.6460 %
Concentration per Run 2	0.3132 ppm	90.2779 %	100.1738 %	74.9383 %	97.3434 %	112.7652 %	98.1516 %
Concentration per Run 3	0.3056 ppm	91.0697 %	101.7241 %	75.2304 %	98.2566 %	113.6169 %	98.7703 %
Concentration RSD	1.7 %	2.0 %	0.8 %	0.2 %	2.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455019-10D2 WG1976295
Analysis started at: 9/26/2024 7:36:18 PM
Rack 3
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	76.3598 ppm	0.0317 ppm	0.0666 ppm	0.4738 ppm	0.0030 ppm	851.3150 ppm
Concentration per Run 1	-0.0011 ppm	76.2572 ppm	0.0324 ppm	0.0681 ppm	0.4768 ppm	0.0030 ppm	845.3896 ppm
Concentration per Run 2	-0.0008 ppm	76.1345 ppm	0.0300 ppm	0.0663 ppm	0.4664 ppm	0.0032 ppm	853.5154 ppm
Concentration per Run 3	-0.0010 ppm	76.6878 ppm	0.0327 ppm	0.0654 ppm	0.4781 ppm	0.0030 ppm	855.0400 ppm
Concentration RSD	19.4 %	0.4 %	4.6 %	2.1 %	1.3 %	3.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0031 ppm	0.0343 ppm	0.1994 ppm	0.1505 ppm	101.4331 ppm	17.9633 ppm	0.0763 ppm
Concentration per Run 1	-0.0031 ppm	0.0346 ppm	0.2011 ppm	0.1524 ppm	101.4101 ppm	18.0877 ppm	0.0783 ppm
Concentration per Run 2	-0.0030 ppm	0.0340 ppm	0.1978 ppm	0.1497 ppm	100.2434 ppm	17.6565 ppm	0.0737 ppm
Concentration per Run 3	-0.0032 ppm	0.0343 ppm	0.1993 ppm	0.1494 ppm	102.6458 ppm	18.1458 ppm	0.0770 ppm
Concentration RSD	3.1 %	0.9 %	0.8 %	1.1 %	1.2 %	1.5 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.3464 ppm	1.5464 ppm	0.0052 ppm	6.9253 ppm	0.1256 ppm	1.9466 ppm	-0.0020 ppm
Concentration per Run 1	60.7973 ppm	1.5400 ppm	0.0052 ppm	6.9398 ppm	0.1265 ppm	1.9506 ppm	-0.0003 ppm
Concentration per Run 2	60.0722 ppm	1.5442 ppm	0.0050 ppm	6.9045 ppm	0.1248 ppm	1.9479 ppm	-0.0031 ppm
Concentration per Run 3	60.1696 ppm	1.5551 ppm	0.0055 ppm	6.9317 ppm	0.1255 ppm	1.9414 ppm	-0.0026 ppm
Concentration RSD	0.7 %	0.5 %	4.8 %	0.3 %	0.7 %	0.2 %	73.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	3.9073 ppm	0.0072 ppm	1.6401 ppm	7.7122 ppm	0.0050 ppm	0.2272 ppm
Concentration per Run 1	0.0019 ppm	3.9511 ppm	0.0073 ppm	1.6339 ppm	7.7645 ppm	0.0043 ppm	0.2285 ppm
Concentration per Run 2	0.0024 ppm	3.8949 ppm	0.0074 ppm	1.6386 ppm	7.6717 ppm	0.0039 ppm	0.2262 ppm
Concentration per Run 3	0.0013 ppm	3.8758 ppm	0.0068 ppm	1.6480 ppm	7.7002 ppm	0.0069 ppm	0.2269 ppm
Concentration RSD	29.8 %	1.0 %	4.7 %	0.4 %	0.6 %	32.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4045 ppm	89.2661 %	102.3155 %	75.1343 %	96.6471 %	116.0098 %	99.5502 %
Concentration per Run 1	0.4072 ppm	88.7389 %	104.1841 %	75.2872 %	96.3267 %	118.1610 %	100.0025 %
Concentration per Run 2	0.4022 ppm	89.9712 %	101.2807 %	75.1852 %	97.5200 %	114.8242 %	99.7386 %
Concentration per Run 3	0.4040 ppm	89.0882 %	101.4816 %	74.9306 %	96.0947 %	115.0443 %	98.9096 %
Concentration RSD	0.6 %	0.7 %	1.6 %	0.2 %	0.8 %	1.6 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455039-01D2 WG1976295
Analysis started at: 9/26/2024 7:40:16 PM
Rack 3
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	63.0942 ppm	0.0181 ppm	0.0059 ppm	0.2591 ppm	0.0042 ppm	67.5994 ppm
Concentration per Run 1	0.0003 ppm	62.6066 ppm	0.0171 ppm	0.0060 ppm	0.2555 ppm	0.0044 ppm	68.1880 ppm
Concentration per Run 2	0.0006 ppm	62.7902 ppm	0.0190 ppm	0.0052 ppm	0.2581 ppm	0.0043 ppm	67.9018 ppm
Concentration per Run 3	0.0011 ppm	63.8860 ppm	0.0181 ppm	0.0065 ppm	0.2638 ppm	0.0039 ppm	66.7082 ppm
Concentration RSD	59.4 %	1.1 %	5.0 %	11.2 %	1.6 %	6.3 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0450 ppm	0.0638 ppm	0.0823 ppm	130.3516 ppm	4.8184 ppm	0.0579 ppm
Concentration per Run 1	0.0007 ppm	0.0456 ppm	0.0643 ppm	0.0826 ppm	129.1943 ppm	4.7613 ppm	0.0570 ppm
Concentration per Run 2	0.0008 ppm	0.0446 ppm	0.0638 ppm	0.0818 ppm	129.3067 ppm	4.7231 ppm	0.0551 ppm
Concentration per Run 3	0.0007 ppm	0.0448 ppm	0.0633 ppm	0.0826 ppm	132.5536 ppm	4.9708 ppm	0.0615 ppm
Concentration RSD	1.7 %	1.2 %	0.8 %	0.6 %	1.5 %	2.8 %	5.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.3741 ppm	0.9907 ppm	0.0031 ppm	2.4990 ppm	0.0711 ppm	0.0727 ppm	0.0008 ppm
Concentration per Run 1	25.6801 ppm	0.9866 ppm	0.0030 ppm	2.4580 ppm	0.0714 ppm	0.0715 ppm	-0.0014 ppm
Concentration per Run 2	25.2456 ppm	0.9910 ppm	0.0026 ppm	2.4407 ppm	0.0712 ppm	0.0739 ppm	0.0020 ppm
Concentration per Run 3	25.1965 ppm	0.9944 ppm	0.0037 ppm	2.5983 ppm	0.0706 ppm	0.0726 ppm	0.0019 ppm
Concentration RSD	1.0 %	0.4 %	19.2 %	3.5 %	0.6 %	1.6 %	239.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	3.7640 ppm	0.0053 ppm	0.1134 ppm	3.4714 ppm	0.0018 ppm	0.2081 ppm
Concentration per Run 1	0.0019 ppm	3.8035 ppm	0.0053 ppm	0.1150 ppm	3.5079 ppm	0.0010 ppm	0.2104 ppm
Concentration per Run 2	0.0005 ppm	3.7356 ppm	0.0056 ppm	0.1141 ppm	3.4564 ppm	0.0011 ppm	0.2072 ppm
Concentration per Run 3	0.0013 ppm	3.7528 ppm	0.0049 ppm	0.1112 ppm	3.4498 ppm	0.0033 ppm	0.2066 ppm
Concentration RSD	55.7 %	0.9 %	6.4 %	1.8 %	0.9 %	72.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4506 ppm	96.9700 %	105.6387 %	89.4121 %	130.3064 %	147.6626 %	134.8620 %
Concentration per Run 1	0.4544 ppm	95.7357 %	102.7371 %	89.5682 %	129.3529 %	145.1507 %	134.9771 %
Concentration per Run 2	0.4494 ppm	98.0501 %	104.2051 %	88.8074 %	131.7465 %	145.4301 %	134.3617 %
Concentration per Run 3	0.4481 ppm	97.1242 %	109.9739 %	89.8607 %	129.8198 %	152.4072 %	135.2472 %
Concentration RSD	0.7 %	1.2 %	3.6 %	0.6 %	1.0 %	2.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455039-02D2 WG1976295
Analysis started at: 9/26/2024 7:44:15 PM
Rack 3
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	57.5477 ppm	0.0217 ppm	0.0075 ppm	0.2314 ppm	0.0032 ppm	133.4505 ppm
Concentration per Run 1	0.0015 ppm	56.5827 ppm	0.0216 ppm	0.0083 ppm	0.2258 ppm	0.0036 ppm	135.4878 ppm
Concentration per Run 2	0.0017 ppm	57.9662 ppm	0.0213 ppm	0.0059 ppm	0.2345 ppm	0.0030 ppm	131.9614 ppm
Concentration per Run 3	0.0022 ppm	58.0941 ppm	0.0223 ppm	0.0082 ppm	0.2338 ppm	0.0031 ppm	132.9024 ppm
Concentration RSD	19.1 %	1.5 %	2.5 %	18.1 %	2.1 %	9.4 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0442 ppm	0.0644 ppm	0.0872 ppm	125.2887 ppm	4.1058 ppm	0.0519 ppm
Concentration per Run 1	-0.0001 ppm	0.0449 ppm	0.0649 ppm	0.0870 ppm	123.0147 ppm	3.9882 ppm	0.0495 ppm
Concentration per Run 2	-0.0003 ppm	0.0440 ppm	0.0644 ppm	0.0874 ppm	126.0930 ppm	4.1656 ppm	0.0537 ppm
Concentration per Run 3	-0.0002 ppm	0.0437 ppm	0.0640 ppm	0.0872 ppm	126.7583 ppm	4.1635 ppm	0.0523 ppm
Concentration RSD	35.6 %	1.4 %	0.7 %	0.2 %	1.6 %	2.5 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.1031 ppm	1.0679 ppm	0.0028 ppm	2.5820 ppm	0.0678 ppm	0.1085 ppm	0.0008 ppm
Concentration per Run 1	29.5277 ppm	1.0601 ppm	0.0027 ppm	2.4687 ppm	0.0681 ppm	0.1105 ppm	0.0029 ppm
Concentration per Run 2	28.9978 ppm	1.0646 ppm	0.0026 ppm	2.6482 ppm	0.0678 ppm	0.1068 ppm	-0.0007 ppm
Concentration per Run 3	28.7839 ppm	1.0791 ppm	0.0031 ppm	2.6292 ppm	0.0675 ppm	0.1082 ppm	0.0003 ppm
Concentration RSD	1.3 %	0.9 %	10.1 %	3.8 %	0.5 %	1.7 %	231.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	2.9850 ppm	0.0054 ppm	0.2107 ppm	3.3158 ppm	0.0025 ppm	0.2258 ppm
Concentration per Run 1	0.0014 ppm	3.0240 ppm	0.0056 ppm	0.2157 ppm	3.3597 ppm	0.0025 ppm	0.2283 ppm
Concentration per Run 2	-0.0016 ppm	2.9769 ppm	0.0054 ppm	0.2077 ppm	3.3082 ppm	0.0030 ppm	0.2253 ppm
Concentration per Run 3	0.0009 ppm	2.9541 ppm	0.0053 ppm	0.2086 ppm	3.2794 ppm	0.0020 ppm	0.2237 ppm
Concentration RSD	679.4 %	1.2 %	3.2 %	2.1 %	1.2 %	20.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3289 ppm	94.3080 %	106.3263 %	86.7351 %	124.1849 %	144.6407 %	128.2263 %
Concentration per Run 1	0.3309 ppm	93.1323 %	101.6263 %	86.8410 %	123.0083 %	140.0242 %	128.2142 %
Concentration per Run 2	0.3293 ppm	94.4963 %	110.0297 %	87.0054 %	124.3675 %	148.5057 %	128.7092 %
Concentration per Run 3	0.3265 ppm	95.2954 %	107.3231 %	86.3590 %	125.1789 %	145.3923 %	127.7554 %
Concentration RSD	0.7 %	1.2 %	4.0 %	0.4 %	0.9 %	3.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455039-03D2 WG1976295
Analysis started at: 9/26/2024 7:48:13 PM
Rack 3
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0068 ppm	47.3102 ppm	0.0150 ppm	0.0055 ppm	0.1695 ppm	0.0027 ppm	43.5908 ppm
Concentration per Run 1	0.0060 ppm	46.4354 ppm	0.0158 ppm	0.0057 ppm	0.1652 ppm	0.0029 ppm	43.9428 ppm
Concentration per Run 2	0.0073 ppm	47.8046 ppm	0.0137 ppm	0.0054 ppm	0.1722 ppm	0.0026 ppm	43.6034 ppm
Concentration per Run 3	0.0070 ppm	47.6907 ppm	0.0155 ppm	0.0053 ppm	0.1709 ppm	0.0027 ppm	43.2262 ppm
Concentration RSD	9.9 %	1.6 %	7.4 %	4.5 %	2.2 %	5.8 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0426 ppm	0.0585 ppm	0.0854 ppm	118.3509 ppm	3.2104 ppm	0.0515 ppm
Concentration per Run 1	0.0004 ppm	0.0434 ppm	0.0586 ppm	0.0836 ppm	116.0537 ppm	3.0788 ppm	0.0486 ppm
Concentration per Run 2	0.0004 ppm	0.0426 ppm	0.0589 ppm	0.0865 ppm	120.0747 ppm	3.2986 ppm	0.0528 ppm
Concentration per Run 3	0.0004 ppm	0.0416 ppm	0.0580 ppm	0.0863 ppm	118.9244 ppm	3.2540 ppm	0.0530 ppm
Concentration RSD	4.7 %	2.1 %	0.7 %	1.9 %	1.7 %	3.6 %	4.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.2106 ppm	0.6297 ppm	0.0023 ppm	2.3862 ppm	0.0634 ppm	0.0644 ppm	-0.0001 ppm
Concentration per Run 1	16.3906 ppm	0.6260 ppm	0.0025 ppm	2.2754 ppm	0.0644 ppm	0.0651 ppm	-0.0001 ppm
Concentration per Run 2	16.1465 ppm	0.6337 ppm	0.0025 ppm	2.4564 ppm	0.0634 ppm	0.0634 ppm	0.0004 ppm
Concentration per Run 3	16.0946 ppm	0.6294 ppm	0.0017 ppm	2.4267 ppm	0.0624 ppm	0.0647 ppm	-0.0007 ppm
Concentration RSD	1.0 %	0.6 %	19.5 %	4.1 %	1.6 %	1.4 %	482.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	4.1463 ppm	0.0057 ppm	0.0764 ppm	2.7522 ppm	0.0017 ppm	0.2009 ppm
Concentration per Run 1	0.0020 ppm	4.1325 ppm	0.0056 ppm	0.0776 ppm	2.7859 ppm	0.0011 ppm	0.2056 ppm
Concentration per Run 2	0.0036 ppm	4.1667 ppm	0.0058 ppm	0.0759 ppm	2.7420 ppm	0.0022 ppm	0.1990 ppm
Concentration per Run 3	0.0011 ppm	4.1396 ppm	0.0058 ppm	0.0757 ppm	2.7287 ppm	0.0018 ppm	0.1980 ppm
Concentration RSD	58.7 %	0.4 %	1.4 %	1.4 %	1.1 %	33.2 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2722 ppm	96.0273 %	106.8195 %	89.8989 %	121.2953 %	138.3367 %	124.5361 %
Concentration per Run 1	0.2722 ppm	93.9646 %	102.9327 %	90.4033 %	118.0114 %	133.9464 %	124.8566 %
Concentration per Run 2	0.2725 ppm	97.0971 %	108.1678 %	89.4922 %	122.9697 %	140.0177 %	124.1957 %
Concentration per Run 3	0.2720 ppm	97.0202 %	109.3580 %	89.8012 %	122.9050 %	141.0459 %	124.5561 %
Concentration RSD	0.1 %	1.9 %	3.2 %	0.5 %	2.3 %	2.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455039-04d3 WG1976295
Analysis started at: 9/26/2024 7:52:12 PM
Rack 3
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	64.4298 ppm	0.0182 ppm	0.0051 ppm	0.2698 ppm	0.0047 ppm	29.4486 ppm
Concentration per Run 1	-0.0004 ppm	64.0104 ppm	0.0181 ppm	0.0058 ppm	0.2678 ppm	0.0048 ppm	29.4921 ppm
Concentration per Run 2	-0.0001 ppm	64.7642 ppm	0.0188 ppm	0.0047 ppm	0.2704 ppm	0.0047 ppm	29.5900 ppm
Concentration per Run 3	-0.0007 ppm	64.5150 ppm	0.0178 ppm	0.0049 ppm	0.2712 ppm	0.0046 ppm	29.2636 ppm
Concentration RSD	63.9 %	0.6 %	2.7 %	11.2 %	0.7 %	2.6 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0504 ppm	0.0731 ppm	0.0804 ppm	160.0228 ppm	7.0461 ppm	0.0455 ppm
Concentration per Run 1	0.0003 ppm	0.0510 ppm	0.0735 ppm	0.0807 ppm	159.1663 ppm	6.9923 ppm	0.0449 ppm
Concentration per Run 2	0.0005 ppm	0.0505 ppm	0.0733 ppm	0.0808 ppm	160.6743 ppm	7.0632 ppm	0.0458 ppm
Concentration per Run 3	0.0004 ppm	0.0498 ppm	0.0724 ppm	0.0797 ppm	160.2276 ppm	7.0829 ppm	0.0457 ppm
Concentration RSD	18.9 %	1.2 %	0.8 %	0.7 %	0.5 %	0.7 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.2868 ppm	1.3057 ppm	0.0031 ppm	3.0500 ppm	0.0729 ppm	0.0213 ppm	-0.0027 ppm
Concentration per Run 1	17.4387 ppm	1.3022 ppm	0.0032 ppm	3.0143 ppm	0.0741 ppm	0.0223 ppm	-0.0019 ppm
Concentration per Run 2	17.2903 ppm	1.3124 ppm	0.0028 ppm	3.0710 ppm	0.0726 ppm	0.0216 ppm	-0.0008 ppm
Concentration per Run 3	17.1313 ppm	1.3024 ppm	0.0033 ppm	3.0646 ppm	0.0719 ppm	0.0200 ppm	-0.0054 ppm
Concentration RSD	0.9 %	0.4 %	8.5 %	1.0 %	1.6 %	5.7 %	87.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	6.8841 ppm	0.0066 ppm	0.0972 ppm	5.0315 ppm	0.0035 ppm	0.2658 ppm
Concentration per Run 1	0.0013 ppm	6.9563 ppm	0.0073 ppm	0.0975 ppm	5.0661 ppm	0.0033 ppm	0.2674 ppm
Concentration per Run 2	0.0017 ppm	6.9107 ppm	0.0057 ppm	0.0973 ppm	5.0351 ppm	0.0030 ppm	0.2651 ppm
Concentration per Run 3	-0.0016 ppm	6.7853 ppm	0.0068 ppm	0.0969 ppm	4.9934 ppm	0.0043 ppm	0.2649 ppm
Concentration RSD	409.2 %	1.3 %	12.5 %	0.3 %	0.7 %	18.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3445 ppm	100.0169 %	107.4191 %	90.4279 %	149.4860 %	167.1501 %	154.7224 %
Concentration per Run 1	0.3470 ppm	99.6020 %	105.8182 %	90.0395 %	149.4942 %	164.4421 %	154.7005 %
Concentration per Run 2	0.3470 ppm	99.6607 %	107.1272 %	90.1197 %	149.1320 %	166.8157 %	154.5312 %
Concentration per Run 3	0.3394 ppm	100.7879 %	109.3118 %	91.1245 %	149.8317 %	170.1924 %	154.9354 %
Concentration RSD	1.3 %	0.7 %	1.6 %	0.7 %	0.2 %	1.7 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:56:11 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5044 ppm	0.4950 ppm	0.4841 ppm	0.4933 ppm	0.5071 ppm	0.5167 ppm	0.5011 ppm
Concentration per Run 1	0.5097 ppm	0.4930 ppm	0.4830 ppm	0.4967 ppm	0.5050 ppm	0.5153 ppm	0.5015 ppm
Concentration per Run 2	0.5038 ppm	0.4972 ppm	0.4845 ppm	0.4950 ppm	0.5103 ppm	0.5172 ppm	0.5015 ppm
Concentration per Run 3	0.4998 ppm	0.4948 ppm	0.4847 ppm	0.4880 ppm	0.5062 ppm	0.5176 ppm	0.5002 ppm
Recovery Percentage 1	100.886 %	99.001 %	96.810 %	98.653 %	101.426 %	103.344 %	100.214 %
Concentration RSD	1.0 %	0.4 %	0.2 %	0.9 %	0.5 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5021 ppm	0.5063 ppm	0.4974 ppm	0.4954 ppm	0.5290 ppm	5.2729 ppm	0.4956 ppm
Concentration per Run 1	0.5099 ppm	0.5132 ppm	0.5037 ppm	0.5000 ppm	0.5283 ppm	5.2667 ppm	0.4959 ppm
Concentration per Run 2	0.5010 ppm	0.5049 ppm	0.4955 ppm	0.4964 ppm	0.5312 ppm	5.2912 ppm	0.4928 ppm
Concentration per Run 3	0.4956 ppm	0.5007 ppm	0.4931 ppm	0.4897 ppm	0.5277 ppm	5.2609 ppm	0.4983 ppm
Recovery Percentage 1	100.429 %	101.254 %	99.488 %	99.071 %	105.808 %	105.458 %	99.129 %
Concentration RSD	1.4 %	1.3 %	1.1 %	1.1 %	0.4 %	0.3 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4896 ppm	0.5026 ppm	0.4949 ppm	10.1728 ppm	0.5067 ppm	0.5012 ppm	0.4979 ppm
Concentration per Run 1	0.4987 ppm	0.5017 ppm	0.4991 ppm	10.1530 ppm	0.5134 ppm	0.5005 ppm	0.4999 ppm
Concentration per Run 2	0.4852 ppm	0.5045 ppm	0.4929 ppm	10.2267 ppm	0.5058 ppm	0.5028 ppm	0.5009 ppm
Concentration per Run 3	0.4850 ppm	0.5016 ppm	0.4927 ppm	10.1386 ppm	0.5008 ppm	0.5005 ppm	0.4929 ppm
Recovery Percentage 1	97.920 %	100.521 %	98.981 %	101.728 %	101.333 %	100.248 %	99.579 %
Concentration RSD	1.6 %	0.3 %	0.7 %	0.5 %	1.2 %	0.3 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5010 ppm	5.5707 ppm	0.4807 ppm	0.4875 ppm	0.5071 ppm	0.4970 ppm	0.5026 ppm
Concentration per Run 1	0.4988 ppm	5.6380 ppm	0.4857 ppm	0.4855 ppm	0.5135 ppm	0.4953 ppm	0.5070 ppm
Concentration per Run 2	0.5040 ppm	5.5582 ppm	0.4797 ppm	0.4891 ppm	0.5053 ppm	0.5007 ppm	0.5018 ppm
Concentration per Run 3	0.5003 ppm	5.5157 ppm	0.4768 ppm	0.4878 ppm	0.5023 ppm	0.4950 ppm	0.4988 ppm
Recovery Percentage 1	100.208 %	106.108 %	96.147 %	97.494 %	101.411 %	99.401 %	100.512 %
Concentration RSD	0.5 %	1.1 %	0.9 %	0.4 %	1.1 %	0.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4985 ppm	95.5200 %	104.3233 %	93.3881 %	92.4110 %	102.3764 %	94.0364 %
Concentration per Run 1	0.5059 ppm	94.4720 %	103.1977 %	93.5671 %	91.5658 %	101.2487 %	94.0467 %
Concentration per Run 2	0.4967 ppm	96.2311 %	105.7270 %	93.1447 %	93.0847 %	103.7988 %	93.8784 %
Concentration per Run 3	0.4927 ppm	95.8569 %	104.0452 %	93.4526 %	92.5825 %	102.0815 %	94.1840 %
Recovery Percentage 1	99.692 %						
Concentration RSD	1.4 %	1.0 %	1.2 %	0.2 %	0.8 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 8:00:09 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0021 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	0.0000 ppm	-0.0068 ppm	-0.0009 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 2	-0.0001 ppm	0.0023 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	-0.0002 ppm	-0.0016 ppm	-0.0002 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0017 ppm
Recovery Percentage 1	-1.472 %	-2.055 %	-0.961 %	1.422 %	0.156 %	0.871 %	3.692 %
Concentration RSD	136.5 %	221.9 %	3,235.5 %	92.6 %	423.6 %	47.0 %	72.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0050 ppm	0.0025 ppm	0.0012 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm	0.0037 ppm	-0.0073 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0017 ppm	0.0062 ppm	0.0081 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0052 ppm	0.0066 ppm	0.0014 ppm
Recovery Percentage 1	2.306 %	-0.581 %	-0.497 %	14.616 %	10.039 %	0.098 %	11.566 %
Concentration RSD	53.3 %	125.9 %	333.3 %	14.7 %	25.4 %	346.5 %	44.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0001 ppm	0.0017 ppm	0.0014 ppm	0.0003 ppm	-0.0005 ppm	-0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0078 ppm	0.0004 ppm	-0.0010 ppm	-0.0033 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	0.0018 ppm	-0.0057 ppm	-0.0001 ppm	-0.0004 ppm	-0.0023 ppm
Concentration per Run 3	-0.0006 ppm	0.0000 ppm	0.0017 ppm	0.0021 ppm	0.0006 ppm	-0.0001 ppm	-0.0016 ppm
Recovery Percentage 1	-0.376 %	0.749 %	3.372 %	0.070 %	1.100 %	-4.973 %	-4.792 %
Concentration RSD	71.7 %	98.1 %	3.7 %	485.7 %	121.7 %	85.4 %	35.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	-0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0006 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0017 ppm	-0.0039 ppm	-0.0008 ppm	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 2	0.0010 ppm	-0.0024 ppm	0.0014 ppm	-0.0002 ppm	0.0007 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0013 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	-0.0004 ppm
Recovery Percentage 1	13.106 %	-0.401 %	0.694 %	-0.419 %	6.416 %	2.832 %	0.352 %
Concentration RSD	28.4 %	102.7 %	314.8 %	261.1 %	13.6 %	40.5 %	1,054.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	91.4355 %	101.8179 %	92.5740 %	92.6739 %	102.2162 %	94.3520 %
Concentration per Run 1	0.0005 ppm	89.8307 %	101.2577 %	92.3023 %	91.5962 %	101.3364 %	94.1611 %
Concentration per Run 2	0.0002 ppm	91.5740 %	102.0631 %	92.2639 %	92.8088 %	102.8087 %	93.9688 %
Concentration per Run 3	0.0003 ppm	92.9019 %	102.1330 %	93.1558 %	93.6167 %	102.5034 %	94.9260 %
Recovery Percentage 1	6.398 %						
Concentration RSD	47.3 %	1.7 %	0.5 %	0.5 %	1.1 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454068-01 WG1975762
Analysis started at: 9/26/2024 8:07:58 PM
Rack 3
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0400 ppm	0.0019 ppm	0.0612 ppm	0.0400 ppm	0.0001 ppm	153.3084 ppm
Concentration per Run 1	-0.0001 ppm	0.0373 ppm	0.0021 ppm	0.0609 ppm	0.0397 ppm	0.0001 ppm	151.9968 ppm
Concentration per Run 2	0.0000 ppm	0.0485 ppm	0.0017 ppm	0.0615 ppm	0.0401 ppm	0.0002 ppm	153.3077 ppm
Concentration per Run 3	-0.0001 ppm	0.0342 ppm	0.0020 ppm	0.0612 ppm	0.0403 ppm	0.0002 ppm	154.6206 ppm
Concentration RSD	81.3 %	18.9 %	9.4 %	0.5 %	0.8 %	23.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0125 ppm	0.0006 ppm	0.0016 ppm	23.1207 ppm	14.8090 ppm	0.0123 ppm
Concentration per Run 1	-0.0005 ppm	0.0125 ppm	0.0003 ppm	0.0015 ppm	23.0061 ppm	14.7690 ppm	0.0136 ppm
Concentration per Run 2	-0.0007 ppm	0.0126 ppm	0.0007 ppm	0.0018 ppm	23.1066 ppm	14.7490 ppm	0.0116 ppm
Concentration per Run 3	-0.0006 ppm	0.0124 ppm	0.0007 ppm	0.0014 ppm	23.2495 ppm	14.9091 ppm	0.0118 ppm
Concentration RSD	9.5 %	0.6 %	40.5 %	13.7 %	0.5 %	0.6 %	8.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.0238 ppm	1.2821 ppm	0.0300 ppm	134.3368 ppm	0.0564 ppm	0.0030 ppm	-0.0030 ppm
Concentration per Run 1	35.3841 ppm	1.2720 ppm	0.0296 ppm	133.5922 ppm	0.0566 ppm	0.0023 ppm	-0.0002 ppm
Concentration per Run 2	35.2123 ppm	1.2849 ppm	0.0306 ppm	134.5132 ppm	0.0570 ppm	0.0036 ppm	-0.0047 ppm
Concentration per Run 3	34.4750 ppm	1.2894 ppm	0.0299 ppm	134.9051 ppm	0.0557 ppm	0.0030 ppm	-0.0041 ppm
Concentration RSD	1.4 %	0.7 %	1.8 %	0.5 %	1.2 %	22.1 %	79.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	6.4135 ppm	-0.0001 ppm	0.6780 ppm	0.0018 ppm	-0.0005 ppm	0.0099 ppm
Concentration per Run 1	0.0036 ppm	6.4714 ppm	-0.0003 ppm	0.6717 ppm	0.0015 ppm	-0.0007 ppm	0.0100 ppm
Concentration per Run 2	0.0040 ppm	6.4178 ppm	-0.0002 ppm	0.6801 ppm	0.0018 ppm	0.0012 ppm	0.0098 ppm
Concentration per Run 3	0.0002 ppm	6.3515 ppm	0.0002 ppm	0.6823 ppm	0.0021 ppm	-0.0021 ppm	0.0098 ppm
Concentration RSD	80.7 %	0.9 %	400.1 %	0.8 %	16.7 %	294.1 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0767 ppm	96.3122 %	102.1137 %	89.0234 %	114.3070 %	121.5834 %	111.7633 %
Concentration per Run 1	1.0878 ppm	95.4960 %	102.9635 %	88.4993 %	114.2563 %	122.4085 %	111.4883 %
Concentration per Run 2	1.0800 ppm	95.6985 %	102.7983 %	89.0945 %	113.4416 %	122.1833 %	111.8837 %
Concentration per Run 3	1.0623 ppm	97.7422 %	100.5792 %	89.4763 %	115.2230 %	120.1584 %	111.9178 %
Concentration RSD	1.2 %	1.3 %	1.3 %	0.6 %	0.8 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454068-03 WG1975762
Analysis started at: 9/26/2024 8:12:17 PM
Rack 3
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.3692 ppm	0.0041 ppm	0.2631 ppm	0.0558 ppm	0.0005 ppm	76.0046 ppm
Concentration per Run 1	-0.0001 ppm	0.3806 ppm	0.0037 ppm	0.2657 ppm	0.0584 ppm	0.0005 ppm	78.8201 ppm
Concentration per Run 2	-0.0002 ppm	0.3810 ppm	0.0046 ppm	0.2648 ppm	0.0573 ppm	0.0005 ppm	78.9271 ppm
Concentration per Run 3	-0.0003 ppm	0.3461 ppm	0.0039 ppm	0.2588 ppm	0.0517 ppm	0.0005 ppm	70.2667 ppm
Concentration RSD	62.5 %	5.4 %	11.4 %	1.4 %	6.4 %	4.9 %	6.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.1757 ppm	-0.0005 ppm	0.0155 ppm	60.1204 ppm	22.0585 ppm	0.0148 ppm
Concentration per Run 1	0.0023 ppm	0.1760 ppm	-0.0004 ppm	0.0157 ppm	62.8303 ppm	23.0365 ppm	0.0153 ppm
Concentration per Run 2	0.0022 ppm	0.1756 ppm	-0.0007 ppm	0.0155 ppm	62.1519 ppm	22.7308 ppm	0.0159 ppm
Concentration per Run 3	0.0022 ppm	0.1755 ppm	-0.0002 ppm	0.0154 ppm	55.3789 ppm	20.4081 ppm	0.0133 ppm
Concentration RSD	3.4 %	0.1 %	56.3 %	1.0 %	6.9 %	6.5 %	9.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.7140 ppm	5.3925 ppm	-0.0003 ppm	219.4781 ppm	0.1436 ppm	0.0008 ppm	-0.0024 ppm
Concentration per Run 1	31.9370 ppm	5.5967 ppm	-0.0004 ppm	228.3714 ppm	0.1445 ppm	0.0002 ppm	-0.0026 ppm
Concentration per Run 2	31.6691 ppm	5.6034 ppm	-0.0003 ppm	227.2337 ppm	0.1434 ppm	0.0016 ppm	-0.0031 ppm
Concentration per Run 3	31.5360 ppm	4.9776 ppm	0.0000 ppm	202.8290 ppm	0.1430 ppm	0.0007 ppm	-0.0016 ppm
Concentration RSD	0.6 %	6.7 %	86.2 %	6.6 %	0.5 %	81.2 %	30.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	6.7999 ppm	-0.0005 ppm	0.5119 ppm	0.0006 ppm	-0.0017 ppm	0.0035 ppm
Concentration per Run 1	-0.0017 ppm	6.8408 ppm	-0.0001 ppm	0.5328 ppm	0.0006 ppm	-0.0012 ppm	0.0034 ppm
Concentration per Run 2	0.0013 ppm	6.8126 ppm	-0.0010 ppm	0.5319 ppm	0.0004 ppm	-0.0028 ppm	0.0036 ppm
Concentration per Run 3	0.0001 ppm	6.7464 ppm	-0.0004 ppm	0.4710 ppm	0.0007 ppm	-0.0011 ppm	0.0034 ppm
Concentration RSD	1,350.3 %	0.7 %	82.3 %	6.9 %	25.5 %	53.8 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2319 ppm	94.8874 %	113.2752 %	89.8980 %	106.4965 %	125.0292 %	106.9922 %
Concentration per Run 1	2.2507 ppm	94.6885 %	109.5436 %	90.4254 %	107.2952 %	123.8765 %	107.3333 %
Concentration per Run 2	2.2292 ppm	94.9376 %	109.6103 %	89.8811 %	106.2106 %	124.1799 %	107.0245 %
Concentration per Run 3	2.2158 ppm	95.0362 %	120.6717 %	89.3874 %	105.9837 %	127.0312 %	106.6187 %
Concentration RSD	0.8 %	0.2 %	5.7 %	0.6 %	0.7 %	1.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454068-07 WG1975762
Analysis started at: 9/26/2024 8:16:16 PM
Rack 3
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0889 ppm	-0.0002 ppm	0.2823 ppm	0.0685 ppm	0.0000 ppm	25.0726 ppm
Concentration per Run 1	0.0000 ppm	0.0903 ppm	0.0011 ppm	0.2894 ppm	0.0691 ppm	0.0000 ppm	25.1656 ppm
Concentration per Run 2	0.0004 ppm	0.0822 ppm	-0.0007 ppm	0.2809 ppm	0.0683 ppm	0.0000 ppm	25.1992 ppm
Concentration per Run 3	-0.0001 ppm	0.0944 ppm	-0.0009 ppm	0.2767 ppm	0.0682 ppm	0.0000 ppm	24.8530 ppm
Concentration RSD	210.5 %	7.0 %	656.1 %	2.3 %	0.7 %	216.1 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0114 ppm	0.0973 ppm	0.0039 ppm	0.7574 ppm	23.6029 ppm	29.4615 ppm	0.0011 ppm
Concentration per Run 1	0.0117 ppm	0.0998 ppm	0.0042 ppm	0.7745 ppm	23.7265 ppm	29.6286 ppm	0.0009 ppm
Concentration per Run 2	0.0113 ppm	0.0968 ppm	0.0038 ppm	0.7534 ppm	23.5710 ppm	29.4999 ppm	-0.0002 ppm
Concentration per Run 3	0.0112 ppm	0.0953 ppm	0.0037 ppm	0.7442 ppm	23.5112 ppm	29.2561 ppm	0.0025 ppm
Concentration RSD	2.2 %	2.4 %	7.5 %	2.1 %	0.5 %	0.6 %	126.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.8693 ppm	2.4470 ppm	0.0020 ppm	169.0284 ppm	0.2300 ppm	0.0564 ppm	-0.0022 ppm
Concentration per Run 1	15.2767 ppm	2.4571 ppm	0.0015 ppm	169.4507 ppm	0.2378 ppm	0.0564 ppm	-0.0032 ppm
Concentration per Run 2	14.7699 ppm	2.4565 ppm	0.0023 ppm	169.9171 ppm	0.2270 ppm	0.0571 ppm	0.0003 ppm
Concentration per Run 3	14.5612 ppm	2.4275 ppm	0.0022 ppm	167.7176 ppm	0.2254 ppm	0.0558 ppm	-0.0037 ppm
Concentration RSD	2.5 %	0.7 %	20.6 %	0.7 %	2.9 %	1.2 %	98.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	3.1850 ppm	-0.0003 ppm	0.1596 ppm	0.0043 ppm	-0.0002 ppm	0.0054 ppm
Concentration per Run 1	-0.0004 ppm	3.2687 ppm	-0.0001 ppm	0.1601 ppm	0.0045 ppm	-0.0003 ppm	0.0056 ppm
Concentration per Run 2	0.0024 ppm	3.1593 ppm	-0.0001 ppm	0.1602 ppm	0.0042 ppm	-0.0006 ppm	0.0053 ppm
Concentration per Run 3	0.0011 ppm	3.1268 ppm	-0.0007 ppm	0.1586 ppm	0.0043 ppm	0.0003 ppm	0.0052 ppm
Concentration RSD	141.2 %	2.3 %	128.9 %	0.6 %	3.9 %	225.0 %	3.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.2117 ppm	93.2290 %	107.9085 %	92.2634 %	**178.2697 %**	**202.3504 %**	**180.8146 %**
Concentration per Run 1	4.3555 ppm	90.7906 %	107.5976 %	92.0491 %	**176.2714 %**	**201.9248 %**	**181.2887 %**
Concentration per Run 2	4.1555 ppm	93.8196 %	106.9406 %	91.7796 %	**178.7895 %**	**201.3517 %**	**180.6679 %**
Concentration per Run 3	4.1240 ppm	95.0767 %	109.1872 %	92.9614 %	**179.7484 %**	**203.7746 %**	**180.4871 %**
Concentration RSD	3.0 %	2.4 %	1.1 %	0.7 %	**1.0 %**	**0.6 %**	**0.2 %**

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454068-08 WG1975762
Analysis started at: 9/26/2024 8:20:15 PM
Rack 3
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0325 ppm	0.0015 ppm	0.0887 ppm	0.2332 ppm	0.0000 ppm	1,035.5972 [SIC 1500]
Concentration per Run 1	-0.0011 ppm	0.0298 ppm	0.0002 ppm	0.0909 ppm	0.2322 ppm	0.0000 ppm	1,041.7053 ppm
Concentration per Run 2	-0.0007 ppm	0.0321 ppm	0.0015 ppm	0.0885 ppm	0.2358 ppm	0.0000 ppm	1,035.8206 ppm
Concentration per Run 3	-0.0007 ppm	0.0357 ppm	0.0027 ppm	0.0868 ppm	0.2317 ppm	0.0000 ppm	1,029.2659 ppm
Concentration RSD	30.0 %	9.1 %	86.1 %	2.3 %	1.0 %	47.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0051 ppm	0.0002 ppm	-0.0004 ppm	0.0021 ppm	27.8671 ppm	12.4770 ppm	0.0490 ppm
Concentration per Run 1	-0.0053 ppm	0.0003 ppm	-0.0005 ppm	0.0018 ppm	27.8936 ppm	12.5208 ppm	0.0515 ppm
Concentration per Run 2	-0.0051 ppm	0.0002 ppm	-0.0004 ppm	0.0020 ppm	28.0002 ppm	12.4843 ppm	0.0476 ppm
Concentration per Run 3	-0.0050 ppm	0.0001 ppm	-0.0002 ppm	0.0023 ppm	27.7075 ppm	12.4261 ppm	0.0480 ppm
Concentration RSD	2.5 %	38.9 %	43.2 %	11.6 %	0.5 %	0.4 %	4.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	174.3043 ppm	3.0916 ppm	0.0520 ppm	269.3115 ppm	0.0006 ppm	-0.0011 ppm	-0.0019 ppm
Concentration per Run 1	178.0663 ppm	3.1035 ppm	0.0532 ppm	269.9753 ppm	0.0012 ppm	-0.0006 ppm	-0.0024 ppm
Concentration per Run 2	173.4802 ppm	3.0976 ppm	0.0516 ppm	271.9476 ppm	0.0009 ppm	-0.0014 ppm	-0.0013 ppm
Concentration per Run 3	171.3664 ppm	3.0736 ppm	0.0513 ppm	266.0115 ppm	-0.0002 ppm	-0.0011 ppm	-0.0020 ppm
Concentration RSD	2.0 %	0.5 %	2.0 %	1.1 %	120.4 %	42.5 %	30.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.1160 ppm	-0.0004 ppm	5.4777 ppm	-0.0006 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0016 ppm	0.1187 ppm	-0.0002 ppm	5.4917 ppm	-0.0006 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	0.1136 ppm	-0.0011 ppm	5.4863 ppm	-0.0005 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 3	0.0006 ppm	0.1157 ppm	0.0000 ppm	5.4549 ppm	-0.0008 ppm	0.0016 ppm	-0.0005 ppm
Concentration RSD	670.4 %	2.2 %	134.0 %	0.4 %	25.8 %	1,612.4 %	131.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0148 ppm	83.0418 %	98.4059 %	75.5820 %	81.9981 %	96.9093 %	80.7878 %
Concentration per Run 1	0.0151 ppm	81.3882 %	97.8358 %	75.4795 %	81.2197 %	96.4642 %	80.6629 %
Concentration per Run 2	0.0146 ppm	83.2997 %	98.4842 %	74.8722 %	82.0263 %	96.9763 %	80.2606 %
Concentration per Run 3	0.0147 ppm	84.4376 %	98.8975 %	76.3944 %	82.7483 %	97.2874 %	81.4399 %
Concentration RSD	1.7 %	1.9 %	0.5 %	1.0 %	0.9 %	0.4 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454312-02 WG1975762
Analysis started at: 9/26/2024 8:24:14 PM
Rack 3
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.4198 ppm	0.0009 ppm	0.1663 ppm	0.0297 ppm	0.0001 ppm	58.6368 ppm
Concentration per Run 1	-0.0002 ppm	0.4253 ppm	0.0007 ppm	0.1705 ppm	0.0299 ppm	0.0001 ppm	58.8060 ppm
Concentration per Run 2	0.0000 ppm	0.4216 ppm	0.0010 ppm	0.1651 ppm	0.0301 ppm	0.0000 ppm	58.7286 ppm
Concentration per Run 3	-0.0003 ppm	0.4125 ppm	0.0008 ppm	0.1633 ppm	0.0291 ppm	0.0001 ppm	58.3758 ppm
Concentration RSD	96.2 %	1.6 %	18.3 %	2.3 %	1.7 %	73.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0031 ppm	0.2933 ppm	7.7352 ppm	0.0017 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0033 ppm	0.2922 ppm	7.8161 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0032 ppm	0.2969 ppm	7.7836 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0027 ppm	0.2908 ppm	7.6058 ppm	0.0009 ppm
Concentration RSD	38.8 %	143.9 %	125.6 %	9.2 %	1.1 %	1.5 %	41.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.2448 ppm	0.1378 ppm	0.0006 ppm	188.8594 ppm	0.0013 ppm	0.0021 ppm	-0.0031 ppm
Concentration per Run 1	12.6161 ppm	0.1385 ppm	0.0004 ppm	189.4381 ppm	0.0013 ppm	0.0018 ppm	-0.0035 ppm
Concentration per Run 2	12.1715 ppm	0.1380 ppm	0.0006 ppm	190.7249 ppm	0.0015 ppm	0.0015 ppm	-0.0024 ppm
Concentration per Run 3	11.9466 ppm	0.1371 ppm	0.0006 ppm	186.4152 ppm	0.0011 ppm	0.0032 ppm	-0.0032 ppm
Concentration RSD	2.8 %	0.5 %	23.3 %	1.2 %	12.2 %	42.3 %	17.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	5.5312 ppm	-0.0015 ppm	0.3578 ppm	0.0077 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 1	0.0005 ppm	5.6649 ppm	-0.0009 ppm	0.3594 ppm	0.0080 ppm	-0.0007 ppm	0.0008 ppm
Concentration per Run 2	0.0041 ppm	5.5185 ppm	-0.0019 ppm	0.3560 ppm	0.0075 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 3	0.0005 ppm	5.4103 ppm	-0.0017 ppm	0.3580 ppm	0.0076 ppm	-0.0011 ppm	0.0006 ppm
Concentration RSD	124.1 %	2.3 %	34.4 %	0.5 %	3.0 %	289.4 %	19.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0564 ppm	87.3805 %	101.1927 %	86.5774 %	90.1652 %	101.4198 %	91.2563 %
Concentration per Run 1	0.0581 ppm	85.0899 %	100.5787 %	85.7412 %	89.0970 %	100.8240 %	90.9905 %
Concentration per Run 2	0.0558 ppm	87.8608 %	101.4692 %	86.8298 %	90.5674 %	101.6838 %	91.3320 %
Concentration per Run 3	0.0552 ppm	89.1908 %	101.5304 %	87.1612 %	90.8311 %	101.7517 %	91.4466 %
Concentration RSD	2.8 %	2.4 %	0.5 %	0.9 %	1.0 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454312-03 WG1975762
Analysis started at: 9/26/2024 8:28:14 PM
Rack 3
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0135 ppm	-0.0001 ppm	0.0539 ppm	0.0615 ppm	0.0000 ppm	30.8037 ppm
Concentration per Run 1	-0.0003 ppm	0.0141 ppm	-0.0007 ppm	0.0546 ppm	0.0613 ppm	0.0000 ppm	30.7731 ppm
Concentration per Run 2	0.0000 ppm	0.0126 ppm	0.0007 ppm	0.0536 ppm	0.0616 ppm	0.0000 ppm	30.9840 ppm
Concentration per Run 3	0.0003 ppm	0.0138 ppm	-0.0003 ppm	0.0536 ppm	0.0615 ppm	0.0000 ppm	30.6539 ppm
Concentration RSD	2,379.7 %	6.1 %	720.2 %	1.0 %	0.3 %	211.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0022 ppm	0.0462 ppm	6.8058 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0024 ppm	0.0475 ppm	6.8490 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0021 ppm	0.0457 ppm	6.8632 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0022 ppm	0.0453 ppm	6.7051 ppm	-0.0002 ppm
Concentration RSD	42.0 %	343.9 %	17.9 %	8.4 %	2.6 %	1.3 %	137.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.1592 ppm	0.0212 ppm	0.0029 ppm	153.0697 ppm	0.0012 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	5.2900 ppm	0.0212 ppm	0.0032 ppm	152.0763 ppm	0.0008 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 2	5.1446 ppm	0.0212 ppm	0.0033 ppm	154.2962 ppm	0.0017 ppm	-0.0002 ppm	0.0021 ppm
Concentration per Run 3	5.0430 ppm	0.0211 ppm	0.0023 ppm	152.8366 ppm	0.0011 ppm	0.0005 ppm	-0.0028 ppm
Concentration RSD	2.4 %	0.3 %	18.5 %	0.7 %	36.3 %	141.9 %	2,629.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	4.4258 ppm	-0.0013 ppm	0.1505 ppm	0.0009 ppm	-0.0002 ppm	0.0014 ppm
Concentration per Run 1	0.0022 ppm	4.5271 ppm	-0.0013 ppm	0.1506 ppm	0.0008 ppm	-0.0003 ppm	0.0015 ppm
Concentration per Run 2	0.0017 ppm	4.4217 ppm	-0.0012 ppm	0.1510 ppm	0.0011 ppm	-0.0005 ppm	0.0014 ppm
Concentration per Run 3	0.0014 ppm	4.3286 ppm	-0.0014 ppm	0.1499 ppm	0.0007 ppm	0.0001 ppm	0.0011 ppm
Concentration RSD	23.3 %	2.2 %	7.2 %	0.4 %	21.5 %	161.2 %	15.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0068 ppm	87.3168 %	100.6809 %	87.6263 %	90.4069 %	101.2196 %	91.8799 %
Concentration per Run 1	0.0070 ppm	85.4013 %	100.0667 %	87.3608 %	89.8073 %	100.7480 %	92.0846 %
Concentration per Run 2	0.0068 ppm	87.4077 %	100.3916 %	87.3740 %	90.3185 %	101.1399 %	91.5022 %
Concentration per Run 3	0.0065 ppm	89.1414 %	101.5843 %	88.1441 %	91.0948 %	101.7708 %	92.0529 %
Concentration RSD	3.3 %	2.1 %	0.8 %	0.5 %	0.7 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454312-04 WG1975762
Analysis started at: 9/26/2024 8:32:13 PM
Rack 3
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.3930 ppm	0.0000 ppm	0.1044 ppm	0.0661 ppm	0.0001 ppm	32.6851 ppm
Concentration per Run 1	-0.0005 ppm	0.3958 ppm	0.0006 ppm	0.1047 ppm	0.0663 ppm	0.0001 ppm	32.8063 ppm
Concentration per Run 2	0.0000 ppm	0.3937 ppm	-0.0015 ppm	0.1043 ppm	0.0663 ppm	0.0001 ppm	32.7077 ppm
Concentration per Run 3	-0.0003 ppm	0.3896 ppm	0.0009 ppm	0.1043 ppm	0.0658 ppm	0.0001 ppm	32.5412 ppm
Concentration RSD	114.3 %	0.8 %	6,478.8 %	0.2 %	0.4 %	10.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0031 ppm	0.0003 ppm	0.0033 ppm	0.4163 ppm	9.2840 ppm	0.0104 ppm
Concentration per Run 1	0.0002 ppm	0.0034 ppm	0.0004 ppm	0.0033 ppm	0.4174 ppm	9.3472 ppm	0.0112 ppm
Concentration per Run 2	0.0002 ppm	0.0032 ppm	0.0005 ppm	0.0033 ppm	0.4158 ppm	9.2413 ppm	0.0104 ppm
Concentration per Run 3	0.0002 ppm	0.0027 ppm	0.0002 ppm	0.0033 ppm	0.4159 ppm	9.2634 ppm	0.0097 ppm
Concentration RSD	4.1 %	10.8 %	47.1 %	1.3 %	0.2 %	0.6 %	7.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.9508 ppm	0.6547 ppm	0.0003 ppm	223.4712 ppm	0.0037 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 1	8.0934 ppm	0.6581 ppm	0.0005 ppm	223.9067 ppm	0.0041 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 2	7.9266 ppm	0.6544 ppm	0.0001 ppm	223.8632 ppm	0.0029 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	7.8323 ppm	0.6515 ppm	0.0002 ppm	222.6437 ppm	0.0040 ppm	0.0001 ppm	-0.0031 ppm
Concentration RSD	1.7 %	0.5 %	87.7 %	0.3 %	18.5 %	527.0 %	174.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	4.4473 ppm	-0.0009 ppm	0.3084 ppm	0.0064 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	0.0017 ppm	4.4967 ppm	-0.0006 ppm	0.3090 ppm	0.0066 ppm	0.0013 ppm	0.0007 ppm
Concentration per Run 2	0.0014 ppm	4.4367 ppm	-0.0006 ppm	0.3077 ppm	0.0064 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.0006 ppm	4.4084 ppm	-0.0015 ppm	0.3084 ppm	0.0063 ppm	-0.0009 ppm	0.0007 ppm
Concentration RSD	46.8 %	1.0 %	57.5 %	0.2 %	1.9 %	2,006.3 %	23.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1620 ppm	87.9876 %	100.8520 %	86.8770 %	90.6869 %	101.0836 %	91.5534 %
Concentration per Run 1	0.1648 ppm	86.2680 %	100.9596 %	86.8648 %	90.1629 %	101.8238 %	91.7741 %
Concentration per Run 2	0.1613 ppm	88.5688 %	99.2883 %	86.3052 %	91.2234 %	99.3341 %	90.9720 %
Concentration per Run 3	0.1599 ppm	89.1260 %	102.3082 %	87.4610 %	90.6743 %	102.0929 %	91.9141 %
Concentration RSD	1.6 %	1.7 %	1.5 %	0.7 %	0.6 %	1.5 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455018-10D4 WG1976295
Analysis started at: 9/26/2024 8:36:12 PM
Rack 3
Vial 15
Comment Ca over sic RR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	41.4244 ppm	0.0143 ppm	0.0356 ppm	0.2414 ppm	0.0015 ppm	528.6735 ppm
Concentration per Run 1	-0.0006 ppm	40.9759 ppm	0.0139 ppm	0.0366 ppm	0.2370 ppm	0.0016 ppm	530.1820 ppm
Concentration per Run 2	-0.0009 ppm	41.2903 ppm	0.0141 ppm	0.0351 ppm	0.2412 ppm	0.0016 ppm	531.9430 ppm
Concentration per Run 3	0.0000 ppm	42.0070 ppm	0.0150 ppm	0.0352 ppm	0.2461 ppm	0.0013 ppm	523.8956 ppm
Concentration RSD	98.6 %	1.3 %	4.0 %	2.4 %	1.9 %	13.8 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0174 ppm	0.1073 ppm	0.0698 ppm	56.6834 ppm	15.8284 ppm	0.0470 ppm
Concentration per Run 1	-0.0019 ppm	0.0175 ppm	0.1092 ppm	0.0702 ppm	55.5160 ppm	15.3578 ppm	0.0468 ppm
Concentration per Run 2	-0.0020 ppm	0.0170 ppm	0.1071 ppm	0.0691 ppm	56.4012 ppm	15.5349 ppm	0.0439 ppm
Concentration per Run 3	-0.0020 ppm	0.0177 ppm	0.1057 ppm	0.0703 ppm	58.1329 ppm	16.5927 ppm	0.0503 ppm
Concentration RSD	3.4 %	2.1 %	1.6 %	1.0 %	2.3 %	4.2 %	6.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.2072 ppm	0.9353 ppm	0.0030 ppm	7.1464 ppm	0.0620 ppm	0.8650 ppm	-0.0015 ppm
Concentration per Run 1	68.2182 ppm	0.9282 ppm	0.0033 ppm	6.9357 ppm	0.0631 ppm	0.8669 ppm	-0.0011 ppm
Concentration per Run 2	66.9236 ppm	0.9381 ppm	0.0030 ppm	7.0402 ppm	0.0620 ppm	0.8690 ppm	-0.0004 ppm
Concentration per Run 3	66.4799 ppm	0.9397 ppm	0.0027 ppm	7.4631 ppm	0.0611 ppm	0.8590 ppm	-0.0030 ppm
Concentration RSD	1.3 %	0.7 %	9.6 %	3.9 %	1.6 %	0.6 %	90.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	2.1215 ppm	0.0028 ppm	0.9599 ppm	4.1164 ppm	0.0029 ppm	0.1253 ppm
Concentration per Run 1	0.0010 ppm	2.1474 ppm	0.0029 ppm	0.9647 ppm	4.1723 ppm	0.0023 ppm	0.1273 ppm
Concentration per Run 2	0.0012 ppm	2.1007 ppm	0.0025 ppm	0.9717 ppm	4.1069 ppm	0.0042 ppm	0.1256 ppm
Concentration per Run 3	-0.0012 ppm	2.1163 ppm	0.0031 ppm	0.9431 ppm	4.0701 ppm	0.0022 ppm	0.1229 ppm
Concentration RSD	388.5 %	1.1 %	11.4 %	1.6 %	1.3 %	38.8 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2034 ppm	90.3309 %	100.7922 %	80.6666 %	93.4342 %	107.5156 %	95.1076 %
Concentration per Run 1	0.2053 ppm	88.8997 %	100.0346 %	80.3811 %	92.0964 %	107.4105 %	94.9769 %
Concentration per Run 2	0.2000 ppm	90.3477 %	98.7998 %	80.6093 %	93.2080 %	105.6716 %	94.9576 %
Concentration per Run 3	0.2048 ppm	91.7452 %	103.5422 %	81.0095 %	94.9981 %	109.4647 %	95.3882 %
Concentration RSD	1.4 %	1.6 %	2.4 %	0.4 %	1.6 %	1.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 8:40:11 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5031 ppm	0.4946 ppm	0.4827 ppm	0.4932 ppm	0.5082 ppm	0.5191 ppm	0.5075 ppm
Concentration per Run 1	0.5077 ppm	0.4972 ppm	0.4835 ppm	0.4955 ppm	0.5066 ppm	0.5194 ppm	0.5028 ppm
Concentration per Run 2	0.5030 ppm	0.4945 ppm	0.4820 ppm	0.4944 ppm	0.5085 ppm	0.5169 ppm	0.5101 ppm
Concentration per Run 3	0.4985 ppm	0.4921 ppm	0.4825 ppm	0.4895 ppm	0.5095 ppm	0.5210 ppm	0.5096 ppm
Recovery Percentage 1	100.610 %	98.923 %	96.537 %	98.630 %	101.636 %	103.824 %	101.500 %
Concentration RSD	0.9 %	0.5 %	0.2 %	0.7 %	0.3 %	0.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5061 ppm	0.5085 ppm	0.4990 ppm	0.4948 ppm	0.5233 ppm	5.3379 ppm	0.5006 ppm
Concentration per Run 1	0.5103 ppm	0.5120 ppm	0.5035 ppm	0.4990 ppm	0.5198 ppm	5.3399 ppm	0.5024 ppm
Concentration per Run 2	0.5077 ppm	0.5092 ppm	0.4991 ppm	0.4962 ppm	0.5273 ppm	5.3507 ppm	0.4977 ppm
Concentration per Run 3	0.5003 ppm	0.5042 ppm	0.4944 ppm	0.4892 ppm	0.5228 ppm	5.3232 ppm	0.5016 ppm
Recovery Percentage 1	101.222 %	101.693 %	99.804 %	98.957 %	104.659 %	106.758 %	100.112 %
Concentration RSD	1.0 %	0.8 %	0.9 %	1.0 %	0.7 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4928 ppm	0.5023 ppm	0.4957 ppm	10.2141 ppm	0.5088 ppm	0.5006 ppm	0.4977 ppm
Concentration per Run 1	0.4986 ppm	0.4983 ppm	0.4955 ppm	10.1425 ppm	0.5160 ppm	0.4993 ppm	0.4986 ppm
Concentration per Run 2	0.4938 ppm	0.5056 ppm	0.4970 ppm	10.2737 ppm	0.5084 ppm	0.5021 ppm	0.4991 ppm
Concentration per Run 3	0.4861 ppm	0.5029 ppm	0.4946 ppm	10.2262 ppm	0.5020 ppm	0.5003 ppm	0.4955 ppm
Recovery Percentage 1	98.569 %	100.457 %	99.137 %	102.141 %	101.760 %	100.112 %	99.545 %
Concentration RSD	1.3 %	0.7 %	0.2 %	0.7 %	1.4 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5004 ppm	5.5777 ppm	0.4848 ppm	0.4894 ppm	0.5057 ppm	0.4957 ppm	0.5020 ppm
Concentration per Run 1	0.4974 ppm	5.6064 ppm	0.4864 ppm	0.4863 ppm	0.5094 ppm	0.4943 ppm	0.5068 ppm
Concentration per Run 2	0.5043 ppm	5.5943 ppm	0.4873 ppm	0.4915 ppm	0.5051 ppm	0.5011 ppm	0.5011 ppm
Concentration per Run 3	0.4994 ppm	5.5325 ppm	0.4806 ppm	0.4903 ppm	0.5026 ppm	0.4916 ppm	0.4980 ppm
Recovery Percentage 1	100.072 %	106.242 %	96.951 %	97.877 %	101.142 %	99.130 %	100.394 %
Concentration RSD	0.7 %	0.7 %	0.7 %	0.5 %	0.7 %	1.0 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5036 ppm	94.6424 %	104.3852 %	93.2156 %	91.7358 %	102.2465 %	93.6620 %
Concentration per Run 1	0.5078 ppm	94.2120 %	106.5619 %	93.2290 %	91.4716 %	104.3975 %	93.3012 %
Concentration per Run 2	0.5054 ppm	94.3078 %	102.3909 %	93.4474 %	91.5589 %	100.4174 %	94.0473 %
Concentration per Run 3	0.4976 ppm	95.4075 %	104.2029 %	92.9705 %	92.1770 %	101.9246 %	93.6375 %
Recovery Percentage 1	100.724 %						
Concentration RSD	1.1 %	0.7 %	2.0 %	0.3 %	0.4 %	2.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 8:44:08 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0010 ppm	0.0007 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	-0.0001 ppm	-0.0010 ppm	0.0009 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 3	-0.0003 ppm	-0.0026 ppm	0.0009 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	-2.523 %	-1.020 %	24.715 %	4.379 %	-0.942 %	0.129 %	1.518 %
Concentration RSD	72.6 %	149.5 %	40.9 %	43.8 %	83.1 %	265.6 %	126.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0016 ppm	0.0049 ppm	0.0148 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0015 ppm	0.0046 ppm	0.0206 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0020 ppm	0.0056 ppm	0.0202 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	-0.0003 ppm	0.0013 ppm	0.0045 ppm	0.0038 ppm	0.0004 ppm
Recovery Percentage 1	1.710 %	-0.899 %	-0.755 %	15.893 %	9.832 %	0.594 %	8.496 %
Concentration RSD	87.3 %	262.7 %	363.0 %	20.8 %	12.7 %	64.4 %	53.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0001 ppm	0.0016 ppm	0.0269 ppm	0.0004 ppm	-0.0002 ppm	-0.0023 ppm
Concentration per Run 1	-0.0020 ppm	0.0000 ppm	0.0020 ppm	0.0289 ppm	0.0005 ppm	-0.0006 ppm	-0.0026 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0265 ppm	0.0009 ppm	0.0003 ppm	-0.0020 ppm
Concentration per Run 3	-0.0012 ppm	0.0001 ppm	0.0014 ppm	0.0253 ppm	-0.0002 ppm	-0.0003 ppm	-0.0024 ppm
Recovery Percentage 1	-1.106 %	1.436 %	3.150 %	1.346 %	1.561 %	-2.157 %	-4.607 %
Concentration RSD	83.5 %	92.3 %	21.2 %	6.9 %	145.8 %	206.8 %	13.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	-0.0042 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	0.0038 ppm	-0.0038 ppm	-0.0005 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	-0.0045 ppm	-0.0005 ppm	0.0001 ppm	0.0006 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	0.0023 ppm	-0.0043 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	0.0015 ppm	0.0001 ppm
Recovery Percentage 1	22.838 %	-0.842 %	-0.332 %	0.465 %	5.177 %	5.340 %	-0.766 %
Concentration RSD	65.2 %	9.4 %	325.0 %	239.0 %	11.3 %	43.7 %	155.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	92.0935 %	101.0079 %	93.0933 %	93.6609 %	101.5420 %	94.9669 %
Concentration per Run 1	0.0003 ppm	90.8165 %	100.4389 %	93.0142 %	92.6341 %	100.6702 %	95.1440 %
Concentration per Run 2	0.0005 ppm	92.6868 %	101.2520 %	93.2088 %	94.6842 %	101.7232 %	94.8967 %
Concentration per Run 3	0.0004 ppm	92.7772 %	101.3326 %	93.0570 %	93.6643 %	102.2326 %	94.8599 %
Recovery Percentage 1	7.602 %						
Concentration RSD	36.8 %	1.2 %	0.5 %	0.1 %	1.1 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-1 WG1976101
Analysis started at: 9/26/2024 8:52:13 PM
Rack 3
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0235 ppm
Concentration per Run 1	0.0003 ppm	-0.0056 ppm	0.0008 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0211 ppm
Concentration per Run 2	-0.0001 ppm	-0.0040 ppm	-0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0242 ppm
Concentration per Run 3	-0.0004 ppm	0.0039 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0251 ppm
Concentration RSD	697.8 %	264.9 %	12,676.1 %	797.3 %	189.8 %	1,138.2 %	8.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0101 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0002 ppm	0.0197 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0015 ppm	0.0092 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0005 ppm
Concentration RSD	174.4 %	152.0 %	122.1 %	110.5 %	130.5 %	91.4 %	264.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0216 ppm	-0.0001 ppm	-0.0005 ppm	-0.0017 ppm
Concentration per Run 1	0.0005 ppm	-0.0001 ppm	-0.0001 ppm	0.0218 ppm	0.0007 ppm	-0.0009 ppm	-0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0244 ppm	-0.0007 ppm	-0.0008 ppm	-0.0015 ppm
Concentration per Run 3	0.0021 ppm	-0.0002 ppm	-0.0002 ppm	0.0186 ppm	-0.0002 ppm	0.0003 ppm	-0.0019 ppm
Concentration RSD	102.2 %	725.1 %	418.3 %	13.5 %	1,357.4 %	143.9 %	10.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0007 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0006 ppm	-0.0007 ppm	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0003 ppm	-0.0013 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	-0.0003 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration RSD	156.0 %	67.9 %	487.3 %	57.4 %	66.1 %	160.2 %	165.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	97.2538 %	101.1370 %	97.0890 %	102.6418 %	103.6945 %	100.8947 %
Concentration per Run 1	0.0001 ppm	96.0842 %	100.9739 %	97.2947 %	102.4375 %	103.6854 %	101.7134 %
Concentration per Run 2	0.0004 ppm	97.0645 %	101.3552 %	96.8171 %	102.4818 %	103.8474 %	100.6695 %
Concentration per Run 3	0.0002 ppm	98.6128 %	101.0819 %	97.1551 %	103.0062 %	103.5507 %	100.3014 %
Concentration RSD	72.9 %	1.3 %	0.2 %	0.3 %	0.3 %	0.1 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-2 WG1976101
Analysis started at: 9/26/2024 8:56:32 PM
Rack 3
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0530 ppm	2.0539 ppm	0.1197 ppm	1.0031 ppm	2.0700 ppm	0.0527 ppm	10.3111 ppm
Concentration per Run 1	0.0537 ppm	2.0532 ppm	0.1210 ppm	1.0106 ppm	2.0805 ppm	0.0528 ppm	10.3596 ppm
Concentration per Run 2	0.0529 ppm	2.0572 ppm	0.1199 ppm	1.0028 ppm	2.0599 ppm	0.0527 ppm	10.2750 ppm
Concentration per Run 3	0.0525 ppm	2.0514 ppm	0.1183 ppm	0.9960 ppm	2.0696 ppm	0.0527 ppm	10.2989 ppm
Concentration RSD	1.2 %	0.1 %	1.2 %	0.7 %	0.5 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0556 ppm	0.5219 ppm	0.2077 ppm	0.2668 ppm	1.0576 ppm	10.7173 ppm	0.0003 ppm
Concentration per Run 1	0.0561 ppm	0.5273 ppm	0.2100 ppm	0.2691 ppm	1.0606 ppm	10.7860 ppm	0.0005 ppm
Concentration per Run 2	0.0557 ppm	0.5217 ppm	0.2079 ppm	0.2674 ppm	1.0545 ppm	10.6874 ppm	0.0011 ppm
Concentration per Run 3	0.0550 ppm	0.5169 ppm	0.2053 ppm	0.2639 ppm	1.0577 ppm	10.6784 ppm	-0.0008 ppm
Concentration RSD	1.0 %	1.0 %	1.1 %	1.0 %	0.3 %	0.6 %	375.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.3237 ppm	0.5246 ppm	0.9572 ppm	10.5290 ppm	0.5268 ppm	0.5527 ppm	0.4599 ppm
Concentration per Run 1	10.4618 ppm	0.5265 ppm	0.9605 ppm	10.5958 ppm	0.5344 ppm	0.5521 ppm	0.4612 ppm
Concentration per Run 2	10.3051 ppm	0.5235 ppm	0.9592 ppm	10.4674 ppm	0.5267 ppm	0.5518 ppm	0.4625 ppm
Concentration per Run 3	10.2041 ppm	0.5237 ppm	0.9518 ppm	10.5238 ppm	0.5193 ppm	0.5542 ppm	0.4561 ppm
Concentration RSD	1.3 %	0.3 %	0.5 %	0.6 %	1.4 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1248 ppm	0.8184 ppm	0.9718 ppm	0.9919 ppm	1.0375 ppm	0.1220 ppm	0.5317 ppm
Concentration per Run 1	0.1246 ppm	0.8274 ppm	0.9853 ppm	0.9899 ppm	1.0481 ppm	0.1225 ppm	0.5378 ppm
Concentration per Run 2	0.1249 ppm	0.8146 ppm	0.9705 ppm	0.9889 ppm	1.0363 ppm	0.1208 ppm	0.5303 ppm
Concentration per Run 3	0.1249 ppm	0.8132 ppm	0.9596 ppm	0.9967 ppm	1.0280 ppm	0.1227 ppm	0.5270 ppm
Concentration RSD	0.1 %	1.0 %	1.3 %	0.4 %	1.0 %	0.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5250 ppm	93.0470 %	104.1407 %	91.5306 %	92.3914 %	103.2301 %	93.8859 %
Concentration per Run 1	0.5312 ppm	91.9170 %	103.2097 %	91.4023 %	91.9526 %	102.5601 %	93.9686 %
Concentration per Run 2	0.5264 ppm	93.2728 %	104.5291 %	91.7558 %	92.5327 %	103.5672 %	93.7485 %
Concentration per Run 3	0.5172 ppm	93.9512 %	104.6835 %	91.4336 %	92.6889 %	103.5630 %	93.9405 %
Concentration RSD	1.4 %	1.1 %	0.8 %	0.2 %	0.4 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-03 WG1976101
Analysis started at: 9/26/2024 9:00:31 PM
Rack 3
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	1.5336 ppm	0.0031 ppm	0.1235 ppm	0.0126 ppm	0.0002 ppm	374.0012 ppm
Concentration per Run 1	-0.0007 ppm	1.5551 ppm	0.0020 ppm	0.1280 ppm	0.0126 ppm	0.0002 ppm	375.6475 ppm
Concentration per Run 2	-0.0004 ppm	1.5310 ppm	0.0037 ppm	0.1220 ppm	0.0125 ppm	0.0002 ppm	373.2061 ppm
Concentration per Run 3	-0.0004 ppm	1.5149 ppm	0.0035 ppm	0.1207 ppm	0.0125 ppm	0.0002 ppm	373.1499 ppm
Concentration RSD	39.6 %	1.3 %	30.3 %	3.1 %	0.5 %	4.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0018 ppm	0.0022 ppm	0.0027 ppm	0.0042 ppm	3.8165 ppm	3.7397 ppm	0.0707 ppm
Concentration per Run 1	-0.0019 ppm	0.0022 ppm	0.0028 ppm	0.0044 ppm	3.8393 ppm	3.7717 ppm	0.0713 ppm
Concentration per Run 2	-0.0017 ppm	0.0019 ppm	0.0025 ppm	0.0040 ppm	3.8113 ppm	3.7163 ppm	0.0703 ppm
Concentration per Run 3	-0.0018 ppm	0.0024 ppm	0.0029 ppm	0.0041 ppm	3.7991 ppm	3.7310 ppm	0.0705 ppm
Concentration RSD	6.2 %	12.1 %	6.6 %	4.9 %	0.5 %	0.8 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	427.5826 ppm	0.2709 ppm	0.0051 ppm	295.0713 ppm	0.0054 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	436.3712 ppm	0.2722 ppm	0.0048 ppm	295.3689 ppm	0.0059 ppm	0.0021 ppm	0.0003 ppm
Concentration per Run 2	426.5677 ppm	0.2704 ppm	0.0049 ppm	295.9434 ppm	0.0049 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 3	419.8091 ppm	0.2701 ppm	0.0055 ppm	293.9016 ppm	0.0053 ppm	0.0008 ppm	0.0011 ppm
Concentration RSD	1.9 %	0.4 %	7.1 %	0.4 %	9.8 %	62.8 %	270.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	9.5640 ppm	0.0011 ppm	2.8909 ppm	0.0230 ppm	-0.0011 ppm	0.0037 ppm
Concentration per Run 1	0.0002 ppm	9.7563 ppm	0.0009 ppm	2.9046 ppm	0.0240 ppm	-0.0003 ppm	0.0038 ppm
Concentration per Run 2	0.0029 ppm	9.5275 ppm	0.0017 ppm	2.8901 ppm	0.0224 ppm	-0.0024 ppm	0.0037 ppm
Concentration per Run 3	0.0003 ppm	9.4083 ppm	0.0006 ppm	2.8780 ppm	0.0227 ppm	-0.0007 ppm	0.0036 ppm
Concentration RSD	134.3 %	1.8 %	55.2 %	0.5 %	3.6 %	101.0 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0073 ppm	84.1964 %	103.7272 %	78.4574 %	83.4367 %	102.6328 %	83.4266 %
Concentration per Run 1	0.0073 ppm	82.7061 %	103.0187 %	78.4053 %	82.9459 %	102.2680 %	83.3529 %
Concentration per Run 2	0.0073 ppm	84.2963 %	104.1034 %	78.7218 %	83.2355 %	102.6393 %	83.8540 %
Concentration per Run 3	0.0073 ppm	85.5867 %	104.0596 %	78.2451 %	84.1287 %	102.9911 %	83.0729 %
Concentration RSD	0.4 %	1.7 %	0.6 %	0.3 %	0.7 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-04 WG1976101
Analysis started at: 9/26/2024 9:04:30 PM
Rack 3
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0578 ppm	0.0063 ppm	0.0423 ppm	0.0341 ppm	0.0001 ppm	136.1107 ppm
Concentration per Run 1	-0.0001 ppm	0.0603 ppm	0.0049 ppm	0.0435 ppm	0.0340 ppm	0.0001 ppm	136.1874 ppm
Concentration per Run 2	-0.0003 ppm	0.0597 ppm	0.0071 ppm	0.0425 ppm	0.0343 ppm	0.0001 ppm	135.9997 ppm
Concentration per Run 3	-0.0003 ppm	0.0534 ppm	0.0067 ppm	0.0408 ppm	0.0339 ppm	0.0001 ppm	136.1449 ppm
Concentration RSD	56.0 %	6.6 %	18.9 %	3.3 %	0.6 %	12.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0002 ppm	0.0001 ppm	0.0019 ppm	5.3180 ppm	2.1362 ppm	0.0126 ppm
Concentration per Run 1	-0.0007 ppm	-0.0003 ppm	0.0003 ppm	0.0018 ppm	5.3093 ppm	2.1567 ppm	0.0128 ppm
Concentration per Run 2	-0.0006 ppm	-0.0003 ppm	0.0001 ppm	0.0018 ppm	5.3080 ppm	2.1082 ppm	0.0122 ppm
Concentration per Run 3	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0021 ppm	5.3367 ppm	2.1437 ppm	0.0129 ppm
Concentration RSD	9.4 %	33.5 %	101.8 %	10.1 %	0.3 %	1.2 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.6041 ppm	0.0541 ppm	0.0011 ppm	37.2152 ppm	0.0003 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 1	23.1187 ppm	0.0544 ppm	0.0013 ppm	37.3222 ppm	0.0003 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 2	22.5077 ppm	0.0538 ppm	0.0008 ppm	37.1722 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	22.1858 ppm	0.0542 ppm	0.0012 ppm	37.1511 ppm	0.0002 ppm	-0.0003 ppm	-0.0035 ppm
Concentration RSD	2.1 %	0.6 %	24.9 %	0.3 %	17.6 %	6,751.2 %	157.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	5.5977 ppm	-0.0005 ppm	0.3751 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0021 ppm	5.7122 ppm	-0.0006 ppm	0.3779 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0016 ppm	5.5925 ppm	-0.0004 ppm	0.3736 ppm	0.0001 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0029 ppm	5.4883 ppm	-0.0005 ppm	0.3738 ppm	0.0005 ppm	0.0009 ppm	-0.0001 ppm
Concentration RSD	29.9 %	2.0 %	27.1 %	0.6 %	98.9 %	76.7 %	13,666.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	89.2421 %	103.8232 %	88.0081 %	91.2634 %	103.9730 %	91.6473 %
Concentration per Run 1	0.0009 ppm	87.4279 %	104.0004 %	87.7520 %	90.6798 %	104.3689 %	91.9562 %
Concentration per Run 2	0.0009 ppm	89.6429 %	103.7214 %	88.4073 %	91.2836 %	104.1079 %	91.7798 %
Concentration per Run 3	0.0014 ppm	90.6556 %	103.7479 %	87.8648 %	91.8267 %	103.4422 %	91.2060 %
Concentration RSD	26.0 %	1.8 %	0.1 %	0.4 %	0.6 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-05 WG1976101
Analysis started at: 9/26/2024 9:11:11 PM
Rack 3
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1984 ppm	0.0004 ppm	0.0152 ppm	0.0832 ppm	0.0000 ppm	170.3039 ppm
Concentration per Run 1	-0.0002 ppm	0.1974 ppm	-0.0006 ppm	0.0153 ppm	0.0833 ppm	0.0001 ppm	171.2211 ppm
Concentration per Run 2	-0.0005 ppm	0.1959 ppm	0.0013 ppm	0.0149 ppm	0.0831 ppm	0.0000 ppm	170.1928 ppm
Concentration per Run 3	-0.0001 ppm	0.2020 ppm	0.0005 ppm	0.0154 ppm	0.0833 ppm	0.0000 ppm	169.4978 ppm
Concentration RSD	66.8 %	1.6 %	219.2 %	1.8 %	0.2 %	58.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.3255 ppm	1.2383 ppm	0.0206 ppm
Concentration per Run 1	-0.0007 ppm	0.0003 ppm	0.0002 ppm	0.0009 ppm	0.3278 ppm	1.2563 ppm	0.0225 ppm
Concentration per Run 2	-0.0006 ppm	-0.0003 ppm	0.0005 ppm	0.0007 ppm	0.3242 ppm	1.2312 ppm	0.0196 ppm
Concentration per Run 3	-0.0007 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.3244 ppm	1.2275 ppm	0.0196 ppm
Concentration RSD	6.8 %	343.2 %	58.7 %	18.7 %	0.6 %	1.3 %	8.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.0960 ppm	0.1816 ppm	0.0004 ppm	16.4845 ppm	0.0014 ppm	-0.0004 ppm	-0.0014 ppm
Concentration per Run 1	37.5570 ppm	0.1832 ppm	0.0008 ppm	16.5120 ppm	0.0018 ppm	-0.0001 ppm	-0.0018 ppm
Concentration per Run 2	37.0233 ppm	0.1813 ppm	0.0000 ppm	16.3929 ppm	0.0016 ppm	-0.0002 ppm	-0.0018 ppm
Concentration per Run 3	36.7077 ppm	0.1804 ppm	0.0005 ppm	16.5484 ppm	0.0008 ppm	-0.0008 ppm	-0.0007 ppm
Concentration RSD	1.2 %	0.8 %	96.4 %	0.5 %	36.4 %	101.1 %	45.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	8.1594 ppm	-0.0010 ppm	0.5124 ppm	0.0033 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	8.2664 ppm	-0.0018 ppm	0.5142 ppm	0.0033 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0027 ppm	8.1377 ppm	-0.0010 ppm	0.5106 ppm	0.0030 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0039 ppm	8.0742 ppm	-0.0002 ppm	0.5123 ppm	0.0036 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	91.1 %	1.2 %	79.5 %	0.4 %	9.6 %	10,756.6 %	19.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0048 ppm	95.8727 %	103.5464 %	89.9069 %	97.9165 %	103.8682 %	95.1001 %
Concentration per Run 1	0.0049 ppm	94.9774 %	102.9082 %	89.9943 %	98.0126 %	103.7272 %	95.5861 %
Concentration per Run 2	0.0048 ppm	96.2546 %	102.9335 %	89.6225 %	98.3089 %	102.9792 %	94.5675 %
Concentration per Run 3	0.0047 ppm	96.3861 %	104.7975 %	90.1040 %	97.4279 %	104.8982 %	95.1467 %
Concentration RSD	1.4 %	0.8 %	1.0 %	0.3 %	0.5 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-02 WG1976101
Analysis started at: 9/26/2024 9:15:32 PM
Rack 3
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	1.3652 ppm	0.0196 ppm	0.1448 ppm	0.0152 ppm	0.0001 ppm	407.3471 ppm
Concentration per Run 1	0.0000 ppm	1.3751 ppm	0.0209 ppm	0.1453 ppm	0.0153 ppm	0.0001 ppm	408.9647 ppm
Concentration per Run 2	0.0001 ppm	1.3700 ppm	0.0191 ppm	0.1448 ppm	0.0151 ppm	0.0001 ppm	409.2727 ppm
Concentration per Run 3	-0.0004 ppm	1.3505 ppm	0.0187 ppm	0.1444 ppm	0.0152 ppm	0.0001 ppm	403.8040 ppm
Concentration RSD	270.5 %	1.0 %	6.0 %	0.3 %	0.5 %	13.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0042 ppm	0.0016 ppm	0.0040 ppm	8.4027 ppm	3.7957 ppm	0.0992 ppm
Concentration per Run 1	-0.0021 ppm	0.0046 ppm	0.0017 ppm	0.0042 ppm	8.4391 ppm	3.8272 ppm	0.1017 ppm
Concentration per Run 2	-0.0020 ppm	0.0042 ppm	0.0014 ppm	0.0039 ppm	8.4345 ppm	3.8062 ppm	0.0986 ppm
Concentration per Run 3	-0.0019 ppm	0.0037 ppm	0.0018 ppm	0.0039 ppm	8.3345 ppm	3.7535 ppm	0.0973 ppm
Concentration RSD	3.3 %	10.0 %	11.6 %	5.1 %	0.7 %	1.0 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	176.5446 ppm	1.0056 ppm	0.0010 ppm	331.9952 ppm	0.0075 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 1	179.7287 ppm	1.0073 ppm	0.0007 ppm	333.1368 ppm	0.0080 ppm	0.0020 ppm	0.0006 ppm
Concentration per Run 2	175.7067 ppm	1.0113 ppm	0.0013 ppm	332.4655 ppm	0.0076 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 3	174.1983 ppm	0.9981 ppm	0.0010 ppm	330.3832 ppm	0.0070 ppm	0.0011 ppm	-0.0002 ppm
Concentration RSD	1.6 %	0.7 %	30.3 %	0.4 %	7.1 %	30.9 %	148.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	12.2550 ppm	-0.0011 ppm	3.7336 ppm	0.0203 ppm	-0.0005 ppm	0.0023 ppm
Concentration per Run 1	-0.0015 ppm	12.4620 ppm	-0.0013 ppm	3.7514 ppm	0.0208 ppm	-0.0007 ppm	0.0023 ppm
Concentration per Run 2	0.0031 ppm	12.2221 ppm	-0.0010 ppm	3.7392 ppm	0.0197 ppm	-0.0004 ppm	0.0024 ppm
Concentration per Run 3	0.0018 ppm	12.0808 ppm	-0.0009 ppm	3.7101 ppm	0.0203 ppm	-0.0003 ppm	0.0023 ppm
Concentration RSD	217.3 %	1.6 %	19.3 %	0.6 %	2.7 %	48.7 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0119 ppm	87.5386 %	105.0361 %	81.3171 %	86.6686 %	104.3708 %	86.4708 %
Concentration per Run 1	0.0123 ppm	85.9935 %	105.1539 %	80.6847 %	86.0316 %	104.6548 %	86.2702 %
Concentration per Run 2	0.0118 ppm	87.9836 %	103.5673 %	81.6817 %	86.8823 %	102.9682 %	86.7598 %
Concentration per Run 3	0.0116 ppm	88.6387 %	106.3869 %	81.5850 %	87.0918 %	105.4895 %	86.3825 %
Concentration RSD	2.9 %	1.6 %	1.3 %	0.7 %	0.6 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-3 WG1976101
Analysis started at: 9/26/2024 9:19:33 PM
Rack 3
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0547 ppm	3.4246 ppm	0.1506 ppm	1.1323 ppm	2.0640 ppm	0.0503 ppm	416.3349 ppm
Concentration per Run 1	0.0555 ppm	3.4419 ppm	0.1524 ppm	1.1477 ppm	2.0759 ppm	0.0505 ppm	416.1171 ppm
Concentration per Run 2	0.0540 ppm	3.4351 ppm	0.1492 ppm	1.1258 ppm	2.0654 ppm	0.0504 ppm	418.0759 ppm
Concentration per Run 3	0.0545 ppm	3.3969 ppm	0.1502 ppm	1.1234 ppm	2.0506 ppm	0.0501 ppm	414.8118 ppm
Concentration RSD	1.4 %	0.7 %	1.1 %	1.2 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0471 ppm	0.4784 ppm	0.1941 ppm	0.2743 ppm	9.4204 ppm	14.8989 ppm	0.1016 ppm
Concentration per Run 1	0.0482 ppm	0.4850 ppm	0.1971 ppm	0.2755 ppm	9.4126 ppm	14.9405 ppm	0.1039 ppm
Concentration per Run 2	0.0465 ppm	0.4750 ppm	0.1931 ppm	0.2741 ppm	9.4336 ppm	14.9135 ppm	0.1015 ppm
Concentration per Run 3	0.0466 ppm	0.4751 ppm	0.1920 ppm	0.2734 ppm	9.4151 ppm	14.8427 ppm	0.0995 ppm
Concentration RSD	2.1 %	1.2 %	1.4 %	0.4 %	0.1 %	0.3 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	184.1112 ppm	1.4931 ppm	0.8553 ppm	342.7443 ppm	0.4854 ppm	0.5347 ppm	0.4858 ppm
Concentration per Run 1	187.6580 ppm	1.4938 ppm	0.8646 ppm	342.6907 ppm	0.4927 ppm	0.5363 ppm	0.4888 ppm
Concentration per Run 2	182.6716 ppm	1.4988 ppm	0.8477 ppm	343.8275 ppm	0.4823 ppm	0.5322 ppm	0.4835 ppm
Concentration per Run 3	182.0039 ppm	1.4866 ppm	0.8536 ppm	341.7146 ppm	0.4814 ppm	0.5354 ppm	0.4851 ppm
Concentration RSD	1.7 %	0.4 %	1.0 %	0.3 %	1.3 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1417 ppm	13.1477 ppm	0.8564 ppm	4.6960 ppm	1.0390 ppm	0.1172 ppm	0.5151 ppm
Concentration per Run 1	0.1426 ppm	13.3442 ppm	0.8670 ppm	4.7065 ppm	1.0493 ppm	0.1163 ppm	0.5208 ppm
Concentration per Run 2	0.1396 ppm	13.0603 ppm	0.8499 ppm	4.6976 ppm	1.0363 ppm	0.1170 ppm	0.5134 ppm
Concentration per Run 3	0.1429 ppm	13.0385 ppm	0.8521 ppm	4.6837 ppm	1.0315 ppm	0.1182 ppm	0.5111 ppm
Concentration RSD	1.3 %	1.3 %	1.1 %	0.2 %	0.9 %	0.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4742 ppm	89.1679 %	105.8231 %	80.4298 %	87.4111 %	104.8946 %	86.5885 %
Concentration per Run 1	0.4843 ppm	87.7740 %	106.1571 %	80.2530 %	86.6884 %	105.1222 %	86.4979 %
Concentration per Run 2	0.4691 ppm	89.6190 %	104.8972 %	80.8559 %	87.7422 %	104.1238 %	86.8048 %
Concentration per Run 3	0.4693 ppm	90.1109 %	106.4150 %	80.1804 %	87.8027 %	105.4379 %	86.4627 %
Concentration RSD	1.8 %	1.4 %	0.8 %	0.5 %	0.7 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-4 WG1976101
Analysis started at: 9/26/2024 9:23:32 PM
Rack 3
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	1.3607 ppm	0.0204 ppm	0.1459 ppm	0.0157 ppm	0.0001 ppm	407.9833 ppm
Concentration per Run 1	-0.0003 ppm	1.3597 ppm	0.0194 ppm	0.1507 ppm	0.0156 ppm	0.0001 ppm	408.5390 ppm
Concentration per Run 2	-0.0002 ppm	1.3607 ppm	0.0206 ppm	0.1433 ppm	0.0157 ppm	0.0001 ppm	406.7516 ppm
Concentration per Run 3	0.0000 ppm	1.3618 ppm	0.0212 ppm	0.1437 ppm	0.0157 ppm	0.0002 ppm	408.6591 ppm
Concentration RSD	70.3 %	0.1 %	4.6 %	2.9 %	0.1 %	18.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0042 ppm	0.0017 ppm	0.0041 ppm	8.4341 ppm	3.8260 ppm	0.1004 ppm
Concentration per Run 1	-0.0020 ppm	0.0041 ppm	0.0017 ppm	0.0041 ppm	8.4138 ppm	3.8401 ppm	0.1035 ppm
Concentration per Run 2	-0.0019 ppm	0.0040 ppm	0.0015 ppm	0.0041 ppm	8.4260 ppm	3.8164 ppm	0.0980 ppm
Concentration per Run 3	-0.0019 ppm	0.0044 ppm	0.0019 ppm	0.0041 ppm	8.4625 ppm	3.8214 ppm	0.0997 ppm
Concentration RSD	3.1 %	5.7 %	9.2 %	0.7 %	0.3 %	0.3 %	2.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	177.6305 ppm	1.0056 ppm	0.0049 ppm	333.3498 ppm	0.0075 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 1	180.8315 ppm	0.9995 ppm	0.0048 ppm	333.1941 ppm	0.0076 ppm	0.0021 ppm	0.0018 ppm
Concentration per Run 2	177.6093 ppm	1.0043 ppm	0.0052 ppm	333.3877 ppm	0.0080 ppm	0.0012 ppm	-0.0012 ppm
Concentration per Run 3	174.4507 ppm	1.0129 ppm	0.0047 ppm	333.4676 ppm	0.0069 ppm	0.0000 ppm	0.0017 ppm
Concentration RSD	1.8 %	0.7 %	6.2 %	0.0 %	7.1 %	95.0 %	223.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	12.3413 ppm	0.0022 ppm	3.7356 ppm	0.0211 ppm	0.0004 ppm	0.0022 ppm
Concentration per Run 1	-0.0003 ppm	12.5192 ppm	0.0021 ppm	3.7274 ppm	0.0208 ppm	0.0006 ppm	0.0022 ppm
Concentration per Run 2	0.0012 ppm	12.3007 ppm	0.0024 ppm	3.7244 ppm	0.0206 ppm	0.0008 ppm	0.0022 ppm
Concentration per Run 3	0.0013 ppm	12.2040 ppm	0.0021 ppm	3.7549 ppm	0.0219 ppm	-0.0002 ppm	0.0022 ppm
Concentration RSD	124.0 %	1.3 %	8.2 %	0.5 %	3.2 %	132.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0119 ppm	87.7992 %	106.3329 %	81.0974 %	86.9234 %	105.5363 %	86.5240 %
Concentration per Run 1	0.0118 ppm	86.3843 %	105.4036 %	81.0229 %	86.2881 %	104.9006 %	86.7963 %
Concentration per Run 2	0.0122 ppm	87.8617 %	107.4905 %	81.1230 %	86.7593 %	106.3892 %	86.3016 %
Concentration per Run 3	0.0118 ppm	89.1516 %	106.1046 %	81.1463 %	87.7230 %	105.3193 %	86.4740 %
Concentration RSD	1.7 %	1.6 %	1.0 %	0.1 %	0.8 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-5 WG1976101
Analysis started at: 9/26/2024 9:27:32 PM
Rack 3
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0517 ppm	3.2473 ppm	0.1436 ppm	1.0849 ppm	1.9842 ppm	0.0479 ppm	403.0408 ppm
Concentration per Run 1	0.0524 ppm	3.2575 ppm	0.1443 ppm	1.0999 ppm	1.9901 ppm	0.0480 ppm	403.4709 ppm
Concentration per Run 2	0.0512 ppm	3.2489 ppm	0.1423 ppm	1.0839 ppm	1.9907 ppm	0.0478 ppm	402.3443 ppm
Concentration per Run 3	0.0515 ppm	3.2354 ppm	0.1443 ppm	1.0710 ppm	1.9719 ppm	0.0480 ppm	403.3072 ppm
Concentration RSD	1.2 %	0.3 %	0.8 %	1.3 %	0.5 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0439 ppm	0.4536 ppm	0.1837 ppm	0.2600 ppm	9.1144 ppm	14.3043 ppm	0.0977 ppm
Concentration per Run 1	0.0448 ppm	0.4620 ppm	0.1873 ppm	0.2624 ppm	9.1511 ppm	14.3907 ppm	0.0986 ppm
Concentration per Run 2	0.0437 ppm	0.4513 ppm	0.1829 ppm	0.2600 ppm	9.1141 ppm	14.2875 ppm	0.0965 ppm
Concentration per Run 3	0.0432 ppm	0.4476 ppm	0.1811 ppm	0.2577 ppm	9.0779 ppm	14.2346 ppm	0.0980 ppm
Concentration RSD	1.9 %	1.7 %	1.7 %	0.9 %	0.4 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	177.9211 ppm	1.4371 ppm	0.8222 ppm	330.9127 ppm	0.4586 ppm	0.5046 ppm	0.3992 ppm
Concentration per Run 1	181.3520 ppm	1.4380 ppm	0.8314 ppm	330.8510 ppm	0.4668 ppm	0.5072 ppm	0.4001 ppm
Concentration per Run 2	176.7299 ppm	1.4391 ppm	0.8185 ppm	331.4609 ppm	0.4560 ppm	0.5042 ppm	0.3981 ppm
Concentration per Run 3	175.6814 ppm	1.4341 ppm	0.8167 ppm	330.4263 ppm	0.4530 ppm	0.5025 ppm	0.3993 ppm
Concentration RSD	1.7 %	0.2 %	1.0 %	0.2 %	1.6 %	0.5 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1334 ppm	12.2517 ppm	0.8446 ppm	4.5550 ppm	0.9985 ppm	0.1126 ppm	0.4882 ppm
Concentration per Run 1	0.1346 ppm	12.4322 ppm	0.8592 ppm	4.5642 ppm	1.0126 ppm	0.1130 ppm	0.4945 ppm
Concentration per Run 2	0.1352 ppm	12.1920 ppm	0.8403 ppm	4.5508 ppm	0.9935 ppm	0.1132 ppm	0.4865 ppm
Concentration per Run 3	0.1305 ppm	12.1310 ppm	0.8343 ppm	4.5502 ppm	0.9893 ppm	0.1115 ppm	0.4835 ppm
Concentration RSD	1.9 %	1.3 %	1.5 %	0.2 %	1.2 %	0.8 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4479 ppm	89.8535 %	106.9966 %	81.1083 %	88.0429 %	105.8020 %	87.1027 %
Concentration per Run 1	0.4571 ppm	88.4367 %	107.1156 %	80.5805 %	87.2462 %	106.2338 %	86.6595 %
Concentration per Run 2	0.4444 ppm	90.4967 %	107.7278 %	81.0904 %	88.7204 %	106.3209 %	87.3892 %
Concentration per Run 3	0.4422 ppm	90.6271 %	106.1464 %	81.6539 %	88.1620 %	104.8513 %	87.2595 %
Concentration RSD	1.8 %	1.4 %	0.7 %	0.7 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-6d5 WG1976101
Analysis started at: 9/26/2024 9:31:32 PM
Rack 3
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.2686 ppm	0.0045 ppm	0.0303 ppm	0.0031 ppm	0.0000 ppm	84.5342 ppm
Concentration per Run 1	0.0000 ppm	0.2669 ppm	0.0040 ppm	0.0305 ppm	0.0030 ppm	0.0000 ppm	84.2250 ppm
Concentration per Run 2	-0.0003 ppm	0.2701 ppm	0.0053 ppm	0.0294 ppm	0.0031 ppm	0.0000 ppm	84.8906 ppm
Concentration per Run 3	0.0005 ppm	0.2688 ppm	0.0043 ppm	0.0310 ppm	0.0031 ppm	0.0001 ppm	84.4870 ppm
Concentration RSD	537.4 %	0.6 %	15.0 %	2.8 %	1.3 %	32.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0006 ppm	0.0004 ppm	0.0015 ppm	1.6975 ppm	0.7964 ppm	0.0209 ppm
Concentration per Run 1	-0.0004 ppm	0.0008 ppm	0.0002 ppm	0.0017 ppm	1.6907 ppm	0.8062 ppm	0.0213 ppm
Concentration per Run 2	-0.0004 ppm	0.0005 ppm	0.0007 ppm	0.0014 ppm	1.6993 ppm	0.7842 ppm	0.0201 ppm
Concentration per Run 3	-0.0004 ppm	0.0004 ppm	0.0004 ppm	0.0015 ppm	1.7026 ppm	0.7987 ppm	0.0212 ppm
Concentration RSD	4.4 %	34.1 %	51.3 %	9.5 %	0.4 %	1.4 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.1325 ppm	0.2027 ppm	0.0068 ppm	67.9678 ppm	0.0020 ppm	0.0001 ppm	0.0073 ppm
Concentration per Run 1	35.5636 ppm	0.2017 ppm	0.0064 ppm	67.7777 ppm	0.0023 ppm	0.0003 ppm	0.0071 ppm
Concentration per Run 2	34.9227 ppm	0.2036 ppm	0.0067 ppm	68.2126 ppm	0.0016 ppm	-0.0001 ppm	0.0076 ppm
Concentration per Run 3	34.9113 ppm	0.2026 ppm	0.0072 ppm	67.9129 ppm	0.0021 ppm	0.0001 ppm	0.0071 ppm
Concentration RSD	1.1 %	0.5 %	6.1 %	0.3 %	17.9 %	235.2 %	3.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	2.2874 ppm	0.0097 ppm	0.7389 ppm	0.0042 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 1	-0.0010 ppm	2.3111 ppm	0.0096 ppm	0.7378 ppm	0.0043 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0023 ppm	2.2805 ppm	0.0099 ppm	0.7418 ppm	0.0042 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	2.2706 ppm	0.0095 ppm	0.7370 ppm	0.0041 ppm	-0.0005 ppm	0.0005 ppm
Concentration RSD	672.1 %	0.9 %	2.2 %	0.3 %	1.9 %	177.3 %	26.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0029 ppm	93.0985 %	105.8721 %	90.4612 %	91.0664 %	104.9574 %	92.3417 %
Concentration per Run 1	0.0030 ppm	91.8277 %	106.5465 %	89.8786 %	90.2141 %	105.4541 %	92.2020 %
Concentration per Run 2	0.0029 ppm	93.8675 %	104.8500 %	90.4115 %	91.7095 %	103.9290 %	92.0318 %
Concentration per Run 3	0.0029 ppm	93.6004 %	106.2197 %	91.0935 %	91.2755 %	105.4892 %	92.7914 %
Concentration RSD	1.9 %	1.2 %	0.9 %	0.7 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 9:35:32 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4957 ppm	0.4888 ppm	0.4738 ppm	0.4844 ppm	0.5080 ppm	0.5115 ppm	0.4950 ppm
Concentration per Run 1	0.4967 ppm	0.4894 ppm	0.4761 ppm	0.4859 ppm	0.5071 ppm	0.5091 ppm	0.4949 ppm
Concentration per Run 2	0.4956 ppm	0.4882 ppm	0.4757 ppm	0.4817 ppm	0.5091 ppm	0.5122 ppm	0.4934 ppm
Concentration per Run 3	0.4948 ppm	0.4889 ppm	0.4696 ppm	0.4855 ppm	0.5079 ppm	0.5131 ppm	0.4967 ppm
Recovery Percentage 1	99.139 %	97.766 %	94.760 %	96.873 %	101.609 %	102.294 %	99.000 %
Concentration RSD	0.2 %	0.1 %	0.8 %	0.5 %	0.2 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4876 ppm	0.5000 ppm	0.4866 ppm	0.4858 ppm	0.5135 ppm	5.2826 ppm	0.4968 ppm
Concentration per Run 1	0.4898 ppm	0.5007 ppm	0.4870 ppm	0.4865 ppm	0.5121 ppm	5.3242 ppm	0.5019 ppm
Concentration per Run 2	0.4861 ppm	0.4991 ppm	0.4860 ppm	0.4858 ppm	0.5135 ppm	5.2608 ppm	0.4936 ppm
Concentration per Run 3	0.4870 ppm	0.5001 ppm	0.4868 ppm	0.4851 ppm	0.5150 ppm	5.2629 ppm	0.4948 ppm
Recovery Percentage 1	97.522 %	99.993 %	97.323 %	97.161 %	102.707 %	105.653 %	99.356 %
Concentration RSD	0.4 %	0.2 %	0.1 %	0.1 %	0.3 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4788 ppm	0.4962 ppm	0.4896 ppm	10.1314 ppm	0.4996 ppm	0.4920 ppm	0.4914 ppm
Concentration per Run 1	0.4793 ppm	0.4956 ppm	0.4885 ppm	10.1096 ppm	0.5005 ppm	0.4938 ppm	0.4927 ppm
Concentration per Run 2	0.4751 ppm	0.4962 ppm	0.4879 ppm	10.1375 ppm	0.5012 ppm	0.4932 ppm	0.4946 ppm
Concentration per Run 3	0.4820 ppm	0.4967 ppm	0.4923 ppm	10.1470 ppm	0.4971 ppm	0.4891 ppm	0.4869 ppm
Recovery Percentage 1	95.759 %	99.233 %	97.916 %	101.314 %	99.918 %	98.405 %	98.287 %
Concentration RSD	0.7 %	0.1 %	0.5 %	0.2 %	0.4 %	0.5 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4926 ppm	5.4478 ppm	0.4734 ppm	0.4852 ppm	0.4977 ppm	0.4836 ppm	0.4912 ppm
Concentration per Run 1	0.4971 ppm	5.4462 ppm	0.4750 ppm	0.4835 ppm	0.5005 ppm	0.4867 ppm	0.4928 ppm
Concentration per Run 2	0.4937 ppm	5.4490 ppm	0.4738 ppm	0.4852 ppm	0.4956 ppm	0.4852 ppm	0.4909 ppm
Concentration per Run 3	0.4870 ppm	5.4481 ppm	0.4714 ppm	0.4870 ppm	0.4969 ppm	0.4791 ppm	0.4899 ppm
Recovery Percentage 1	98.522 %	103.767 %	94.678 %	97.039 %	99.531 %	96.728 %	98.248 %
Concentration RSD	1.0 %	0.0 %	0.4 %	0.4 %	0.5 %	0.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4864 ppm	98.3673 %	107.0550 %	94.8894 %	95.0535 %	105.8442 %	95.6480 %
Concentration per Run 1	0.4873 ppm	97.8119 %	108.1253 %	94.7377 %	94.7630 %	106.7822 %	95.5639 %
Concentration per Run 2	0.4858 ppm	98.7093 %	106.8053 %	95.4053 %	95.0863 %	105.8086 %	96.1833 %
Concentration per Run 3	0.4859 ppm	98.5807 %	106.2345 %	94.5253 %	95.3110 %	104.9420 %	95.1966 %
Recovery Percentage 1	97.271 %						
Concentration RSD	0.2 %	0.5 %	0.9 %	0.5 %	0.3 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 9:39:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0008 ppm	-0.0011 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0004 ppm	0.0073 ppm	-0.0011 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	0.0004 ppm	-0.0092 ppm	-0.0007 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0044 ppm	-0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	3.353 %	0.814 %	-36.294 %	3.257 %	-0.286 %	0.371 %	1.129 %
Concentration RSD	138.4 %	1,081.5 %	32.6 %	84.4 %	375.0 %	152.4 %	49.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0004 ppm	0.0015 ppm	0.0027 ppm	0.0341 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0006 ppm	0.0016 ppm	0.0020 ppm	0.0392 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0014 ppm	0.0027 ppm	0.0289 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0014 ppm	0.0033 ppm	0.0343 ppm	0.0011 ppm
Recovery Percentage 1	0.018 %	-2.463 %	3.651 %	14.707 %	5.362 %	1.365 %	9.413 %
Concentration RSD	3,203.4 %	43.6 %	88.9 %	6.0 %	24.3 %	15.0 %	118.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0001 ppm	0.0023 ppm	0.0414 ppm	-0.0002 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0025 ppm	-0.0001 ppm	0.0025 ppm	0.0455 ppm	-0.0001 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 2	-0.0007 ppm	0.0003 ppm	0.0018 ppm	0.0425 ppm	-0.0004 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 3	0.0018 ppm	0.0000 ppm	0.0024 ppm	0.0363 ppm	-0.0001 ppm	-0.0014 ppm	-0.0007 ppm
Recovery Percentage 1	1.180 %	0.610 %	4.531 %	2.071 %	-0.694 %	-8.775 %	0.474 %
Concentration RSD	142.5 %	285.0 %	16.2 %	11.4 %	105.6 %	57.4 %	344.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	-0.0047 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0031 ppm	-0.0042 ppm	0.0017 ppm	0.0001 ppm	0.0002 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	0.0024 ppm	-0.0043 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0020 ppm	-0.0056 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	24.757 %	-0.936 %	3.878 %	0.106 %	0.955 %	1.054 %	-0.156 %
Concentration RSD	22.2 %	16.2 %	26.6 %	643.0 %	70.0 %	354.1 %	322.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	92.1892 %	102.3732 %	93.6566 %	93.7839 %	104.0039 %	96.1764 %
Concentration per Run 1	0.0003 ppm	90.6511 %	102.2889 %	93.2221 %	92.9571 %	103.9272 %	96.0842 %
Concentration per Run 2	0.0005 ppm	92.2008 %	102.1210 %	93.5247 %	93.6041 %	103.8838 %	96.2231 %
Concentration per Run 3	0.0004 ppm	93.7157 %	102.7097 %	94.2230 %	94.7905 %	104.2007 %	96.2219 %
Recovery Percentage 1	8.298 %						
Concentration RSD	29.0 %	1.7 %	0.3 %	0.5 %	1.0 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1975278-2 WG1975278
Analysis started at: 9/26/2024 9:45:54 PM
Rack 3
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0547 ppm	2.0967 ppm	0.1235 ppm	1.0231 ppm	2.1586 ppm	0.0538 ppm	10.6181 ppm
Concentration per Run 1	0.0549 ppm	2.1038 ppm	0.1240 ppm	1.0260 ppm	2.1561 ppm	0.0537 ppm	10.6443 ppm
Concentration per Run 2	0.0545 ppm	2.0902 ppm	0.1244 ppm	1.0218 ppm	2.1592 ppm	0.0540 ppm	10.6303 ppm
Concentration per Run 3	0.0545 ppm	2.0960 ppm	0.1222 ppm	1.0216 ppm	2.1605 ppm	0.0537 ppm	10.5796 ppm
Concentration RSD	0.5 %	0.3 %	0.9 %	0.2 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0552 ppm	0.5291 ppm	0.2097 ppm	0.2689 ppm	1.0796 ppm	11.2195 ppm	0.0007 ppm
Concentration per Run 1	0.0555 ppm	0.5339 ppm	0.2108 ppm	0.2704 ppm	1.0815 ppm	11.2759 ppm	0.0012 ppm
Concentration per Run 2	0.0551 ppm	0.5258 ppm	0.2088 ppm	0.2678 ppm	1.0819 ppm	11.2766 ppm	-0.0001 ppm
Concentration per Run 3	0.0551 ppm	0.5277 ppm	0.2096 ppm	0.2684 ppm	1.0755 ppm	11.1060 ppm	0.0011 ppm
Concentration RSD	0.5 %	0.8 %	0.5 %	0.5 %	0.3 %	0.9 %	99.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4992 ppm	0.5367 ppm	0.9818 ppm	10.9932 ppm	0.5349 ppm	0.5639 ppm	0.4752 ppm
Concentration per Run 1	10.5934 ppm	0.5361 ppm	0.9817 ppm	11.0193 ppm	0.5390 ppm	0.5646 ppm	0.4789 ppm
Concentration per Run 2	10.4645 ppm	0.5375 ppm	0.9738 ppm	10.9910 ppm	0.5315 ppm	0.5638 ppm	0.4723 ppm
Concentration per Run 3	10.4397 ppm	0.5363 ppm	0.9899 ppm	10.9692 ppm	0.5342 ppm	0.5632 ppm	0.4743 ppm
Concentration RSD	0.8 %	0.1 %	0.8 %	0.2 %	0.7 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1285 ppm	0.7631 ppm	0.9935 ppm	1.0268 ppm	1.0745 ppm	0.1231 ppm	0.5368 ppm
Concentration per Run 1	0.1289 ppm	0.7660 ppm	0.9969 ppm	1.0253 ppm	1.0814 ppm	0.1221 ppm	0.5401 ppm
Concentration per Run 2	0.1287 ppm	0.7604 ppm	0.9865 ppm	1.0313 ppm	1.0717 ppm	0.1234 ppm	0.5360 ppm
Concentration per Run 3	0.1279 ppm	0.7628 ppm	0.9971 ppm	1.0238 ppm	1.0704 ppm	0.1238 ppm	0.5344 ppm
Concentration RSD	0.4 %	0.4 %	0.6 %	0.4 %	0.6 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5272 ppm	95.5759 %	106.1594 %	92.5901 %	94.0026 %	105.6262 %	94.8722 %
Concentration per Run 1	0.5332 ppm	94.9697 %	105.6047 %	92.7714 %	94.1050 %	105.0750 %	95.0014 %
Concentration per Run 2	0.5247 ppm	95.7199 %	105.6301 %	92.3765 %	93.9965 %	104.8130 %	95.2059 %
Concentration per Run 3	0.5236 ppm	96.0382 %	107.2434 %	92.6224 %	93.9064 %	106.9906 %	94.4093 %
Concentration RSD	1.0 %	0.6 %	0.9 %	0.2 %	0.1 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 9:50:10 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4924 ppm	0.4832 ppm	0.4662 ppm	0.4795 ppm	0.5072 ppm	0.5083 ppm	0.4875 ppm
Concentration per Run 1	0.4924 ppm	0.4863 ppm	0.4673 ppm	0.4787 ppm	0.5093 ppm	0.5089 ppm	0.4877 ppm
Concentration per Run 2	0.4925 ppm	0.4794 ppm	0.4633 ppm	0.4801 ppm	0.5054 ppm	0.5086 ppm	0.4891 ppm
Concentration per Run 3	0.4922 ppm	0.4839 ppm	0.4679 ppm	0.4798 ppm	0.5068 ppm	0.5072 ppm	0.4858 ppm
Recovery Percentage 1	98.478 %	96.637 %	93.232 %	95.908 %	101.430 %	101.650 %	97.505 %
Concentration RSD	0.0 %	0.7 %	0.5 %	0.2 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4856 ppm	0.4968 ppm	0.4850 ppm	0.4815 ppm	0.5062 ppm	5.2509 ppm	0.4926 ppm
Concentration per Run 1	0.4854 ppm	0.4956 ppm	0.4856 ppm	0.4816 ppm	0.5057 ppm	5.2872 ppm	0.4957 ppm
Concentration per Run 2	0.4859 ppm	0.4995 ppm	0.4829 ppm	0.4829 ppm	0.5058 ppm	5.2448 ppm	0.4902 ppm
Concentration per Run 3	0.4854 ppm	0.4954 ppm	0.4865 ppm	0.4799 ppm	0.5070 ppm	5.2208 ppm	0.4917 ppm
Recovery Percentage 1	97.116 %	99.369 %	96.999 %	96.295 %	101.233 %	105.019 %	98.513 %
Concentration RSD	0.1 %	0.5 %	0.4 %	0.3 %	0.1 %	0.6 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4777 ppm	0.4924 ppm	0.4921 ppm	10.0244 ppm	0.4967 ppm	0.4857 ppm	0.4957 ppm
Concentration per Run 1	0.4785 ppm	0.4923 ppm	0.4884 ppm	10.0220 ppm	0.4987 ppm	0.4861 ppm	0.4948 ppm
Concentration per Run 2	0.4782 ppm	0.4930 ppm	0.4922 ppm	10.0406 ppm	0.4939 ppm	0.4869 ppm	0.4938 ppm
Concentration per Run 3	0.4766 ppm	0.4919 ppm	0.4955 ppm	10.0104 ppm	0.4974 ppm	0.4841 ppm	0.4986 ppm
Recovery Percentage 1	95.549 %	98.477 %	98.412 %	100.244 %	99.333 %	97.138 %	99.144 %
Concentration RSD	0.2 %	0.1 %	0.7 %	0.2 %	0.5 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4840 ppm	5.4115 ppm	0.4760 ppm	0.4811 ppm	0.4946 ppm	0.4749 ppm	0.4885 ppm
Concentration per Run 1	0.4849 ppm	5.3962 ppm	0.4771 ppm	0.4812 ppm	0.4964 ppm	0.4729 ppm	0.4893 ppm
Concentration per Run 2	0.4830 ppm	5.4162 ppm	0.4712 ppm	0.4823 ppm	0.4929 ppm	0.4749 ppm	0.4873 ppm
Concentration per Run 3	0.4842 ppm	5.4222 ppm	0.4797 ppm	0.4798 ppm	0.4946 ppm	0.4769 ppm	0.4889 ppm
Recovery Percentage 1	96.800 %	103.077 %	95.201 %	96.219 %	98.925 %	94.980 %	97.701 %
Concentration RSD	0.2 %	0.3 %	0.9 %	0.3 %	0.4 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4861 ppm	97.8833 %	105.2501 %	94.9364 %	94.2916 %	103.9085 %	95.0753 %
Concentration per Run 1	0.4853 ppm	98.0494 %	105.2970 %	94.8272 %	94.4408 %	103.7346 %	94.8865 %
Concentration per Run 2	0.4842 ppm	98.0267 %	104.9462 %	94.9608 %	94.4938 %	103.7553 %	95.1616 %
Concentration per Run 3	0.4886 ppm	97.5736 %	105.5071 %	95.0212 %	93.9401 %	104.2355 %	95.1778 %
Recovery Percentage 1	97.211 %						
Concentration RSD	0.5 %	0.3 %	0.3 %	0.1 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 9:58:55 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 9:54:08 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	-0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 1	0.0002 ppm	0.0051 ppm	0.0001 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 2	0.0000 ppm	-0.0041 ppm	0.0001 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	-0.0026 ppm	-0.0015 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Recovery Percentage 1	1.673 %	-0.543 %	-15.244 %	3.380 %	-0.126 %	0.193 %	1.753 %
Concentration RSD	110.0 %	905.7 %	201.0 %	23.4 %	465.2 %	180.5 %	44.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0013 ppm	0.0029 ppm	0.0157 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0014 ppm	0.0022 ppm	0.0224 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	-0.0009 ppm	0.0003 ppm	0.0012 ppm	0.0036 ppm	0.0127 ppm	0.0017 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	0.0029 ppm	0.0119 ppm	0.0003 ppm
Recovery Percentage 1	0.167 %	-1.736 %	2.422 %	13.301 %	5.832 %	0.627 %	7.924 %
Concentration RSD	671.2 %	154.5 %	96.8 %	11.6 %	24.5 %	37.4 %	101.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0019 ppm	0.0001 ppm	0.0030 ppm	0.0229 ppm	0.0002 ppm	-0.0003 ppm	-0.0008 ppm
Concentration per Run 1	-0.0015 ppm	-0.0001 ppm	0.0028 ppm	0.0245 ppm	0.0004 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	-0.0022 ppm	0.0001 ppm	0.0031 ppm	0.0250 ppm	-0.0001 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 3	-0.0021 ppm	0.0003 ppm	0.0030 ppm	0.0191 ppm	0.0002 ppm	-0.0003 ppm	-0.0026 ppm
Recovery Percentage 1	-1.919 %	1.234 %	5.966 %	1.144 %	0.768 %	-2.949 %	-1.673 %
Concentration RSD	21.2 %	158.0 %	5.2 %	14.2 %	137.7 %	102.1 %	209.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	-0.0049 ppm	0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	-0.0055 ppm	0.0016 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	-0.0042 ppm	0.0015 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0011 ppm	-0.0052 ppm	0.0016 ppm	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm
Recovery Percentage 1	2.100 %	-0.985 %	3.178 %	-0.752 %	1.161 %	2.260 %	0.086 %
Concentration RSD	645.9 %	13.9 %	4.0 %	9.2 %	134.2 %	152.8 %	909.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	91.8925 %	103.0631 %	93.8717 %	93.6185 %	104.4898 %	96.1317 %
Concentration per Run 1	0.0004 ppm	90.4538 %	103.6119 %	93.3442 %	93.1157 %	105.2302 %	95.9566 %
Concentration per Run 2	0.0002 ppm	92.2865 %	103.0082 %	94.4385 %	93.7665 %	104.6755 %	96.7198 %
Concentration per Run 3	0.0005 ppm	92.9371 %	102.5692 %	93.8324 %	93.9733 %	103.5638 %	95.7186 %
Recovery Percentage 1	7.372 %						
Concentration RSD	34.8 %	1.4 %	0.5 %	0.6 %	0.5 %	0.8 %	0.5 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

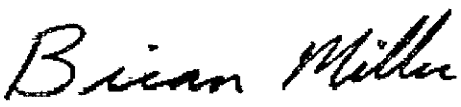
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 9

9/26/2024 9:33:44 PM

LabBook: WG1976462_09262024T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DHL Trace9	0	1	9/26/2024 7:04:24 AM
2	ICAL	0	2	9/26/2024 7:08:36 AM
3	ICV	0	3	9/26/2024 7:12:28 AM
4	ICB	0	4	9/26/2024 7:16:21 AM
5	ICV	0	3	9/26/2024 7:24:02 AM
6	ICB	0	4	9/26/2024 7:28:01 AM
7	No sample	0	5	9/26/2024 7:31:54 AM
8	ICSA	0	6	9/26/2024 7:35:49 AM
9	SIC Multi	0	7	9/26/2024 8:13:48 AM
10	LDR Check	0	8	9/26/2024 8:17:50 AM
11	LLOQ	0	5	9/26/2024 8:27:05 AM
12	LLOQ	0	5	9/26/2024 9:03:56 AM
13	LLOQ 0.005	1	1	9/26/2024 9:29:20 AM
14	LLOQ 0.01	1	2	9/26/2024 9:33:31 AM
15	LDR 20 As pass	1	3	9/26/2024 9:37:23 AM
16	LDR 20 B pass	1	4	9/26/2024 9:41:15 AM
17	LDR 500 Fe pass	1	5	9/26/2024 9:45:07 AM
18	xLDR 1000 Ca	1	6	9/26/2024 9:49:00 AM
19	CCV	0	3	9/26/2024 10:01:23 AM
20	CCB	0	4	9/26/2024 10:05:37 AM
21	WG1976360-1 WG1976360	1	7	9/26/2024 10:14:31 AM
22	WG1976360-2 WG1976360	1	8	9/26/2024 10:18:36 AM
23	WG1976360-3 WG1976360	1	9	9/26/2024 10:22:29 AM
24	L2455369-01 WG1976360	1	10	9/26/2024 10:26:23 AM
25	WG1976490-1 WG1976490	1	11	9/26/2024 10:30:17 AM
26	WG1976490-2 WG1976490	1	12	9/26/2024 10:34:11 AM
27	L2454612-01 WG1976490	1	13	9/26/2024 10:38:05 AM
28	WG1976490-3 WG1976490	1	14	9/26/2024 10:41:57 AM
29	WG1976490-4 WG1976490	1	15	9/26/2024 10:45:49 AM
30	CCV	0	3	9/26/2024 10:49:40 AM
31	CCB	0	4	9/26/2024 10:53:34 AM
32	WG1976309-2d2 WG1976309	1	16	9/26/2024 11:10:31 AM
33	WG1976309-3d2 WG1976309	1	17	9/26/2024 11:15:38 AM
34	CCV	0	3	9/26/2024 11:20:13 AM
35	CCB	0	4	9/26/2024 11:24:07 AM
36	L2454093-01d2 WG1975362	1	18	9/26/2024 11:31:13 AM
37	L2454093-02d2 WG1975362	1	19	9/26/2024 11:35:18 AM
38	L2454093-03d2 WG1975362	1	20	9/26/2024 11:39:11 AM
39	L2454093-04d2 WG1975362	1	21	9/26/2024 11:43:06 AM
40	L2454093-05d2 WG1975362	1	22	9/26/2024 11:47:00 AM
41	L2454093-06d2 WG1975362	1	23	9/26/2024 11:50:54 AM
42	L2454093-07d2 WG1975362	1	24	9/26/2024 11:54:48 AM
43	L2454093-08d2 WG1975362	1	25	9/26/2024 11:58:43 AM
44	L2454093-09d2 WG1975362	1	26	9/26/2024 12:12:09 PM
45	L2454093-10d2 WG1975362	1	27	9/26/2024 12:16:13 PM
46	CCV	0	3	9/26/2024 12:20:05 PM
47	CCB	0	4	9/26/2024 12:24:00 PM
48	WG1975909-1 WG1975909	1	32	9/26/2024 12:28:53 PM
49	WG1975909-2d2 WG1975909	1	33	9/26/2024 12:32:55 PM
50	WG1975909-3d2 WG1975909	1	34	9/26/2024 12:36:50 PM
51	L2455216-01d2 WG1975909	1	35	9/26/2024 12:40:44 PM
52	L2454093-11d2 WG1975362	1	28	9/26/2024 12:44:39 PM
53	xL2454093-12d2 WG1975362	1	29	9/26/2024 12:48:31 PM
54	L2454093-13d2 WG1975362	1	30	9/26/2024 12:52:24 PM
55	L2454093-14d2 WG1975362	1	31	9/26/2024 12:56:17 PM
56	L2454093-12d2 WG1975362	1	29	9/26/2024 1:00:12 PM
57	xL2453602-17d20 WG1974094	1	39	9/26/2024 1:04:06 PM
58	CCV	0	3	9/26/2024 1:08:00 PM
59	CCB	0	4	9/26/2024 1:11:54 PM
60	L2453602-19d10 WG1974094	1	40	9/26/2024 1:18:54 PM
61	L2453602-17d200 WG1974094	2	13	9/26/2024 1:23:01 PM
62	CCV	0	3	9/26/2024 1:28:26 PM
63	CCB	0	4	9/26/2024 1:32:23 PM
64	L2454047-08d2 WG1975918	1	58	9/26/2024 1:39:13 PM
65	L2454047-09d2 WG1975918	1	59	9/26/2024 1:43:23 PM
66	L2454047-10d2 WG1975918	1	60	9/26/2024 1:47:17 PM
67	L2454097-04 WG1976490	2	7	9/26/2024 1:51:12 PM
68	L2455077-01 WG1976490	2	8	9/26/2024 1:55:06 PM

Sequence Trace 9

9/26/2024 9:33:44 PM

Index	Label	Rack	Vial	Started at
69	L2455077-02 WG1976490	2	9	9/26/2024 1:59:00 PM
70	L2455077-03 WG1976490	2	10	9/26/2024 2:02:54 PM
71	L2455077-04 WG1976490	2	11	9/26/2024 2:06:49 PM
72	L2455077-05 WG1976490	2	12	9/26/2024 2:10:43 PM
73	CCV	0	3	9/26/2024 2:14:39 PM
74	CCB	0	4	9/26/2024 2:18:33 PM
75	WG1975918-1 WG1975918	1	41	9/26/2024 2:25:41 PM
76	WG1975918-2d2 WG1975918	1	42	9/26/2024 2:29:49 PM
77	L2452494-11d2 WG1975366	1	36	9/26/2024 2:33:42 PM
78	L2453692-03d2 WG1975366	1	37	9/26/2024 2:37:37 PM
79	L2453692-09d2 WG1975366	1	38	9/26/2024 2:41:30 PM
80	L2453863-13d2 WG1975918	1	43	9/26/2024 2:45:23 PM
81	WG1975918-3d2 WG1975918	1	44	9/26/2024 2:49:17 PM
82	WG1975918-4d2 WG1975918	1	45	9/26/2024 2:53:11 PM
83	WG1975918-5d2 WG1975918	1	46	9/26/2024 2:57:05 PM
84	WG1975918-6d10 WG1975918	1	47	9/26/2024 3:01:00 PM
85	CCV	0	3	9/26/2024 3:04:55 PM
86	CCB	0	4	9/26/2024 3:08:49 PM
87	L2452855-11d2 WG1975918	1	48	9/26/2024 3:22:29 PM
88	L2453863-14d2 WG1975918	1	49	9/26/2024 3:26:38 PM
89	L2453863-15d2 WG1975918	1	50	9/26/2024 3:30:32 PM
90	L2454047-01d2 WG1975918	1	51	9/26/2024 3:34:25 PM
91	L2454047-02d2 WG1975918	1	52	9/26/2024 3:38:19 PM
92	L2454047-03d2 WG1975918	1	53	9/26/2024 3:42:12 PM
93	L2454047-04d2 WG1975918	1	54	9/26/2024 3:46:05 PM
94	L2454047-05d2 WG1975918	1	55	9/26/2024 3:49:59 PM
95	L2454047-06d2 WG1975918	1	56	9/26/2024 3:53:53 PM
96	xL2454047-07d2 WG1975918	1	57	9/26/2024 3:57:47 PM
97	CCV	0	3	9/26/2024 4:01:41 PM
98	CCB	0	4	9/26/2024 4:05:36 PM
99	L2454047-07d4 WG1975918	2	14	9/26/2024 4:23:47 PM
100	L2453863-14 WG1975733	2	15	9/26/2024 4:27:57 PM
101	L2453863-15 WG1975733	2	16	9/26/2024 4:31:51 PM
102	L2453869-01 WG1975733	2	17	9/26/2024 4:35:46 PM
103	L2453869-02 WG1975733	2	18	9/26/2024 4:39:40 PM
104	L2453869-03 WG1975733	2	19	9/26/2024 4:43:35 PM
105	L2454077-01 WG1975733	2	26	9/26/2024 4:47:29 PM
106	L2453909-01 WG1975733	2	20	9/26/2024 4:51:24 PM
107	L2453909-02 WG1975733	2	21	9/26/2024 4:55:19 PM
108	L2454008-01 WG1975733	2	22	9/26/2024 4:59:13 PM
109	CCV	0	3	9/26/2024 5:03:08 PM
110	CCB	0	4	9/26/2024 5:07:03 PM
111	CCV	0	3	9/26/2024 5:12:37 PM
112	CCB	0	4	9/26/2024 5:18:32 PM
113	WG1976217-1 WG1976217	2	29	9/26/2024 5:28:18 PM
114	WG1976217-2 WG1976217	2	30	9/26/2024 5:32:28 PM
115	L2454059-01 WG1976217	2	31	9/26/2024 5:36:23 PM
116	WG1976217-3 WG1976217	2	32	9/26/2024 5:40:18 PM
117	WG1976217-4 WG1976217	2	33	9/26/2024 5:44:13 PM
118	WG1976217-5 WG1976217	2	34	9/26/2024 5:48:08 PM
119	WG1976217-6d5 WG1976217	2	35	9/26/2024 5:52:03 PM
120	L2453908-01 WG1976217	2	36	9/26/2024 5:55:58 PM
121	L2453913-01 WG1976217	2	37	9/26/2024 5:59:54 PM
122	L2454059-02 WG1976217	2	38	9/26/2024 6:03:50 PM
123	CCV	0	3	9/26/2024 6:07:45 PM
124	CCB	0	4	9/26/2024 6:11:39 PM
125	L2454053-04 WG1975733	2	23	9/26/2024 6:37:47 PM
126	L2454053-05 WG1975733	2	24	9/26/2024 6:41:58 PM
127	L2454053-06 WG1975733	2	25	9/26/2024 6:45:54 PM
128	L2452542-01 WG1975733	2	27	9/26/2024 6:49:49 PM
129	L2454053-01d2 WG1975918	2	1	9/26/2024 6:53:44 PM
130	L2454053-02d2 WG1975918	2	2	9/26/2024 6:57:38 PM
131	L2454053-03d2 WG1975918	2	3	9/26/2024 7:01:33 PM
132	L2454053-04d2 WG1975918	2	4	9/26/2024 7:05:27 PM
133	L2454053-05d2 WG1975918	2	5	9/26/2024 7:09:21 PM
134	L2454053-06d2 WG1975918	2	6	9/26/2024 7:13:16 PM
135	CCV	0	3	9/26/2024 7:17:10 PM
136	CCB	0	4	9/26/2024 7:21:05 PM
137	L2454280-01 WG1975733	2	28	9/26/2024 7:25:00 PM
138	CCV	0	3	9/26/2024 7:28:55 PM
139	CCB	0	4	9/26/2024 7:32:50 PM
140	CCV	0	3	9/26/2024 7:36:45 PM
141	CCB	0	4	9/26/2024 7:40:40 PM
142	LLOQ	0	5	9/26/2024 7:44:35 PM

Sequence Trace 9

9/26/2024 9:33:44 PM

Sequence Trace 5

9/26/2024 9:12:41 PM

LabBook: WG1976666_09262024T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DHL Trace5	0	1	9/26/2024 11:27:19 AM
2	ICAL	0	2	9/26/2024 11:33:37 AM
3	ICV	0	3	9/26/2024 11:39:38 AM
4	ICB	0	4	9/26/2024 11:45:41 AM
5	ICV	0	10	9/26/2024 11:52:00 AM
6	ICB	0	4	9/26/2024 11:58:05 AM
7	LLOQ RL	0	5	9/26/2024 12:04:24 PM
8	ICSA	0	6	9/26/2024 12:10:39 PM
9	SIC Multi	0	7	9/26/2024 12:36:18 PM
10	LDR Check	0	8	9/26/2024 12:43:00 PM
11	zLLOQ RL 0.005	1	1	9/26/2024 1:04:13 PM
12	LLOQ RL 0.01	1	2	9/26/2024 1:10:29 PM
13	IEC 500 Al Pb-	1	3	9/26/2024 1:16:43 PM
14	xLDR 250 k	1	2	9/26/2024 1:23:02 PM
15	xLDR 500 AL	1	3	9/26/2024 1:29:17 PM
16	LDR 250 NA	1	5	9/26/2024 1:35:50 PM
17	LDR 250 K	1	4	9/26/2024 1:43:00 PM
18	CCV	0	3	9/26/2024 2:00:21 PM
19	CCB	0	4	9/26/2024 2:06:23 PM
20	CCV	0	3	9/26/2024 2:16:57 PM
21	CCB	0	4	9/26/2024 2:23:00 PM
22	LDR B 20	1	7	9/26/2024 2:30:00 PM
23	LDR 500 CA	1	6	9/26/2024 2:36:18 PM
24	xWRONG SPOT	0	10	9/26/2024 3:02:01 PM
25	zIEC 200 FE Pb-	1	8	9/26/2024 3:04:00 PM
26	WG1976148-2 WG1976148	1	10	9/26/2024 3:24:11 PM
27	L2453196-01d50 WG1975237	1	16	9/26/2024 3:30:19 PM
28	zL2453855-01d20 WG1975237	1	17	9/26/2024 3:36:37 PM
29	L2453855-02d2 WG1975237	1	18	9/26/2024 3:42:51 PM
30	l2453869-04 WG1976148	1	11	9/26/2024 3:49:19 PM
31	CCV	0	3	9/26/2024 3:55:35 PM
32	CCB	0	4	9/26/2024 4:01:38 PM
33	WG1976148-1 WG1976148	1	9	9/26/2024 4:12:01 PM
34	WG1976148-3 WG1976148	1	12	9/26/2024 4:18:20 PM
35	WG1976148-4 WG1976148	1	13	9/26/2024 4:24:27 PM
36	WG1976148-5 WG1976148	1	14	9/26/2024 4:30:38 PM
37	WG1976148-6D5 WG1976148	1	15	9/26/2024 4:36:41 PM
38	L2453855-01d100 WG1975237	1	19	9/26/2024 4:42:55 PM
39	L2453855-02d10 WG1975237	1	20	9/26/2024 4:49:16 PM
40	CCV	0	3	9/26/2024 5:04:36 PM
41	CCB	0	4	9/26/2024 5:10:39 PM
42	WG1975352-1 WG1975352	1	21	9/26/2024 5:18:40 PM
43	WG1975352-2d2 WG1975352	1	22	9/26/2024 5:24:59 PM
44	L2453935-01d2 WG1975352	1	23	9/26/2024 5:31:06 PM
45	WG1975352-3d2 WG1975352	1	24	9/26/2024 5:37:15 PM
46	WG1975352-4d2 WG1975352	1	25	9/26/2024 5:43:45 PM
47	WG1975352-5d2 WG1975352	1	26	9/26/2024 5:49:50 PM
48	WG1975352-6d10 WG1975352	1	27	9/26/2024 5:55:52 PM
49	L2453935-02d2 WG1975352	1	28	9/26/2024 6:02:03 PM
50	L2453935-03d2 WG1975352	1	29	9/26/2024 6:08:09 PM
51	L2453935-04d2 WG1975352	1	30	9/26/2024 6:14:16 PM
52	CCV	0	3	9/26/2024 6:20:22 PM
53	CCB	0	4	9/26/2024 6:26:24 PM
54	xNO sample loaded	1	47	9/26/2024 6:36:33 PM
55	WG1976217-2d2 WG1976217	1	47	9/26/2024 6:37:40 PM
56	CCV	0	3	9/26/2024 6:43:46 PM
57	CCB	0	4	9/26/2024 6:49:49 PM
58	L2453935-05d2 WG1975352	1	31	9/26/2024 6:59:26 PM
59	L2453935-06d2 WG1975352	1	32	9/26/2024 7:05:33 PM
60	L2453935-07d2 WG1975352	1	33	9/26/2024 7:11:40 PM
61	L2453935-08d2 WG1975352	1	34	9/26/2024 7:18:12 PM
62	L2453935-09d2 WG1975352	1	35	9/26/2024 7:25:03 PM
63	L2453935-10d2 WG1975352	1	36	9/26/2024 7:31:35 PM
64	L2453935-11d2 WG1975352	1	37	9/26/2024 7:37:46 PM
65	L2453935-12d2 WG1975352	1	38	9/26/2024 7:43:54 PM
66	L2453935-13d2 WG1975352	1	39	9/26/2024 7:50:02 PM
67	L2453935-14d2 WG1975352	1	40	9/26/2024 7:56:07 PM
68	CCV	0	3	9/26/2024 8:02:14 PM
69	CCB	0	4	9/26/2024 8:08:16 PM
70	L2453935-15d2 WG1975352	1	41	9/26/2024 8:20:10 PM
71	L2453935-16d2 WG1975352	1	42	9/26/2024 8:26:17 PM
72	L2453935-17d2 WG1975352	1	43	9/26/2024 8:32:26 PM

Sequence Trace 5

9/26/2024 9:12:41 PM

Index:	Label:	Rack	Vial	Start time:
73	L2453935-18d2 WG1975352	1	44	9/26/2024 8:38:35 PM
74	L2453935-19d2 WG1975352	1	45	9/26/2024 8:45:02 PM
75	L2453935-20d2 WG1975352	1	46	9/26/2024 8:51:29 PM
76	CCV	0	3	9/26/2024 8:57:38 PM
77	CCB	0	4	9/26/2024 9:03:40 PM
78	CCV	0	3	
79	CCB	0	4	
80	LLOQ RL	0	5	

Sequence Trace 4

9/26/2024 6:11:23 PM

LabBook: WG1976586_09262024T4.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank JMF Trace4	0	1	9/26/2024 8:57:09 AM
2	ICAL	0	2	9/26/2024 9:03:33 AM
3	ICV	0	3	9/26/2024 9:09:32 AM
4	ICB	0	4	9/26/2024 9:15:35 AM
5	LLOQ	0	5	9/26/2024 9:22:51 AM
6	ICSA	0	6	9/26/2024 9:30:50 AM
7	LDR 400 Fe pass _IEC -Pb -Zn	1	1	9/26/2024 9:39:51 AM
8	LDR 800 Ca pass	1	2	9/26/2024 9:46:19 AM
9	LDR 500 Ca pass	1	3	9/26/2024 9:52:47 AM
10	LDR 500 Mg pass	1	4	9/26/2024 9:59:17 AM
11	SIC Multi	0	7	9/26/2024 10:22:52 AM
12	IEC 500 Al -B +Cd +Pb	1	5	9/26/2024 10:30:52 AM
13	LDR Check	0	8	9/26/2024 10:37:18 AM
14	LDR 20 As pass	1	6	9/26/2024 11:12:11 AM
15	LDR 20 B pass	1	7	9/26/2024 11:18:35 AM
16	xLDR 500 Na	1	8	9/26/2024 11:24:59 AM
17	LDR 300 Na pass	1	9	9/26/2024 11:31:34 AM
18	LDR 20 Si pass	1	10	9/26/2024 11:41:20 AM
19	IEC 20 Mn -Tl	1	11	9/26/2024 11:47:45 AM
20	LDR 5 Cd pass	1	12	9/26/2024 12:25:53 PM
21	LDR 5 Mo pass	1	13	9/26/2024 12:32:19 PM
22	LDR 5 Se pass	1	14	9/26/2024 12:38:39 PM
23	CCV	0	3	9/26/2024 1:07:48 PM
24	CCB	0	4	9/26/2024 1:13:52 PM
25	WG1976262-1 WG1976262	1	15	9/26/2024 1:20:56 PM
26	WG1976262-2 WG1976262	1	16	9/26/2024 1:27:20 PM
27	L2453906-01 WG1976262	1	22	9/26/2024 1:33:32 PM
28	L2454942-01 WG1976262	1	23	9/26/2024 1:39:54 PM
29	zL2454942-01D5 WG1976262	1	24	9/26/2024 1:46:13 PM
30	L2454206-05 WG1976262	1	17	9/26/2024 1:52:31 PM
31	WG1976262-3 WG1976262	1	18	9/26/2024 1:58:50 PM
32	WG1976262-4 WG1976262	1	19	9/26/2024 2:05:00 PM
33	WG1976262-5 WG1976262	1	20	9/26/2024 2:11:10 PM
34	WG1976262-6D5 WG1976262	1	21	9/26/2024 2:17:21 PM
35	CCV	0	3	9/26/2024 2:23:43 PM
36	CCB	0	4	9/26/2024 2:29:47 PM
37	WG1976676-1 WG1976676	1	25	9/26/2024 2:40:49 PM
38	WG1976676-2 WG1976676	1	26	9/26/2024 2:47:20 PM
39	L2454653-03 WG1976676	1	27	9/26/2024 2:53:40 PM
40	WG1976676-3 WG1976676	1	28	9/26/2024 3:00:02 PM
41	WG1976676-4 WG1976676	1	29	9/26/2024 3:06:13 PM
42	zL2453698-01d10 WG1973911	1	30	9/26/2024 3:12:35 PM
43	L2453698-02d10 WG1973911	1	31	9/26/2024 3:19:04 PM
44	CCV	0	3	9/26/2024 3:25:31 PM
45	CCB	0	4	9/26/2024 3:31:34 PM
46	WG1975964-1 WG1975964	1	32	9/26/2024 3:41:25 PM
47	WG1975964-2 WG1975964	1	33	9/26/2024 3:47:50 PM
48	L2454059-01 WG1975964	1	34	9/26/2024 3:54:03 PM
49	WG1975964-3 WG1975964	1	35	9/26/2024 4:00:33 PM
50	WG1975964-4 WG1975964	1	36	9/26/2024 4:06:54 PM
51	WG1975964-5 WG1975964	1	37	9/26/2024 4:13:24 PM
52	WG1975964-6d5 WG1975964	1	38	9/26/2024 4:19:42 PM
53	CCV	0	3	9/26/2024 4:26:01 PM
54	CCB	0	4	9/26/2024 4:32:03 PM
55	L2454059-02 WG1975964	1	57	9/26/2024 4:42:11 PM
56	L2454081-02 WG1975964	1	58	9/26/2024 4:48:33 PM
57	L2454081-01 WG1975964	1	39	9/26/2024 4:54:59 PM
58	WG1975964-7 WG1975964	1	40	9/26/2024 5:01:24 PM
59	WG1975964-8 WG1975964	1	41	9/26/2024 5:07:46 PM
60	WG1975964-9 WG1975964	1	42	9/26/2024 5:14:11 PM
61	WG1975964-10d5 WG1975964	1	43	9/26/2024 5:20:34 PM
62	L2453698-01d20 WG1973911	2	1	9/26/2024 5:26:53 PM
63	L2453855-01d100 WG1975237	1	59	9/26/2024 5:33:22 PM
64	L2453855-02d10 WG1975237	1	60	9/26/2024 5:39:49 PM
65	CCV	0	3	9/26/2024 5:46:15 PM
66	CCB	0	4	9/26/2024 5:52:17 PM
67	LDR 400 FE	2	2	9/26/2024 6:00:08 PM
68	L2453979-03 WG1975964	1	54	
69	L2453979-04 WG1975964	1	55	
70	L2454039-01 WG1975964	1	56	
71	CCV	0	3	
72	CCB	0	4	

Sequence Trace 4

9/26/2024 6:11:23 PM

Index:	Label:	Rack	Vial	Start time:
73	L2453908-01 WG1975964	1	44	
74	L2453913-01 WG1975964	1	45	
75	L2453916-01 WG1975964	1	46	
76	L2453918-01 WG1975964	1	47	
77	L2453918-02 WG1975964	1	48	
78	L2453921-01 WG1975964	1	49	
79	L2453967-01 WG1975964	1	50	
80	L2453967-02 WG1975964	1	51	
81	L2453979-01 WG1975964	1	52	
82	L2453979-02 WG1975964	1	53	
83	CCV	0	3	
84	CCB	0	4	
85	CCV	0	3	
86	CCB	0	4	
87	CCV	0	3	
88	CCB	0	4	
89	CCV	0	3	
90	CCB	0	4	
91	LLOQ	0	5	

Sequence Trace 8

9/26/2024 9:59:41 PM

LabBook: WG1976444_09262024T8_B.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DMC Trace8	0	1	9/26/2024 11:42:15 AM
2	ICAL	0	2	9/26/2024 11:46:29 AM
3	ICV	0	3	9/26/2024 11:53:31 AM
4	ICB	0	4	9/26/2024 11:57:33 AM
5	ICV	0	10	9/26/2024 12:01:29 PM
6	ICB	0	4	9/26/2024 12:05:29 PM
7	LLOQ	0	5	9/26/2024 12:09:26 PM
8	LDR (ICSA)	0	6	9/26/2024 12:13:22 PM
9	xcap on	0	7	9/26/2024 12:17:20 PM
10	LDR (SIC Multi)	0	7	9/26/2024 12:19:13 PM
11	LDR Check	0	8	9/26/2024 12:23:30 PM
12	LDR 1000 Ca	1	5	9/26/2024 12:29:42 PM
13	LDR 500 Fe	1	6	9/26/2024 12:33:44 PM
14	LDR 20 B	1	7	9/26/2024 12:37:41 PM
15	CCV	0	3	9/26/2024 12:41:38 PM
16	CCB	0	4	9/26/2024 12:45:34 PM
17	WG1976465-1 WG1976465	2	24	9/26/2024 12:52:19 PM
18	WG1976465-2D2 WG1976465	2	25	9/26/2024 12:56:22 PM
19	L2455430-01D2 WG1976465	2	26	9/26/2024 1:00:18 PM
20	WG1976465-3D2 WG1976465	2	27	9/26/2024 1:04:14 PM
21	WG1976465-4D2 WG1976465	2	28	9/26/2024 1:08:09 PM
22	WG1976465-5D2 WG1976465	2	29	9/26/2024 1:12:05 PM
23	WG1976465-6D10 WG1976465	2	30	9/26/2024 1:16:01 PM
24	L2455430-02D2 WG1976465	2	31	9/26/2024 1:19:57 PM
25	L2455430-03D2 WG1976465	2	32	9/26/2024 1:23:53 PM
26	CCV	0	3	9/26/2024 1:27:49 PM
27	CCB	0	4	9/26/2024 1:31:45 PM
28	L2454018-01d2 WG1975344	1	53	9/26/2024 1:37:49 PM
29	L2454018-02d2 WG1975344	1	54	9/26/2024 1:42:01 PM
30	L2454035-41d2 WG1975344	1	55	9/26/2024 1:45:57 PM
31	L2454035-43d2 WG1975344	1	56	9/26/2024 1:49:53 PM
32	L2454035-45d2 WG1975344	1	57	9/26/2024 1:53:49 PM
33	L2454035-47d2 WG1975344	1	58	9/26/2024 1:57:45 PM
34	L2454056-01d2 WG1975344	1	59	9/26/2024 2:01:42 PM
35	L2454077-01d2 WG1975344	1	60	9/26/2024 2:05:40 PM
36	L2454035-01D2 WG1975335	2	4	9/26/2024 2:09:38 PM
37	L2454035-03D2 WG1975335	2	5	9/26/2024 2:13:34 PM
38	CCV	0	3	9/26/2024 2:17:30 PM
39	CCB	0	4	9/26/2024 2:21:26 PM
40	WG1975335-1 WG1975335	2	1	9/26/2024 2:26:25 PM
41	WG1975335-2D2 WG1975335	2	2	9/26/2024 2:30:31 PM
42	WG1975335-3D2 WG1975335	2	3	9/26/2024 2:34:27 PM
43	L2454035-05D2 WG1975335	2	6	9/26/2024 2:38:22 PM
44	L2454035-07D2 WG1975335	2	7	9/26/2024 2:42:19 PM
45	L2454035-09D2 WG1975335	2	8	9/26/2024 2:46:16 PM
46	L2454035-11D2 WG1975335	2	9	9/26/2024 2:50:12 PM
47	L2454035-13D2 WG1975335	2	10	9/26/2024 2:54:09 PM
48	L2454035-15D2 WG1975335	2	11	9/26/2024 2:58:06 PM
49	L2454035-17D2 WG1975335	2	12	9/26/2024 3:02:03 PM
50	CCV	0	3	9/26/2024 3:06:01 PM
51	CCB	0	4	9/26/2024 3:09:57 PM
52	L2454035-19D2 WG1975335	2	13	9/26/2024 3:18:47 PM
53	L2454035-21D2 WG1975335	2	14	9/26/2024 3:22:49 PM
54	L2454035-23D2 WG1975335	2	15	9/26/2024 3:26:46 PM
55	L2454035-25D2 WG1975335	2	16	9/26/2024 3:30:42 PM
56	L2454035-27D2 WG1975335	2	17	9/26/2024 3:34:38 PM
57	L2454035-29D2 WG1975335	2	18	9/26/2024 3:38:35 PM
58	L2454035-31D2 WG1975335	2	19	9/26/2024 3:42:31 PM
59	L2454035-33D2 WG1975335	2	20	9/26/2024 3:46:28 PM
60	L2454035-35D2 WG1975335	2	21	9/26/2024 3:50:24 PM
61	L2454035-37D2 WG1975335	2	22	9/26/2024 3:54:21 PM
62	CCV	0	3	9/26/2024 3:58:18 PM
63	CCB	0	4	9/26/2024 4:02:15 PM
64	WG1976106-1 WG1976106	2	33	9/26/2024 4:08:10 PM
65	WG1976106-2 WG1976106	2	34	9/26/2024 4:12:25 PM
66	L2453858-03 WG1976106	2	35	9/26/2024 4:16:23 PM
67	WG1976106-3 WG1976106	2	36	9/26/2024 4:20:21 PM
68	WG1976106-4 WG1976106	2	37	9/26/2024 4:24:19 PM

Sequence Trace 8

9/26/2024 9:59:41 PM

Index	Label	Rack	Vial	Started at
69	WG1976106-5 WG1976106	2	38	9/26/2024 4:28:16 PM
70	WG1976106-6D5 WG1976106	2	39	9/26/2024 4:32:13 PM
71	L2453858-01 WG1976106	2	40	9/26/2024 4:36:10 PM
72	L2453858-02 WG1976106	2	41	9/26/2024 4:40:07 PM
73	L2454035-39D2 WG1975335	2	23	9/26/2024 4:44:04 PM
74	CCV	0	3	9/26/2024 4:48:02 PM
75	CCB	0	4	9/26/2024 4:52:00 PM
76	L2453858-04 WG1976106	2	42	9/26/2024 4:56:00 PM
77	CCV	0	3	9/26/2024 4:59:57 PM
78	CCB	0	4	9/26/2024 5:03:54 PM
79	WG1976295-1 WG1976295	2	43	9/26/2024 5:09:12 PM
80	WG1976295-2D2 WG1976295	2	44	9/26/2024 5:13:24 PM
81	L2454047-07D4 WG1975918	3	6	9/26/2024 5:23:14 PM
82	L2453965-01D2 WG1976295	2	50	9/26/2024 5:27:30 PM
83	CCV	0	3	9/26/2024 5:31:27 PM
84	CCB	0	4	9/26/2024 5:35:24 PM
85	WG1976217-1 WG1976217	3	7	9/26/2024 5:40:57 PM
86	WG1976217-2 WG1976217	3	8	9/26/2024 5:49:02 PM
87	L2454059-02 WG1976217	3	14	9/26/2024 5:53:18 PM
88	L2454059-01 WG1976217	3	9	9/26/2024 5:57:16 PM
89	WG1976217-3 WG1976217	3	10	9/26/2024 6:01:14 PM
90	WG1976217-4 WG1976217	3	11	9/26/2024 6:05:13 PM
91	WG1976217-5 WG1976217	3	12	9/26/2024 6:09:11 PM
92	WG1976217-6D5 WG1976217	3	13	9/26/2024 6:13:09 PM
93	CCV	0	3	9/26/2024 6:17:08 PM
94	CCB	0	4	9/26/2024 6:21:05 PM
95	L2454085-04D2 WG1976295	2	51	9/26/2024 6:26:57 PM
96	L2454097-02D2 WG1976295	2	52	9/26/2024 6:31:13 PM
97	L2454097-04D2 WG1976295	2	53	9/26/2024 6:35:11 PM
98	L2454098-02D2 WG1976295	2	54	9/26/2024 6:39:09 PM
99	L2454865-01D2 WG1976295	2	55	9/26/2024 6:43:07 PM
100	L2452560-01D2 WG1976295	2	45	9/26/2024 6:47:05 PM
101	WG1976295-3D2 WG1976295	2	46	9/26/2024 6:51:03 PM
102	WG1976295-4D2 WG1976295	2	47	9/26/2024 6:55:02 PM
103	WG1976295-5D2 WG1976295	2	48	9/26/2024 6:59:00 PM
104	WG1976295-6D10 WG1976295	2	49	9/26/2024 7:02:58 PM
105	CCV	0	3	9/26/2024 7:06:57 PM
106	CCB	0	4	9/26/2024 7:10:54 PM
107	L2454991-01D2 WG1976295	2	56	9/26/2024 7:16:22 PM
108	L2454991-02D2 WG1976295	2	57	9/26/2024 7:20:23 PM
109	L2455018-09D2 WG1976295	2	58	9/26/2024 7:24:22 PM
110	zL2455018-10D2 WG1976295	2	59	9/26/2024 7:28:20 PM
111	L2455019-09D2 WG1976295	2	60	9/26/2024 7:32:18 PM
112	L2455019-10D2 WG1976295	3	1	9/26/2024 7:36:18 PM
113	L2455039-01D2 WG1976295	3	2	9/26/2024 7:40:16 PM
114	L2455039-02D2 WG1976295	3	3	9/26/2024 7:44:15 PM
115	L2455039-03D2 WG1976295	3	4	9/26/2024 7:48:13 PM
116	L2455039-04d3 WG1976295	3	5	9/26/2024 7:52:12 PM
117	CCV	0	3	9/26/2024 7:56:11 PM
118	CCB	0	4	9/26/2024 8:00:09 PM
119	xSAMPLE NOT loaded	3	16	9/26/2024 8:05:14 PM
120	L2454068-01 WG1975762	3	16	9/26/2024 8:07:58 PM
121	L2454068-03 WG1975762	3	17	9/26/2024 8:12:17 PM
122	L2454068-07 WG1975762	3	18	9/26/2024 8:16:16 PM
123	L2454068-08 WG1975762	3	19	9/26/2024 8:20:15 PM
124	L2454312-02 WG1975762	3	20	9/26/2024 8:24:14 PM
125	L2454312-03 WG1975762	3	21	9/26/2024 8:28:14 PM
126	L2454312-04 WG1975762	3	22	9/26/2024 8:32:13 PM
127	L2455018-10D4 WG1976295	3	15	9/26/2024 8:36:12 PM
128	CCV	0	3	9/26/2024 8:40:11 PM
129	CCB	0	4	9/26/2024 8:44:08 PM
130	WG1976101-1 WG1976101	3	23	9/26/2024 8:52:13 PM
131	WG1976101-2 WG1976101	3	24	9/26/2024 8:56:32 PM
132	L2453389-03 WG1976101	3	30	9/26/2024 9:00:31 PM
133	L2453389-04 WG1976101	3	31	9/26/2024 9:04:30 PM
134	L2453389-05 WG1976101	3	32	9/26/2024 9:11:11 PM
135	L2453389-02 WG1976101	3	25	9/26/2024 9:15:32 PM
136	WG1976101-3 WG1976101	3	26	9/26/2024 9:19:33 PM
137	WG1976101-4 WG1976101	3	27	9/26/2024 9:23:32 PM
138	WG1976101-5 WG1976101	3	28	9/26/2024 9:27:32 PM
139	WG1976101-6d5 WG1976101	3	29	9/26/2024 9:31:32 PM
140	CCV	0	3	9/26/2024 9:35:32 PM
141	CCB	0	4	9/26/2024 9:39:30 PM
142	WG1975278-2 WG1975278	3	42	9/26/2024 9:45:54 PM

Sequence Trace 8

9/26/2024 9:59:41 PM

Index	Label	Rack	Vial	Started at
143	CCV	0	3	9/26/2024 9:50:10 PM
144	CCB	0	4	9/26/2024 9:54:08 PM
145	L2453389-06 WG1976101	3	33	
146	L2453389-07 WG1976101	3	34	
147	L2453389-08 WG1976101	3	35	
148	L2453389-09 WG1976101	3	36	
149	L2454051-01 WG1976101	3	37	
150	L2454051-02 WG1976101	3	38	
151	L2454051-03 WG1976101	3	39	
152	L2454051-04 WG1976101	3	40	
153	L2454051-05 WG1976101	3	41	
154	CCV	0	3	
155	CCB	0	4	
156	CCV	0	3	
157	CCB	0	4	
158	CCV	0	10	
159	CCB	0	4	
160	LLOQ	0	5	

METALS ELN REPORT

Workgroup: WG1975964

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324382 01155JDH	1:1 HCl	tHCL243421 0713CME	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2452699-01 WATER	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2452699-03 WATER	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453908-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453913-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453916-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453918-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453918-02 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453921-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453967-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453967-02 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453979-01 WATER	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453979-02 WATER	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453979-03 WATER	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2453979-04 WATER	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	

METALS ELN REPORT

Workgroup: WG1975964

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2454039-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2454059-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2454059-02 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2454081-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2454081-02 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
L2454585-01 SAMP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
WG1975964-1 BLANK	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	FM2438201045 AJT
WG1975964-2 LCS	09/25/24 11:13	Alexander Tarlton	50	<2	0.5	09/25/24 11:13	9	94.8	09/25/24 14:13	50	Shares QC with WG1975972
WG1975964-3 MS	09/25/24 11:13	Alexander Tarlton	50	<2	0.5	09/25/24 11:13	9	94.8	09/25/24 14:13	50	ELN: JDH
WG1975964-4 DUP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
WG1975964-5 PS	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
WG1975964-6 SERDIL	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
WG1975964-7 MS	09/25/24 11:13	Alexander Tarlton	50	<2	0.5	09/25/24 11:13	9	94.8	09/25/24 14:13	50	
WG1975964-8 DUP	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	

Reported: 26-SEP-24 10:24 PM

METALS ELN REPORT

Workgroup: WG1975964

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1975964-9 PS	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	
WG1975964-10 SERDIL	09/25/24 11:13	Alexander Tarlton	50	<2		09/25/24 11:13	9	94.8	09/25/24 14:13	50	IPS2433150405CLH

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 26-SEP-24 10:24 PM

METALS ELN REPORT

Workgroup: WG1976217

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324381 80400CLH	1:1 HCl	tHCL243712 0918EFM	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2453076-01 SAMP	09/25/24 17:23	Maisie Mcqueen	09-17-24 19:56	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2453908-01 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2453913-01 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454059-01 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454059-02 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-02 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-05 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-08 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-11 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-14 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-17 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-20 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-23 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-26 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	

Reported: 26-SEP-24 10:24 PM

METALS ELN REPORT

Workgroup: WG1976217

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2454352-01 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
WG1976217-1 BLANK	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	FM2438201045 AJT
WG1976217-2 LCS	09/25/24 17:23	Maisie Mcqueen	NA	50	<2	0.5	09/25/24 17:23	7	95.1	09/25/24 20:23	50	IPS2433150405CLH
WG1976217-3 MS	09/25/24 17:23	Maisie Mcqueen	NA	50	<2	0.5	09/25/24 17:23	7	95.1	09/25/24 20:23	50	ELN:CME
WG1976217-4 DUP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
WG1976217-5 PS	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
WG1976217-6 SERDIL	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 26-SEP-24 10:24 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 13:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976221-1	**Date Collected**	: NA
Client ID	: WG1976221-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 13:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976221-4	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 13:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 14:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 14:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975973-1	**Date Collected**	: NA
Client ID	: WG1975973-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 14:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975973-4	**Date Collected**	: 09/18/24 09:40
Client ID	: WG1975973-4 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/26/24 14:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.00049	0.00020	0.0001	

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880493-1			R1880493-3			R1880493-5		R1880493-7	
Date Analyzed :	09/26/24 07:08			09/26/24 08:45			09/26/24 10:21		09/26/24 12:01	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0031	104	0.0050	0.00500	100	0.00500	101	0.00510	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880493-9			R1880493-11			
Date Analyzed :				09/26/24 12:49			09/26/24 13:28			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00510**	**102**	**0.00510**	**101**		

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880493-1			R1880493-3			R1880493-5		R1880493-7	
Date Analyzed :	09/26/24 07:08			09/26/24 08:45			09/26/24 10:21		09/26/24 12:01	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0031	104	0.0050	0.00500	100	0.00500	101	0.00510	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880493-9			R1880493-11		R1880493-13	
Date Analyzed :				09/26/24 12:49			09/26/24 13:28		09/26/24 14:13	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	102	0.00510	101	0.00500	101

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880493-15						
Date Analyzed :				09/26/24 15:15						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00480	96				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1880493-2	R1880493-4	R1880493-6	R1880493-8	WG1976221-1
Date Analyzed :	09/26/24 07:12	09/26/24 08:48	09/26/24 10:25	09/26/24 12:05	09/26/24 13:05
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	mg/l Q
Mercury	0.0000910 U	0.0000910 U	0.0000910 U	0.0000910 U	0.00009 U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880493-10		R1880493-12					
Date Analyzed :			09/26/24 12:52		09/26/24 13:32					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880493-2		R1880493-4		R1880493-6		R1880493-8		WG1975973-1	
Date Analyzed :	09/26/24 07:12		09/26/24 08:48		09/26/24 10:25		09/26/24 12:05		09/26/24 14:07	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880493-10		R1880493-12		R1880493-14			
Date Analyzed :			09/26/24 12:52		09/26/24 13:32		09/26/24 14:17			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880493-16							
Date Analyzed :			09/26/24 15:19							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U						

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4D2	**Matrix**	: WATER
Lab Sample ID	: L2454059-02		
Matrix Spike	: WG1976221-3	**MS Analysis Date**	: 09/26/24 13:15
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00472	94					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453652-01		
Matrix Spike	: WG1975973-3	**MS Analysis Date**	: 09/26/24 14:23
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	0.00049	0.005	0.00529	96					70-130	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4D2	**Matrix**	: WATER
Lab Sample ID	: L2454059-02	**Analysis Date**	: 09/26/24 13:12
Dup Sample ID	: WG1976221-4	**DUP Analysis Date**	: 09/26/24 13:19

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/26/24 14:20
Dup Sample ID	: WG1975973-4	**DUP Analysis Date**	: 09/26/24 14:27

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	0.00049	0.00049	0	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976221-2	**LCS Analysis Date**	: 09/26/24 13:09
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**0.00100**	**0.000960**	**96.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975973-2	**LCS Analysis Date**	: 09/26/24 14:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**0.00100**	**0.000950**	**96.**					**85-115**	**20**

Form 12
Preparation Log

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2454059**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 245.1**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454059-01	09/25/24 20:15	-	25
L2454059-02	09/25/24 20:15	-	25
WG1976221-1	09/25/24 20:15	-	25
WG1976221-2	09/25/24 20:15	-	25
WG1976221-3	09/25/24 20:15	-	25
WG1976221-4	09/25/24 20:15	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454059-01	09/25/24 11:49	-	25
L2454059-02	09/25/24 11:49	-	25
WG1975973-1	09/25/24 11:49	-	25
WG1975973-2	09/25/24 11:49	-	25
WG1975973-3	09/25/24 11:49	-	25
WG1975973-4	09/25/24 11:49	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 09/26/24 07:08	**End Date**	: 09/26/24 13:32

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1880493-1 ICV	1	07:08:42	X
R1880493-2 ICB	1	07:12:01	X
R1880493-3 CCV	1	08:45:16	X
R1880493-4 CCB	1	08:48:35	X
R1880493-5 CCV	1	10:21:41	X
R1880493-6 CCB	1	10:25:00	X
R1880493-7 CCV	1	12:01:59	X
R1880493-8 CCB	1	12:05:18	X
R1880493-9 CCV	1	12:49:20	X
R1880493-10 CCB	1	12:52:38	X
WG1976221-1 BLANK	1	13:05:50	X
WG1976221-2 LCS	1	13:09:07	X
L2454059-02	1	13:12:25	X
WG1976221-3 MS	1	13:15:43	X
WG1976221-4 DUP	1	13:19:01	X
L2454059-01	1	13:22:19	X
R1880493-11 CCV	1	13:28:55	X
R1880493-12 CCB	1	13:32:13	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 09/26/24 07:08	**End Date**	: 09/26/24 15:19

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1880493-1 ICV	1	07:08:42	X
R1880493-2 ICB	1	07:12:01	X
R1880493-3 CCV	1	08:45:16	X
R1880493-4 CCB	1	08:48:35	X
R1880493-5 CCV	1	10:21:41	X
R1880493-6 CCB	1	10:25:00	X
R1880493-7 CCV	1	12:01:59	X
R1880493-8 CCB	1	12:05:18	X
R1880493-9 CCV	1	12:49:20	X
R1880493-10 CCB	1	12:52:38	X
R1880493-11 CCV	1	13:28:55	X
R1880493-12 CCB	1	13:32:13	X
WG1975973-1 BLANK	1	14:07:19	X
WG1975973-2 LCS	1	14:10:37	X
R1880493-13 CCV	1	14:13:55	X
R1880493-14 CCB	1	14:17:13	X
WG1975973-3 MS	1	14:23:53	X
WG1975973-4 DUP	1	14:27:10	X
L2454059-01	1	14:30:29	X
L2454059-02	1	14:33:48	X
R1880493-15 CCV	1	15:15:46	X
R1880493-16 CCB	1	15:19:05	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

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File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

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Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

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

Title :
Date : 09/26/2024
Name :

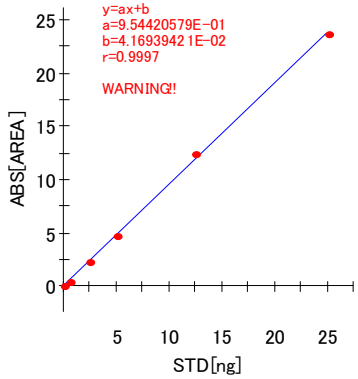
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0445	0.0029	-	09/26/2024 06:27	JWN,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.4868	0.4664	6.7	09/26/2024 06:30	JWN,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.3165	2.3834	4.7	09/26/2024 06:34	JWN,NIC3
4	2.000	2.500	2.500	2.500	5.000	4.7003	4.8811	2.4	09/26/2024 06:37	JWN,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.4111	12.9601	3.7	09/26/2024 06:40	JWN,NIC3
6	10.000	2.500	2.500	2.500	25.000	23.7171	24.8061	0.8	09/26/2024 06:57	JWN,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	XICV	2.500	2.500	2.500	6.5698	6.8399	2.736	-	09/26/2024 07:00	JWN,NIC3
2	XICB	2.500	2.500	2.500	0.0585	0.0176	0.007	-	09/26/2024 07:03	JWN,NIC3
3	ICV	2.500	2.500	2.500	7.5037	7.8184	3.127	-	09/26/2024 07:08	JWN,NIC3
4	ICB	2.500	2.500	2.500	0.0548	0.0137	0.005	-	09/26/2024 07:12	JWN,NIC3
5	0.2PPB	2.500	2.500	2.500	0.5219	0.5031	0.201	-	09/26/2024 07:16	JWN,NIC3
6	WG1976277-1 WG1976277	2.500	2.500	2.500	0.0587	0.0178	0.007	-	09/26/2024 08:10	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1976277-2 WG1976277	2.500	2.500	2.500	2.1619	2.2215	0.889	-	09/26/2024 08:13	JWN,NIC3
8	L2454653-01 WG1976277	2.500	2.500	2.500	0.0892	0.0498	0.020	-	09/26/2024 08:16	JWN,NIC3
9	WG1976277-3 WG1976277	2.500	2.500	2.500	11.1227	11.6102	4.644	-	09/26/2024 08:20	JWN,NIC3
10	WG1976277-4 WG1976277	2.500	2.500	2.500	0.1155	0.0773	0.031	-	09/26/2024 08:23	JWN,NIC3
11	L2453692-10 WG1975263	2.500	2.500	2.500	0.0933	0.0541	0.022	-	09/26/2024 08:26	JWN,NIC3
12	L2453795-01 WG1975263	2.500	2.500	2.500	0.0935	0.0543	0.022	-	09/26/2024 08:30	JWN,NIC3
13	L2453915-02 WG1975263	2.500	2.500	2.500	0.0880	0.0485	0.019	-	09/26/2024 08:33	JWN,NIC3
14	Check STD(5ug/L)	2.500	2.500	2.500	11.9982	12.5275	5.011	100.2	09/26/2024 08:45	JWN,NIC3
15	Check Blank	2.500	2.500	2.500	0.0543	0.0132	0.005	-	09/26/2024 08:48	JWN,NIC3
16	WG1975760-1 WG1975760	2.500	2.500	2.500	0.0499	0.0086	0.003	-	09/26/2024 09:15	JWN,NIC3
17	WG1975760-2 WG1975760	2.500	2.500	2.500	2.2760	2.3410	0.936	-	09/26/2024 09:18	JWN,NIC3
18	L2454054-37 WG1975760	2.500	2.500	2.500	0.0608	0.0200	0.008	-	09/26/2024 09:21	JWN,NIC3
19	WG1975760-3 WG1975760	2.500	2.500	2.500	11.3452	11.8433	4.737	-	09/26/2024 09:25	JWN,NIC3
20	WG1975760-4 WG1975760	2.500	2.500	2.500	0.0647	0.0241	0.010	-	09/26/2024 09:28	JWN,NIC3
21	WG1976243-1 WG1976243	2.500	2.500	2.500	0.0640	0.0234	0.009	-	09/26/2024 10:05	JWN,NIC3
22	WG1976243-2 WG1976243	2.500	2.500	2.500	2.1016	2.1583	0.863	-	09/26/2024 10:08	JWN,NIC3
23	L2454087-01 WG1976243	2.500	2.500	2.500	3.7325	3.8671	1.547	-	09/26/2024 10:11	JWN,NIC3
24	WG1976243-3 WG1976243	2.500	2.500	2.500	15.0134	15.6867	6.275	-	09/26/2024 10:15	JWN,NIC3
25	WG1976243-4 WG1976243	2.500	2.500	2.500	3.5069	3.6307	1.452	-	09/26/2024 10:18	JWN,NIC3
26	Check STD(5ug/L)	2.500	2.500	2.500	12.0617	12.5940	5.038	100.8	09/26/2024 10:21	JWN,NIC3
27	Check Blank	2.500	2.500	2.500	0.0540	0.0129	0.005	-	09/26/2024 10:25	JWN,NIC3
28	L2454014-03 WG1976243	2.500	2.500	2.500	0.0616	0.0209	0.008	-	09/26/2024 10:29	JWN,NIC3
29	L2454278-01 WG1976243	2.500	2.500	2.500	0.2171	0.1838	0.074	-	09/26/2024 10:32	JWN,NIC3
30	L2454289-12 WG1976243	2.500	2.500	2.500	0.0587	0.0178	0.007	-	09/26/2024 10:35	JWN,NIC3
31	L2454406-01 WG1976243	2.500	2.500	2.500	0.0687	0.0283	0.011	-	09/26/2024 10:39	JWN,NIC3
32	WG1975633-1 WG1975633	2.500	2.500	2.500	0.0968	0.0577	0.023	-	09/26/2024 11:42	JWN,NIC3
33	WG1975633-2 WG1975633	2.500	2.500	2.500	2.2876	2.3532	0.941	-	09/26/2024 11:45	JWN,NIC3
34	L2453613-02 WG1975633	2.500	2.500	2.500	0.1252	0.0875	0.035	-	09/26/2024 11:48	JWN,NIC3
35	WG1975633-3 WG1975633	2.500	2.500	2.500	10.4563	10.9120	4.365	-	09/26/2024 11:52	JWN,NIC3
36	WG1975633-4 WG1975633	2.500	2.500	2.500	11.7171	12.2330	4.893	-	09/26/2024 11:55	JWN,NIC3
37	L2453613-01 WG1975633	2.500	2.500	2.500	0.1115	0.0731	0.029	-	09/26/2024 11:58	JWN,NIC3
38	Check STD(5ug/L)	2.500	2.500	2.500	12.2452	12.7863	5.115	102.3	09/26/2024 12:01	JWN,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	Check Blank	2.500	2.500	2.500	0.0492	0.0079	0.003	-	09/26/2024 12:05	JWN,NIC3
40	L2453613-03 WG1975633	2.500	2.500	2.500	0.1266	0.0890	0.036	-	09/26/2024 12:16	JWN,NIC3
41	L2453613-04 WG1975633	2.500	2.500	2.500	0.1585	0.1224	0.049	-	09/26/2024 12:19	JWN,NIC3
42	L2453613-05 WG1975633	2.500	2.500	2.500	0.1785	0.1433	0.057	-	09/26/2024 12:22	JWN,NIC3
43	L2453613-06 WG1975633	2.500	2.500	2.500	0.2416	0.2095	0.084	-	09/26/2024 12:26	JWN,NIC3
44	L2453613-07 WG1975633	2.500	2.500	2.500	0.2283	0.1955	0.078	-	09/26/2024 12:29	JWN,NIC3
45	L2453613-08 WG1975633	2.500	2.500	2.500	0.2941	0.2645	0.106	-	09/26/2024 12:32	JWN,NIC3
46	L2453613-09 WG1975633	2.500	2.500	2.500	0.3110	0.2822	0.113	-	09/26/2024 12:36	JWN,NIC3
47	L2453613-10 WG1975633	2.500	2.500	2.500	0.3893	0.3642	0.146	-	09/26/2024 12:39	JWN,NIC3
48	L2453613-11 WG1975633	2.500	2.500	2.500	0.4420	0.4194	0.168	-	09/26/2024 12:42	JWN,NIC3
49	L2454050-01 WG1975633	2.500	2.500	2.500	0.2159	0.1825	0.073	-	09/26/2024 12:46	JWN,NIC3
50	Check STD(5ug/L)	2.500	2.500	2.500	12.2531	12.7946	5.118	102.4	09/26/2024 12:49	JWN,NIC3
51	Check Blank	2.500	2.500	2.500	0.0483	0.0069	0.003	-	09/26/2024 12:52	JWN,NIC3
52	L2454050-02 WG1975633	2.500	2.500	2.500	0.1007	0.0618	0.025	-	09/26/2024 12:55	JWN,NIC3
53	L2454050-03 WG1975633	2.500	2.500	2.500	0.1146	0.0764	0.031	-	09/26/2024 12:59	JWN,NIC3
54	L2454050-04 WG1975633	2.500	2.500	2.500	0.1352	0.0980	0.039	-	09/26/2024 13:02	JWN,NIC3
55	WG1976221-1 WG1976221	2.500	2.500	2.500	0.0719	0.0316	0.013	-	09/26/2024 13:05	JWN,NIC3
56	WG1976221-2 WG1976221	2.500	2.500	2.500	2.3315	2.3992	0.960	-	09/26/2024 13:09	JWN,NIC3
57	L2454059-02 WG1976221	2.500	2.500	2.500	0.2100	0.1763	0.071	-	09/26/2024 13:12	JWN,NIC3
58	WG1976221-3 WG1976221	2.500	2.500	2.500	11.3212	11.8182	4.727	-	09/26/2024 13:15	JWN,NIC3
59	WG1976221-4 WG1976221	2.500	2.500	2.500	0.0479	0.0065	0.003	-	09/26/2024 13:19	JWN,NIC3
60	L2454059-01 WG1976221	2.500	2.500	2.500	0.0459	0.0044	0.002	-	09/26/2024 13:22	JWN,NIC3
61	L2454352-01 WG1976221	2.500	2.500	2.500	0.0603	0.0195	0.008	-	09/26/2024 13:25	JWN,NIC3
62	Check STD(5ug/L)	2.500	2.500	2.500	12.0926	12.6264	5.051	101.0	09/26/2024 13:28	JWN,NIC3
63	Check Blank	2.500	2.500	2.500	0.0502	0.0089	0.004	-	09/26/2024 13:32	JWN,NIC3
64	WG1976164-1 WG1976164	2.500	2.500	2.500	0.0298	-0.0125	-0.005	-	09/26/2024 13:35	JWN,NIC3
65	WG1976164-2 WG1976164	2.500	2.500	2.500	2.3022	2.3685	0.947	-	09/26/2024 13:38	JWN,NIC3
66	L2454092-01 WG1976164	2.500	2.500	2.500	0.0395	-0.0023	-0.001	-	09/26/2024 13:42	JWN,NIC3
67	WG1976164-3 WG1976164	2.500	2.500	2.500	10.9251	11.4032	4.561	-	09/26/2024 13:45	JWN,NIC3
68	WG1976164-4 WG1976164	2.500	2.500	2.500	11.0746	11.5598	4.624	-	09/26/2024 13:48	JWN,NIC3
69	L2454092-02 WG1976164	2.500	2.500	2.500	0.0353	-0.0067	-0.003	-	09/26/2024 13:52	JWN,NIC3
70	L2454092-03 WG1976164	2.500	2.500	2.500	0.0344	-0.0076	-0.003	-	09/26/2024 13:55	JWN,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2454092-05 WG1976164	2.500	2.500	2.500	0.0299	-0.0124	-0.005	-	09/26/2024 13:58	JWN,NIC3
72	WG1975973-1 WG1975973	2.500	2.500	2.500	0.0375	-0.0044	-0.002	-	09/26/2024 14:07	JWN,NIC3
73	WG1975973-2 WG1975973	2.500	2.500	2.500	2.3263	2.3937	0.957	-	09/26/2024 14:10	JWN,NIC3
74	Check STD(5ug/L)	2.500	2.500	2.500	12.0659	12.5984	5.039	100.8	09/26/2024 14:13	JWN,NIC3
75	Check Blank	2.500	2.500	2.500	0.0507	0.0094	0.004	-	09/26/2024 14:17	JWN,NIC3
76	I2453652-01 WG1975973	2.500	2.500	2.500	1.2257	1.2405	0.496	-	09/26/2024 14:20	JWN,NIC3
77	WG1975973-3 WG1975973	2.500	2.500	2.500	12.6756	13.2373	5.295	-	09/26/2024 14:23	JWN,NIC3
78	WG1975973-4 WG1975973	2.500	2.500	2.500	1.2231	1.2378	0.495	-	09/26/2024 14:27	JWN,NIC3
79	I2454059-01 WG1975973	2.500	2.500	2.500	0.0454	0.0039	0.002	-	09/26/2024 14:30	JWN,NIC3
80	I2454059-02 WG1975973	2.500	2.500	2.500	0.0454	0.0039	0.002	-	09/26/2024 14:33	JWN,NIC3
81	I2454081-01 WG1975973	2.500	2.500	2.500	0.0551	0.0140	0.006	-	09/26/2024 14:37	JWN,NIC3
82	I2454081-02 WG1975973	2.500	2.500	2.500	0.0579	0.0170	0.007	-	09/26/2024 14:40	JWN,NIC3
83	wg1976678-1 wg1976678	2.500	2.500	2.500	0.1107	0.0723	0.029	-	09/26/2024 15:05	JWN,NIC3
84	wg1976678-2 wg1976678	2.500	2.500	2.500	2.7710	2.8596	1.144	-	09/26/2024 15:09	JWN,NIC3
85	L2454653-03 wg1976678	2.500	2.500	2.500	0.1270	0.0894	0.036	-	09/26/2024 15:12	JWN,NIC3
86	Check STD(5ug/L)	2.500	2.500	2.500	11.4902	11.9952	4.798	96.0	09/26/2024 15:15	JWN,NIC3
87	Check Blank	2.500	2.500	2.500	0.0523	0.0111	0.004	-	09/26/2024 15:19	JWN,NIC3
88	wg1976678-3 wg1976678	2.500	2.500	2.500	10.9477	11.4268	4.571	-	09/26/2024 15:22	JWN,NIC3
89	wg1976678-4 wg1976678	2.500	2.500	2.500	0.1838	0.1489	0.060	-	09/26/2024 15:25	JWN,NIC3
90	wg1976695-1 wg1976695	2.500	2.500	2.500	0.0683	0.0279	0.011	-	09/26/2024 15:29	JWN,NIC3
91	wg1976695-2 wg1976695	2.500	2.500	2.500	2.3505	2.4191	0.968	-	09/26/2024 15:32	JWN,NIC3
92	L2454994-01 wg1976695	2.500	2.500	2.500	0.0455	0.0040	0.002	-	09/26/2024 15:35	JWN,NIC3
93	wg1976695-3 wg1976695	2.500	2.500	2.500	11.3919	11.8922	4.757	-	09/26/2024 15:38	JWN,NIC3
94	wg1976695-4 wg1976695	2.500	2.500	2.500	0.0450	0.0035	0.001	-	09/26/2024 15:42	JWN,NIC3
95	Check STD(5ug/L)	2.500	2.500	2.500	11.7287	12.2451	4.898	98.0	09/26/2024 15:46	JWN,NIC3
96	Check Blank	2.500	2.500	2.500	0.0544	0.0133	0.005	-	09/26/2024 15:49	JWN,NIC3
97	WG1976280-1 WG1976280	2.500	2.500	2.500	0.0469	0.0055	0.002	-	09/26/2024 15:56	DJR,NIC3
98	WG1976280-2 WG1976280	2.500	2.500	2.500	2.1459	2.2047	0.882	-	09/26/2024 16:00	DJR,NIC3
99	L2454653-02 WG1976280	2.500	2.500	2.500	0.3072	0.2782	0.111	-	09/26/2024 16:03	DJR,NIC3
100	WG1976280-3 WG1976280	2.500	2.500	2.500	10.9778	11.4584	4.583	-	09/26/2024 16:06	DJR,NIC3
101	WG1976280-4 WG1976280	2.500	2.500	2.500	0.8390	0.8354	0.334	-	09/26/2024 16:10	DJR,NIC3
102	xWG1976280-4 WG1976280	2.500	2.500	2.500	0.8427	0.8393	0.336	-	09/26/2024 16:14	DJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	Check STD(5ug/L)	2.500	2.500	2.500	11.7095	12.2250	4.890	97.8	09/26/2024 16:17	DJR,NIC3
104	Check Blank	2.500	2.500	2.500	0.0490	0.0077	0.003	-	09/26/2024 16:20	DJR,NIC3

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

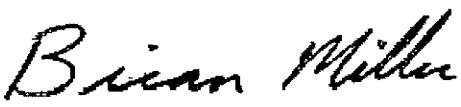
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ISO/IEC 17025:2017 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

ISO/IEC 17034:2016 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

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ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME	CURVE: WG1975877
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	XICV	
2	8	XICB	
3	7	ICV	
4	8	ICB	
5	9	0.2PPB	
6	10	WG1976277-1	WG1976277
7	11	WG1976277-2	WG1976277
8	12	L2454653-01	WG1976277
9	13	WG1976277-3	WG1976277
10	14	WG1976277-4	WG1976277
11	15	L2453692-10	WG1975263
12	16	L2453795-01	WG1975263
13	17	L2453915-02	WG1975263
14	19	Check STD(5ug/L)	
15	20	Check Blank	
16	21	WG1975760-1	WG1975760
17	22	WG1975760-2	WG1975760
18	23	L2454054-37	WG1975760
19	24	WG1975760-3	WG1975760
20	25	WG1975760-4	WG1975760
21	26	WG1976243-1	WG1976243
22	27	WG1976243-2	WG1976243
23	28	L2454087-01	WG1976243
24	29	WG1976243-3	WG1976243
25	30	WG1976243-4	WG1976243
26	31	Check STD(5ug/L)	
27	32	Check Blank	
28	33	L2454014-03	WG1976243
29	34	L2454278-01	WG1976243
30	35	L2454289-12	WG1976243
31	36	L2454406-01	WG1976243
32	37	WG1975633-1	WG1975633
33	38	WG1975633-2	WG1975633
34	39	L2453613-02	WG1975633
35	40	WG1975633-3	WG1975633
36	41	WG1975633-4	WG1975633
37	42	L2453613-01	WG1975633

38	43	Check STD(5ug/L)
39	44	Check Blank
40	45	L2453613-03 WG1975633
41	46	L2453613-04 WG1975633
42	47	L2453613-05 WG1975633
43	48	L2453613-06 WG1975633
44	49	L2453613-07 WG1975633
45	50	L2453613-08 WG1975633
46	51	L2453613-09 WG1975633
47	52	L2453613-10 WG1975633
48	53	L2453613-11 WG1975633
49	54	L2454050-01 WG1975633
50	55	Check STD(5ug/L)
51	56	Check Blank
52	57	L2454050-02 WG1975633
53	58	L2454050-03 WG1975633
54	59	L2454050-04 WG1975633
55	60	WG1976221-1 WG1976221
56	61	WG1976221-2 WG1976221
57	62	L2454059-02 WG1976221
58	63	WG1976221-3 WG1976221
59	64	WG1976221-4 WG1976221
60	65	L2454059-01 WG1976221
61	66	L2454352-01 WG1976221
62	67	Check STD(5ug/L)
63	68	Check Blank
64	69	WG1976164-1 WG1976164
65	70	WG1976164-2 WG1976164
66	71	L2454092-01 WG1976164
67	72	WG1976164-3 WG1976164
68	73	WG1976164-4 WG1976164
69	74	L2454092-02 WG1976164
70	75	L2454092-03 WG1976164
71	76	L2454092-05 WG1976164
72	77	WG1975973-1 WG1975973
73	78	WG1975973-2 WG1975973
74	79	Check STD(5ug/L)
75	80	Check Blank
76	1	l2453652-01 WG1975973
77	2	WG1975973-3 WG1975973
78	3	WG1975973-4 WG1975973
79	4	l2454059-01 WG1975973
80	5	l2454059-02 WG1975973
81	6	l2454081-01 WG1975973

82	7	l2454081-02 WG1975973
83	8	wg1976678-1 wg1976678
84	9	wg1976678-2 wg1976678
85	10	L2454653-03 wg1976678
86	11	Check STD(5ug/L)
87	12	Check Blank
88	13	wg1976678-3 wg1976678
89	14	wg1976678-4 wg1976678
90	15	wg1976695-1 wg1976695
91	16	wg1976695-2 wg1976695
92	17	L2454994-01 wg1976695
93	18	wg1976695-3 wg1976695
94	19	wg1976695-4 wg1976695
95	23	Check STD(5ug/L)
96	24	Check Blank
97	25	WG1976280-1 WG1976280
98	26	WG1976280-2 WG1976280
99	27	L2454653-02 WG1976280
100	28	WG1976280-3 WG1976280
101	29	WG1976280-4 WG1976280
102	30	xWG1976280-4 WG1976280
103	35	Check STD(5ug/L)
104	36	Check Blank

METALS ELN REPORT

Workgroup: WG1975973

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG24381708 07AJTV1	METSPIKE	HG24381708 07AJTV1	320, 348

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	KMNO4 SOIL
	NaCl-NH2OH.HCl	HH2439240955JWN
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2452699-01 WATER	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2453652-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2453908-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2453913-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2453916-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2453921-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2454024-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2454037-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2454059-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2454059-02 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2454081-01 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
L2454081-02 SAMP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	

Reported: 26-SEP-24 04:53 PM

METALS ELN REPORT

Workgroup: WG1975973

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1975973-1 BLANK	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	ELN: JDH
WG1975973-2 LCS	09/25/24 11:49	Alexander Tarlton	25	0.25	09/25/24 11:49	5	95.0	09/25/24 13:49	25	
WG1975973-3 MS	09/25/24 11:49	Alexander Tarlton	25	1.25	09/25/24 11:49	5	95.0	09/25/24 13:49	25	
WG1975973-4 DUP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	
WG1975973-5 MS	09/25/24 11:49	Alexander Tarlton	25	1.25	09/25/24 11:49	5	95.0	09/25/24 13:49	25	
WG1975973-6 DUP	09/25/24 11:49	Alexander Tarlton	25		09/25/24 11:49	5	95.0	09/25/24 13:49	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 26-SEP-24 04:53 PM

METALS ELN REPORT

Workgroup: WG1976221

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG24381708 07AJTV1	METSPIKE	HG24381708 07AJTV1	320, 348

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	PP2439240820AJT
	NaCl-NH2OH.HCl	HH2439240955JWN
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2454059-01 SAMP	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	
L2454059-02 SAMP	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	
L2454352-01 SAMP	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	
WG1976221-1 BLANK	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	ELN:CME
WG1976221-2 LCS	09/25/24 20:15	Maisie Mcqueen	NA	25	0.25	09/25/24 20:15	5	94.7	09/25/24 22:15	25	
WG1976221-3 MS	09/25/24 20:15	Maisie Mcqueen	NA	25	1.25	09/25/24 20:15	5	94.7	09/25/24 22:15	25	
WG1976221-4 DUP	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	

METALS ELN REPORT

Workgroup: WG1976221

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 26-SEP-24 04:53 PM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 12:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976723.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	5.0	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 12:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976723.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.2	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: ***Calculation from TKN & NO3/NO2***

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 9/26/2024 12:40
Technician: MRM
Work group: WG1976723
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2452564-01	1.27	0.094	1.0	1.27
SAMP	L2452564-02	0.211	0	1.0	0.211
SAMP	L2453131-01	27.9	0.92	1.0	28.82
SAMP	L2453131-02	7.07	5.2	1.0	12.27
SAMP	L2454059-01	0	5	1.0	5
SAMP	L2454059-02	0.0842	2.2	1.0	2.2
SAMP	L2454072-01	0.212	0.39	1.0	0.39
SAMP	L2454081-01	0.48	1.7	1.0	2.18
SAMP	L2454081-02	0.718	1.7	1.0	2.418

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.084	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975410-1	**Date Collected**	: NA
Client ID	: WG1975410-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 16:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.109	0.300	0.022	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975410-3	**Date Collected**	: 09/18/24 09:05
Client ID	: WG1975410-3 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 16:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.243	0.300	0.066	J

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_02-09-37PM.OMN Created: 9/24/2024 2:09:37 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_02-09-37PM.OMN Last Modified: 9/24/2024 3:06:28 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
STD 1	1	S1	10.00000			
STD 2	1	S2	8.00000			
STD 3	1	S3	4.00000			
STD 4	1	S4	2.00000			
STD 5	1	S5	1.00000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.05000			
STD 10	1	S10	0.00000			
CCV 0.4000	1	S6	0.38400	96%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.06105	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02617			
	Known Conc:		100.00000			97%
HI ICV 8.0	1	1	7.90381			
LO ICV 1.0	1	2	1.02970			103%
ICB	1	3	0.00359			
WG1974611-1	1	4	-0.00728		1.50	91%
WG1974611-2	1	5	18.17242		7.50	
LCS LO	1	6	1.87629		1.50	94%
L2453309-02	1	7	16.68735		3.00	
L2453404-02	1	8	0.24426		1.50	
L2453404-05	1	9	0.32843		3.00	
L2453404-08	1	10	-0.00377		1.50	97%
CCV 0.4000	1	S6	0.38707			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11676			83%
	Known Conc:		100.00000			
CCB	1	S10	0.03157			
	Known Conc:		100.00000			
L2453404-11	1	11	0.50303		3.00	
L2453404-14	1	12	0.30369		3.00	
L2453404-17	1	13	0.37756		1.50	
L2453404-20	1	14	0.19113		1.50	
L2453404-23	1	15	0.07368		1.50	
L2453404-26	1	16	0.105 ~~0.06432~~		~~1.50~~	3.0
L2453422-02	1	17	0.02399		3.00	
L2453422-04	1	18	0.00412		1.50	
L2453422-06	1	19	-0.01161		1.50	
L2453422-08	1	20	0.00595		1.50	
CCV 0.4000	1	S6	0.37872	95%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11441	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02524			
	Known Conc:		100.00000			
L2453422-10	1	21	0.00176		1.50	
L2453422-12	1	22	-0.00738		1.50	
L2453422-14	1	23	-0.00325		1.50	
L2453422-16	1	24	0.00977		1.50	
L2453422-18	1	25	0.33543		1.50	
L2453422-20	1	26	0.15775		1.50	
WG1974611-4	1	27	4.36508		1.50	105%
WG1974611-3	1	28	0.30755		1.50	64% (LC+RC)
CCV 0.4000	1	S6	0.38747	97%		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

CCV 4.0000	1 S3	4.12521	103
	Known Conc:	100.00000	
CCB	1 S10	0.02592	
	Known Conc:	100.00000	

Channel 2 (Ammonia High) - Current View

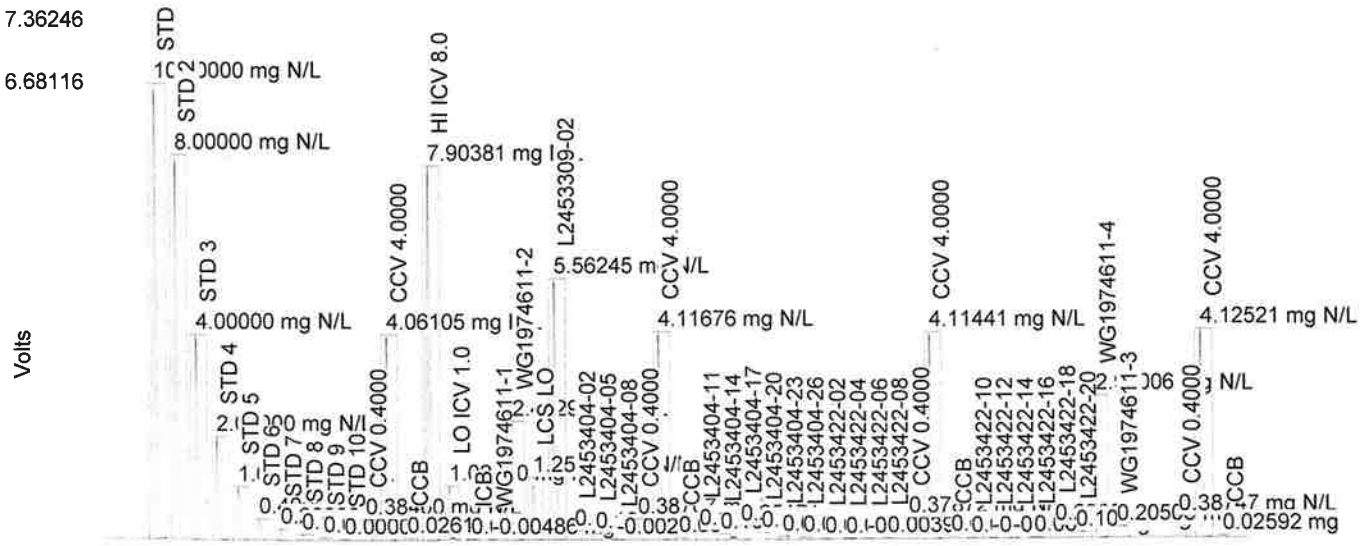


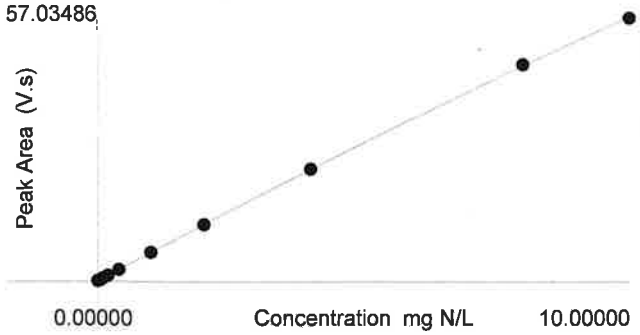
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_03-11-50PM.OMN Created: 9/24/2024 3:11:50 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_03-11-50PM.OMN Last Modified: 9/24/2024 3:40:38 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38663	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12086	103%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03216 ✓			
	Known Conc:		100.00000			
WG1974987-1 T	1	1	0.01657			93%
WG1974987-2 T	1	2	37.13968		15.00	
LCS LO	1	3	4.22557		3.00	106%
L2452439-01 T	1	4	11.97604		3.00	
L2452439-03 T	1	5	2.23687		3.00	
L2452659-01 T	1	~~6~~	~~36.69828~~		3.00	
L2452659-02 T	1	~~7~~	~~2.34757~~		3.00	w/dilution.
L2452661-01 T	1	~~8~~	~~38.40069~~		3.00	
L2452661-02 T	1	~~9~~	~~6.77500~~		3.00	
L2452954-02 T	1	10	1.88810		3.00	
CCV 0.4000	1	S6	0.42722	107%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13375	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.04255 ✓			
	Known Conc:		100.00000			
L2453069-01 T	1	11	0.40548		3.00	
L2453069-02 T	1	12	0.52610		3.00	
L2453069-03 T	1	13	0.40668		3.00	
L2453116-01 T	1	14	0.81322		3.00	
L2453562-01 T	1	15	1.23704		3.00	
L2453588-01 T	1	16	0.60520		3.00	
L2453851-01 T	1	~~17~~	~~41.57821~~		3.00	
L2453851-02 T	1	~~18~~	~~25.54790~~		3.00	
WG1974987-4 T	1	19	15.15484		3.00	112%
WG1974987-3 T	1	20	~~6.94501~~ ✓		3.00	16%
CCV 0.4000	1	S6	0.50051			
	Known Conc:		~~100.00000~~			

reinject - OK

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

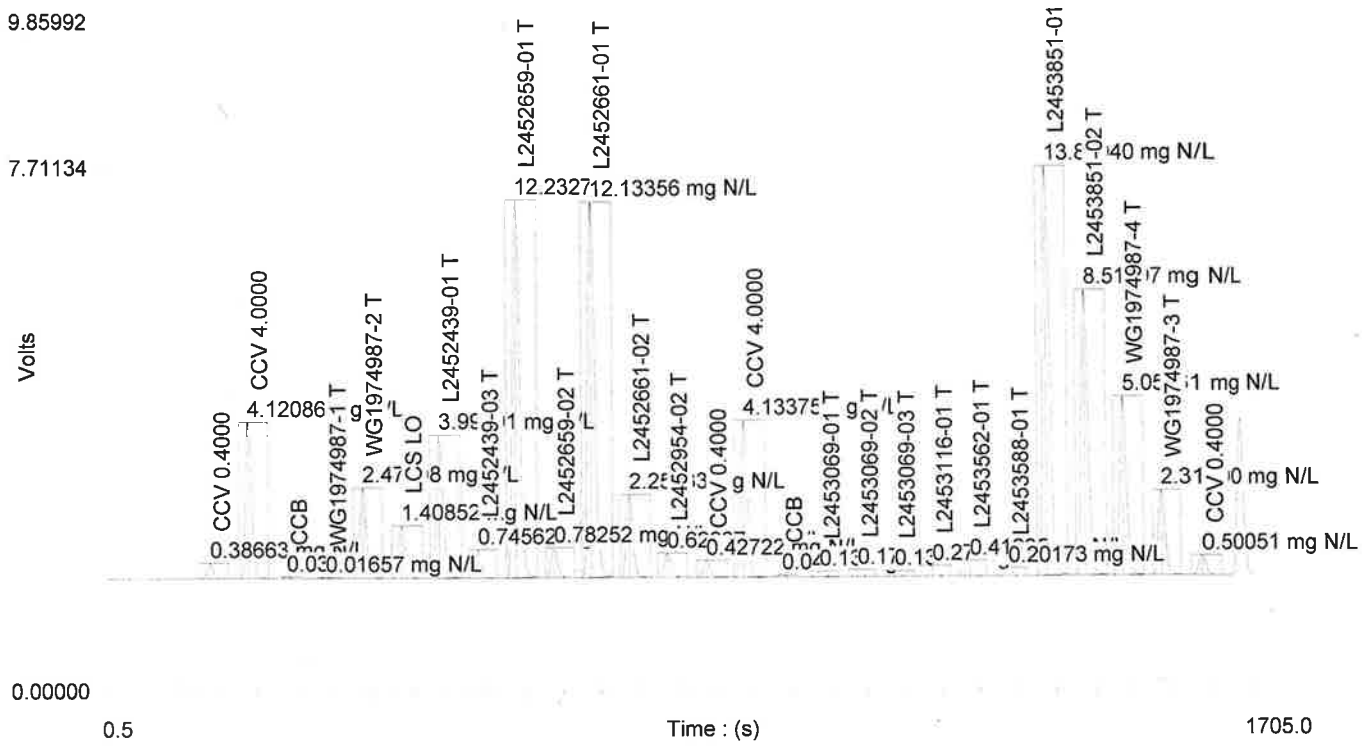
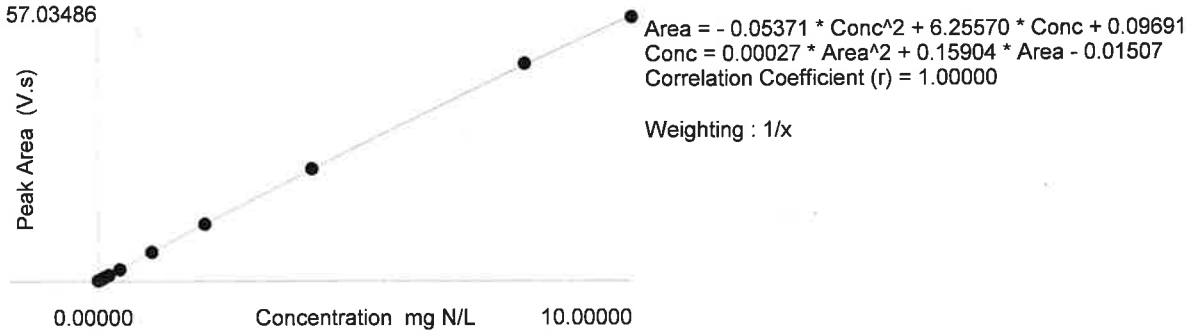


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

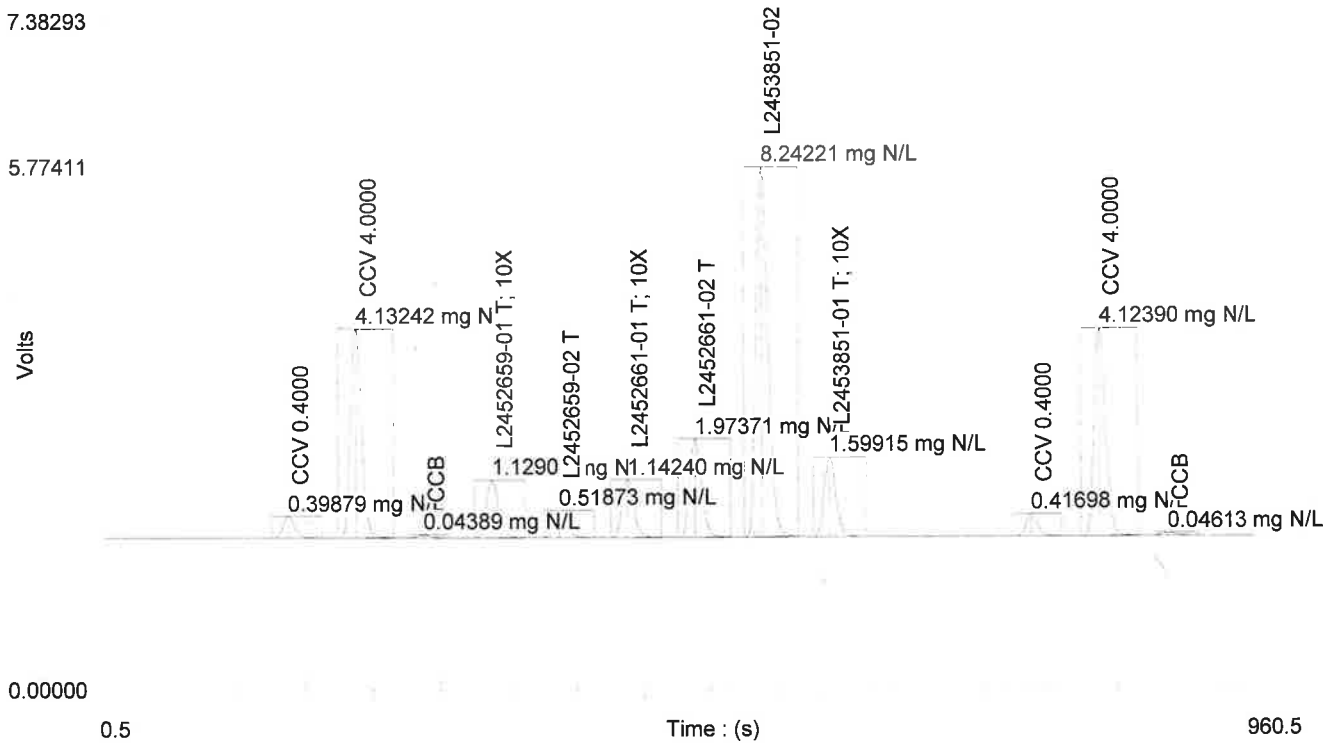
Date : 9/24/2024

Original Run Filename: OM_9-24-2024_03-42-30PM.OMN Created: 9/24/2024 3:42:30 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_03-42-30PM.OMN Last Modified: 9/24/2024 3:58:43 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39879	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13242	103%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.04389			
	Known Conc:		100.00000			
L2452659-01 T; 10X	1	21	33.87167		30.00	
L2452659-02 T	1	22	1.55619		3.00	
L2452661-01 T; 10X	1	23	34.27209		30.00	
L2452661-02 T	1	24	5.92113		3.00	
L2453851-02 T	1	25	24.72663		3.00	
L2453851-01 T; 10X	1	26	47.97457		30.00	
CCV 0.4000	1	S6	0.41698	104%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12390	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.04613			
	Known Conc:		100.00000			

B2

Channel 2 (Ammonia High) - Current View



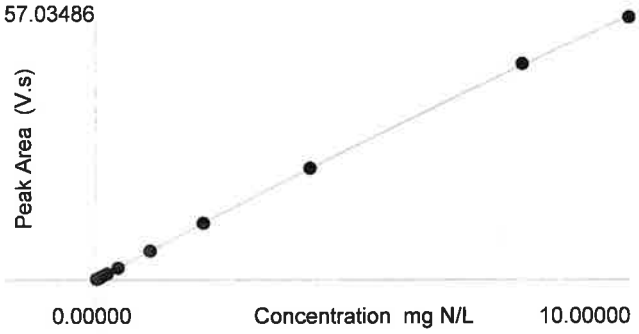
Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_04-34-54PM.OMN Created: 9/24/2024 4:34:54 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_04-34-54PM.OMN Last Modified: 9/24/2024 5:02:27 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40347	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.14306	104%		
	Known Conc:		100.00000			
CCB	1	S10	0.01157	✓		
	Known Conc:		100.00000			
WG1975410-1 T; BLK 9/24	1	1	0.03622			95%
WG1975410-2 T; HI LCS; 5X	1	2	37.92855		15.00	
LO LCS T	1	3	3.85769		3.00	97%
L2453342-10 T	1	4	0.21887		3.00	
L2453400-01 T	1	5	0.13447		3.00	
L2453400-02 T	1	6	0.14047		3.00	
L2453720-02 T	1	7	0.03683	✓	3.00	83%
WG1975410-4 T; 53720.2 MS	1	8	6.66251		3.00	
WG1975410-3 T; 53720.2 DUP	1	9	0.24279	✓	3.00	NC
L2454050-01 T	1	10	0.04661		3.00	
CCV 0.4000	1	S6	0.40045	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12804	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01118	✓		
	Known Conc:		100.00000			
L2454050-02 T	1	11	0.18983		3.00	
L2454050-03 T	1	12	0.04514		3.00	
L2454050-04 T	1	13	0.19692		3.00	
L2454059-01 T	1	14	0.02664		3.00	
L2454059-02 T	1	15	0.08425		3.00	
CCV 0.4000	1	S6	0.39734	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11552	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01054	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

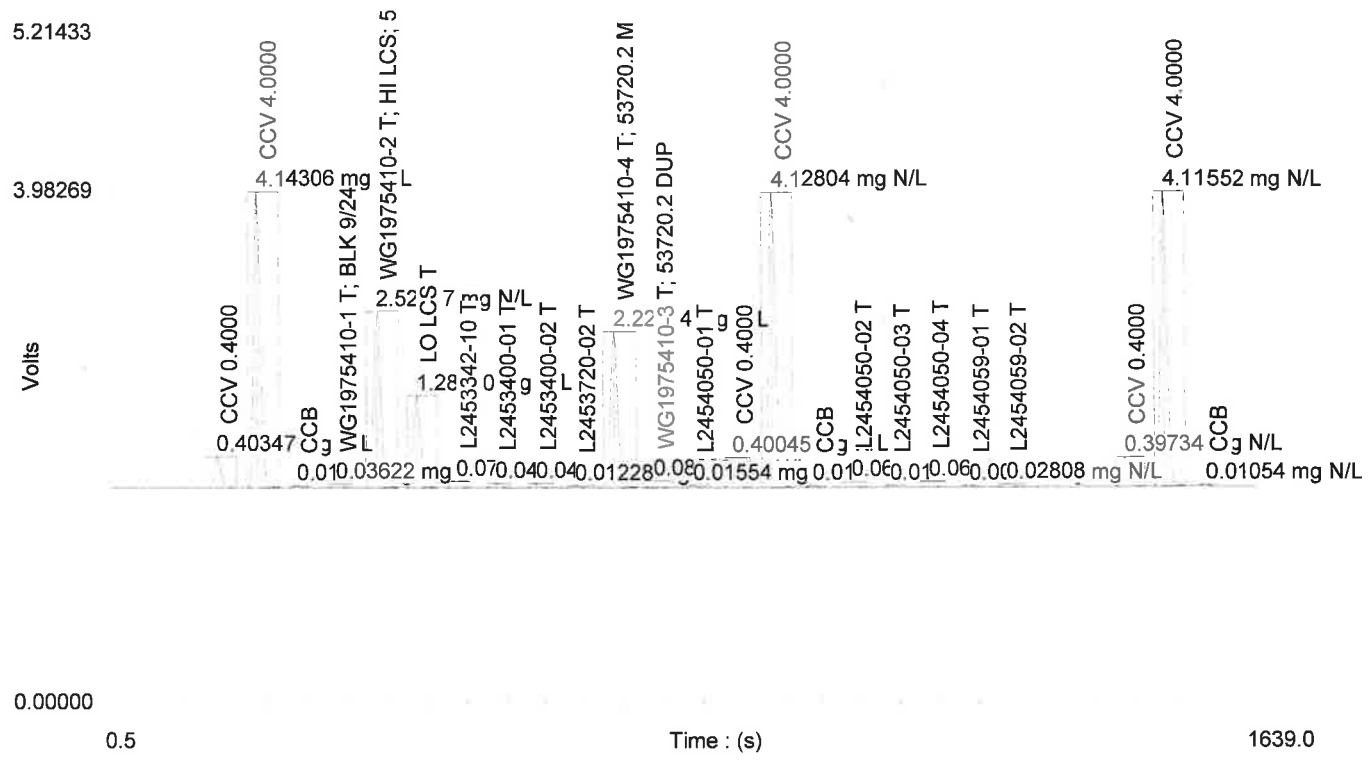
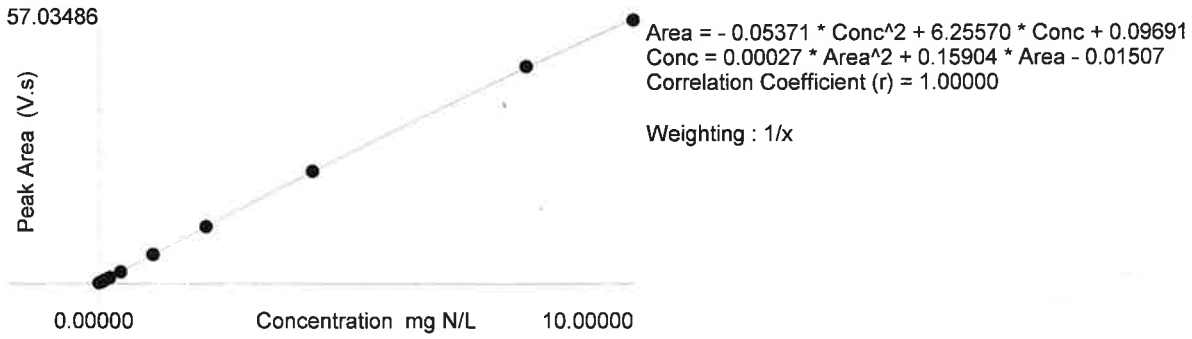


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_05-03-39PM.OMN Created: 9/24/2024 5:03:39 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_05-03-39PM.OMN Last Modified: 9/24/2024 5:44:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39694	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.10480	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01564	✓		
	Known Conc:		100.00000			
WG1974880-1; BLK 9/23	1	1	0.00101		1.50	95%
WG1974880-2; HI LCS; 5X	1	2	18.94386		7.50	95%
LO LCS	1	3	1.91604		1.50	
~~L2452663-01~~	~~1~~	~~4~~	~~899.24512~~		~~30.00~~	w/dilution
~~L2452825-01~~	~~1~~	~~5~~	~~19.70197~~		~~3.00~~	
L2452439-01	1	6	6.16501		3.00	
L2452439-03	1	7	0.41863		1.50	
L2452762-07	1	8	0.08491		1.50	
L2452762-10	1	9	0.05042		1.50	
L2452762-13	1	10	0.09997		1.50	
CCV 0.4000	1	S6	0.41315	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13014	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02807	✓		
	Known Conc:		100.00000			
L2452762-16	1	11	0.02017		1.50	
L2452762-19	1	12	0.02341		1.50	
L2452762-22	1	13	0.01972		1.50	
L2452951-01	1	14	0.06498		1.50	
L2452951-02	1	15	0.02900		1.50	
L2452951-03	1	16	0.01543		1.50	
L2452951-04	1	17	0.05530		1.50	
L2452951-05	1	18	0.03787		1.50	
L2452951-07	1	19	0.02368		1.50	
L2452951-08	1	20	0.01178		1.50	
CCV 0.4000	1	S6	0.40168	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.10472	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02003	✓		
	Known Conc:		100.00000			
L2452951-09	1	21	0.02348	✓	1.50	107%
WG1974880-4; 52951.9 MS	1	22	4.28094		1.50	NC (outlier)
WG1974880-3; 52951.9 DUP	1	23	0.16819	✓	1.50	
L2451318-01	1	24	0.02776		1.50	
L2451318-02	1	25	-0.00516		1.50	
L2452825-01	1	26	17.28792		3.00	
L2452663-01; 50X	1	27	2697.14331		1500.00	
CCV 0.4000	1	S6	0.41839	105%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12936	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02275	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

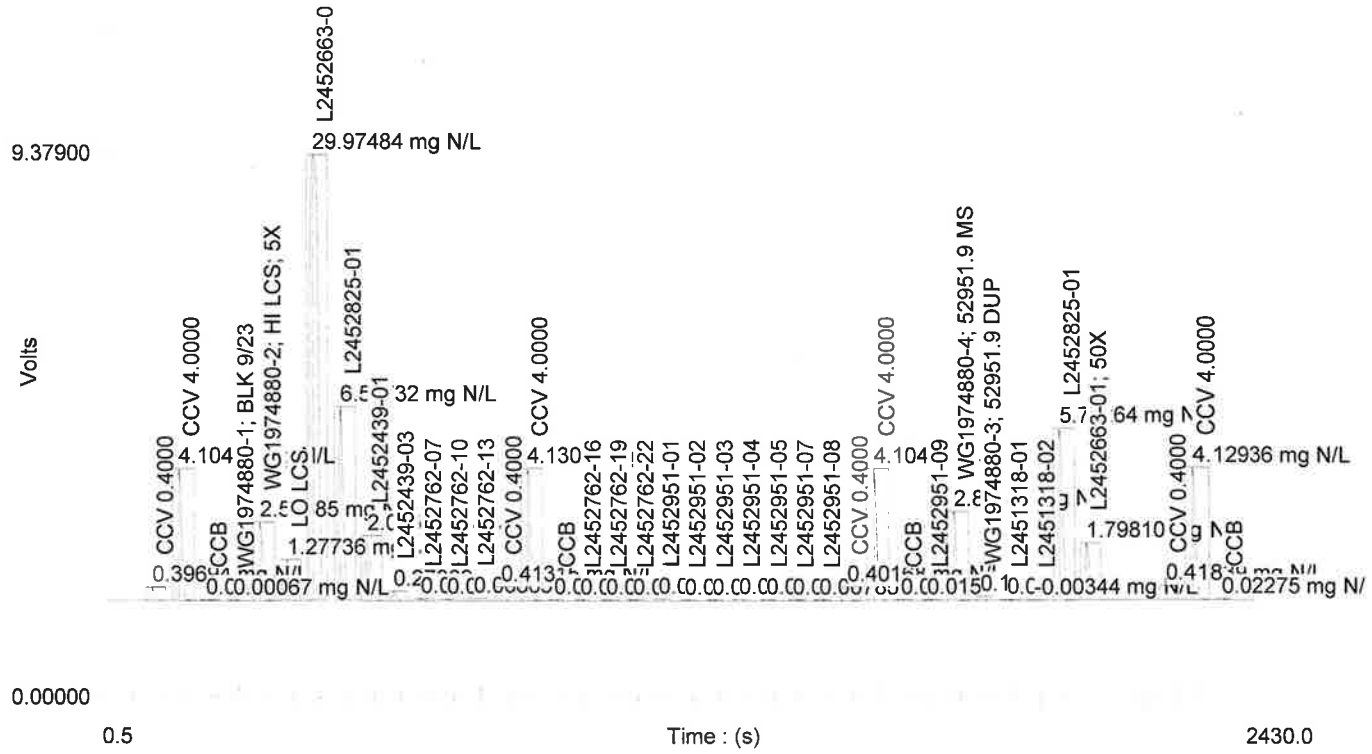
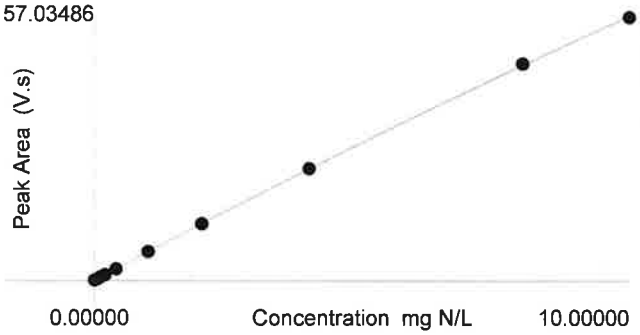


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_05-45-28PM.OMN Created: 9/24/2024 5:45:28 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_05-45-28PM.OMN Last Modified: 9/24/2024 6:23:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40296	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.09160	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02330			
	Known Conc:		100.00000			
WG1974931-1; BLK 9/23	1	1	0.00839		1.50	
WG1974931-2; HI LCS; 5X	1	2	20.41417		7.50	102%
LO LCS	1	3	2.02684		1.50	101%
L2453072-01	1	4	3.12408		7.50	
L2453072-02	1	5	1.54750		7.50	
L2453072-03	1	6	0.93141		7.50	
~~L2453702-04~~ 53072.4	1	7	6.38925		7.50	
L2453118-01	1	8	0.47920		1.50	
L2453285-01	1	9	0.03705		1.50	
L2453285-02	1	10	0.01939		1.50	
CCV 0.4000	1	S6	0.39762	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12069	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01922			
	Known Conc:		100.00000			
L2453285-03	1	11	0.18870		1.50	
L2453285-04	1	12	0.18328		1.50	
L2453198-02	1	13	19.26028		7.50	
L2453198-03	1	14	7.45834		1.50	
L2453123-02	1	15	0.25753		1.50	
L2452994-01	1	16	0.27551		1.50	
L2452994-02	1	17	0.76078		1.50	
L2452967-01	1	18	0.04190		1.50	111%
WG1974931-4; 52967.1 MS	1	19	4.44293		1.50	
WG1974931-3; 52967.1 DUP	1	20	0.13240		1.50	
CCV 0.4000	1	S6	0.41075	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.10704	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02107			
	Known Conc:		100.00000			
L2452967-02	1	21	4.71979		1.50	
L2452967-03	1	22	5.86877		1.50	
L2452967-05	1	23	2.46901		1.50	
L2452967-06	1	24	1.87792		1.50	
CCV 0.4000	1	S6	0.41341	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11104	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01431			
	Known Conc:		100.00000			

NCL (THRU)

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

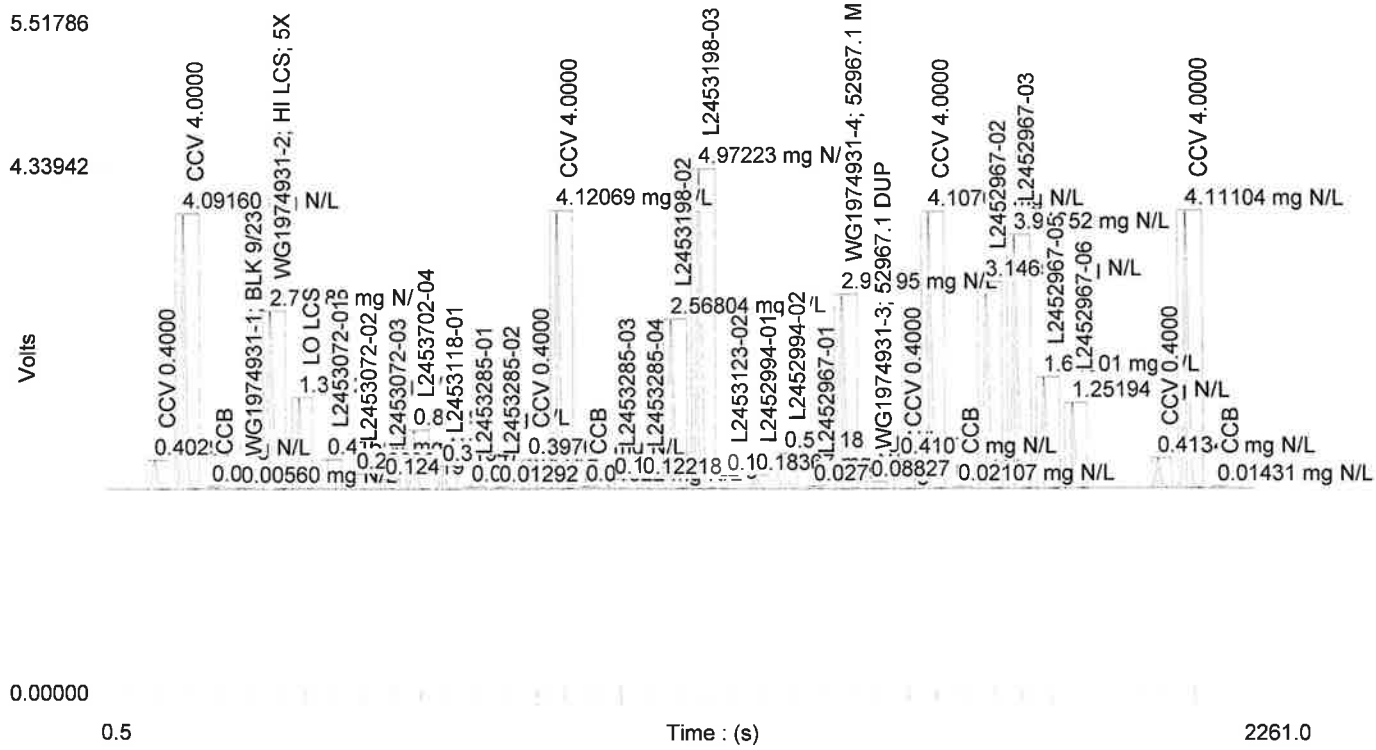
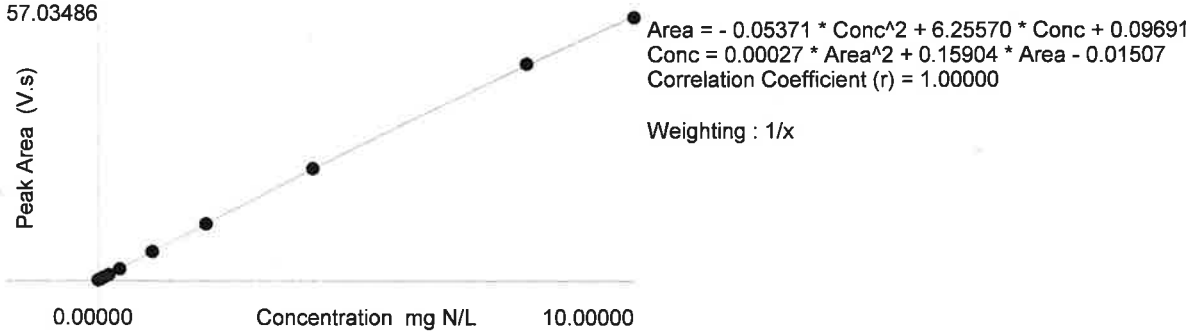


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

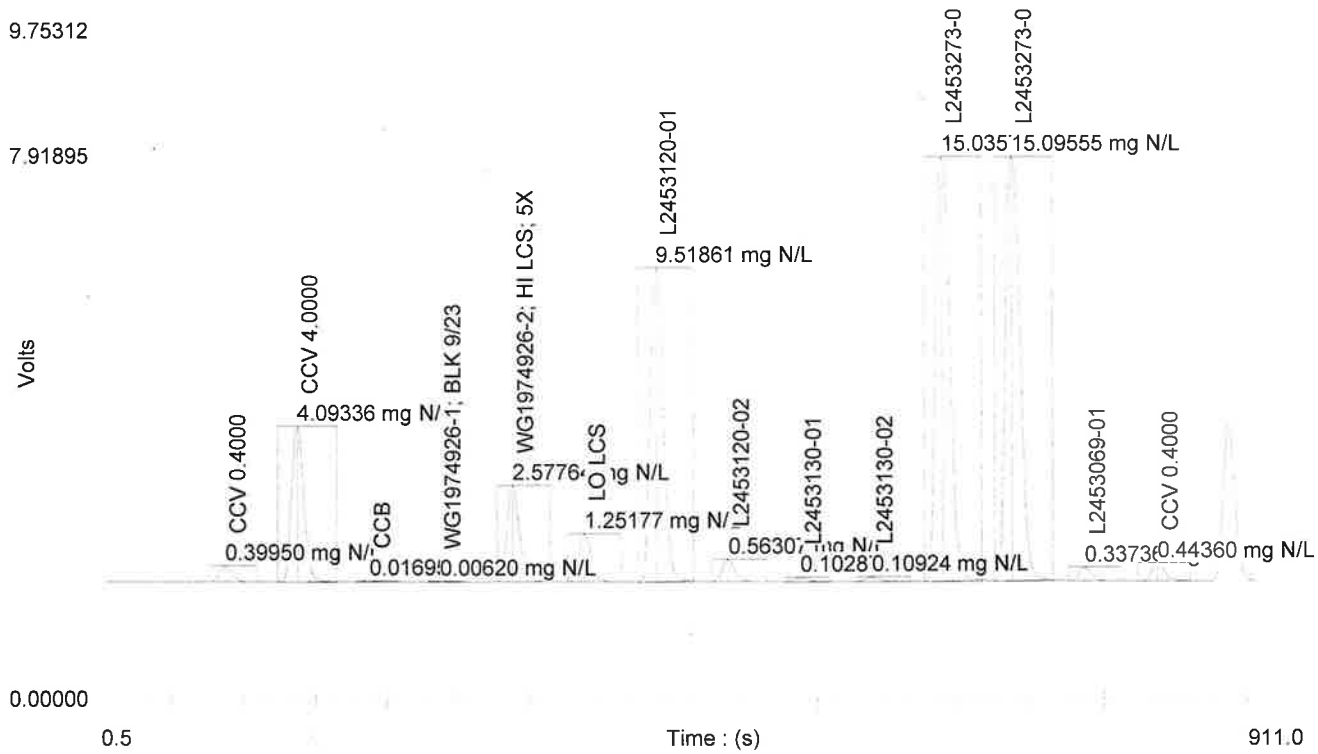
Original Run Filename: OM_9-24-2024_06-24-02PM.OMN Created: 9/24/2024 6:24:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_06-24-02PM.OMN Last Modified: 9/24/2024 6:39:35 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

F

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39950			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09336			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01695			
	Known Conc:		100.00000			
WG1974926-1; BLK 9/23	1	1	0.00930		1.50	
WG1974926-2; HI LCS; 5X	1	2	19.33228		7.50	
LO LCS	1	3	1.87766		1.50	
L2453120-01	1	4	71.38956		7.50	
L2453120-02	1	5	0.84460		1.50	
L2453130-01	1	6	0.15430		1.50	
L2453130-02	1	7	0.16386		1.50	
L2453273-01	1	8	22.55355		1.50	
L2453273-02	1	9	22.64332		1.50	
L2453069-01	1	10	0.50604		1.50	
CCV 0.4000	1	S6	0.44360			
	Known Conc:		100.00000			

100%
103%
97%
94%
w/dilution.
reinject - OK

Channel 2 (Ammonia High) - Current View



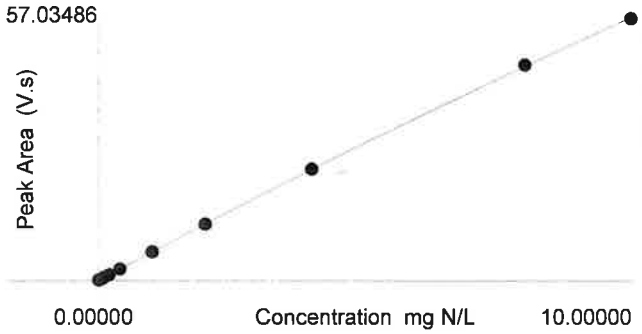
Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_06-41-33PM.OMN Created: 9/24/2024 6:41:33 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_06-41-33PM.OMN Last Modified: 9/24/2024 7:11:54 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40825	102%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.08416	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02265	✓		
	Known Conc:		100.00000			
L2453069-02	1	11	0.03058		1.50	
L2453069-03	1	12	0.01625		1.50	
L2452951-10	1	13	0.04882	✓	1.50	
	Calibration:		Table/Fig. : 1			
WG1974926-4; 52951.10 MS	1	14	4.25540		1.50	107%
WG1974926-3; 52951.10 DUP	1	15	0.16758	✓	1.50	NC (<5 RL)
L2452951-11	1	16	0.05612		1.50	
L2452951-12	1	17	0.05529		1.50	
L2452951-13	1	18	0.04072		1.50	
L2452951-14	1	19	0.04665		1.50	
L2452951-15	1	20	0.06207		1.50	
CCV 0.4000	1	S6	0.40544	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.07187	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.01885	✓		
	Known Conc:		100.00000			
L2452951-16	1	21	0.02111		1.50	
L2452951-18	1	22	0.02894		1.50	
L2452951-20	1	23	0.16122		1.50	
L2452951-22	1	24	0.04567		1.50	
L2452951-23	1	25	0.01348		1.50	
L2453273-01; 10X	1	26	25.17026		15.00	
L2453273-02; 10X	1	27	24.45352		15.00	
L2453069-01	1	28	0.07970		1.50	
CCV 0.4000	1	S6	0.40443	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.05406	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.02106	✓		
	Known Conc:		100.00000			

F2

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

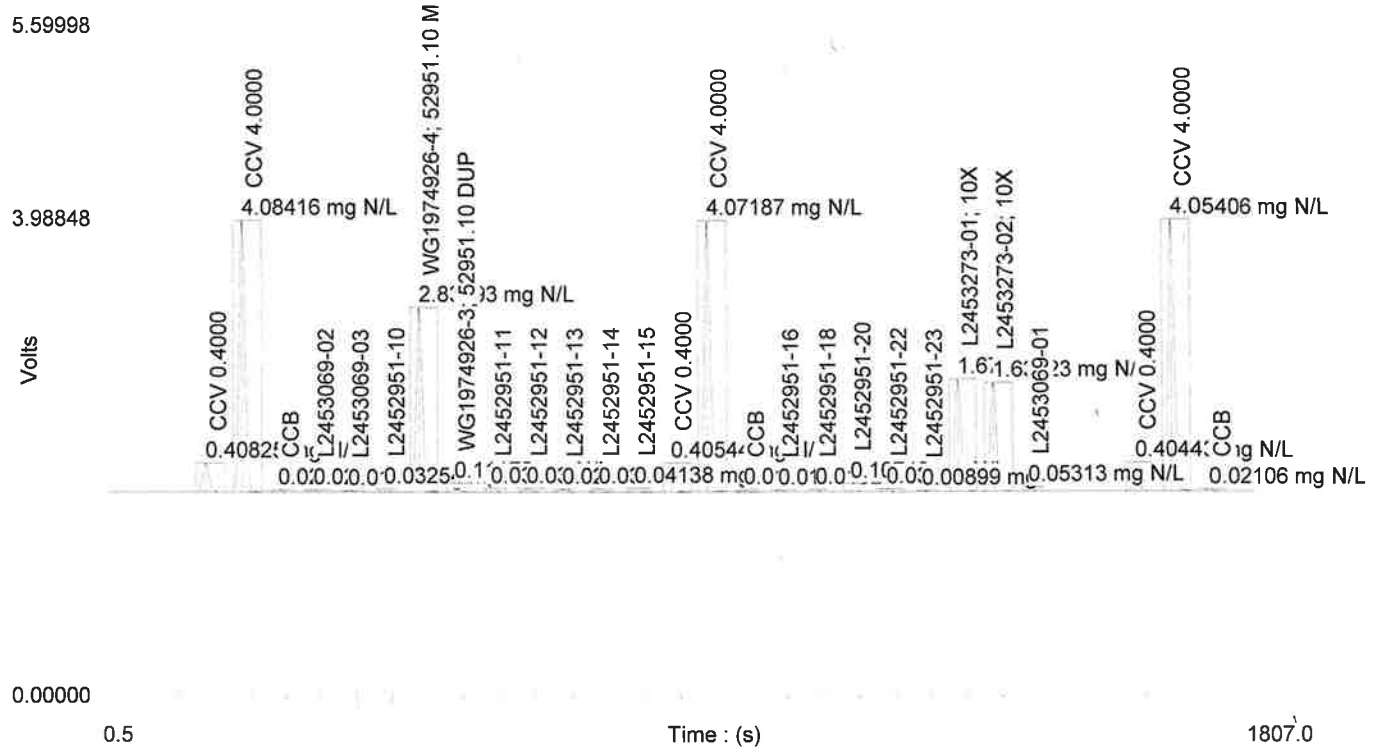
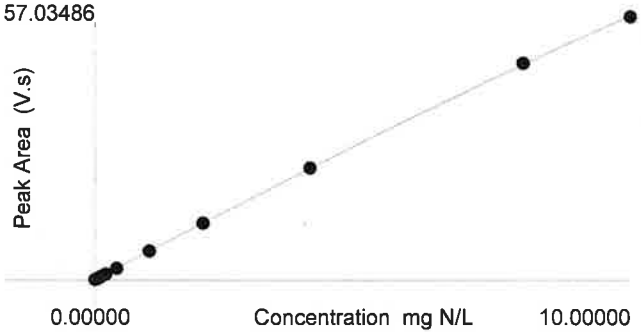


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_07-12-32PM.OMN Created: 9/24/2024 7:12:32 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_07-12-32PM.OMN Last Modified: 9/24/2024 7:43:51 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

G

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40012	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02657	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02068			
	Known Conc:		100.00000			
WG1974990-1 T; BLK 9/23	1	1	0.00481			
WG1974990-2 T; HI LCS; 5X	1	2	38.93412		15.00	97%
LO LCS T	1	3	4.30572		3.00	108%
L2453131-01 T	1	4	27.89323		3.00	
L2453131-02 T	1	5	7.06766		3.00	
L2453123-02 T	1	6	1.50666		3.00	
L2453274-01 T	1	7	0.38847		3.00	
WG1974990-4 T; 53274.1 MS	1	8	8.75431		3.00	105%
WG1974990-3 T; 53274.1 DUP	1	9	0.69545		3.00	57% (c(xRL)
L2453274-02 T	1	10	0.35977		3.00	
CCV 0.4000	1	S6	0.40950	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00307	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.02318			
	Known Conc:		100.00000			
L2453274-03 T	1	11	0.35934		3.00	
L2453274-04 T	1	12	0.30229		3.00	
L2453274-05 T	1	13	0.58463		3.00	
L2453274-06 T	1	14	0.24626		3.00	
L2453274-07 T	1	15	0.19364		3.00	
L2453274-08 T	1	16	0.13591		3.00	
L2453279-01 T	1	17	0.28698		3.00	
L2453279-02 T	1	18	0.05338		3.00	
L2453279-03 T	1	19	2.89454		3.00	
L2453279-04 T	1	20	1.04419		3.00	
CCV 0.4000	1	S6	0.40364	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00001	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.01998			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

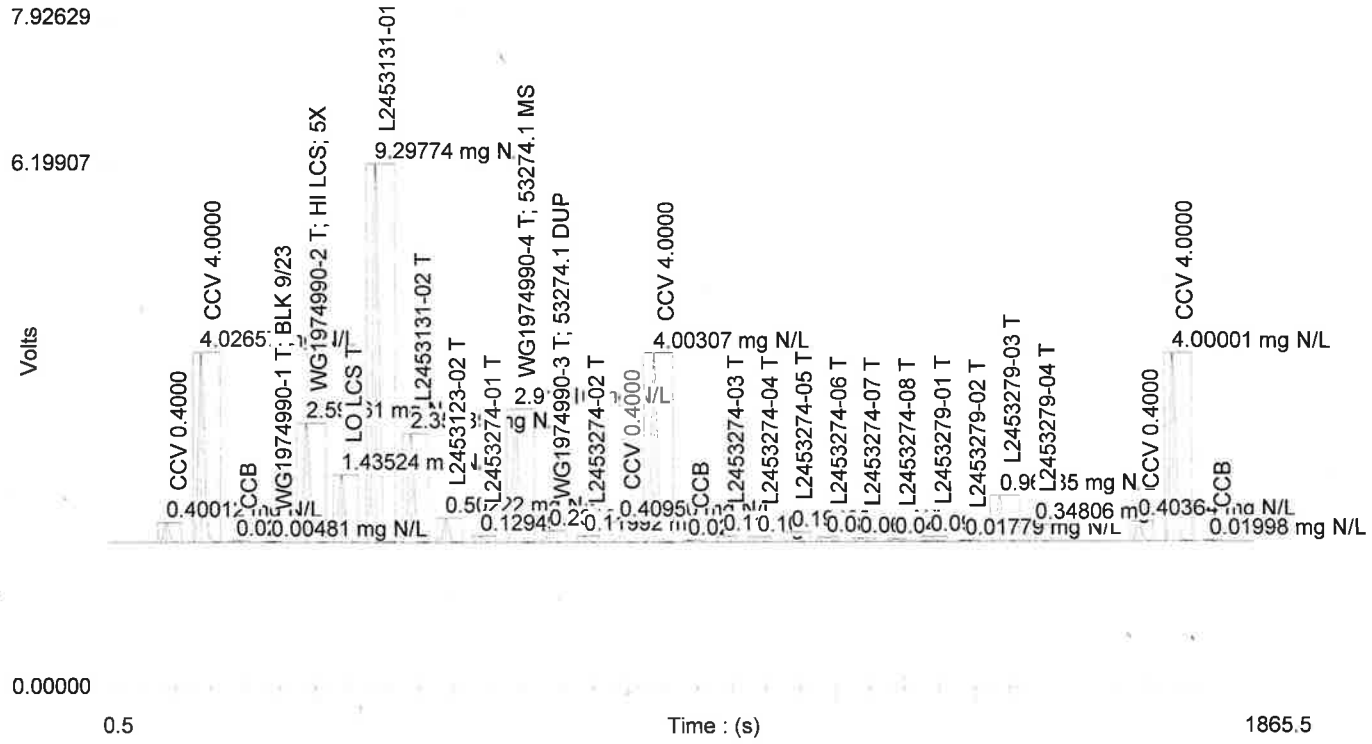
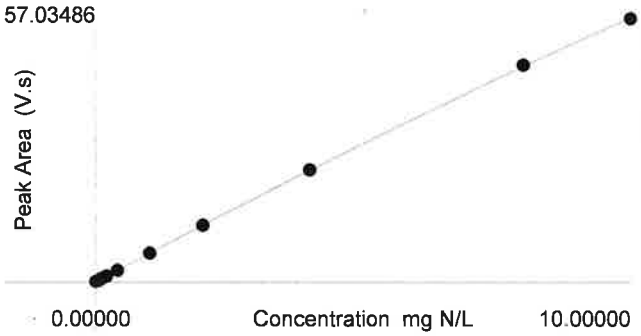


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_08-21-13PM.OMN Created: 9/24/2024 8:21:13 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_08-21-13PM.OMN Last Modified: 9/24/2024 8:59:09 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

H

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38445	96%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.91557	98%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01951	✓		
	Known Conc:		100.00000			
WG1974994-1 T; BLK 9/23	1	1	0.01439			97%
WG1974994-2 T; HI LCS; 5X	1	2	38.65418		15.00	
LO LCS T	1	3	4.12006		3.00	103%
L2453134-01 T	1	4	~~54.40591~~		3.00	w/ dilution
L2453134-02 T	1	5	~~8.18690~~		3.00	
L2453170-01 T	1	6	~~43.39964~~		3.00	
L2453118-01 T	1	7	~~4.18830~~		3.00	
L2453285-01 T	1	8	2.03259		3.00	
L2453285-02 T	1	9	1.45161		3.00	
L2453285-03 T	1	10	0.68758		3.00	
CCV 0.4000	1	S6	0.41324	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96176	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.03083	✓		
	Known Conc:		100.00000			
L2453285-04 T	1	11	0.84950		3.00	
L2453290-01 T	1	12	4.69295		3.00	
L2453290-02 T	1	13	0.29413		3.00	
L2453290-03 T	1	14	0.32899		3.00	
L2453290-04 T	1	15	0.59957		3.00	
L2453293-01 T	1	16	0.30738	✓	3.00	
WG1974994-4 T; 53293.1 MS	1	17	8.62890		3.00	104%
WG1974994-3 T; 53293.1 DUP	1	18	0.59784	✓	3.00	64% (LCS+LCSD)
L2453293-02 T	1	19	0.17907		3.00	
L2453293-03 T	1	20	0.13291		3.00	
CCV 0.4000	1	S6	0.40742	102%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95537	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02495	✓		
	Known Conc:		100.00000			
L2453134-01 T; 10X	1	21	76.49265		30.00	
L2453134-02 T	1	22	7.07148		3.00	
L2453170-01 T; 10X	1	23	52.41485		30.00	
L2453118-01 T	1	24	3.24589		3.00	
CCV 0.4000	1	S6	0.41158	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95401	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02732	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

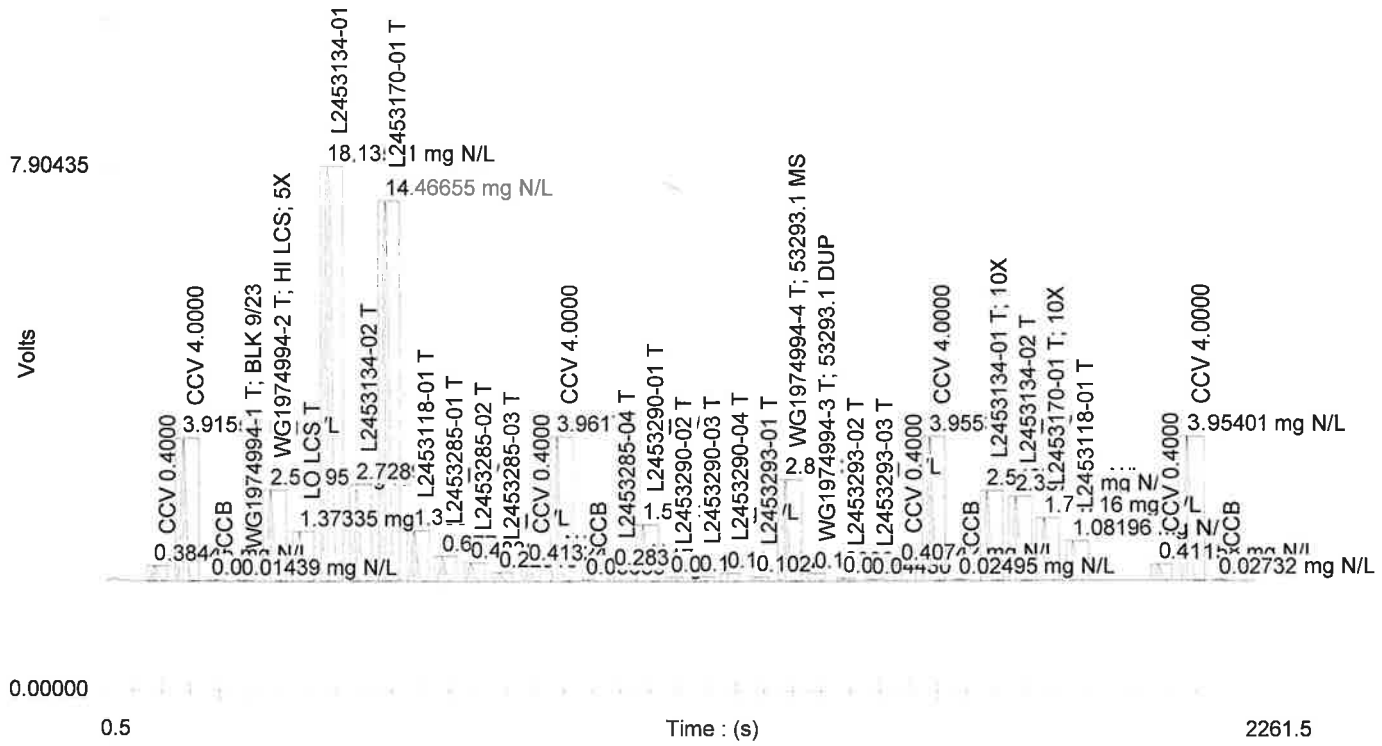
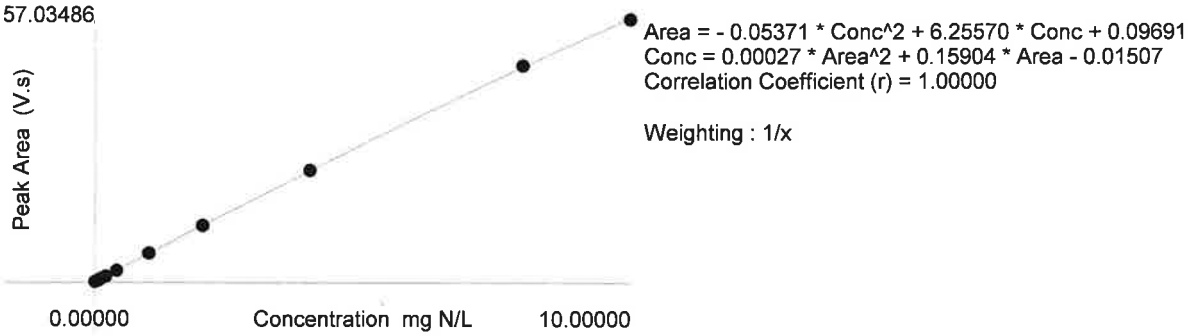


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975410-4	**MS Analysis Date**	: 09/24/24 16:46
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	ND	8	6.66	83					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 16:45
Dup Sample ID	: WG1975410-3	**DUP Analysis Date**	: 09/24/24 16:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	0.243J	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975410-2	**LCS Analysis Date**	: 09/24/24 16:40
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**37.9**	**95.**					**78-122**	**24**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

Project No. _____

ential Book No. _____ TITLE NH3 9/24/24

ige No.

A (02-07-39 PM)

- 9/26 @ 16:51

ICV 6.0

LO ICV 1.0

ICB

WU1974611-1 . BL

-2: ↵

Lo Levs

53309.2 (2x)

53404.2

3 (2x)

8

11 (2x)

14 (2x)

17

20

23

26

53422.2 (2x)

4

6

8

10

12

14

16 (2x)

18

20

20 ms

20 DUP

T→ B (03-11-50 PM)

RF 9/23 @ 18:25

WU1974987-1 T . BL

-2 T: ↵

Lo Levs

52439.1 T

3 T

52659.1 T ⊗ 10x (1 T 10 ms)

2 T ⊗

52661-1 T ⊗ 10x (1 T 10 ms)

2 T ⊗

52954.2 T

53069-1 T

2 T

3 T

53116-1 T

53562-1 T

53588 1 T

53857.1 T ⊗ (10x) 1 T 10 ms

2 T ⊗

52661.2 ms

2 DUP

20

21

→ 03-42-30 PM

Date: 9/24/24

Sodium Phenolate: 8/30/24 R-4065

Sodium Hypochlorate: 8/30/24 TOP SKP

Sodium Nitropruisside: 8/30/24 R-5769

Borric Acid Soln.: 8/30/24 R-4019

ICV 1.0: 9/11/24 WC-3476

ICV 8.0:

Cal. Std: 8/30/24 WC-3392

See Front Page for Instructions:

to Page No. ____

ed & Understood by me, | Date | Invented by: | Date

Recorded by:

TITLE NH3 9/24/14 (AM Cont) Project No. _____ Book No. _____ Confide

From Page No. _____

Tcy C (04-34-54 pm)
RP 9124 e7:38

1 WL 197541 0-1 T: Zn
2 -2 T: ↳
3 Lo ↳
4 53342-10 T
5 53400-1 T
6 2 T
7 53720-2 T
8 720 .2 ↳
9 .2 Zn0
10 54050-1 T
11 2 T
12 3 T
13 4 T
14 54059-1 T
15 2 T
16
17
18
19
20

tg ⇒ (05-03-37 pm)
Pyg 9/23/14 @0144

1 WL 197480-1. Blk 9/23
2 WL 197480-2; Hi ws + T
3 W ws
4 52663.1 (20 T) -50 T
5 52825.1 (2 T)
6 52439.1 (2 T)
7 .3
8 52762-7
9 .10
10 .13
11 .16
12 .19
13 .22
14 52951.1
15 .2
16 .3
17 .4
18 .5
19 .7
20 .8
21 .9
22 WL 197480-1; 52951.9 ws
23 WL 197480-3; 52951.9 Blk
24 51318-1
25 .2

To Page N

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

tmp E (05-45-28 pm)
Pmp 9/23/24 @1235

1	WL 1974931-1; Blu 9/23
2	WL 1974931-2; Hi vs T+
3	(vs)
4	53072.1 (Se)
5	.2 (Se)
6	.3 (ST)
7	.4 (ST)
8	53118.1
9	53285.1
10	.2
11	.3
12	.4
13	53198.2 (ST)
14	.3
15	53123.2
16	52994.1
17	.2
18	52967.1
19	WL 1974931-4; 52967.1 MS
20	WL 1974931-3; 52967.1 Rp
21	52967.2
22	.3
23	.5
24	.6
25	

tmp F (05-24-02 pm)
Pmp 9/23/24 @1230

1	WL 1974926.1. Blu 9/23
2	WL 1974926.2; Hi vs T+
3	(vs)
4	53120.1 (ST)
5	.2
6	53130.1
7	.2
8	53273.1 -10+
9	.2 -10+
10	53069.1
11	.2
12	.3
13	52951.10
14	WL 1974926.4; 52951.10 MS
15	WL 1974926.3; 52951.10 Rp
16	52951.11
17	.12
18	.13
19	.14
20	.15
21	.16
22	.18
23	.20
24	.22
25	.23

→ 06.41.33 pm

ssed & Understood by me, Date Invented by: Date
Recorded by:

WHs 9/24/24 (AP) Cont'd

TITLE _____ Project No. _____ Book No. _____ Confic

From Page No. ____

Eg. G (07-12-32 PM)
Pup 9/23/24 @ 1330

1 WH-197499O-1 T; Blu 9/23
2 WH-197499O-2 T; Hi WS T
3 Lo WS T
4 53131.1 T
5 .2 T
6 53123.2 T
7 53274.1 T
8 WH-197499O-4 T; 53274.1 MS
9 WH-197499O-3 T; 53274.1 Sp
10 53274.2 T
11 .3 T
12 .4 T
13 .5 T
14 .6 T
15 .7 T
16 .8 T
17 53279.1 T
18 .2 T
19 .3 T
20 .4 T

Eg. H (08-21-13 PM)
Pup 9/23/24 @ 1340

1 WH-197499H-1 T; Blu 9/23
2 WH-197499H-2 T; Hi WS T
3 Lo WS T
4 53134.1 T -10 X
5 .2 T
6 53170.1 T -10 X
7 53168.1 T
8 53485.1 T
9 .2 T
10 .3 T
11 .4 T
12 53290.1 T
13 .2 T
14 .3 T
15 .4 T
16 53293.1 T
17 WH-197499H-4 T; 53293.1 MS
18 WH-197499H-3 T; 53293.1 Sp
19 53293.2 T
20 .5 T

To Page N

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Sample Preparation

From Page No. ____

Sample	Volume 50 ml	Dilution	Final Volume 150 ml
Blank		1x	
Low			
High			
53342-10			
53400-1			
-2			
53720-2 PA			
-2 DUP			
-2 MS			
54050-1			
-2			
-3			
-4			
54059-1			
-2			

Same standards and reagents as pg. ~~#~~ 99
Nitrate checked.

09/24/24 @ 07:38 AJC

Distilled by SAD 09 24 24 @ 15:05

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-C1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	5.0	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-C1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	2.2	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975297-1	**Date Collected**	: NA
Client ID	: WG1975297-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975297-3	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4SDUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/24/24 09:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-C1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	5.0	0.10	0.05	

Sample Raw Data

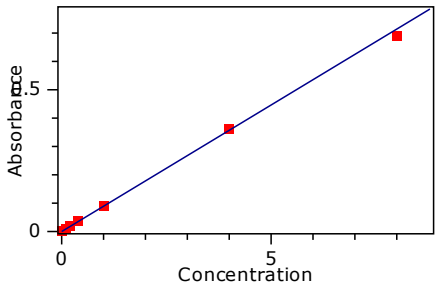
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 06:11:22
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-061102.dat

Dataset Notes:

Analyst	

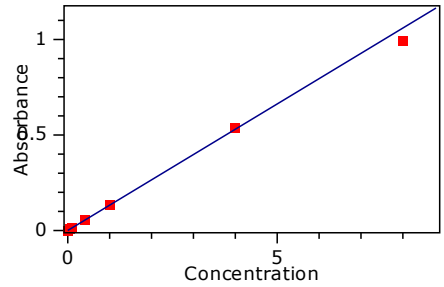
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	2024-09-24T03:16:51
3	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	2024-09-24T03:18:01
4	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	2024-09-24T03:19:08
5	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	2024-09-24T03:20:16
6	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	2024-09-24T03:21:26
7	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	2024-09-24T03:22:36
8	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	2024-09-24T03:23:45



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	2024-09-24T03:24:45
10	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	2024-09-24T03:25:55
11	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	2024-09-24T03:27:02
12	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	2024-09-24T03:28:12
13	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	2024-09-24T03:29:21
14	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	2024-09-24T03:30:31
15	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	2024-09-24T03:32:03

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0011	1	1	1	0.0134		2024-09-24T03:15:36
NOx 8.0ppm	2	Standard	8	0.6893	1	1	1	7.7228		2024-09-24T03:16:51
NOx 4.0ppm	3	Standard	4	0.3612	1	1	1	4.0474		2024-09-24T03:18:01
NOx 1.0ppm	4	Standard	1	0.0896	1	1	1	1.0047		2024-09-24T03:19:08
NOx 0.4ppm	5	Standard	0.4	0.0364	1	1	1	0.4085		2024-09-24T03:20:16
NOx 0.2ppm	6	Standard	0.2	0.0180	1	1	1	0.2024		2024-09-24T03:21:26
NOx 0.1ppm	7	Standard	0.1	0.0087	1	1	1	0.0989		2024-09-24T03:22:36
NOx 0.0ppm	8	Standard	0	0.0001	1	1	1	0.0024		2024-09-24T03:23:45
Nitrite 8.0ppm	9	Standard	?	0.6946	1	1	1	7.7821	OVR	2024-09-24T03:24:57
Nitrite 4.0ppm	10	Standard	?	0.3656	1	1	1	4.0971		2024-09-24T03:26:07
Nitrite 1.0ppm	11	Standard	?	0.0909	1	1	1	1.0194		2024-09-24T03:27:15
Nitrite 0.4ppm	12	Standard	?	0.0366	1	1	1	0.4109		2024-09-24T03:28:23
Nitrite 0.1ppm	13	Standard	?	0.0089	1	1	1	0.1004		2024-09-24T03:29:33
Nitrite 0.05ppm	14	Standard	?	0.0045	1	1	1	0.0513		2024-09-24T03:30:43
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	0.0018		2024-09-24T03:32:08
CCV NO3	16	QC	1	0.0900	1	1	1	1.0091		2024-09-24T03:33:01
CCV NO2	17	QC	?	0.0906	1	1	1	1.0159		2024-09-24T03:34:07
CCB	18	QC	0	0.0000	1	1	1	0.0014		2024-09-24T03:35:15
ICV NO3 5.0	19	QC	5	0.4361	1	1	1	4.8868		2024-09-24T03:36:25
ICV NO2 5.0	20	QC	?	0.4344	1	1	1	4.8669		2024-09-24T03:37:33
ICV NO3 0.5	21	QC	0.5	0.0427	1	1	1	0.4791		2024-09-24T03:38:41
ICV NO2 0.5	22	QC	?	0.0435	1	1	1	0.4879		2024-09-24T03:39:49
ICB	23	QC	0	0.0000	1	1	1	0.0008		2024-09-24T03:40:32
BLANK NO3	24	Unknown	?	0.0000	1	1	1	0.0015		2024-09-24T03:42:10
LCS NO3	25	Unknown	?	0.4351	1	1	1	4.8756		2024-09-24T03:43:13
BLANK NO2	26	Unknown	?	-0.0002	1	1	1	-0.0007		2024-09-24T03:43:53
LCS NO2	27	Unknown	?	0.4309	1	1	1	4.8278		2024-09-24T03:45:26
CCV NO3	28	QC	1	0.0891	1	1	1	0.9993		2024-09-24T03:46:32
CCV NO2	29	QC	?	0.0910	1	1	1	1.0205		2024-09-24T03:47:38
CCB	30	QC	0	0.0000	1	1	1	0.0014		2024-09-24T03:48:47
WG1975294-1	31	Unknown	?	0.0001	1	1	1	0.0020		2024-09-24T03:50:05
WG1975294-2	32	Unknown	?	0.4367	1	1	1	4.8927		2024-09-24T03:51:04

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975295-1	33	Unknown	?	-0.0002	1	1	1	-0.0010		2024-09-24T03:51:43
WG1975295-2	34	Unknown	?	0.4386	1	1	1	4.9144		2024-09-24T03:53:15
WG1975296-1	35	Unknown	?	-0.0001	1	1	1	0.0000		2024-09-24T03:53:55
WG1975296-2	36	Unknown	?	0.4386	1	1	1	4.9141		2024-09-24T03:55:28
WG1975297-1	37	Unknown	?	-0.0001	1	1	1	0.0002		2024-09-24T03:56:09
WG1975297-2	38	Unknown	?	0.4383	1	1	1	4.9110		2024-09-24T03:57:42
L2453804-01	39	Unknown	?	0.1071	1	1	1	1.2010		2024-09-24T03:58:49
WG1975294-3	40	Unknown	?	0.1069	1	1	1	1.1985		2024-09-24T03:59:56
CCV NO3	41	QC	1	0.0908	1	1	1	1.0182		2024-09-24T04:01:02
CCV NO2	42	QC	?	0.0916	1	1	1	1.0276		2024-09-24T04:02:07
CCB	43	QC	0	0.0000	1	1	1	0.0014		2024-09-24T04:03:15
WG1975294-4	44	Unknown	?	0.4626	1	1	1	5.1828		2024-09-24T04:04:26
L2453807-02	45	Unknown	?	0.1935	1	1	1	2.1690		2024-09-24T04:05:34
WG1975294-5	46	Unknown	?	0.1939	1	1	1	2.1730		2024-09-24T04:06:40
WG1975294-6	47	Unknown	?	0.5447	1	1	1	6.1028		2024-09-24T04:07:46
L2453808-03	48	Unknown	?	0.0007	1	1	1	0.0092		2024-09-24T04:08:51
L2453894-01	49	Unknown	?	0.0040	1	1	1	0.0458		2024-09-24T04:09:57
L2453894-02	50	Unknown	?	0.5222	1	1	1	5.8512		2024-09-24T04:11:01
L2453894-03	51	Unknown	?	0.2097	1	1	1	2.3506		2024-09-24T04:12:07
L2453894-04	52	Unknown	?	0.0079	1	1	1	0.0897		2024-09-24T04:13:11
L2453894-05	53	Unknown	?	0.0153	1	1	1	0.1730		2024-09-24T04:14:15
CCV NO3	54	QC	1	0.0897	1	1	1	1.0063		2024-09-24T04:15:20
CCV NO2	55	QC	?	0.0902	1	1	1	1.0115		2024-09-24T04:16:26
CCB	56	QC	0	0.0001	1	1	1	0.0022		2024-09-24T04:17:35
L2453894-06	57	Unknown	?	0.0155	1	1	1	0.1752		2024-09-24T04:18:47
L2453894-07	58	Unknown	?	0.0206	1	1	1	0.2319		2024-09-24T04:19:56
L2453894-08	59	Unknown	?	0.0054	1	1	1	0.0611		2024-09-24T04:21:03
L2453894-09	60	Unknown	?	0.0010	1	1	1	0.0125		2024-09-24T04:22:10
L2453894-10	61	Unknown	?	0.0196	1	1	1	0.2212		2024-09-24T04:23:17
L2453894-11	62	Unknown	?	0.0011	1	1	1	0.0132		2024-09-24T04:24:23
CCV NO3	63	QC	1	0.0888	1	1	1	0.9959		2024-09-24T04:25:28
CCV NO2	64	QC	?	0.0900	1	1	1	1.0091		2024-09-24T04:26:34
CCB	65	QC	0	0.0000	1	1	1	0.0011		2024-09-24T04:27:19

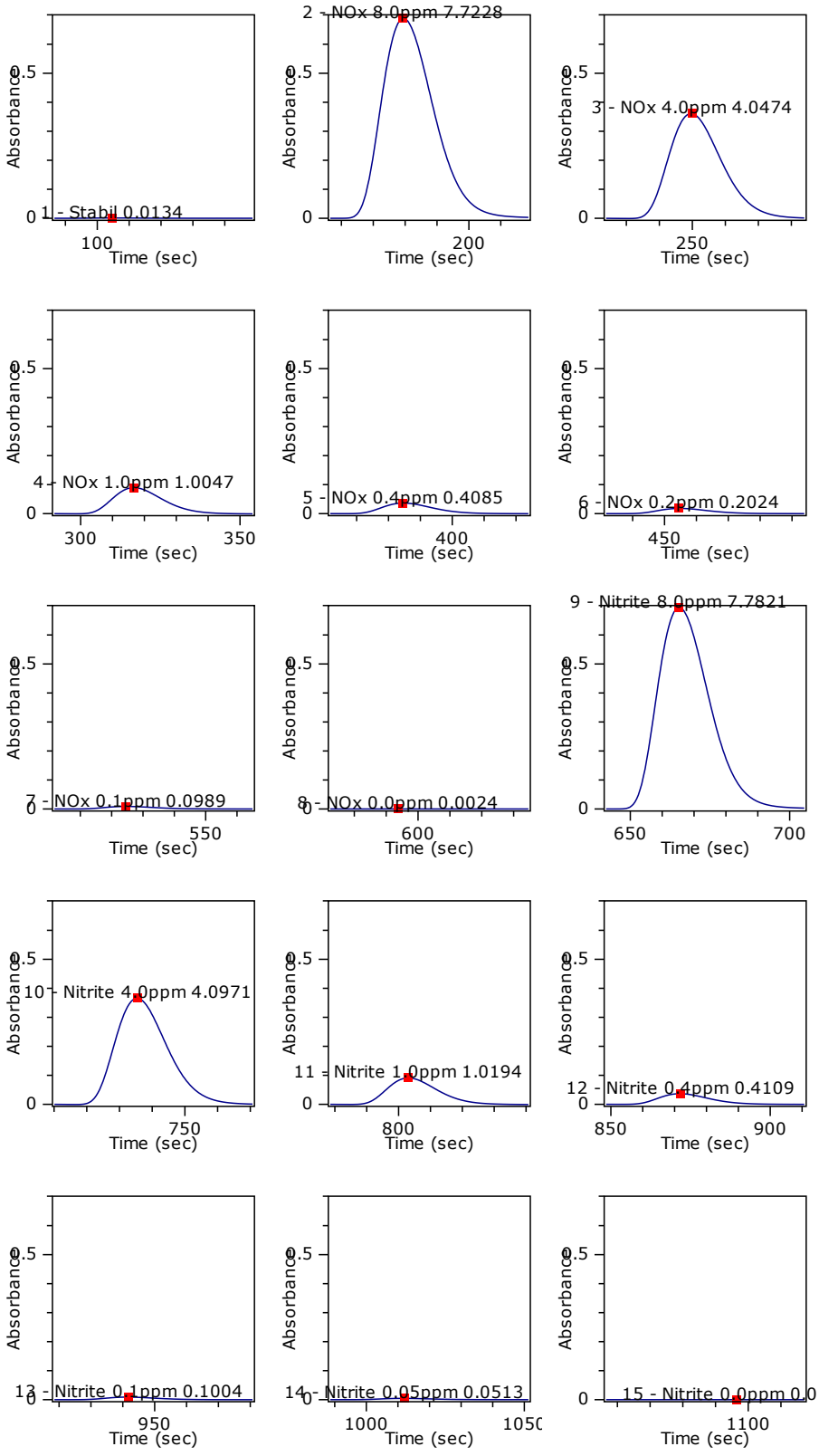
Channel: 2-NO2

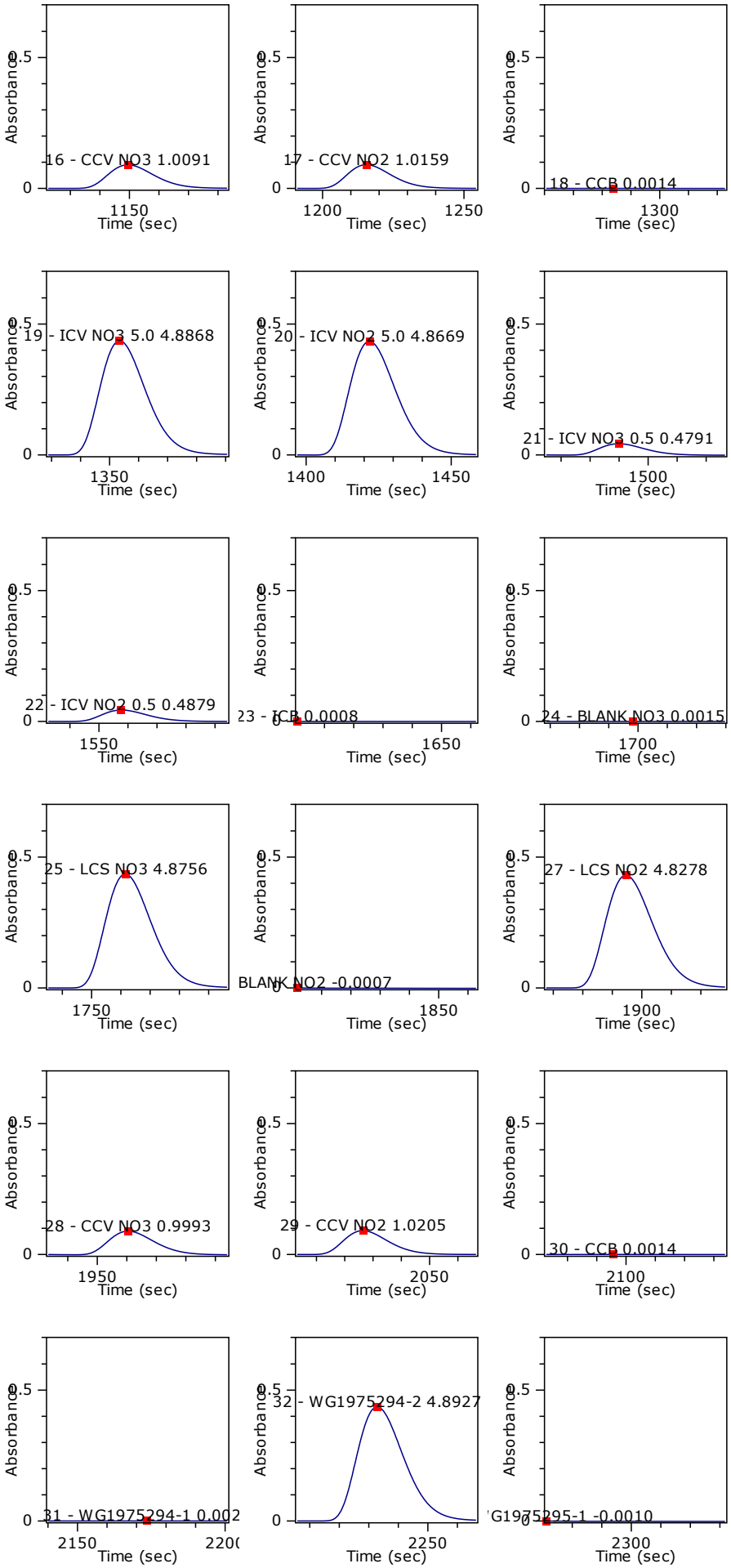
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:15:56
NOx 8.0ppm	2	Standard	?	0.0000	1	1	1	-0.0020		2024-09-24T03:16:36
NOx 4.0ppm	3	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:17:56
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0019		2024-09-24T03:19:39
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:20:33
NOx 0.2ppm	6	Standard	?	0.0000	1	1	1	-0.0021		2024-09-24T03:21:18
NOx 0.1ppm	7	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:23:13
NOx 0.0ppm	8	Standard	?	0.0000	1	1	1	-0.0019		2024-09-24T03:24:17
Nitrite 8.0ppm	9	Standard	8	0.9910	1	1	1	7.4795		2024-09-24T03:24:45
Nitrite 4.0ppm	10	Standard	4	0.5382	1	1	1	4.0610		2024-09-24T03:25:55
Nitrite 1.0ppm	11	Standard	1	0.1361	1	1	1	1.0251		2024-09-24T03:27:02
Nitrite 0.4ppm	12	Standard	0.4	0.0554	1	1	1	0.4161		2024-09-24T03:28:12
Nitrite 0.1ppm	13	Standard	0.1	0.0137	1	1	1	0.1010		2024-09-24T03:29:21
Nitrite 0.05ppm	14	Standard	0.05	0.0069	1	1	1	0.0495		2024-09-24T03:30:31
Nitrite 0.0ppm	15	Standard	0	0.0001	1	1	1	-0.0016		2024-09-24T03:32:03
CCV NO3	16	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T03:33:03
CCV NO2	17	QC	1	0.1361	1	1	1	1.0248		2024-09-24T03:33:54
CCB	18	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T03:35:06
ICV NO3 5.0	19	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T03:36:20
ICV NO2 5.0	20	QC	5	0.6427	1	1	1	4.8500		2024-09-24T03:37:21
ICV NO3 0.5	21	QC	?	0.0002	1	1	1	-0.0008		2024-09-24T03:38:31
ICV NO2 0.5	22	QC	0.5	0.0659	1	1	1	0.4953		2024-09-24T03:39:37
ICB	23	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T03:40:51
BLANK NO3	24	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T03:42:19
LCS NO3	25	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:43:20
BLANK NO2	26	Unknown	?	0.0001	1	1	1	-0.0019		2024-09-24T03:44:24
LCS NO2	27	Unknown	?	0.6397	1	1	1	4.8271		2024-09-24T03:45:13
CCV NO3	28	QC	?	0.0002	1	1	1	-0.0012		2024-09-24T03:46:21
CCV NO2	29	QC	1	0.1359	1	1	1	1.0237		2024-09-24T03:47:25
CCB	30	QC	0	0.0001	1	1	1	-0.0015		2024-09-24T03:48:42
WG1975294-1	31	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:49:42
WG1975294-2	32	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T03:51:02

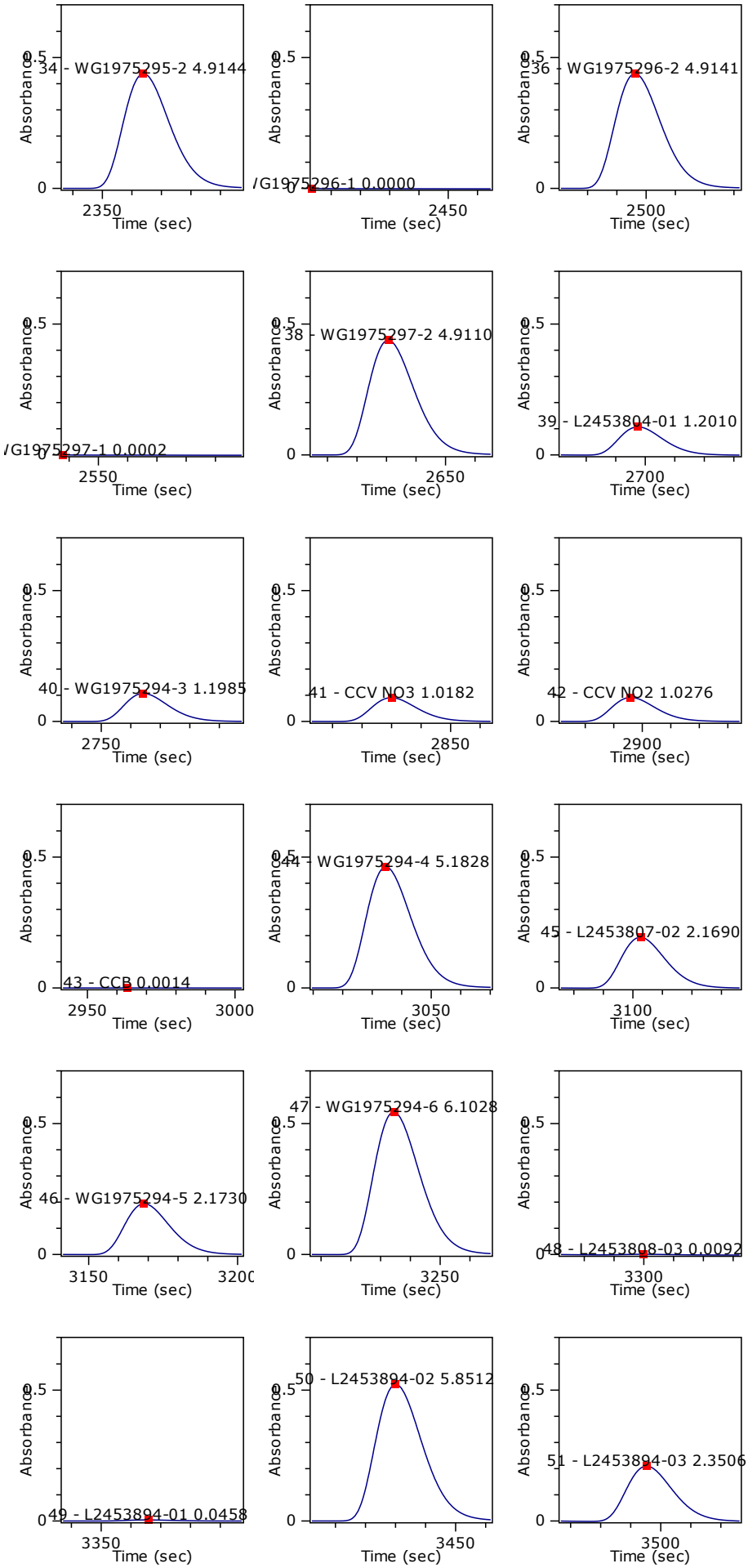
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975295-1	33	Unknown	?	0.0000	1	1	1	-0.0019		2024-09-24T03:52:11
WG1975295-2	34	Unknown	?	0.0001	1	1	1	-0.0016		2024-09-24T03:52:56
WG1975296-1	35	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:54:24
WG1975296-2	36	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:55:25
WG1975297-1	37	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:56:29
WG1975297-2	38	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:57:38
L2453804-01	39	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T03:58:36
WG1975294-3	40	Unknown	?	0.0002	1	1	1	-0.0010		2024-09-24T03:59:43
CCV NO3	41	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T04:00:50
CCV NO2	42	QC	1	0.1373	1	1	1	1.0341		2024-09-24T04:01:54
CCB	43	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T04:03:06
WG1975294-4	44	Unknown	?	0.0043	1	1	1	0.0299		2024-09-24T04:04:13
L2453807-02	45	Unknown	?	0.0000	1	1	1	-0.0020		2024-09-24T04:05:20
WG1975294-5	46	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T04:06:23
WG1975294-6	47	Unknown	?	0.0001	1	1	1	-0.0016		2024-09-24T04:07:32
L2453808-03	48	Unknown	?	0.0006	1	1	1	0.0025		2024-09-24T04:08:38
L2453894-01	49	Unknown	?	0.0009	1	1	1	0.0046		2024-09-24T04:09:42
L2453894-02	50	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T04:10:47
L2453894-03	51	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T04:11:53
L2453894-04	52	Unknown	?	0.0018	1	1	1	0.0115		2024-09-24T04:12:57
L2453894-05	53	Unknown	?	0.0009	1	1	1	0.0048		2024-09-24T04:14:01
CCV NO3	54	QC	?	0.0000	1	1	1	-0.0021		2024-09-24T04:15:41
CCV NO2	55	QC	1	0.1347	1	1	1	1.0147		2024-09-24T04:16:12
CCB	56	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T04:17:24
L2453894-06	57	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T04:18:33
L2453894-07	58	Unknown	?	0.0011	1	1	1	0.0061		2024-09-24T04:19:43
L2453894-08	59	Unknown	?	0.0009	1	1	1	0.0049		2024-09-24T04:20:50
L2453894-09	60	Unknown	?	0.0008	1	1	1	0.0038		2024-09-24T04:21:58
L2453894-10	61	Unknown	?	0.0010	1	1	1	0.0052		2024-09-24T04:23:04
L2453894-11	62	Unknown	?	0.0010	1	1	1	0.0052		2024-09-24T04:24:09
CCV NO3	63	QC	?	0.0001	1	1	1	-0.0019		2024-09-24T04:25:19
CCV NO2	64	QC	1	0.1344	1	1	1	1.0122		2024-09-24T04:26:20
CCB	65	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T04:27:35

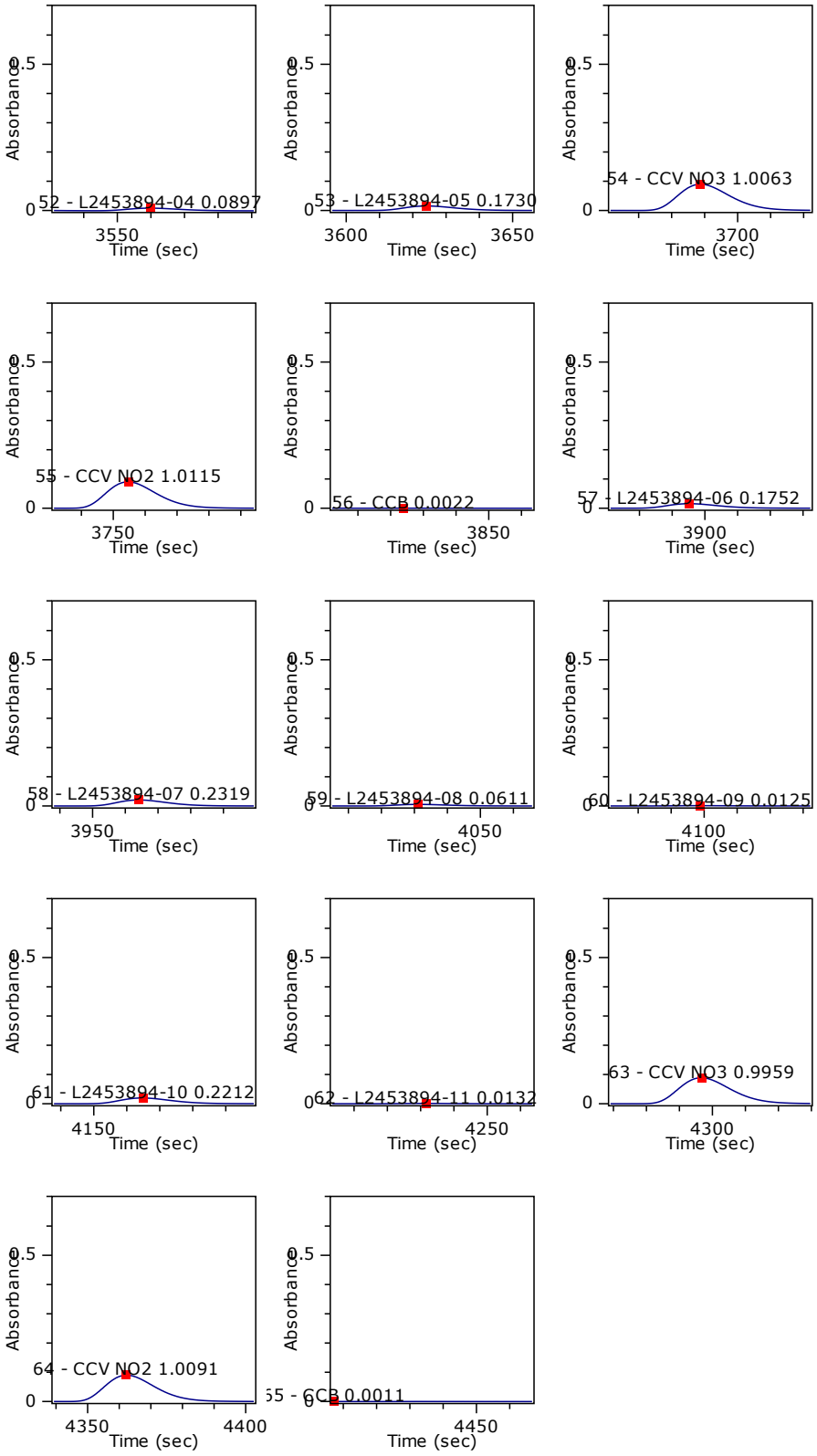
Peaks:

Channel: 1-NOx

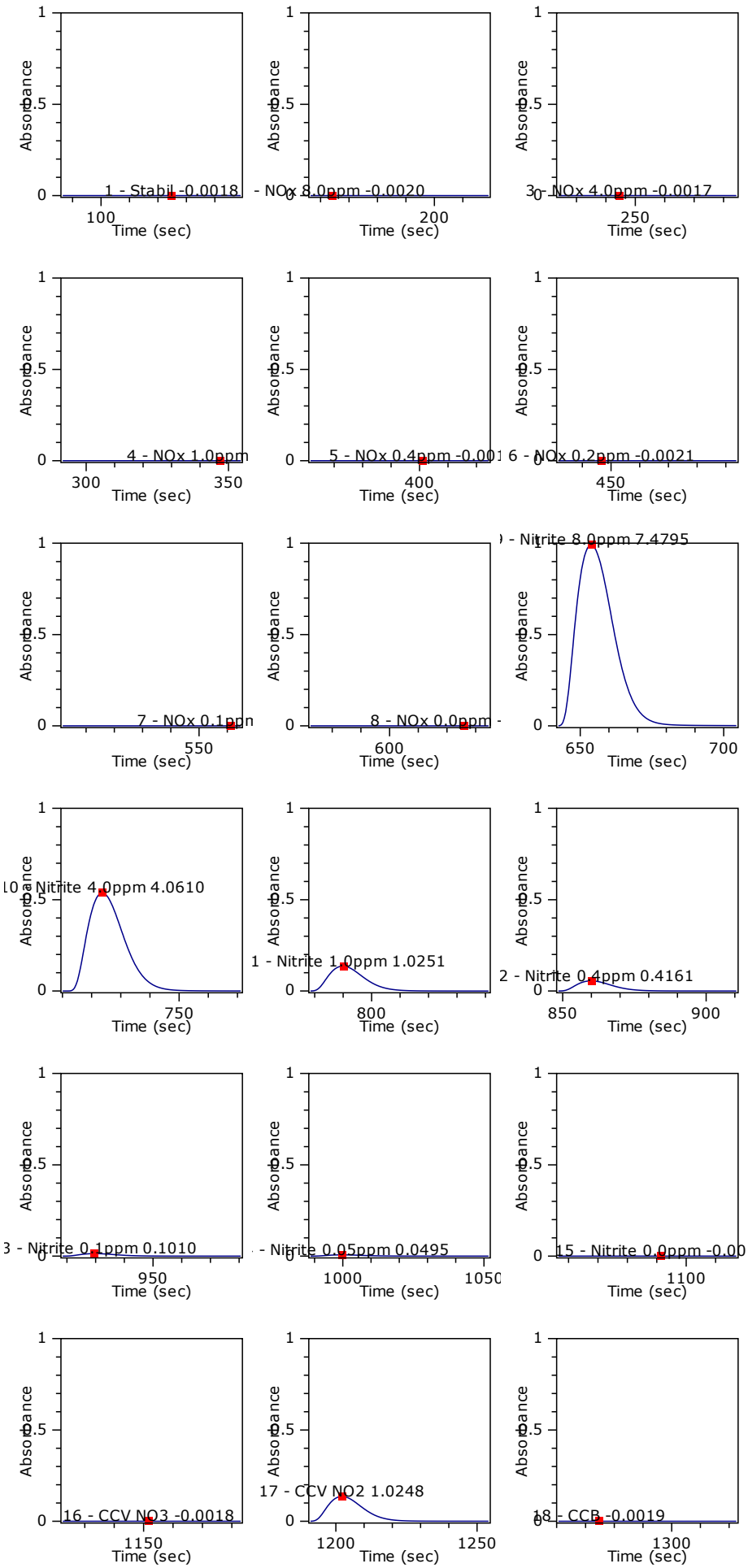


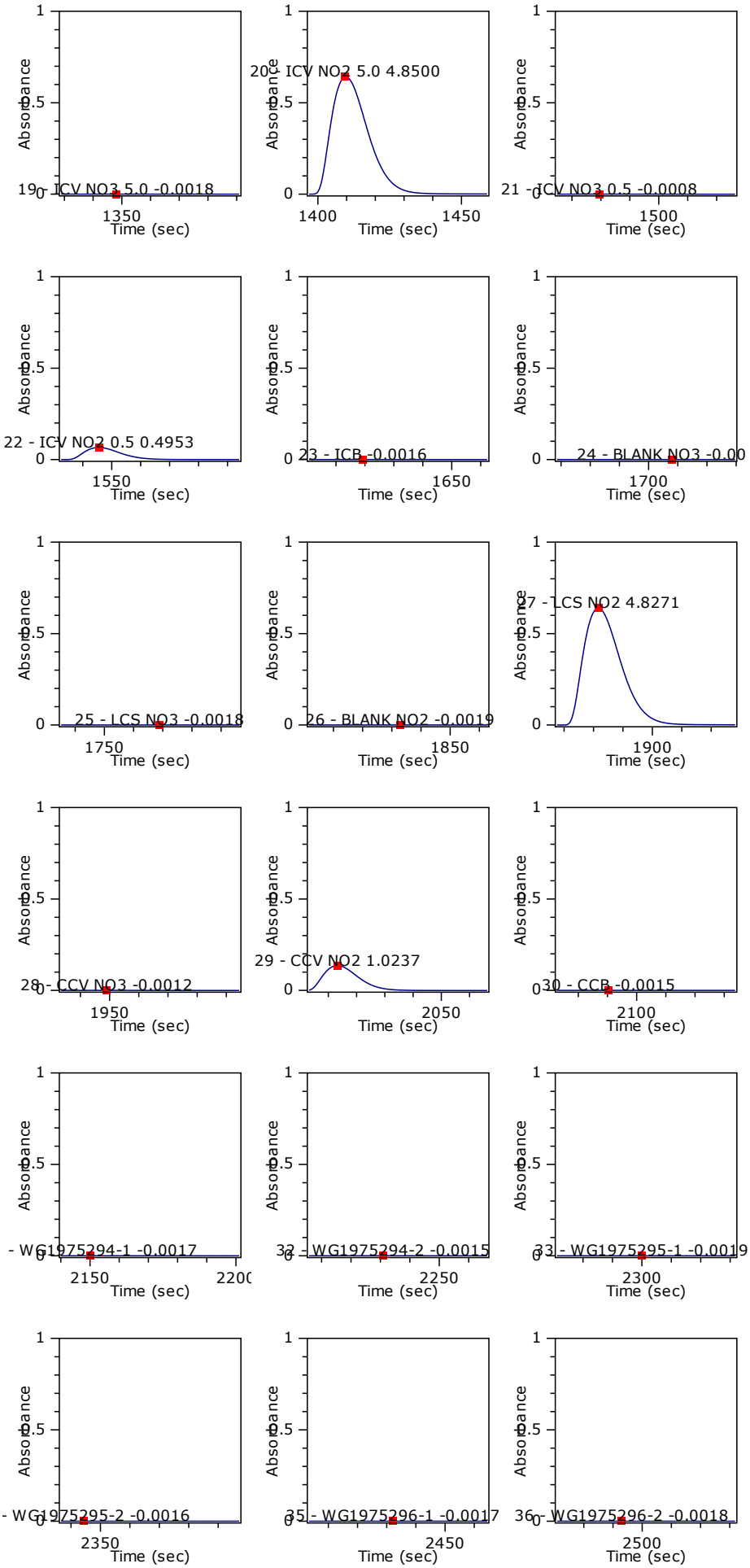

16 - CCV NO3 1.0091
17 - CCV NO2 1.0159
18 - CCB 0.0014
19 - ICV NO3 5.0 4.8868
20 - ICV NO2 5.0 4.8669
21 - ICV NO3 0.5 0.4791
22 - ICV NO2 0.5 0.4879
23 - ICB 0.0008
24 - BLANK NO3 0.0015
25 - LCS NO3 4.8756
BLANK NO2 -0.0007
27 - LCS NO2 4.8278
28 - CCV NO3 0.9993
29 - CCV NO2 1.0205
30 - CCB 0.0014
31 - WG1975294-1 0.002
32 - WG1975294-2 4.8927
G1975295-1 -0.0010
Absorbance
Time (sec)

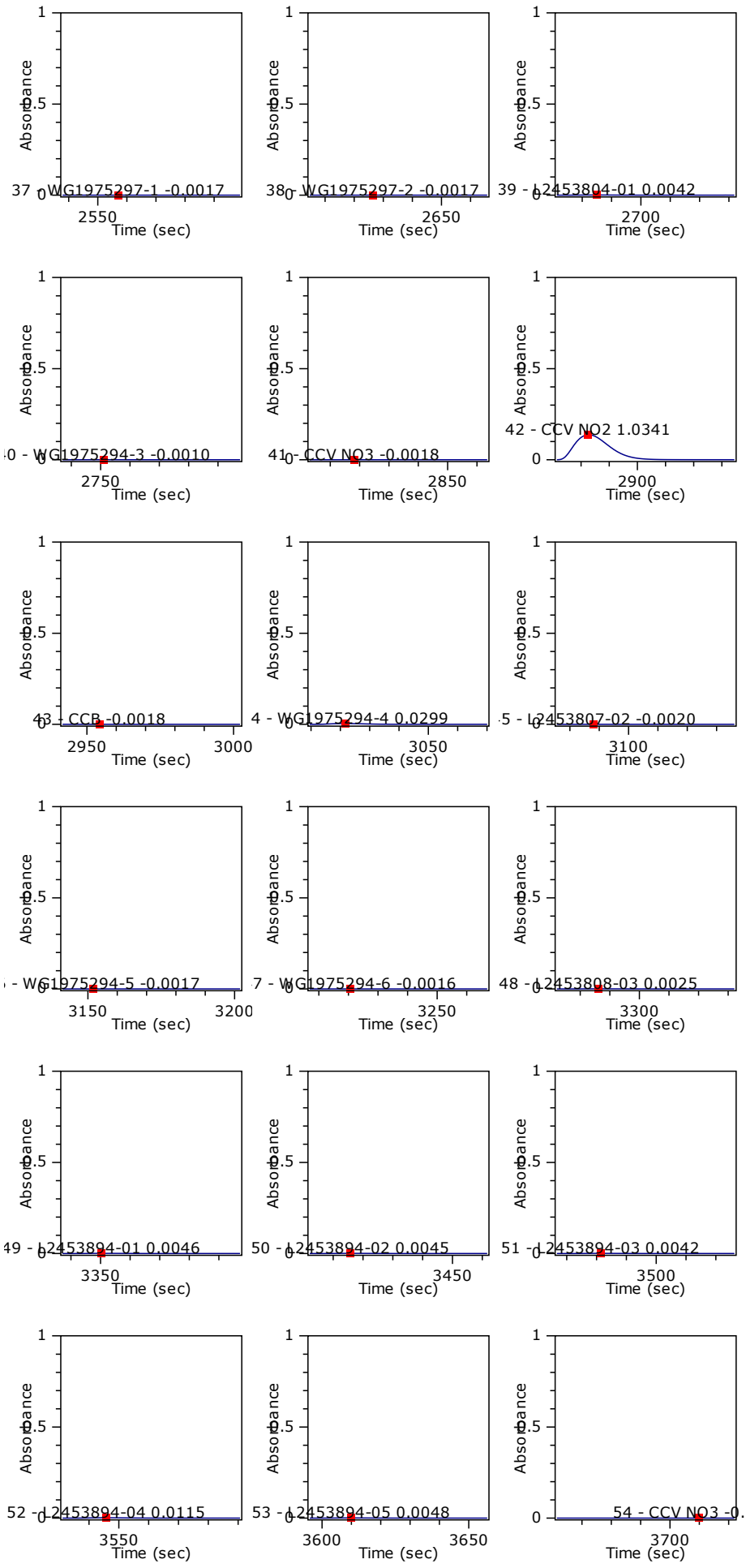

34 - WG1975295-2 4.9144
/G1975296-1 0.0000
36 - WG1975296-2 4.9141
/G1975297-1 0.0002
38 - WG1975297-2 4.9110
39 - L2453804-01 1.2010
40 - WG1975294-3 1.1985
41 - CCV NO3 1.0182
42 - CCV NO2 1.0276
43 - CCB 0.0014
44 - WG1975294-4 5.1828
45 - L2453807-02 2.1690
46 - WG1975294-5 2.1730
47 - WG1975294-6 6.1028
48 - L2453808-03 0.0092
49 - L2453894-01 0.0458
50 - L2453894-02 5.8512
51 - L2453894-03 2.3506
Absorbance
Time (sec)

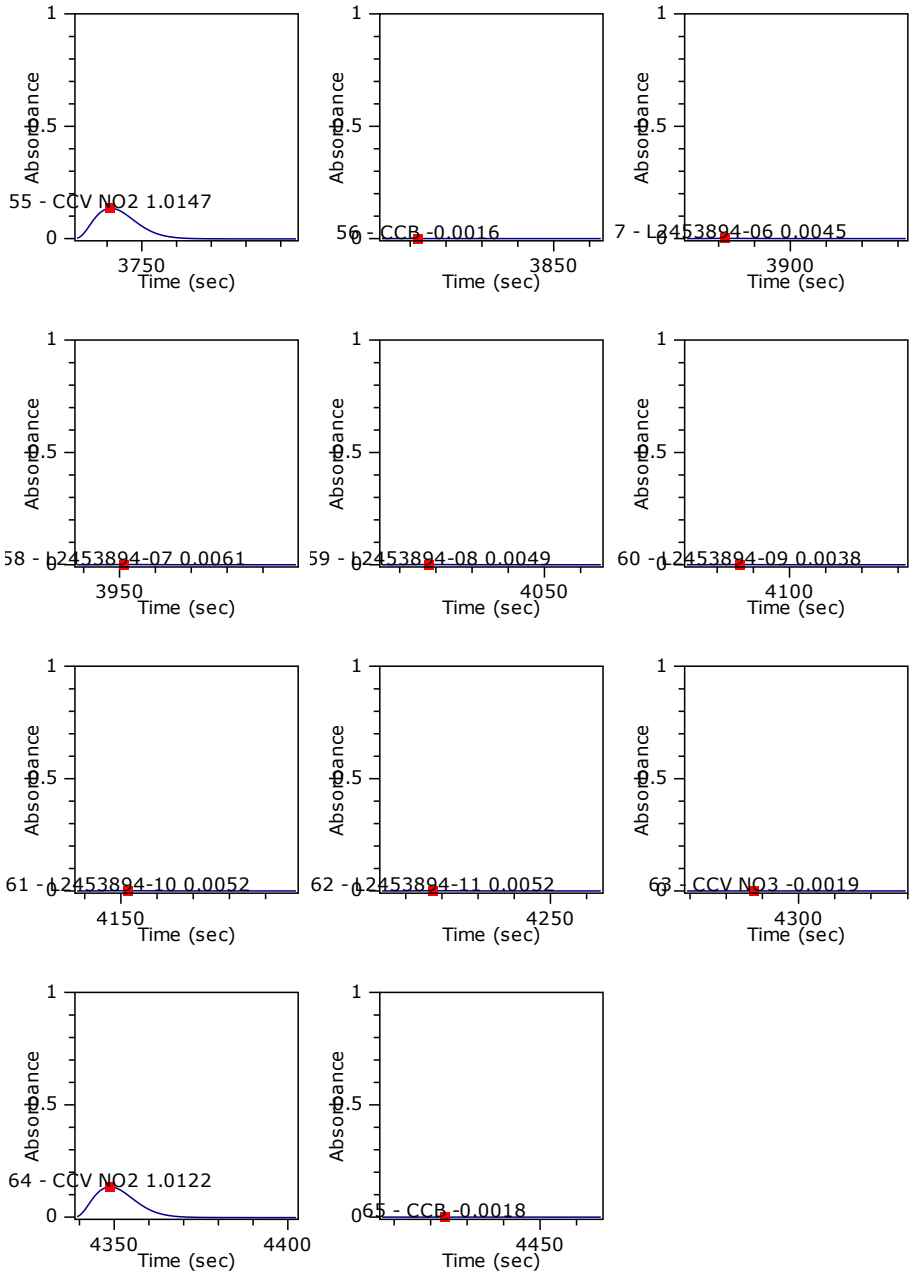


Channel: 2-NO2


1 - Stabil -0.0018
2 - NOx 8.0ppm -0.0020
3 - NOx 4.0ppm -0.0017
4 - NOx 1.0ppm
5 - NOx 0.4ppm -0.001
6 - NOx 0.2ppm -0.0021
7 - NOx 0.1ppn
8 - NOx 0.0ppm -
) - Nitrite 8.0ppm 7.4795
10 Nitrite 4.0ppm 4.0610
11 - Nitrite 1.0ppm 1.0251
12 - Nitrite 0.4ppm 0.4161
13 - Nitrite 0.1ppm 0.1010
14 - Nitrite 0.05ppm 0.0495
15 - Nitrite 0.0ppm -0.00
16 - CCV NO3 -0.0018
17 - CCV NO2 1.0248
18 - CCB -0.0019
Absorbance
Time (sec)


19 - ICV NO3 5.0 -0.0018
20 - ICV NO2 5.0 4.8500
21 - ICV NO3 0.5 -0.0008
22 - ICV NO2 0.5 0.4953
23 - ICB -0.0016
24 - BLANK NO3 -0.00
25 - LCS NO3 -0.0018
26 - BLANK NO2 -0.0019
27 - LCS NO2 4.8271
28 - CCV NO3 -0.0012
29 - CCV NO2 1.0237
30 - CCB -0.0015
- WG1975294-1 -0.0017
32 - WG1975294-2 -0.0015
33 - WG1975295-1 -0.0019
- WG1975295-2 -0.0016
35 - WG1975296-1 -0.0017
36 - WG1975296-2 -0.0018
Absorbance
Time (sec)


37 - WG1975297-1 -0.0017
38 - WG1975297-2 -0.0017
39 - L2453804-01 0.0042
40 - WG1975294-3 -0.0010
41 - CCV NO3 -0.0018
42 - CCV NO2 1.0341
43 - CCB -0.0018
44 - WG1975294-4 0.0299
45 - L2453807-02 -0.0020
47 - WG1975294-5 -0.0017
47 - WG1975294-6 -0.0016
48 - L2453808-03 0.0025
49 - L2453894-01 0.0046
50 - L2453894-02 0.0045
51 - L2453894-03 0.0042
52 - L2453894-04 0.0115
53 - L2453894-05 0.0048
54 - CCV NO3 -0.
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T03:13:52

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.
```

```
FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

   Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

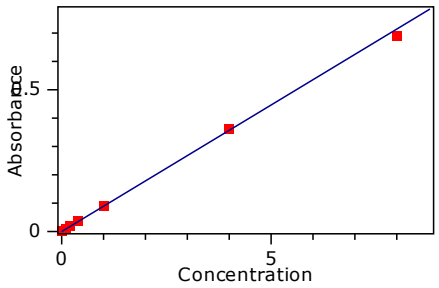
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 08:32:10
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-083028.dat

Dataset Notes:

Analyst	

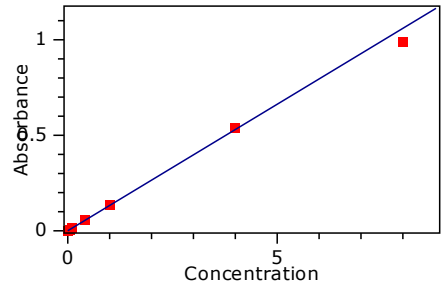
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	N/A
10002	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	N/A
10003	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	N/A
10004	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	N/A
10005	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	N/A
10007	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	N/A
10002	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	N/A
10003	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	N/A
10004	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	N/A
10005	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	N/A
10006	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	0.0024		2024-09-24T06:18:24
CCV NO3	2	QC	1	0.0884	1	1	1	0.9917		2024-09-24T06:19:42
CCV NO2	3	QC	?	0.0910	1	1	1	1.0210		2024-09-24T06:20:47
CCB	4	QC	0	0.0000	1	1	1	0.0011		2024-09-24T06:21:31

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453904-01	5	Unknown	?	0.0013	1	1	1	0.0160		2024-09-24T06:23:04
L2454505-02	6	Unknown	?	0.3695	1	1	1	4.1408		2024-09-24T06:24:11
L2454580-01	7	Unknown	?	0.0014	1	1	1	0.0172		2024-09-24T06:25:16
L2454580-02	8	Unknown	?	0.6420	1	1	1	7.1932		2024-09-24T06:26:22
L2454272-01	9	Unknown	?	0.0043	1	1	1	0.0493		2024-09-24T06:27:28
WG1975295-3	10	Unknown	?	0.0055	1	1	1	0.0623		2024-09-24T06:28:32
WG1975295-4	11	Unknown	?	0.3633	1	1	1	4.0708		2024-09-24T06:29:37
L2454272-02	12	Unknown	?	-0.0001	1	1	1	-0.0005		2024-09-24T06:30:13
L2454272-04	13	Unknown	?	0.0010	1	1	1	0.0119		2024-09-24T06:31:46
L2454272-05	14	Unknown	?	0.0015	1	1	1	0.0178		2024-09-24T06:32:52
CCV NO3	15	QC	1	0.0882	1	1	1	0.9897		2024-09-24T06:33:58
CCV NO2	16	QC	?	0.0892	1	1	1	1.0003		2024-09-24T06:35:03
CCB	17	QC	0	0.0000	1	1	1	0.0008		2024-09-24T06:36:10
L2454272-06	18	Unknown	?	0.0021	1	1	1	0.0246		2024-09-24T06:37:21
L2454272-07	19	Unknown	?	0.0013	1	1	1	0.0157		2024-09-24T06:38:28
L2454272-08	20	Unknown	?	0.0784	1	1	1	0.8793		2024-09-24T06:39:35
L2454272-09	21	Unknown	?	0.0141	1	1	1	0.1594		2024-09-24T06:40:42
L2454272-10	22	Unknown	?	0.0012	1	1	1	0.0142		2024-09-24T06:41:48
L2452183-04	23	Unknown	?	0.0029	1	1	1	0.0339		2024-09-24T06:42:55
L2452183-05	24	Unknown	?	0.0042	1	1	1	0.0485		2024-09-24T06:44:00
L2452183-06	25	Unknown	?	0.0012	1	1	1	0.0144		2024-09-24T06:45:06
L2453498-01	26	Unknown	?	0.0667	1	1	1	0.7478		2024-09-24T06:46:11
L2453498-02	27	Unknown	?	0.0622	1	1	1	0.6982		2024-09-24T06:47:16
CCV NO3	28	QC	1	0.0869	1	1	1	0.9748		2024-09-24T06:48:21
CCV NO2	29	QC	?	0.0884	1	1	1	0.9920		2024-09-24T06:49:26
CCB	30	QC	0	0.0000	1	1	1	0.0010		2024-09-24T06:50:10
L2453498-03	31	Unknown	?	0.0612	1	1	1	0.6871		2024-09-24T06:51:42
L2453498-04	32	Unknown	?	0.0579	1	1	1	0.6496		2024-09-24T06:52:48
L2453498-05	33	Unknown	?	0.0527	1	1	1	0.5911		2024-09-24T06:53:52
L2453498-06	34	Unknown	?	0.0432	1	1	1	0.4850		2024-09-24T06:54:57
L2453498-07	35	Unknown	?	0.0418	1	1	1	0.4691		2024-09-24T06:56:02
L2453657-01	36	Unknown	?	1.2958	1	1	1	14.5175	OVR	2024-09-24T06:57:43
L2453720-01	37	Unknown	?	-0.0026	1	1	1	-0.0276		2024-09-24T06:57:50

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-02	38	Unknown	?	0.2280	1	1	1	2.5557		2024-09-24T06:59:23
WG1975296-3	39	Unknown	?	0.3409	1	1	1	3.8200		2024-09-24T07:00:30
WG1975296-4	40	Unknown	?	0.6750	1	1	1	7.5623		2024-09-24T07:01:36
CCV NO3	41	QC	1	0.0885	1	1	1	0.9921		2024-09-24T07:02:42
CCV NO2	42	QC	?	0.0913	1	1	1	1.0237		2024-09-24T07:03:47
CCB	43	QC	0	0.0006	1	1	1	0.0077		2024-09-24T07:05:03
L2453720-03	44	Unknown	?	0.1088	1	1	1	1.2198		2024-09-24T07:06:07
L2453720-04	45	Unknown	?	0.0012	1	1	1	0.0148		2024-09-24T07:07:15
L2453720-06	46	Unknown	?	0.5916	1	1	1	6.6279		2024-09-24T07:08:20
L2453720-07	47	Unknown	?	0.0783	1	1	1	0.8780		2024-09-24T07:09:26
L2453720-08	48	Unknown	?	0.1912	1	1	1	2.1435		2024-09-24T07:10:31
L2453720-09	49	Unknown	?	0.4454	1	1	1	4.9911		2024-09-24T07:11:36
L2454352-01	50	Unknown	?	0.3072	1	1	1	3.4428		2024-09-24T07:12:41
CCV NO3	51	QC	1	0.0894	1	1	1	1.0023		2024-09-24T07:13:46
CCV NO2	52	QC	?	0.0905	1	1	1	1.0155		2024-09-24T07:14:51
CCB	53	QC	0	0.0002	1	1	1	0.0035		2024-09-24T07:16:08

Channel: 2-NO2

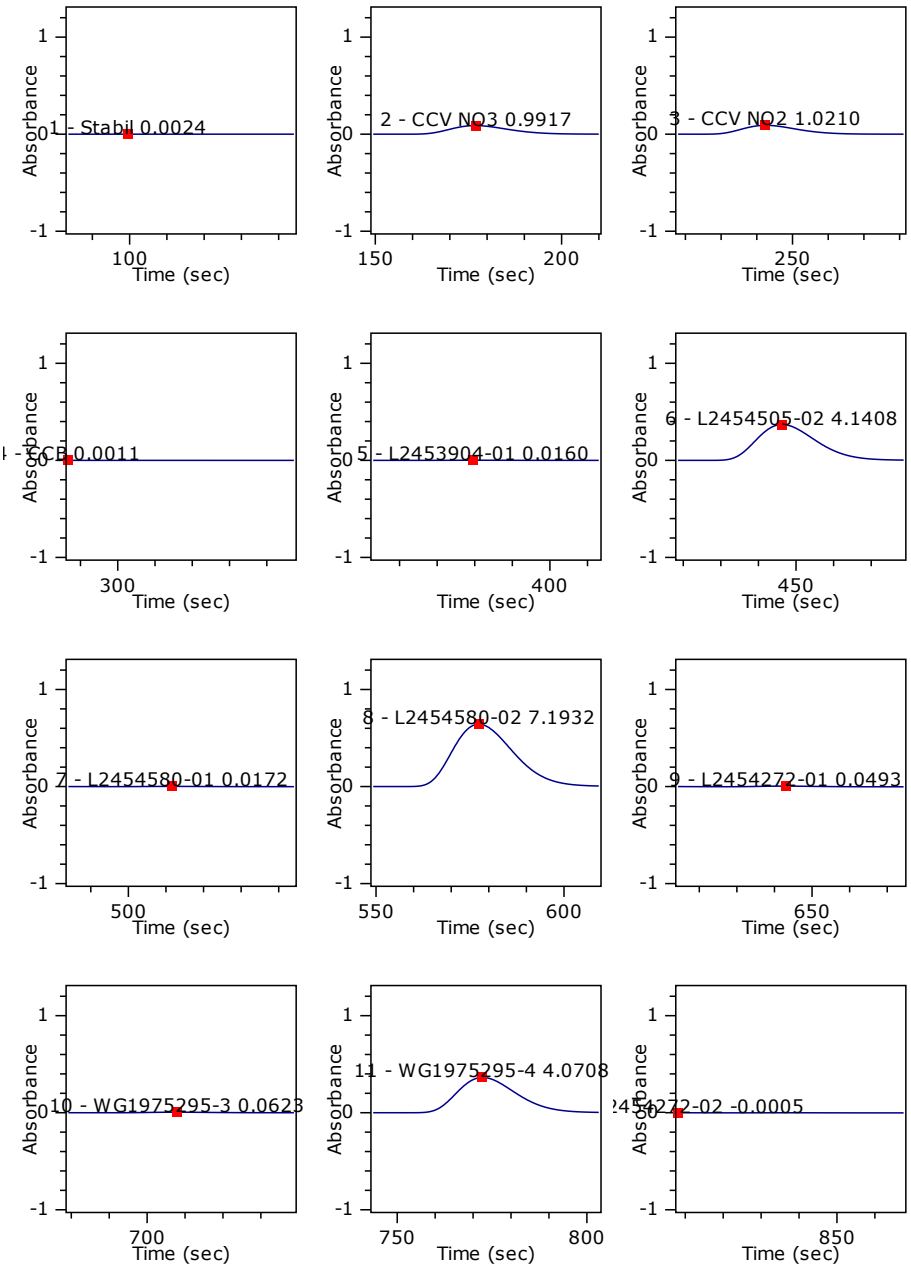
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T06:18:15
CCV NO3	2	QC	?	0.0000	1	1	1	-0.0020		2024-09-24T06:19:31
CCV NO2	3	QC	1	0.1378	1	1	1	1.0383		2024-09-24T06:20:33
CCB	4	QC	0	0.0000	1	1	1	-0.0021		2024-09-24T06:21:51
L2453904-01	5	Unknown	?	0.0011	1	1	1	0.0062		2024-09-24T06:22:51
L2454505-02	6	Unknown	?	0.0040	1	1	1	0.0280		2024-09-24T06:23:57
L2454580-01	7	Unknown	?	0.0025	1	1	1	0.0168		2024-09-24T06:25:02
L2454580-02	8	Unknown	?	0.1305	1	1	1	0.9829		2024-09-24T06:26:08
L2454272-01	9	Unknown	?	0.0008	1	1	1	0.0035		2024-09-24T06:27:13
WG1975295-3	10	Unknown	?	0.0002	1	1	1	-0.0011		2024-09-24T06:28:17
WG1975295-4	11	Unknown	?	0.0002	1	1	1	-0.0008		2024-09-24T06:29:24
L2454272-02	12	Unknown	?	0.0007	1	1	1	0.0030		2024-09-24T06:30:26
L2454272-04	13	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:31:32
L2454272-05	14	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:32:38
CCV NO3	15	QC	?	0.0000	1	1	1	-0.0020		2024-09-

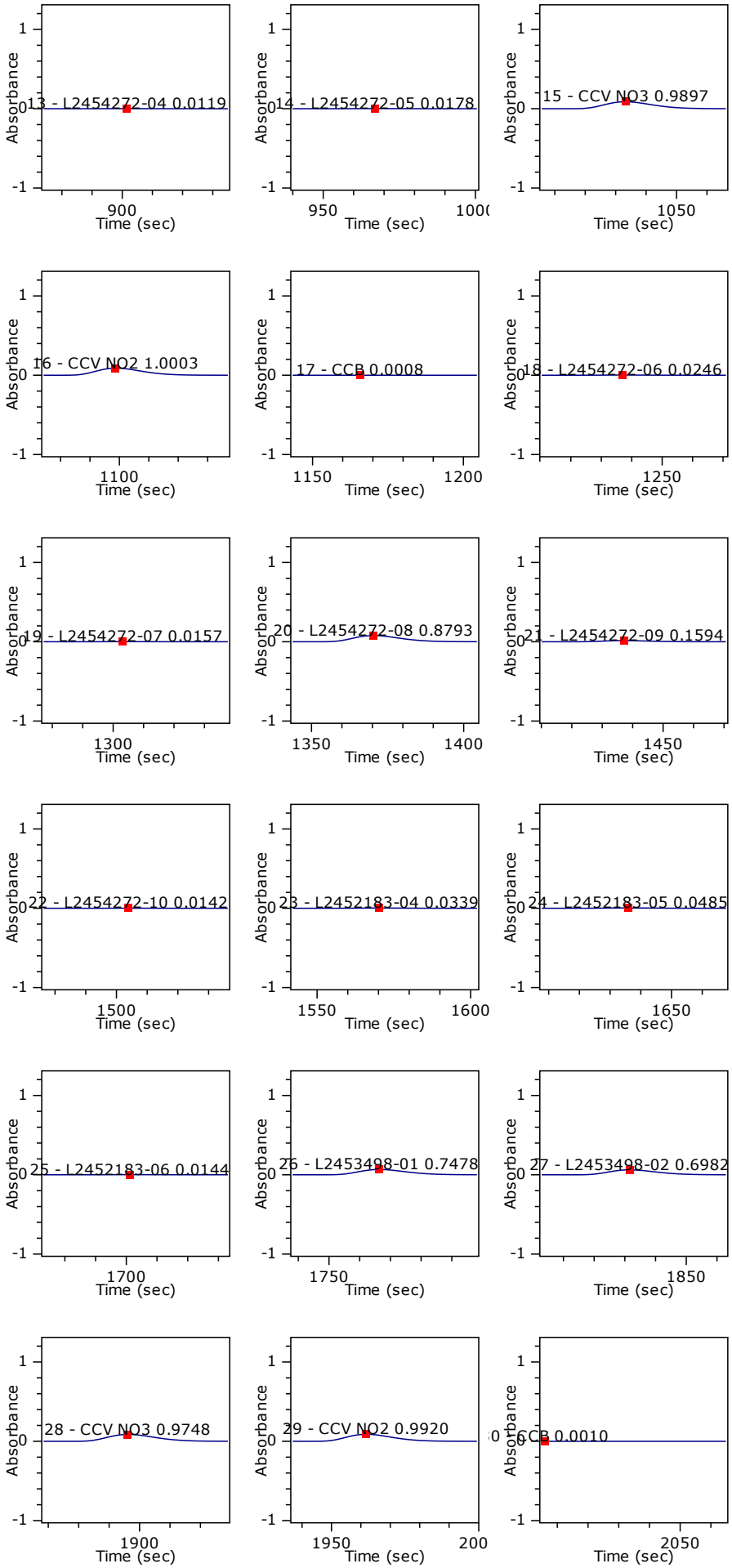
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										24T06:33:45
CCV NO2	16	QC	1	0.1375	1	1	1	1.0354		2024-09-24T06:34:50
CCB	17	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T06:35:59
L2454272-06	18	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:37:10
L2454272-07	19	Unknown	?	0.0007	1	1	1	0.0029		2024-09-24T06:38:15
L2454272-08	20	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T06:39:19
L2454272-09	21	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T06:40:56
L2454272-10	22	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:41:35
L2452183-04	23	Unknown	?	0.0030	1	1	1	0.0204		2024-09-24T06:42:41
L2452183-05	24	Unknown	?	0.0043	1	1	1	0.0298		2024-09-24T06:43:46
L2452183-06	25	Unknown	?	0.0014	1	1	1	0.0083		2024-09-24T06:44:52
L2453498-01	26	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T06:45:57
L2453498-02	27	Unknown	?	0.0009	1	1	1	0.0041		2024-09-24T06:47:03
CCV NO3	28	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T06:48:05
CCV NO2	29	QC	1	0.1373	1	1	1	1.0345		2024-09-24T06:49:13
CCB	30	QC	0	0.0000	1	1	1	-0.0020		2024-09-24T06:50:29
L2453498-03	31	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:51:28
L2453498-04	32	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:52:32
L2453498-05	33	Unknown	?	0.0008	1	1	1	0.0037		2024-09-24T06:53:38
L2453498-06	34	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:54:42
L2453498-07	35	Unknown	?	0.0008	1	1	1	0.0035		2024-09-24T06:55:50
L2453657-01	36	Unknown	?	1.3623	1	1	1	10.2823	OVR	2024-09-24T06:56:57
L2453720-01	37	Unknown	?	0.0010	1	1	1	0.0049		2024-09-24T06:58:04
L2453720-02	38	Unknown	?	0.0009	1	1	1	0.0044		2024-09-24T06:59:10
WG1975296-3	39	Unknown	?	0.0002	1	1	1	-0.0011		2024-09-24T07:00:15
WG1975296-4	40	Unknown	?	0.0002	1	1	1	-0.0008		2024-09-24T07:01:22
CCV NO3	41	QC	?	0.0001	1	1	1	-0.0015		2024-09-24T07:02:40
CCV NO2	42	QC	1	0.1368	1	1	1	1.0307		2024-09-24T07:03:34
CCB	43	QC	0	0.0002	1	1	1	-0.0006		2024-09-24T07:04:58
L2453720-03	44	Unknown	?	0.0008	1	1	1	0.0037		2024-09-24T07:05:54
L2453720-04	45	Unknown	?	0.0009	1	1	1	0.0043		2024-09-24T07:07:01
L2453720-06	46	Unknown	?	0.0009	1	1	1	0.0044		2024-09-24T07:08:07
L2453720-07	47	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T07:09:12

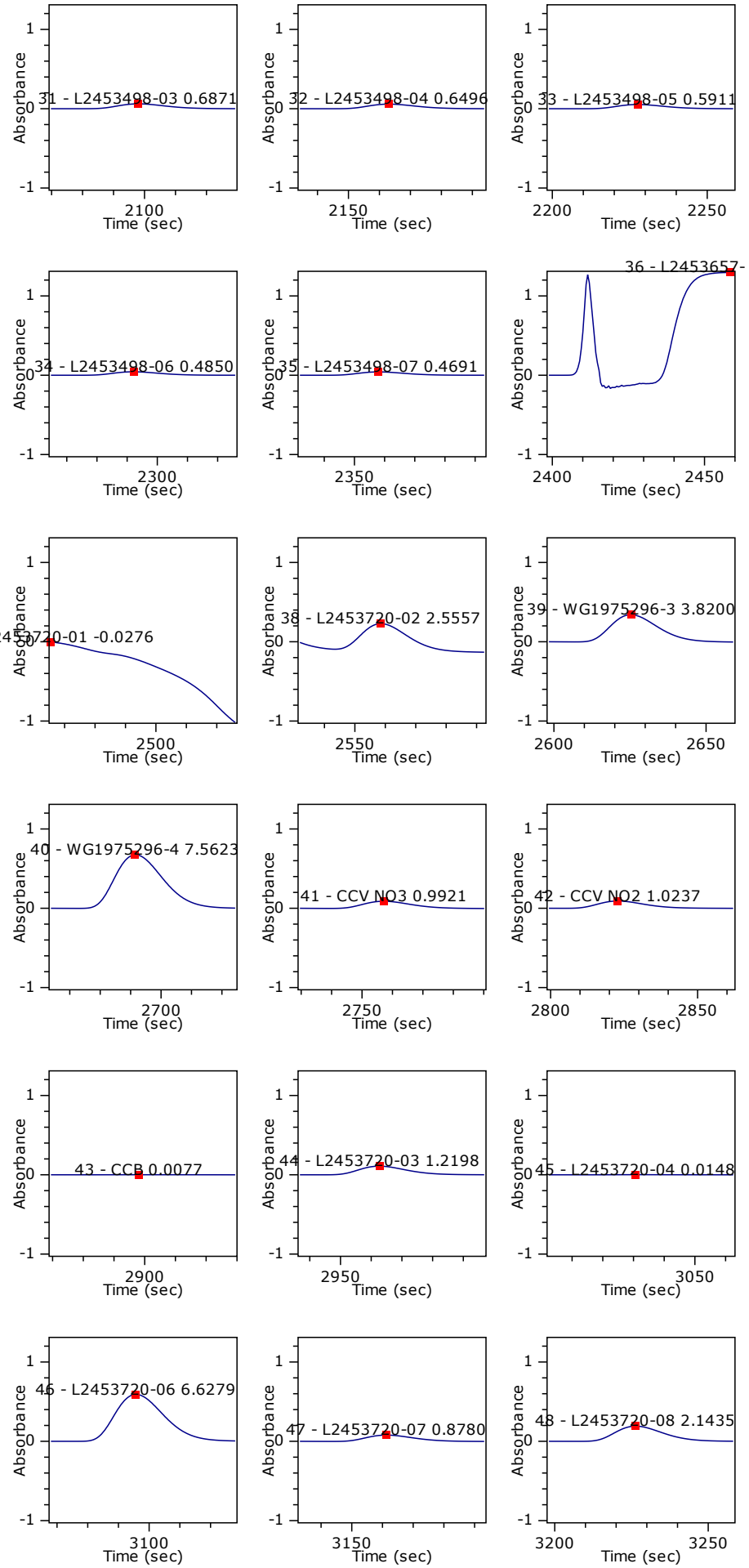
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-08	48	Unknown	?	0.0009	1	1	1	0.0043		2024-09-24T07:10:17
L2453720-09	49	Unknown	?	0.0007	1	1	1	0.0030		2024-09-24T07:11:22
L2454352-01	50	Unknown	?	0.0007	1	1	1	0.0033		2024-09-24T07:12:27
CCV NO3	51	QC	?	0.0000	1	1	1	-0.0023		2024-09-24T07:13:36
CCV NO2	52	QC	1	0.1374	1	1	1	1.0348		2024-09-24T07:14:38
CCB	53	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T07:15:51

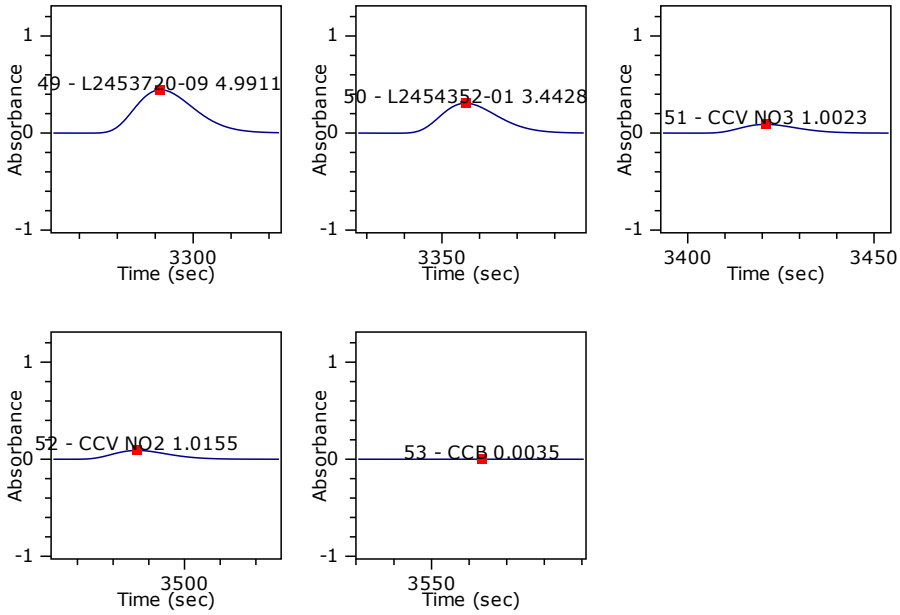
Peaks:

Channel: 1-NOx

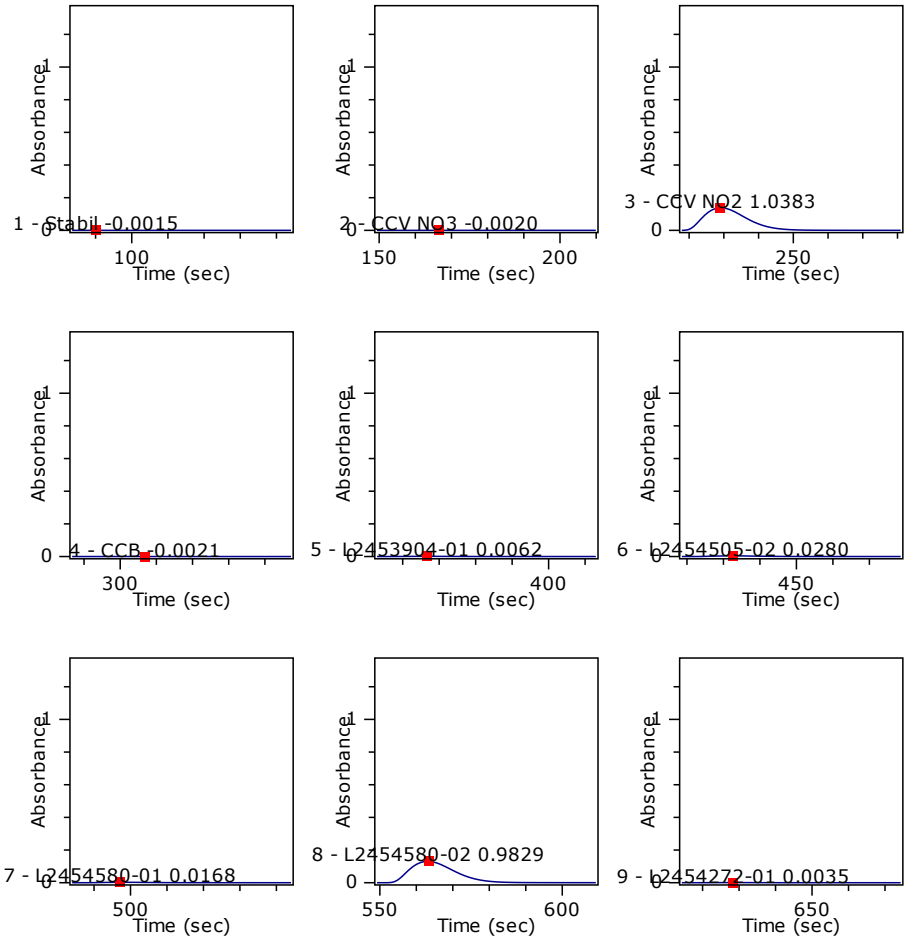


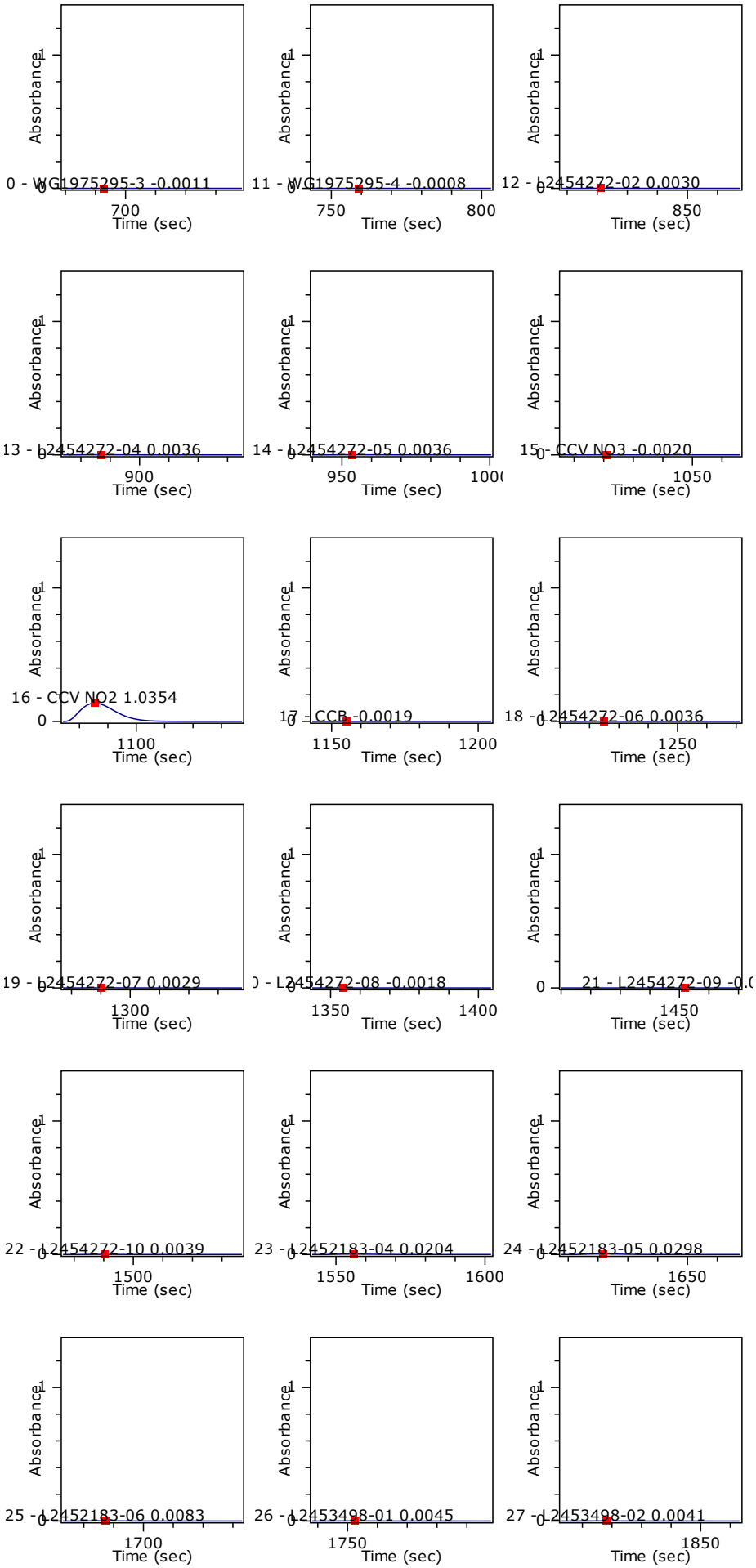

13 - L2454272-04 0.0119
14 - L2454272-05 0.0178
15 - CCV NO3 0.9897
16 - CCV NO2 1.0003
17 - CCB 0.0008
18 - L2454272-06 0.0246
19 - L2454272-07 0.0157
20 - L2454272-08 0.8793
21 - L2454272-09 0.1594
22 - L2454272-10 0.0142
23 - L2452183-04 0.0339
24 - L2452183-05 0.0485
25 - L2452183-06 0.0144
26 - L2453498-01 0.7478
27 - L2453498-02 0.6982
28 - CCV NO3 0.9748
29 - CCV NO2 0.9920
CCB 0.0010
Absorbance
Time (sec)

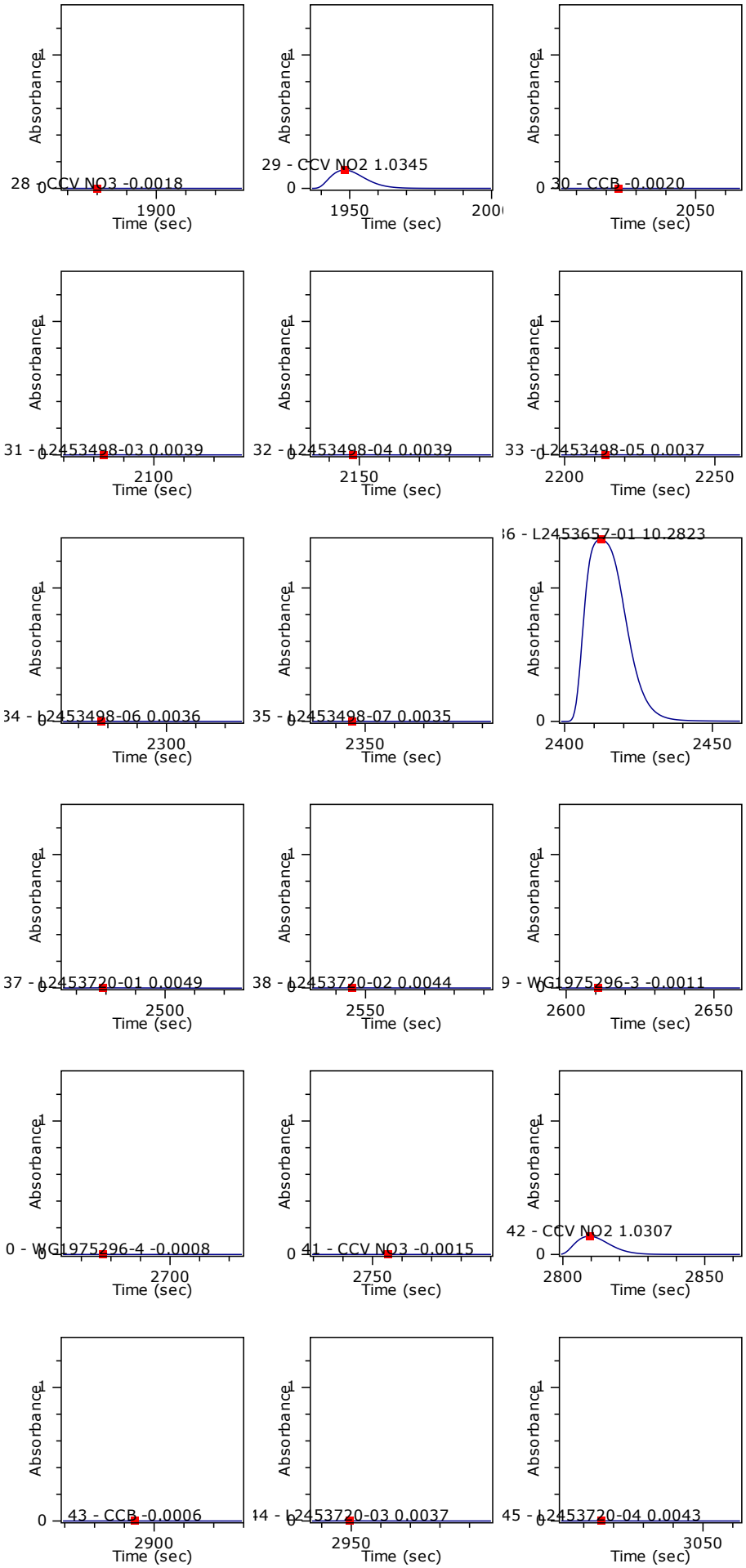

31 - L2453498-03 0.6871
32 - L2453498-04 0.6496
33 - L2453498-05 0.5911
34 - L2453498-06 0.4850
35 - L2453498-07 0.4691
36 - L2453657-
2453720-01 -0.0276
38 - L2453720-02 2.5557
39 - WG1975296-3 3.8200
40 - WG1975296-4 7.5623
41 - CCV NO3 0.9921
42 - CCV NO2 1.0237
43 - CCB 0.0077
44 - L2453720-03 1.2198
45 - L2453720-04 0.0148
46 - L2453720-06 6.6279
47 - L2453720-07 0.8780
48 - L2453720-08 2.1435
Absorbance
Time (sec)

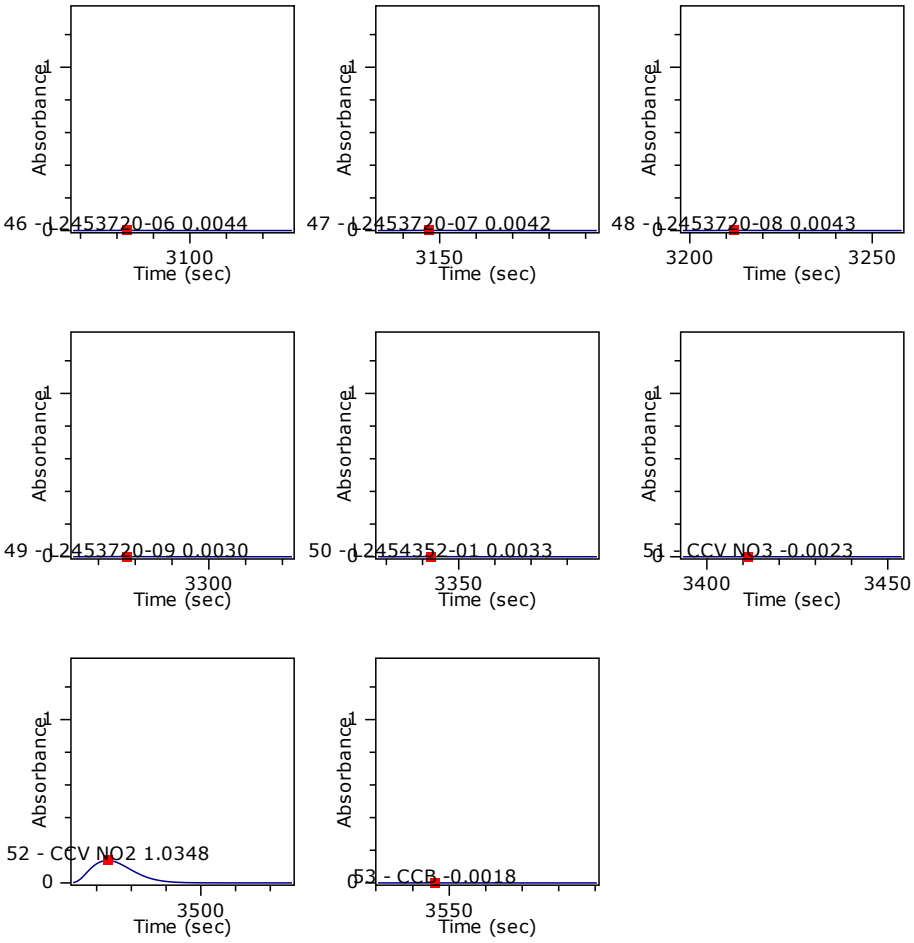


Channel: 2-NO2




0 - WG1975295-3 -0.0011
11 - WG1975295-4 -0.0008
12 - L2454272-02 0.0030
13 - L2454272-04 0.0036
14 - L2454272-05 0.0036
15 - CCV NO3 -0.0020
16 - CCV NO2 1.0354
17 - CCB -0.0019
18 - L2454272-06 0.0036
19 - L2454272-07 0.0029
) - L2454272-08 -0.0018
21 - L2454272-09 -0.(
22 - L2454272-10 0.0039
23 - L2452183-04 0.0204
24 - L2452183-05 0.0298
25 - L2452183-06 0.0083
26 - L2453498-01 0.0045
27 - L2453498-02 0.0041
Absorbance
Time (sec)


Absorbance
Time (sec)
28 - CCV NO3 -0.0018
29 - CCV NO2 1.0345
30 - CCB -0.0020
31 - L2453498-03 0.0039
32 - L2453498-04 0.0039
33 - L2453498-05 0.0037
34 - L2453498-06 0.0036
35 - L2453498-07 0.0035
36 - L2453657-01 10.2823
37 - L2453720-01 0.0049
38 - L2453720-02 0.0044
39 - WG1975296-3 -0.0011
40 - WG1975296-4 -0.0008
41 - CCV NO3 -0.0015
42 - CCV NO2 1.0307
43 - CCB -0.0006
44 - L2453720-03 0.0037
45 - L2453720-04 0.0043



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False

Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T06:16:45

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
```

```
    Delay (sec) 1
    Next Sample
    Autosampler Probe Force Down

    Spectrometer Reference Scan
    Spectrometer Absorbance Scanning

    Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

    FIAlab Injection Valve Sample Load

    Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

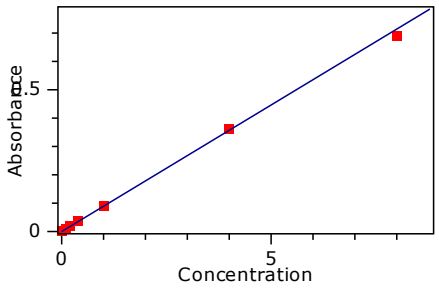
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 10:39:06
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-103842.dat

Dataset Notes:

Analyst	

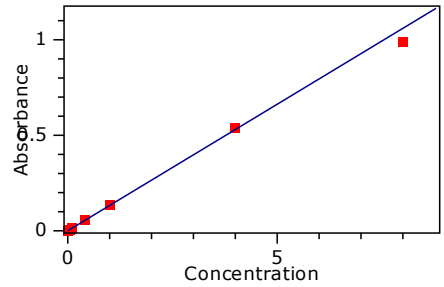
Dataset Notes Table Location:

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	N/A
10002	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	N/A
10003	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	N/A
10004	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	N/A
10005	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	N/A
10007	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	N/A
10002	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	N/A
10003	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	N/A
10004	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	N/A
10005	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	N/A
10006	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0002	1	1	1	0.0029		2024-09-24T09:18:23
CCV NO3	2	QC	1	0.0870	1	1	1	0.9758		2024-09-24T09:19:32
CCV NO2	3	QC	?	0.0882	1	1	1	0.9897		2024-09-24T09:20:39
CCB	4	QC	0	0.0000	1	1	1	0.0015		2024-09-24T09:21:47

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-01	5	Unknown	?	0.1062	1	1	1	1.1910		2024-09-24T09:22:56
L2453720-02	6	Unknown	?	0.3351	1	1	1	3.7552		2024-09-24T09:24:03
WG1975296-3	7	Unknown	?	0.3358	1	1	1	3.7625		2024-09-24T09:25:10
L2454059-01	8	Unknown	?	0.4496	1	1	1	5.0372		2024-09-24T09:26:15
WG1975297-3	9	Unknown	?	0.4514	1	1	1	5.0582		2024-09-24T09:27:20
WG1975297-4; 2 UP TO 10	10	Unknown	?	0.1540	5	1	1	8.6333		2024-09-24T09:28:27
L2454059-02	11	Unknown	?	0.1981	1	1	1	2.2199		2024-09-24T09:29:35
L2454142-01	12	Unknown	?	0.0022	1	1	1	0.0256		2024-09-24T09:30:42
L2454142-02	13	Unknown	?	0.4131	1	1	1	4.6286		2024-09-24T09:31:49
L2454143-01	14	Unknown	?	0.0021	1	1	1	0.0245		2024-09-24T09:32:56
CCV NO3	15	QC	1	0.0855	1	1	1	0.9585		2024-09-24T09:34:01
CCV NO2	16	QC	?	0.0879	1	1	1	0.9858		2024-09-24T09:35:07
CCB	17	QC	0	0.0001	1	1	1	0.0021		2024-09-24T09:36:15
L2453657-01; 0.5 UP TO 50	18	Unknown	?	0.6480	100	1	1	726.0200		2024-09-24T09:37:27
L2454143-02	19	Unknown	?	0.4463	1	1	1	5.0011		2024-09-24T09:38:35
L2454521-01	20	Unknown	?	0.0122	1	1	1	0.1377		2024-09-24T09:39:41
L2454521-02	21	Unknown	?	0.0483	1	1	1	0.5423		2024-09-24T09:40:48
L2454521-03	22	Unknown	?	0.0148	1	1	1	0.1668		2024-09-24T09:41:53
L2454521-04	23	Unknown	?	0.0053	1	1	1	0.0607		2024-09-24T09:42:59
L2454521-05	24	Unknown	?	0.0105	1	1	1	0.1187		2024-09-24T09:44:04
L2454521-06	25	Unknown	?	0.0083	1	1	1	0.0942		2024-09-24T09:45:09
CCV NO3	26	QC	1	0.0844	1	1	1	0.9471		2024-09-24T09:46:15
CCV NO2	27	QC	?	0.0868	1	1	1	0.9733		2024-09-24T09:47:20
CCB	28	QC	0	0.0000	1	1	1	0.0014		2024-09-24T09:48:26

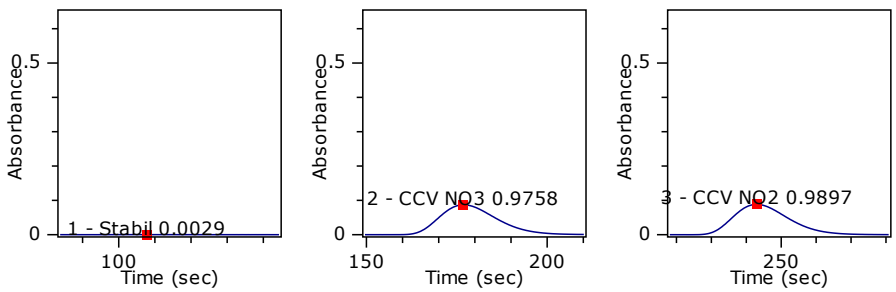
Channel: 2-NO2

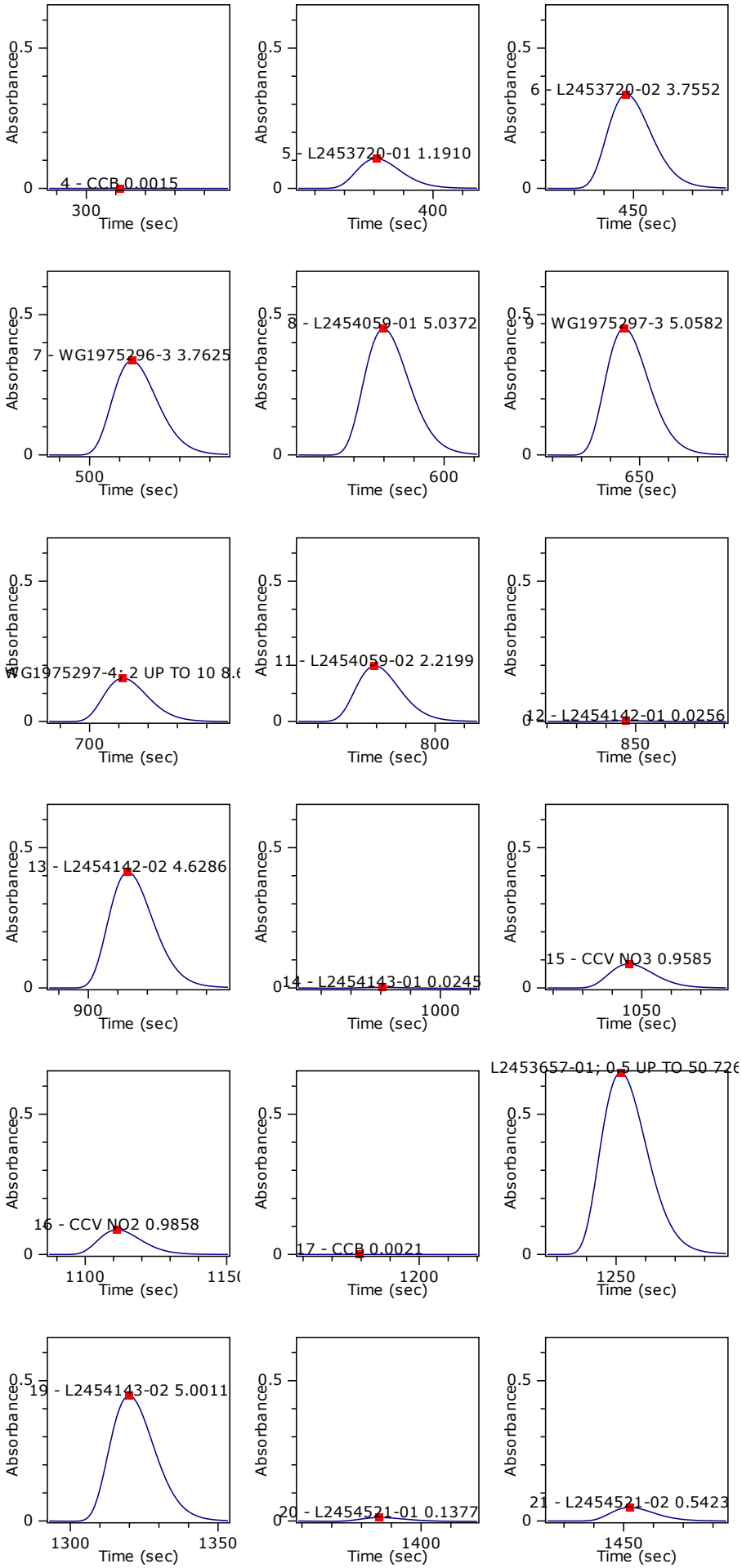
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0000	1	1	1	-0.0020		2024-09-24T09:18:10
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0017		2024-09-24T09:19:23
CCV NO2	3	QC	1	0.1395	1	1	1	1.0509		2024-09-24T09:20:25
CCB	4	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T09:21:35
L2453720-01	5	Unknown	?	0.0007	1	1	1	0.0032		2024-09-24T09:22:42
L2453720-02	6	Unknown	?	0.0008	1	1	1	0.0040		2024-09-24T09:23:50

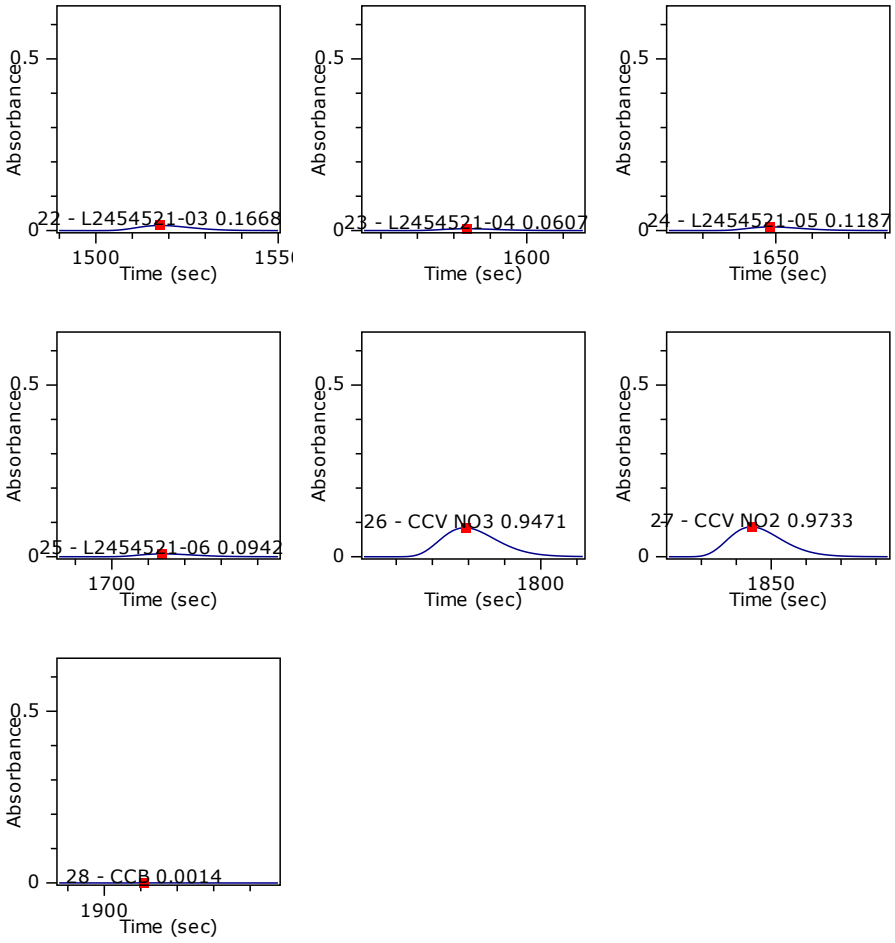
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975296-3	7	Unknown	?	0.0001	1	1	1	-0.0014		2024-09-24T09:24:55
L2454059-01	8	Unknown	?	0.0009	1	1	1	0.0046		2024-09-24T09:26:00
WG1975297-3	9	Unknown	?	0.0001	1	1	1	-0.0013		2024-09-24T09:27:08
WG1975297-4; 2 UP TO 10	10	Unknown	?	0.0001	5	1	1	-0.0087		2024-09-24T09:28:13
L2454059-02	11	Unknown	?	0.0007	1	1	1	0.0032		2024-09-24T09:29:23
L2454142-01	12	Unknown	?	0.0021	1	1	1	0.0138		2024-09-24T09:30:29
L2454142-02	13	Unknown	?	0.0011	1	1	1	0.0057		2024-09-24T09:31:36
L2454143-01	14	Unknown	?	0.0018	1	1	1	0.0115		2024-09-24T09:32:41
CCV NO3	15	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T09:33:55
CCV NO2	16	QC	1	0.1380	1	1	1	1.0396		2024-09-24T09:34:53
CCB	17	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T09:36:06
L2453657-01; 0.5 UP TO 50	18	Unknown	?	0.0176	100	1	1	13.0232		2024-09-24T09:37:15
L2454143-02	19	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T09:38:22
L2454521-01	20	Unknown	?	0.0067	1	1	1	0.0486		2024-09-24T09:39:28
L2454521-02	21	Unknown	?	0.0081	1	1	1	0.0591		2024-09-24T09:40:34
L2454521-03	22	Unknown	?	0.0107	1	1	1	0.0787		2024-09-24T09:41:40
L2454521-04	23	Unknown	?	0.0017	1	1	1	0.0107		2024-09-24T09:42:45
L2454521-05	24	Unknown	?	0.0043	1	1	1	0.0304		2024-09-24T09:43:50
L2454521-06	25	Unknown	?	0.0017	1	1	1	0.0109		2024-09-24T09:44:55
CCV NO3	26	QC	?	0.0000	1	1	1	-0.0020		2024-09-24T09:46:04
CCV NO2	27	QC	1	0.1378	1	1	1	1.0381		2024-09-24T09:47:06
CCB	28	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T09:48:22

Peaks:

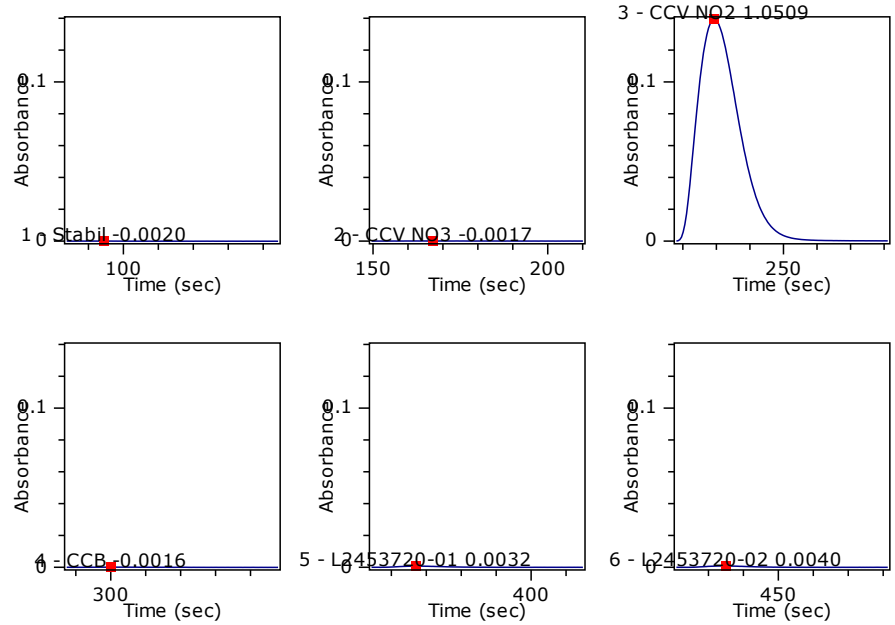
Channel: 1-NOx

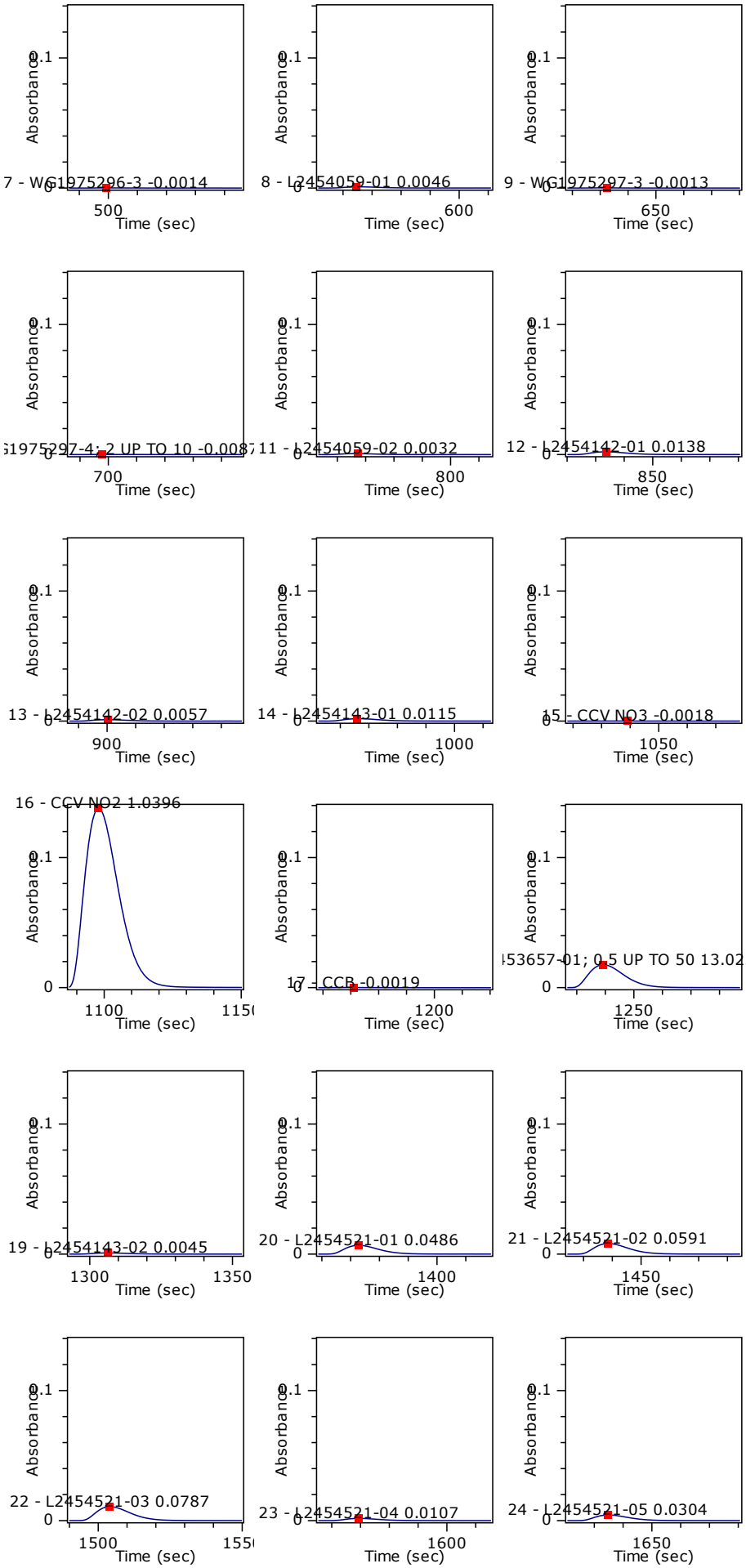


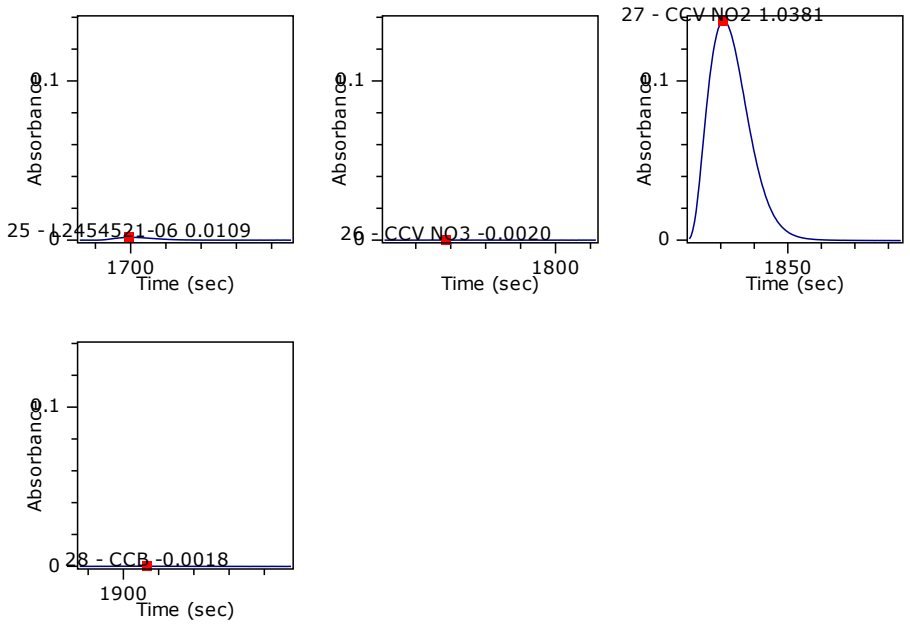

4 - CCB 0.0015
5 - L2453720-01 1.1910
6 - L2453720-02 3.7552
7 - WG1975296-3 3.7625
8 - L2454059-01 5.0372
9 - WG1975297-3 5.0582
- WG1975297-4; 2 UP TO 10 8.6
11 - L2454059-02 2.2199
12 - L2454142-01 0.0256
13 - L2454142-02 4.6286
14 - L2454143-01 0.0245
15 - CCV NO3 0.9585
L2453657-01; 0.5 UP TO 50 726
16 - CCV NO2 0.9858
17 - CCB 0.0021
19 - L2454143-02 5.0011
20 - L2454521-01 0.1377
21 - L2454521-02 0.5423
Absorbance
Time (sec)



Channel: 2-NO2




7 - WG1975296-3 -0.0014
8 - L2454059-01 0.0046
9 - WG1975297-3 -0.0013
G1975297-4; 2 UP TO 10 -0.0087
11 - L2454059-02 0.0032
12 - L2454142-01 0.0138
13 - L2454142-02 0.0057
14 - L2454143-01 0.0115
15 - CCV NO3 -0.0018
16 - CCV NO2 1.0396
17 - CCB -0.0019
53657-01; 0.5 UP TO 50 13.023
19 - L2454143-02 0.0045
20 - L2454521-01 0.0486
21 - L2454521-02 0.0591
22 - L2454521-03 0.0787
23 - L2454521-04 0.0107
24 - L2454521-05 0.0304
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T09:16:36

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.
```

```
    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01		
Matrix Spike	: WG1975297-4	**MS Analysis Date**	: 09/24/24 09:28
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Nitrate/Nitrite	5.0	4	8.6	90					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2454059-01	**Analysis Date**	: 09/24/24 09:26
Dup Sample ID	: WG1975297-3	**DUP Analysis Date**	: 09/24/24 09:27

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	5.0	5.0	0	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975297-2	**LCS Analysis Date**	: 09/24/24 03:57
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**4.90**	**98.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date:	Initals:	Syringe Lot:	Syringe Lot: 20230620
092424	KAF	Filter Lot:	Filter Lot: 18048470A

Injection #	Rack #	Sample ID:	Comments:
19	RA1	ICV NO3 5	*Buffer: NO3NO2_091924_BUFFER*
20	RA2	ICV NO2 5	*Color: NO3NO2_091824_COLOR*
21	RA3	ICV NO3 0.5	*NO3 MS: NO3_082924_200PPM_CAL*
22	RA4	ICV NO2 0.5	*NO2 MS: NO2_092124_200PPM_CAL*
23	RA5	ICB	*ICV NO3 5: NO3_092124_5PPM_ICV*
X	RA6	5X DILUTER CHECK	*ICV NO2 5: NO2_092124_5PPM_ICV*
24	RA7	BLANK NO3	*ICV NO3 0.5: NO3_092424_0.5PPM_ICV*
25	RA8	LCS NO3	*ICV NO2 0.5: NO2_092424_0.5PPM_ICV*
26	RA9	BLANK NO2	
27	RA10	LCS NO2	
31	RA11	WG1975294-1; CNO3	*OOH*
32	RA12	WG1975294-2; CNO3	*DW*
33	RA13	WG1975295-1; CNO3	GOING OOH
34	RA14	WG1975295-2; CNO3	FIELD BLANK
35	RA15	WG1975296-1; CNO3	
36	RA16	WG1975296-2; CNO3	
37	RA17	WG1975297-1; CNO3	
38	RA18	WG1975297-2; CNO3	
39	RA19	L2453804-01	
40	RA20	WG1975294-3; CNO3	
44	RA21	WG1975294-4; CNO3	
45	RA22	L2453807-02	
46	RA23	WG1975294-5; CNO3	
47	RA24	WG1975294-6; CNO3	
48	RA25	L2453808-03	
49	RA26	L2453894-01	
50	RA27	L2453894-02	
51	RA28	L2453894-03	
52	RA29	L2453894-04	
53	RA30	L2453894-05	
57	RA31	L2453894-06	
58	RA32	L2453894-07	
59	RA33	L2453894-08	
60	RA34	L2453894-09	
61	RA35	L2453894-10	
62	RA36	L2453894-11	
5	RA37	L2453904-01	
6	RA38	L2454505-02	
7	RA39	L2454580-01	
8	RA40	L2454580-02	
9	RA41	L2454272-01	
10	RA42	WG1975295-3; CNO3	

Injection #	Rack #	Sample ID:	Comments:
11	RA43	WG1975295-4; CNO3	
12	RA44	L2454272-02	
13	RA45	L2454272-04	
14	RA46	L2454272-05	
18	RA47	L2454272-06	
19	RA48	L2454272-07	
20	RA49	L2454272-08	
21	RA50	L2454272-09	
22	RA51	L2454272-10	
23	RA52	L2452183-04	
24	RA53	L2452183-05	
25	RA54	L2452183-06	
26	RA55	L2453498-01	
27	RA56	L2453498-02	
31	RA57	L2453498-03	
32	RA58	L2453498-04	
33	RA59	L2453498-05	
34	RA60	L2453498-06	
35	RA61	L2453498-07	
36	RA62	L2453657-01	
37; 5	RA63	L2453720-01	
38; 6	RA64	L2453720-02	
39; 7	RA65	WG1975296-3; CNO3	
40	RA66	WG1975296-4; CNO3	
44	RA67	L2453720-03	
45	RA68	L2453720-04	
46	RA69	L2453720-06	
47	RA70	L2453720-07	
48	RA71	L2453720-08	
49	RA72	L2453720-09	
50	RA73	L2454352-01	
8	RA74	L2454059-01	
9	RA75	WG1975297-3; CNO3	
	RA76	WG1975297-4; CNO3	
11	RA77	L2454059-02	
12	RA78	L2454142-01	
13	RA79	L2454142-02	
14	RA80	L2454143-01	
19	RA81	L2454143-02	
20	RA82	L2454521-01	
21	RA83	L2454521-02	
22	RA84	L2454521-03	
23	RA85	L2454521-04	
24	RA86	L2454521-05	
25	RA87	L2454521-06	

Injection #	Rack #	Sample ID:	Comments:
18	RD1	L2453657-01	
10	RD2	WG1975297-4	

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975858.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	280	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2454059
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2454059-02	**Date Collected**	:	09/19/24 09:30
Client ID	:	MW-4D2	**Date Received**	:	09/19/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/25/24 03:27
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1975858.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	52.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975858-1	**Date Collected**	: NA
Client ID	: WG1975858-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975858.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975858-3	**Date Collected**	: 09/18/24 10:05
Client ID	: WG1975858-3 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/25/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975858.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	210	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975858-4	**Date Collected**	: 09/18/24 10:35
Client ID	: WG1975858-4 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/25/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975858.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	660	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: SEP-26-24 12:25:18

WorkGroup	WG1975858	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**					
Method	SM2540C	**Time In**	26-SEP-24 01:25	**Time In**	26-SEP-24 07:34	**Time In**	26-SEP-24 07:47	**Time In**	26-SEP-24 09:34	**Time In**					
Instrument	BALANCE#22	**Time Out**	26-SEP-24 04:28	**Time Out**	26-SEP-24 07:42	**Time Out**	26-SEP-24 09:22	**Time Out**	26-SEP-24 11:45	**Time Out**					

Evaporation	**Temp In (C)**	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
	90	25-SEP-24 11:39	082724D	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2453081-06	25-SEP-24 03:27	DEB WHELAN	RA	77340422	112.4803	80	112.7948	112.7945				3927.50	1.3	
L2453081-07	25-SEP-24 03:27	DEB WHELAN	BQ	77340422	147.4159	80	147.4778	147.4798	147.4799			773.75	1.3	
L2453389-02	25-SEP-24 03:27	DEB WHELAN	SW	77340422	130.1404	80	130.4058	130.4061				3317.50	1.3	
L2453389-03	25-SEP-24 03:27	DEB WHELAN	MB	77340422	142.4833	80	142.8397	142.8396				4453.75	1.3	
L2453389-04	25-SEP-24 03:27	DEB WHELAN	RB	77340422	137.8453	80	137.8948	137.8951				618.75	1.3	
L2453389-05	25-SEP-24 03:27	DEB WHELAN	LC	77340422	143.2097	80	143.261	143.2619	143.2622			641.25	1.3	
L2453389-06	25-SEP-24 03:27	DEB WHELAN	AD 2	77340422	128.8462	80	129.1143	129.1146				3351.25	1.3	
L2453389-08	25-SEP-24 03:27	DEB WHELAN	BH	77340422	132.6358	80	132.7968	132.7969				2012.50	1.3	
L2453639-01	25-SEP-24 03:27	DEB WHELAN	PW	77340422	134.8162	80	134.8363	134.8364				251.25	1.3	T5
L2453639-02	25-SEP-24 03:27	DEB WHELAN	ER	77340422	133.0697	80	133.1248	133.1245				685.00	1.3	
L2453639-04	25-SEP-24 03:27	DEB WHELAN	LN	77340422	147.2976	80	147.3225	147.3224				310.00	1.3	
L2453954-02	25-SEP-24 03:27	DEB WHELAN	RG	77340422	137.1451	100	137.166	137.1661				209.00	1	EFF
L2454050-01	25-SEP-24 03:27	DEB WHELAN	RM	77340422	135.004	80	135.0093	135.0089				61.25	1.3	
L2454050-02	25-SEP-24 03:27	DEB WHELAN	XM	77340422	128.397	80	128.4146	128.4144				217.50	1.3	
L2454050-03	25-SEP-24 03:27	DEB WHELAN	SQ	77340422	139.1392	100	139.1386	139.1387				-6.00	1	EB
L2454050-04	25-SEP-24 03:27	DEB WHELAN	RF	77340422	123.4291	80	123.4376	123.4379				106.25	1.3	
L2454059-01	25-SEP-24 03:27	DEB WHELAN	XE	77340422	139.0291	80	139.0518	139.0518				283.75	1.3	
L2454059-02	25-SEP-24 03:27	DEB WHELAN	FD	77340422	150.9708	80	150.975	150.9769	150.9792			52.50	1.3	
L2454081-01	25-SEP-24 03:27	DEB WHELAN	OW	77340422	144.0249	80	144.1189	144.1185				1170.00	1.3	EFF
L2454081-02	25-SEP-24 03:27	DEB WHELAN	XY	77340422	136.4121	80	136.5106	136.5102				1226.25	1.3	INF
WG1975858-1	25-SEP-24 03:27	DEB WHELAN	EU	77340422	63.7406	100	63.7408	63.7404				-2.00	1	T4
WG1975858-2	25-SEP-24 03:27	DEB WHELAN	FD	77340422	66.0871	50	66.1102	66.1105				462.00	2	
WG1975858-3	25-SEP-24 03:27	DEB WHELAN	PS	77340422	135.375	80	135.3921	135.3936	135.3932			213.75	1.3	
WG1975858-4	25-SEP-24 03:27	DEB WHELAN	OG	77340422	138.4311	80	138.4912	138.4936	138.4839			660.00	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/25/24 03:27
Dup Sample ID	: WG1975858-3	**DUP Analysis Date**	: 09/25/24 03:27

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	250	210	17 Q	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/25/24 03:27
Dup Sample ID	: WG1975858-4	**DUP Analysis Date**	: 09/25/24 03:27

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	680	660	3	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975858-2	**LCS Analysis Date**	: 09/25/24 03:27
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**460.**	**92.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

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

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975584.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	9.7	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2454059
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2454059-02	**Date Collected**	:	09/19/24 09:30
Client ID	:	MW-4D2	**Date Received**	:	09/19/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 14:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975584.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	19.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975584-1	**Date Collected**	: NA
Client ID	: WG1975584-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 14:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975584.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	1.7	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975584-3	**Date Collected**	: 09/19/24 11:20
Client ID	: WG1975584-3 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/24/24 14:00
Sample Matrix	: WATER	**Dilution Factor**	: 2.5
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975584.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	90.	25	3.4	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;wc3437
LCS;wc3373
Reagent;lot A4117
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 09/24/24
Curve Identifier: 9/24/2024
Analysis Analyte: Sulfate
Analysis Date: 9/24/2024 14:00
Preparation Date: 9/24/2024 14:00
Technician: MRW
Work group: WG1975584
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.003	1.0	1.70
10	0.165	1.0	8.52
20	0.410	1.0	18.8
40	0.936	1.0	41.0

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.023766	-0.0374

Correlation Coefficient
0.995805

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.001	0.001	1.749	1	1.0	1.7	Recovery
	ICV	25	25	0	0.474	0.474	21.485	1	1.0	21.5	107%
SAMP	L2453897-01	0.1	25	0.002	0.395	0.393	18.105	1	250.0	4526.3	FILTERED
SAMP	L2453908-01	25	25	0.01	0.185	0.175	9.009	1	1.0	9.0	
SAMP	L2453913-01	25	25	0.007	0.083	0.076	4.878	1	1.0	4.9	
SAMP	L2454059-01	25	25	0	0.192	0.192	9.718	1	1.0	9.7	
SAMP	L2454059-02	25	25	0.002	0.408	0.406	18.647	1	1.0	18.6	
SAMP	L2454068-01	2.5	25	0.027	0.44	0.413	18.940	1	10.0	189.4	
SAMP	L2454068-02	2	25	0.002	0.927	0.925	40.303	1	12.5	503.8	
SAMP	L2454068-03	2.5	25	0.01	0.416	0.406	18.647	1	10.0	186.5	FILTERED
	CCV1	25	25	0	0.482	0.482	21.819	1	1.0	21.8	
	CCB1	25	25	0	0.003	0.003	1.832	1	1.0	1.8	
SAMP	L2454068-04	2	25	0.001	0.825	0.824	36.089	1	12.5	451.1	FILTERED
SAMP	L2454068-05	25	25	0.015	0.404	0.389	17.938	1	1.0	17.9	FILTERED
SAMP	L2454068-06	10	25	0.006	0.805	0.799	35.045	1	2.5	87.6	
SAMP	L2454068-07	2	25	0.005	0.72	0.715	31.540	1	12.5	394.3	
SAMP	L2454068-08	2	25	0.003	0.393	0.390	17.980	1	12.5	224.7	
SAMP	L2454068-09	2	25	0.003	0.931	0.928	40.428	1	12.5	505.3	
SAMP	L2454312-02	25	25	0.039	0.569	0.530	23.821	1	1.0	23.8	
SAMP	L2454312-03	25	25	0.002	0.317	0.315	14.850	1	1.0	14.9	
SAMP	L2454312-04	25	25	0.073	0.261	0.188	9.551	1	1.0	9.6	
SAMP	L2454352-01	25	25	0.002	0.309	0.307	14.517	1	1.0	14.5	
	CCV2	25	25	0	0.472	0.472	21.401	1	1.0	21.4	
	CCB2	25	25	0	0.007	0.007	1.999	1	1.0	2.0	
SAMP	L2454668-01	25	25	0.044	0.928	0.884	38.592	1	1.0	38.6	
SAMP	L2454668-02	25	25	0.025	0.304	0.279	13.348	1	1.0	13.3	
	CCV3	25	25	0	0.459	0.459	20.859	1	1.0	20.9	
	CCB3	25	25	0	0.004	0.004	1.874	1	1.0	1.9	
BLANK	WG1975584-1	25	25	0.000	0.001	0.001	1.749	1	1.0	1.7	
DUP	WG1975584-3	10	25	0.006	0.825	0.819	35.880	1	2.5	89.7	L2454068-06

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1975584-4	5	25	0.004	0.896	0.892	87.600	5	100.0000	195	107
											L2454068-06
LCS	WG1975584-2	25	25	0	0.474	0.474		1	20.0000	21	107

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454068-06		
Matrix Spike	: WG1975584-4	**MS Analysis Date**	: 09/24/24 14:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfate	88.	100	200	107					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 14:00
Dup Sample ID	: WG1975584-3	**DUP Analysis Date**	: 09/24/24 14:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	88	90.	2	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975584-2	**LCS Analysis Date**	: 09/24/24 14:00
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**21.0**	**105.**					**90-110**	**14**

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

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

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Created By: Jason Hebert
File: PM11468-1
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240924_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	18.1	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240924_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	24.2	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975570-3	**Date Collected**	: NA
Client ID	: WG1975570-3BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 11:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240924_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975570-4	**Date Collected**	: 09/20/24 09:00
Client ID	: WG1975570-4 DUP	**Date Received**	: 09/20/24
Sample Location	:	**Date Analyzed**	: 09/24/24 11:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240924_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	21.9	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	7.186	pH		-56.14	mV/pH						

Results Editor

LabX

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.05	pH		9/24/2024 7	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.935 mL	OK
		Consumption 4.2 R3	0.940 mL	OK
		Content R5	18.700 mg/L	OK
		ALK LOW R6	18.600 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	5.52 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.055 mL	OK
		Consumption 4.2 R3	0.059 mL	OK
		Content R5	1.100 mg/L	OK
		ALK LOW R6	1.020 mg/L	OK
3	WG1975412-1	Sample size	50 mL	
		Potential R4	5.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.034 mL	OK
		Consumption 4.2 R3	0.040 mL	OK
		Content R5	0.680 mg/L	OK
		ALK LOW R6	0.560 mg/L	OK
4	WG1975412-2	Sample size	50 mL	
		Potential R4	10.87 pH	OK
		Consumption 8.3 R1	4.891 mL	OK
		Consumption 4.5 R2	5.270 mL	OK
		Consumption 4.2 R3	5.277 mL	OK
		Content R5	105.400 mg/L	OK
		ALK LOW R6	105.260 mg/L	OK
5	I2453894-01	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.746 mL	OK
		Consumption 4.2 R3	3.767 mL	OK
		Content R5	74.920 mg/L	OK
		ALK LOW R6	74.500 mg/L	OK
6	I2453894-02	Sample size	50 mL	

Titration report

		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.525 mL	OK
		Consumption 4.2 R3	8.628 mL	OK
		Content R5	170.500 mg/L	OK
		ALK LOW R6	168.440 mg/L	OK
7	I2453894-03	Sample size	50 mL	
		Potential R4	6.16 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.915 mL	OK
		Consumption 4.2 R3	13.018 mL	OK
		Content R5	258.300 mg/L	OK
		ALK LOW R6	256.240 mg/L	OK
8	I2453894-04	Sample size	50 mL	
		Potential R4	7.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.248 mL	OK
		Consumption 4.2 R3	6.264 mL	OK
		Content R5	124.960 mg/L	OK
		ALK LOW R6	124.640 mg/L	OK
9	I2453894-05	Sample size	50 mL	
		Potential R4	6.18 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.658 mL	OK
		Consumption 4.2 R3	8.738 mL	OK
		Content R5	173.160 mg/L	OK
		ALK LOW R6	171.560 mg/L	OK
10	I2453894-06	Sample size	50 mL	
		Potential R4	6.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	18.769 mL	OK
		Consumption 4.2 R3	18.969 mL	OK
		Content R5	375.380 mg/L	OK
		ALK LOW R6	371.380 mg/L	OK
11	I2453894-07	Sample size	50 mL	
		Potential R4	6.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.890 mL	OK
		Consumption 4.2 R3	15.045 mL	OK
		Content R5	297.800 mg/L	OK
		ALK LOW R6	294.700 mg/L	OK
12	I2453894-08	Sample size	50 mL	
		Potential R4	6.46 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.443 mL	OK
		Consumption 4.2 R3	14.194 mL	OK
		Content R5	248.860 mg/L	OK

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		ALK LOW R6	213.840 mg/L	OK
13	I2453894-09	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.225 mL	OK
		Consumption 4.2 R3	3.239 mL	OK
		Content R5	64.500 mg/L	OK
		ALK LOW R6	64.220 mg/L	OK
14	I2453894-10	Sample size	50 mL	
		Potential R4	6.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.214 mL	OK
		Consumption 4.2 R3	15.358 mL	OK
		Content R5	304.280 mg/L	OK
		ALK LOW R6	301.400 mg/L	OK
15	I2453894-11	Sample size	50 mL	
		Potential R4	5.35 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.093 mL	OK
		Consumption 4.2 R3	0.100 mL	OK
		Content R5	1.860 mg/L	OK
		ALK LOW R6	1.720 mg/L	OK
16	I2453894-11 CONF	Sample size	50 mL	
		Potential R4	5.15 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.072 mL	OK
		Consumption 4.2 R3	0.080 mL	OK
		Content R5	1.440 mg/L	OK
		ALK LOW R6	1.280 mg/L	OK
17	I2454050-01	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.391 mL	OK
		Consumption 4.2 R3	1.411 mL	OK
		Content R5	27.820 mg/L	OK
		ALK LOW R6	27.420 mg/L	OK
18	WG1975412-3	Sample size	50 mL	
		Potential R4	5.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.351 mL	OK
		Consumption 4.2 R3	1.367 mL	OK
		Content R5	27.020 mg/L	OK
		ALK LOW R6	26.700 mg/L	OK
19	WG1975412-4	Sample size	50 mL	
		Potential R4	9.30 pH	OK
		Consumption 8.3 R1	2.153 mL	OK
		Consumption 4.5 R2	6.329 mL	OK

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LabX

		Consumption 4.2 R3	6.333 mL	OK
		Content R5	126.580 mg/L	OK
		ALK LOW R6	126.500 mg/L	OK
20	I2454050-02	Sample size	50 mL	
		Potential R4	5.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.959 mL	OK
		Consumption 4.2 R3	0.975 mL	OK
		Content R5	19.180 mg/L	OK
		ALK LOW R6	18.860 mg/L	OK
21	I2454050-03	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.090 mL	OK
		Consumption 4.2 R3	0.094 mL	OK
		Content R5	1.800 mg/L	OK
		ALK LOW R6	1.720 mg/L	OK
22	I2454050-03 CONF	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.070 mL	OK
		Consumption 4.2 R3	0.075 mL	OK
		Content R5	1.400 mg/L	OK
		ALK LOW R6	1.300 mg/L	OK
23	I2454050-04	Sample size	50 mL	
		Potential R4	5.71 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.121 mL	OK
		Consumption 4.2 R3	6.228 mL	OK
		Content R5	122.420 mg/L	OK
		ALK LOW R6	120.280 mg/L	OK
24	I2454051-01	Sample size	50 mL	
		Potential R4	6.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	18.185 mL	OK
		Consumption 4.2 R3	18.385 mL	OK
		Content R5	363.700 mg/L	OK
		ALK LOW R6	359.700 mg/L	OK
25	I2454051-02	Sample size	50 mL	
		Potential R4	6.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
26	I2454051-03	Sample size	50 mL	
		Potential R4	6.81 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.411 mL	OK
		Consumption 4.2 R3	12.549 mL	OK
		Content R5	248.220 mg/L	OK
		ALK LOW R6	245.460 mg/L	OK
27	I2454051-04	Sample size	50 mL	
		Potential R4	6.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.129 mL	OK
		Consumption 4.2 R3	8.219 mL	OK
		Content R5	162.580 mg/L	OK
		ALK LOW R6	160.780 mg/L	OK
28	I2454051-05	Sample size	50 mL	
		Potential R4	7.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.364 mL	OK
		Consumption 4.2 R3	15.529 mL	OK
		Content R5	307.280 mg/L	OK
		ALK LOW R6	303.980 mg/L	OK
29	I2454051-02 2x+10	Sample size	50 mL	
		Potential R4	5.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.920 mL	OK
		Consumption 4.2 R3	3.019 mL	OK
		Content R5	58.400 mg/L	OK
		ALK LOW R6	56.420 mg/L	OK
30	xLCS	Sample size	50 mL	
		Potential R4	10.86 pH	OK
		Consumption 8.3 R1	4.941 mL	OK
		Consumption 4.5 R2	5.232 mL	OK
		Consumption 4.2 R3	5.240 mL	OK
		Content R5	104.640 mg/L	OK
		ALK LOW R6	104.480 mg/L	OK
31	WG1975570-3	Sample size	50 mL	
		Potential R4	5.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.045 mL	OK
		Consumption 4.2 R3	0.049 mL	OK
		Content R5	0.900 mg/L	OK
		ALK LOW R6	0.820 mg/L	OK
32	I2454059-01	Sample size	50 mL	
		Potential R4	5.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.943 mL	OK
		Consumption 4.2 R3	0.981 mL	OK
		Content R5	18.860 mg/L	OK
		ALK LOW R6	18.100 mg/L	OK

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33	I2454059-02	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.212 mL	OK
		Consumption 4.2 R3	1.235 mL	OK
		Content R5	24.240 mg/L	OK
		ALK LOW R6	23.780 mg/L	OK
34	I2454352-01	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.452 mL	OK
		Consumption 4.2 R3	1.501 mL	OK
		Content R5	29.040 mg/L	OK
		ALK LOW R6	28.060 mg/L	OK
35	WG1975570-4	Sample size	50 mL	
		Potential R4	5.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.093 mL	OK
		Consumption 4.2 R3	1.134 mL	OK
		Content R5	21.860 mg/L	OK
		ALK LOW R6	21.040 mg/L	OK
36	I2453880-01	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.916 mL	OK
		Consumption 4.2 R3	1.936 mL	OK
		Content R5	38.320 mg/L	OK
		ALK LOW R6	37.920 mg/L	OK
37	WG1975567-3	Sample size	50 mL	
		Potential R4	5.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.907 mL	OK
		Consumption 4.2 R3	1.932 mL	OK
		Content R5	38.140 mg/L	OK
		ALK LOW R6	37.640 mg/L	OK
38	WG1975567-4	Sample size	50 mL	
		Potential R4	9.98 pH	OK
		Consumption 8.3 R1	4.153 mL	OK
		Consumption 4.5 R2	7.357 mL	OK
		Consumption 4.2 R3	7.362 mL	OK
		Content R5	147.140 mg/L	OK
		ALK LOW R6	147.040 mg/L	OK
39	I2453880-02	Sample size	50 mL	
		Potential R4	5.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.935 mL	OK
		Consumption 4.2 R3	1.964 mL	OK

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		Content R5	38.700 mg/L	OK
		ALK LOW R6	38.120 mg/L	OK
40	I2453880-03	Sample size	50 mL	
		Potential R4	6.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.189 mL	OK
		Consumption 4.2 R3	3.221 mL	OK
		Content R5	63.780 mg/L	OK
		ALK LOW R6	63.140 mg/L	OK
41	I2453908-01	Sample size	50 mL	
		Potential R4	5.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.261 mL	OK
		Consumption 4.2 R3	2.303 mL	OK
		Content R5	45.220 mg/L	OK
		ALK LOW R6	44.380 mg/L	OK
42	Xdup	Sample size	50 mL	
		Potential R4	5.59 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.260 mL	OK
		Consumption 4.2 R3	2.296 mL	OK
		Content R5	45.200 mg/L	OK
		ALK LOW R6	44.480 mg/L	OK
43	I2453913-01	Sample size	50 mL	
		Potential R4	5.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.968 mL	OK
		Consumption 4.2 R3	2.995 mL	OK
		Content R5	59.360 mg/L	OK
		ALK LOW R6	58.820 mg/L	OK
44	I2453926-01	Sample size	50 mL	
		Potential R4	6.77 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.315 mL	OK
		Consumption 4.2 R3	6.371 mL	OK
		Content R5	126.300 mg/L	OK
		ALK LOW R6	125.180 mg/L	OK
45	I2454068-01	Sample size	50 mL	
		Potential R4	5.19 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.422 mL	OK
		Consumption 4.2 R3	0.485 mL	OK
		Content R5	8.440 mg/L	OK
		ALK LOW R6	7.180 mg/L	OK
46	I2454068-03	Sample size	50 mL	
		Potential R4	5.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

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		Consumption 4.5 R2	2.239 mL	OK
		Consumption 4.2 R3	2.322 mL	OK
		Content R5	44.780 mg/L	OK
		ALK LOW R6	43.120 mg/L	OK
47	I2454068-07	Sample size	50 mL	
		Potential R4	5.32 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.891 mL	OK
		Consumption 4.2 R3	2.030 mL	OK
		Content R5	37.820 mg/L	OK
		ALK LOW R6	35.040 mg/L	OK
48	I2454068-08	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.842 mL	OK
		Consumption 4.2 R3	5.986 mL	OK
		Content R5	116.840 mg/L	OK
		ALK LOW R6	113.960 mg/L	OK
49	I2454202-01 2x	Sample size	50 mL	
		Potential R4	7.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
50	I2454324-01	Sample size	50 mL	
		Potential R4	5.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.351 mL	OK
		Consumption 4.2 R3	6.461 mL	OK
		Content R5	127.020 mg/L	OK
		ALK LOW R6	124.820 mg/L	OK
51	I2454324-02	Sample size	50 mL	
		Potential R4	5.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.690 mL	OK
		Consumption 4.2 R3	10.826 mL	OK
		Content R5	213.800 mg/L	OK
		ALK LOW R6	211.080 mg/L	OK
52	I2454324-03	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.682 mL	OK
		Consumption 4.2 R3	11.845 mL	OK
		Content R5	233.640 mg/L	OK
		ALK LOW R6	230.380 mg/L	OK
53	I2454324-04	Sample size	50 mL	

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		Potential R4	5.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.450 mL	OK
		Consumption 4.2 R3	3.527 mL	OK
		Content R5	69.000 mg/L	OK
		ALK LOW R6	67.460 mg/L	OK
54	I2454324-05	Sample size	50 mL	
		Potential R4	5.80 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.260 mL	OK
		Consumption 4.2 R3	5.357 mL	OK
		Content R5	105.200 mg/L	OK
		ALK LOW R6	103.260 mg/L	OK
55	I2454324-06	Sample size	50 mL	
		Potential R4	5.80 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.486 mL	OK
		Consumption 4.2 R3	3.516 mL	OK
		Content R5	69.720 mg/L	OK
		ALK LOW R6	69.120 mg/L	OK
56	I2454324-07	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.871 mL	OK
		Consumption 4.2 R3	4.930 mL	OK
		Content R5	97.420 mg/L	OK
		ALK LOW R6	96.240 mg/L	OK
57	I2454202-01 2x+25	Sample size	50 mL	
		Potential R4	4.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.678 mL	OK
		Consumption 4.2 R3	10.560 mL	OK
		Content R5	33.560 mg/L	OK
		ALK LOW R6	-144.080 mg/L	OK
58	WG1975567-2	Sample size	50 mL	
		Potential R4	10.84 pH	OK
		Consumption 8.3 R1	4.868 mL	OK
		Consumption 4.5 R2	5.225 mL	OK
		Consumption 4.2 R3	5.231 mL	OK
		Content R5	104.500 mg/L	OK
		ALK LOW R6	104.380 mg/L	OK
59	WG1975567-1	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.050 mL	OK
		Consumption 4.2 R3	0.056 mL	OK
		Content R5	1.000 mg/L	OK

Titration report

		ALK LOW R6	0.880 mg/L	OK
60	I2453990-01	Sample size	50 mL	
		Potential R4	6.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
61	I2453990-02	Sample size	50 mL	
		Potential R4	4.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.766 mL	OK
		Consumption 4.2 R3	1.564 mL	OK
		Content R5	15.320 mg/L	OK
		ALK LOW R6	-0.640 mg/L	OK
62	I2453990-03	Sample size	50 mL	
		Potential R4	5.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.258 mL	OK
		Consumption 4.2 R3	14.719 mL	OK
		Content R5	285.160 mg/L	OK
		ALK LOW R6	275.940 mg/L	OK
63	I2453990-04	Sample size	50 mL	
		Potential R4	6.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
64	I2453990-05	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.813 mL	OK
		Consumption 4.2 R3	12.200 mL	OK
		Content R5	236.260 mg/L	OK
		ALK LOW R6	228.520 mg/L	OK
65	I2453990-06	Sample size	50 mL	
		Potential R4	5.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.661 mL	OK
		Consumption 4.2 R3	3.760 mL	OK
		Content R5	73.220 mg/L	OK
		ALK LOW R6	71.240 mg/L	OK
66	I2453990-07	Sample size	50 mL	
		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.398 mL	OK

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		Consumption 4.2 R3	14.868 mL	OK
		Content R5	287.960 mg/L	OK
		ALK LOW R6	278.560 mg/L	OK
67	I2453990-08	Sample size	50 mL	
		Potential R4	5.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.499 mL	OK
		Consumption 4.2 R3	1.652 mL	OK
		Content R5	29.980 mg/L	OK
		ALK LOW R6	26.920 mg/L	OK
68	I2453990-09	Sample size	50 mL	
		Potential R4	4.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.696 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
69	I2454036-01	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.099 mL	OK
		Consumption 4.2 R3	6.155 mL	OK
		Content R5	121.980 mg/L	OK
		ALK LOW R6	120.860 mg/L	OK
70	I2454036-02	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.692 mL	OK
		Consumption 4.2 R3	8.787 mL	OK
		Content R5	173.840 mg/L	OK
		ALK LOW R6	171.940 mg/L	OK
71	I2454036-03	Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.150 mL	OK
		Consumption 4.2 R3	9.246 mL	OK
		Content R5	183.000 mg/L	OK
		ALK LOW R6	181.080 mg/L	OK
72	I2454036-04	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.811 mL	OK
		Consumption 4.2 R3	6.879 mL	OK
		Content R5	136.220 mg/L	OK
		ALK LOW R6	134.860 mg/L	OK
73	I2454036-05	Sample size	50 mL	
		Potential R4	6.16 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.594 mL	OK
		Consumption 4.2 R3	9.688 mL	OK
		Content R5	191.880 mg/L	OK
		ALK LOW R6	190.000 mg/L	OK
74	WG1975624-3	Sample size	50 mL	
		Potential R4	6.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.585 mL	OK
		Consumption 4.2 R3	9.676 mL	OK
		Content R5	191.700 mg/L	OK
		ALK LOW R6	189.880 mg/L	OK
75	WG1975624-4	Sample size	50 mL	
		Potential R4	7.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.922 mL	OK
		Consumption 4.2 R3	15.134 mL	OK
		Content R5	178.440 mg/L	OK
		ALK LOW R6	54.200 mg/L	OK
76	I2454036-06	Sample size	50 mL	
		Potential R4	5.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.829 mL	OK
		Consumption 4.2 R3	6.899 mL	OK
		Content R5	136.580 mg/L	OK
		ALK LOW R6	135.180 mg/L	OK
77	I2454036-07	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.814 mL	OK
		Consumption 4.2 R3	6.881 mL	OK
		Content R5	136.280 mg/L	OK
		ALK LOW R6	134.940 mg/L	OK
78	I2454036-08	Sample size	50 mL	
		Potential R4	6.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.873 mL	OK
		Consumption 4.2 R3	14.026 mL	OK
		Content R5	277.460 mg/L	OK
		ALK LOW R6	274.400 mg/L	OK
79	I2454036-09	Sample size	50 mL	
		Potential R4	5.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.188 mL	OK
		Consumption 4.2 R3	0.195 mL	OK
		Content R5	3.760 mg/L	OK
		ALK LOW R6	3.620 mg/L	OK

Titration report

80	I2454036-09 CONF	Sample size	50 mL	
		Potential R4	5.33 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.171 mL	OK
		Consumption 4.2 R3	0.173 mL	OK
		Content R5	3.420 mg/L	OK
		ALK LOW R6	3.380 mg/L	OK
81	I2454036-10	Sample size	50 mL	
		Potential R4	5.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.092 mL	OK
		Consumption 4.2 R3	0.096 mL	OK
		Content R5	1.840 mg/L	OK
		ALK LOW R6	1.760 mg/L	OK
82	I2454036-10 CONF	Sample size	50 mL	
		Potential R4	5.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.130 mL	OK
		Consumption 4.2 R3	0.133 mL	OK
		Content R5	2.600 mg/L	OK
		ALK LOW R6	2.540 mg/L	OK
83	I2454218-01	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.707 mL	OK
		Consumption 4.2 R3	8.885 mL	OK
		Content R5	174.140 mg/L	OK
		ALK LOW R6	170.580 mg/L	OK
84	L2453990-01 5x	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.324 mL	OK
		Consumption 4.2 R3	4.372 mL	OK
		Content R5	86.480 mg/L	OK
		ALK LOW R6	85.520 mg/L	OK
85	L2453990-04 5x	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.673 mL	OK
		Consumption 4.2 R3	4.773 mL	OK
		Content R5	93.460 mg/L	OK
		ALK LOW R6	91.460 mg/L	OK
86	L2453990-09	Sample size	50 mL	
		Potential R4	4.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.301 mL	OK
		Consumption 4.2 R3	1.108 mL	OK

Titration report

		Content R5	6.020 mg/L	OK
		ALK LOW R6	-10.120 mg/L	OK
87	CCV	Sample size	50 mL	
		Potential R4	10.77 pH	OK
		Consumption 8.3 R1	4.964 mL	OK
		Consumption 4.5 R2	5.348 mL	OK
		Consumption 4.2 R3	5.349 mL	OK
		Content R5	106.960 mg/L	OK
		ALK LOW R6	106.940 mg/L	OK
88	CCB	Sample size	50 mL	
		Potential R4	5.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.059 mL	OK
		Consumption 4.2 R3	0.069 mL	OK
		Content R5	1.180 mg/L	OK
		ALK LOW R6	0.980 mg/L	OK
89	CCV	Sample size	50 mL	
		Potential R4	10.78 pH	OK
		Consumption 8.3 R1	4.916 mL	OK
		Consumption 4.5 R2	5.283 mL	OK
		Consumption 4.2 R3	5.289 mL	OK
		Content R5	105.660 mg/L	OK
		ALK LOW R6	105.540 mg/L	OK
90	CCB	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.105 mL	OK
		Consumption 4.2 R3	0.106 mL	OK
		Content R5	2.100 mg/L	OK
		ALK LOW R6	2.080 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	4.964 mL	**Minimum**	2.153 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	18.769 mL	**Minimum**	0.034 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

R3

Titration report

Mean	NaN mL		
Maximum	18.969 mL	**Minimum**	0.040 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

R4

Mean	6.19 pH		
Maximum	10.87 pH	**Minimum**	4.44 pH
Standard deviation	1.41 pH	**Rel. standard deviation**	22.791 %
Total samples	90	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	375.380 mg/L	**Minimum**	0.680 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	371.380 mg/L	**Minimum**	-144.080 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
9/24/2024 7:49:59 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 11:47
Dup Sample ID	: WG1975570-4	**DUP Analysis Date**	: 09/24/24 11:49

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	29.0	21.9	28 Q	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

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

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240924	LCS 7.0	7.05	INT:	MKT
pH 4	3295	Titrant:	4193		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse,MKT	42	Xdup	83	l2454218-01
2	Rinse,MKT	43	l2453913-01	84	L2453990-01 5x
3	WG1975412-1	44	l2453926-01	85	L2453990-04 5x
4	WG1975412-2	45	l2454068-01	86	L2453990-09
5	l2453894-01	46	l2454068-03	87	CCV
6	l2453894-02	47	l2454068-07	88	CCB
7	l2453894-03	48	l2454068-08	89	CCV
8	l2453894-04	49	l2454202-01 2x	90	CCB
9	l2453894-05	50	l2454324-01	91	
10	l2453894-06	51	l2454324-02	92	
11	l2453894-07	52	l2454324-03	93	
12	l2453894-08	53	l2454324-04	94	
13	l2453894-09	54	l2454324-05	95	
14	l2453894-10	55	l2454324-06	96	
15	l2453894-11	56	l2454324-07	97	
16	l2453894-11 CONF	57	l2454202-01 2x+25	98	
17	l2454050-01	58	WG1975567-2	99	
18	WG1975412-3	59	WG1975567-1	100	
19	WG1975412-4	60	l2453990-01	101	
20	l2454050-02	61	l2453990-02	102	
21	l2454050-03	62	l2453990-03	103	
22	l2454050-03 CONF	63	l2453990-04	104	
23	l2454050-04	64	l2453990-05	105	
24	l2454051-01	65	l2453990-06	106	
25	l2454051-02	66	l2453990-07	107	
26	l2454051-03	67	l2453990-08	108	
27	l2454051-04	68	l2453990-09	109	
28	l2454051-05	69	l2454036-01	110	
29	l2454051-02 2x+10	70	l2454036-02	111	
30	xLCS	71	l2454036-03	112	
31	WG1975570-3	72	l2454036-04	113	
32	l2454059-01	73	l2454036-05	114	
33	l2454059-02	74	WG1975624-3		
34	l2454352-01	75	WG1975624-4		2X = 25 mL
35	WG1975570-4	76	l2454036-06		5X = 10 mL
36	l2453880-01	77	l2454036-07		10X = 5 mL
37	WG1975567-3	78	l2454036-08		
38	WG1975567-4	79	l2454036-09		
39	l2453880-02	80	l2454036-09 CONF		
40	l2453880-03	81	l2454036-10		
41	l2453908-01	82	l2454036-10 CONF		

Chloride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2454059
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2454059-01	**Date Collected**	:	09/19/24 10:25
Client ID	:	MW-4S	**Date Received**	:	09/19/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 17:03
Sample Matrix	:	WATER	**Dilution Factor**	:	10
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL240924-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	120	10	8.9	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2454059
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2454059-02	**Date Collected**	:	09/19/24 09:30
Client ID	:	MW-4D2	**Date Received**	:	09/19/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 17:57
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL240924-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	13.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975605-1	**Date Collected**	: NA
Client ID	: WG1975605-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 14:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975605-3	**Date Collected**	: 09/17/24 07:00
Client ID	: WG1975605-3 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/24/24 15:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	81.	1.0	0.89	

Sample Raw Data

Author: Date : 9/24/2024

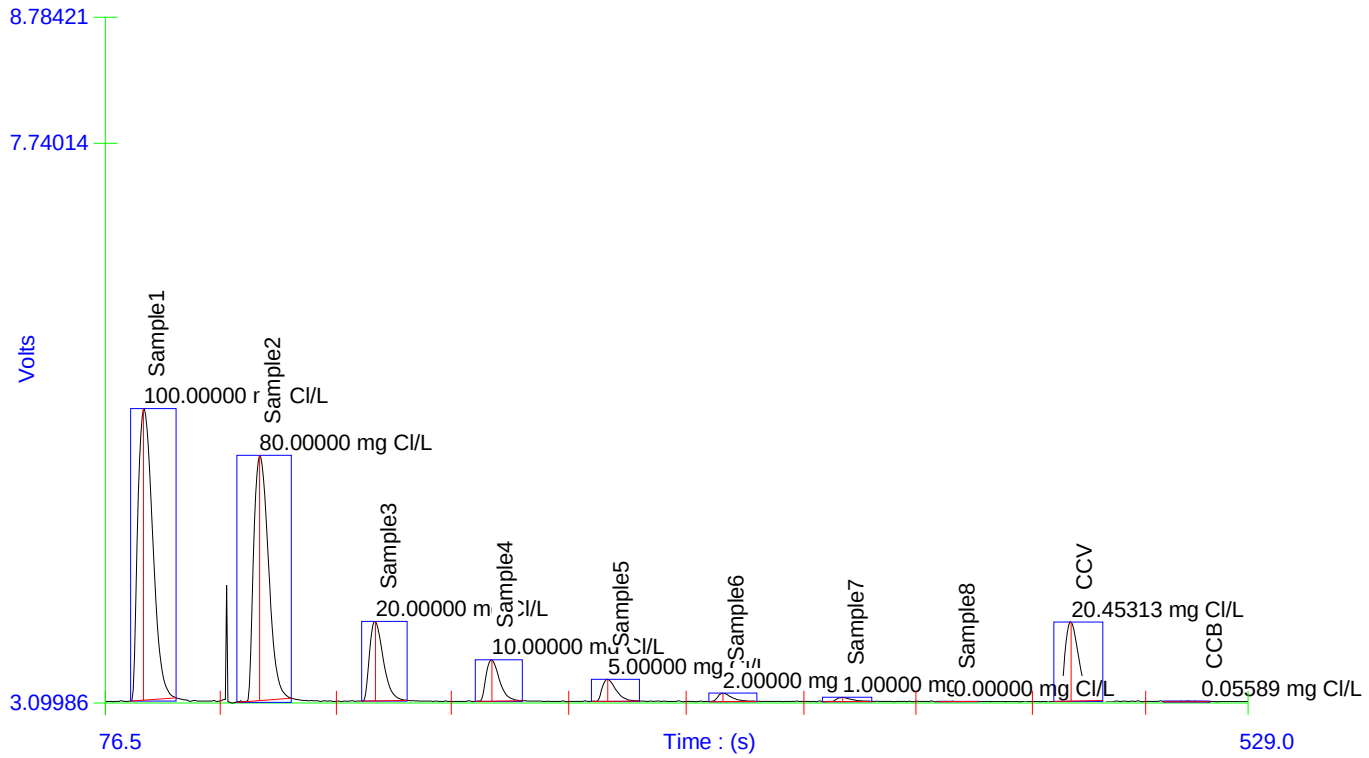
Original Run Filename: OM_9-24-2024_02-18-52PM.OMN Created: 9/24/2024 2:18:52 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-24-2024_02-18-52PM.OMN Last Modified: 9/24/2024 3:35:24 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
Sample1	1	S1	100.00000				
Sample2	1	S2	80.00000				
Sample3	1	S3	20.00000				
Sample4	1	S4	10.00000				
Sample5	1	S5	5.00000				
Sample6	1	S6	2.00000				
Sample7	1	S7	1.00000				
Sample8	1	S9	0.00000				
CCV	1	S3	20.45313				
	Known Conc:		20.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S9	0.05589				
	Known Conc:		0.00000				
ICV 5.0	1	1	4.65226				93%
ICV 30.0	1	2	31.34575				104%
ICV 80.0	1	3	79.50954				99%
ICB	1	4	0.18295				
100 PPM	1	5	109.55693	10.00			110%
WG1975603-1; BLK	1	6	0.09326				
WG1975603-2; LCS	1	7	30.43864				101%
WG1975605-1; BLK	1	8	0.04533				
WG1975605-2; LCS	1	9	30.17901				101%
WG1975607-1; BLK	1	10	-0.10501				
CCV	1	S3	20.42749				
	Known Conc:		20.00000				
CCB	1	S9	-0.12979				
	Known Conc:		0.00000				
WG1975607-2; LCS	1	11	30.01072				100%
WG1975609-1; BLK	1	12	0.04316				
WG1975609-2; LCS	1	13	31.01538				103%
L2453611-01	1	14	55.97819				
L2453611-02	1	15	56.00747				
L2453658-03	1	16	2.38800				
L2453658-04	1	17	2.07644				
L2453658-05	1	18	1.24275				
L2453658-06	1	19	4.05900				
L2453658-07	1	20	0.76125	10.00			
CCV	1	S3	19.90346				
	Known Conc:		20.00000				
CCB	1	S9	-0.07218				
	Known Conc:		0.00000				
L2453658-08	1	21	43.83644				
L2453698-01	1	22	473.76559				
L2453698-02	1	23	471.19098				
L2453698-03	1	24	420.06787				
L2453698-05	1	25	347.15106				
L2453698-07	1	26	276.91528				
L2453698-08	1	27	267.44461				
L2453720-01	1	28	14.56301				
L2453720-02	1	29	30.36252				
WG1975603-3; DUP	1	30	25.59962	10.00			
CCV	1	S3	20.43721				
	Known Conc:		20.00000				
CCB	1	S9	0.05201				
	Known Conc:		0.00000				
WG1975603-4; MS	1	31	47.92604				
L2453720-03	1	32	12.04614				
L2453720-04	1	33	0.10803				

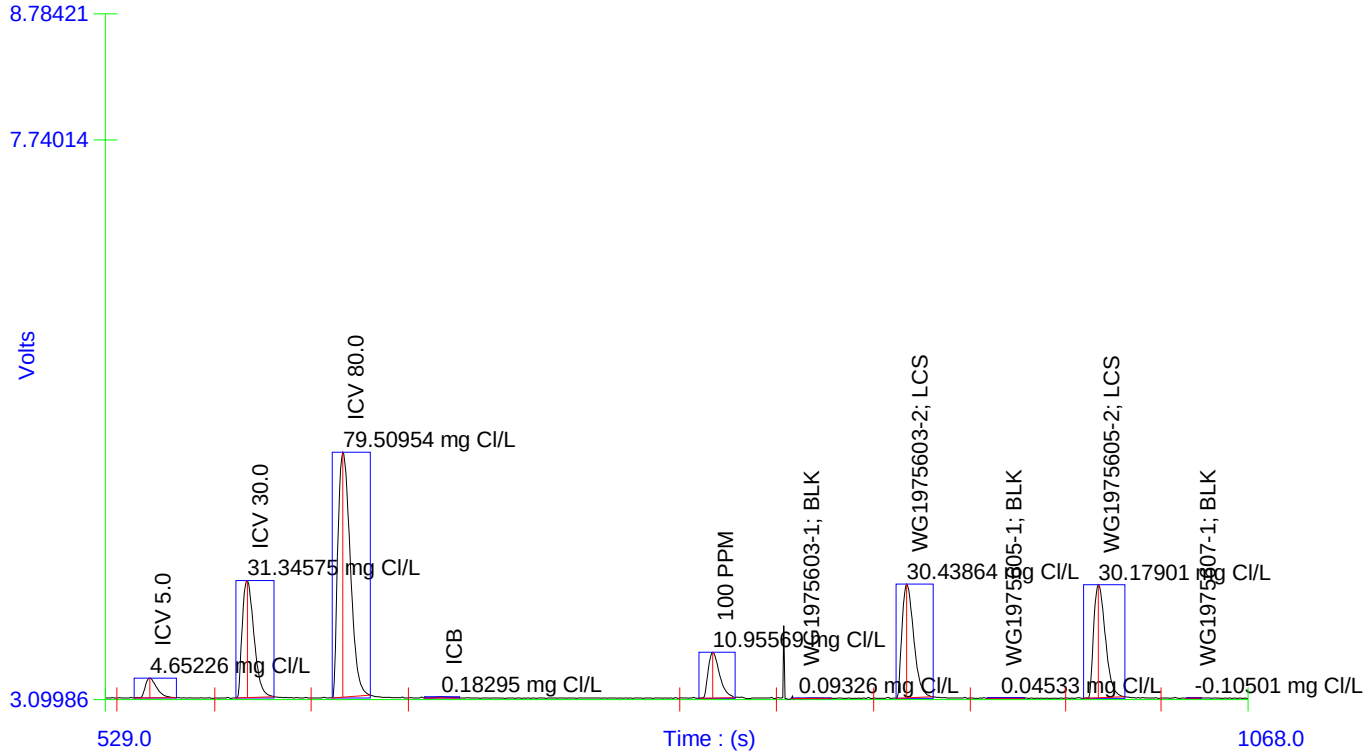
L2453720-06	1	34	27.88732			
L2453720-07	1	35	1.43689			
L2453720-08	1	36	65.27701			
L2453720-09	1	37	17.37411			
L2453890-01	1	38	83.56815			
WG1975605-3; DUP	1	39	81.22638			
WG1975605-4; MS	1	40	105.81803	10.00		
CCV	1	S3	19.74844			
	Known Conc:		20.00000			
CCB	1	S9	-0.06186			
	Known Conc:		0.00000			
L2453893-01	1	41	11.50934			
L2453899-01	1	42	4.99773			
L2453900-01	1	43	5.16161			
L2453908-01	1	44	7.50743			
L2453913-01	1	45	11.92326			
L2453934-07	1	46	55.73173			
L2454016-01	1	47	19.89683			
L2454016-02	1	48	38.45193			
L2454016-03	1	49	50.47604			
L2454016-04	1	50	108.87576	10.00		
CCV	1	S3	19.29436			
	Known Conc:		20.00000			
CCB	1	S9	0.00193			
	Known Conc:		0.00000			
L2454016-05	1	51	169.80553			
L2454016-06	1	52	137.68686			
L2454016-07	1	53	140.09534			
L2454016-08	1	54	99.73924			
L2454059-01	1	55	105.38631			
L2454059-02	1	56	13.68558			
L2454068-01	1	57	432.44641			
L2454068-03	1	58	223.26320			
L2454068-07	1	59	221.73396			
L2454068-08	1	60	130.90094	10.00		
CCV	1	S3	20.29837			
	Known Conc:		20.00000			
CCB	1	S9	0.01814			
	Known Conc:		0.00000			
~~L2454072-01~~	~~1~~	~~61~~	~~53.07846~~			
~~L2454424-01~~	~~1~~	~~62~~	~~102.82194~~			
~~L2454424-02~~	~~1~~	~~63~~	~~90.09927~~			
~~L2454424-03~~	~~1~~	~~64~~	~~110.00629~~			
~~L2454424-04~~	~~1~~	~~65~~	~~57.20277~~			
~~L2454424-05~~	~~1~~	~~66~~	~~104.35820~~			

Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 1 / 9

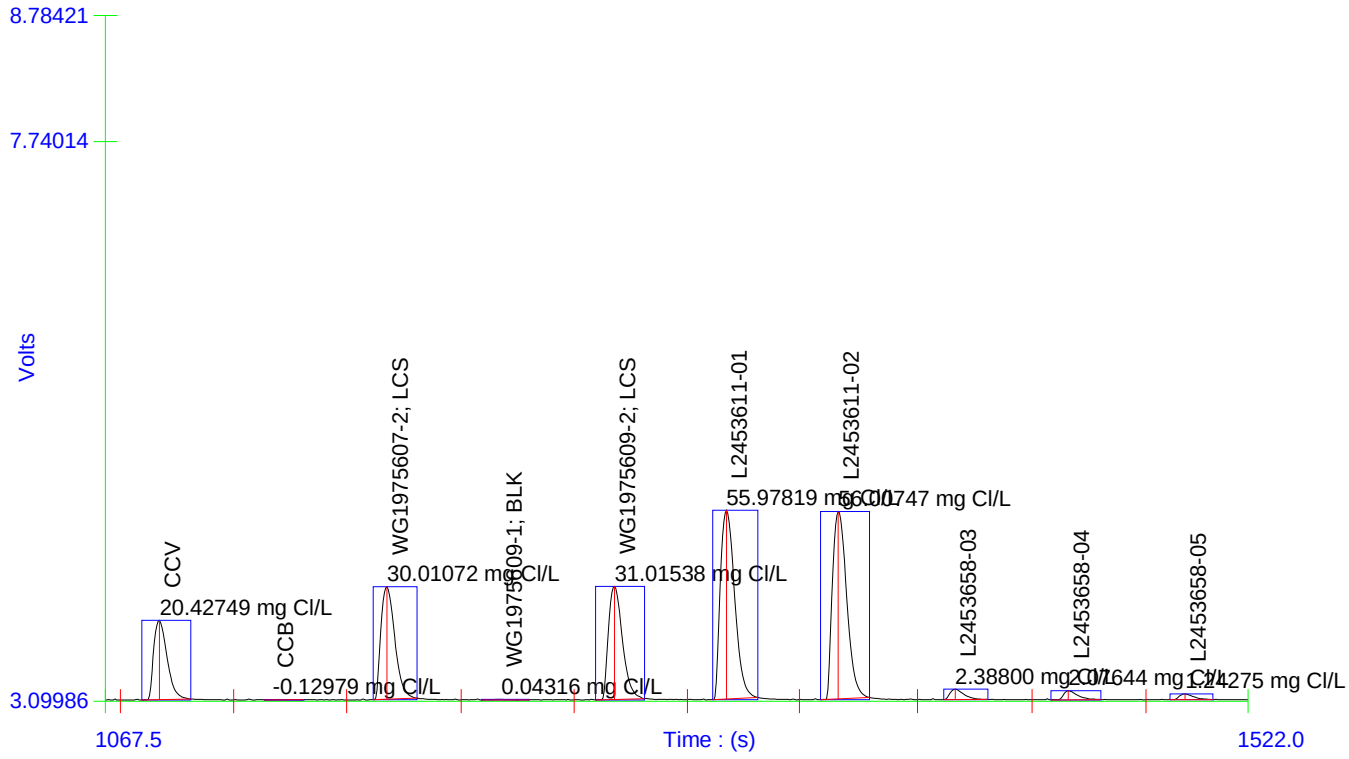


Channel 1 (Chloride) - Set: 2 / 9



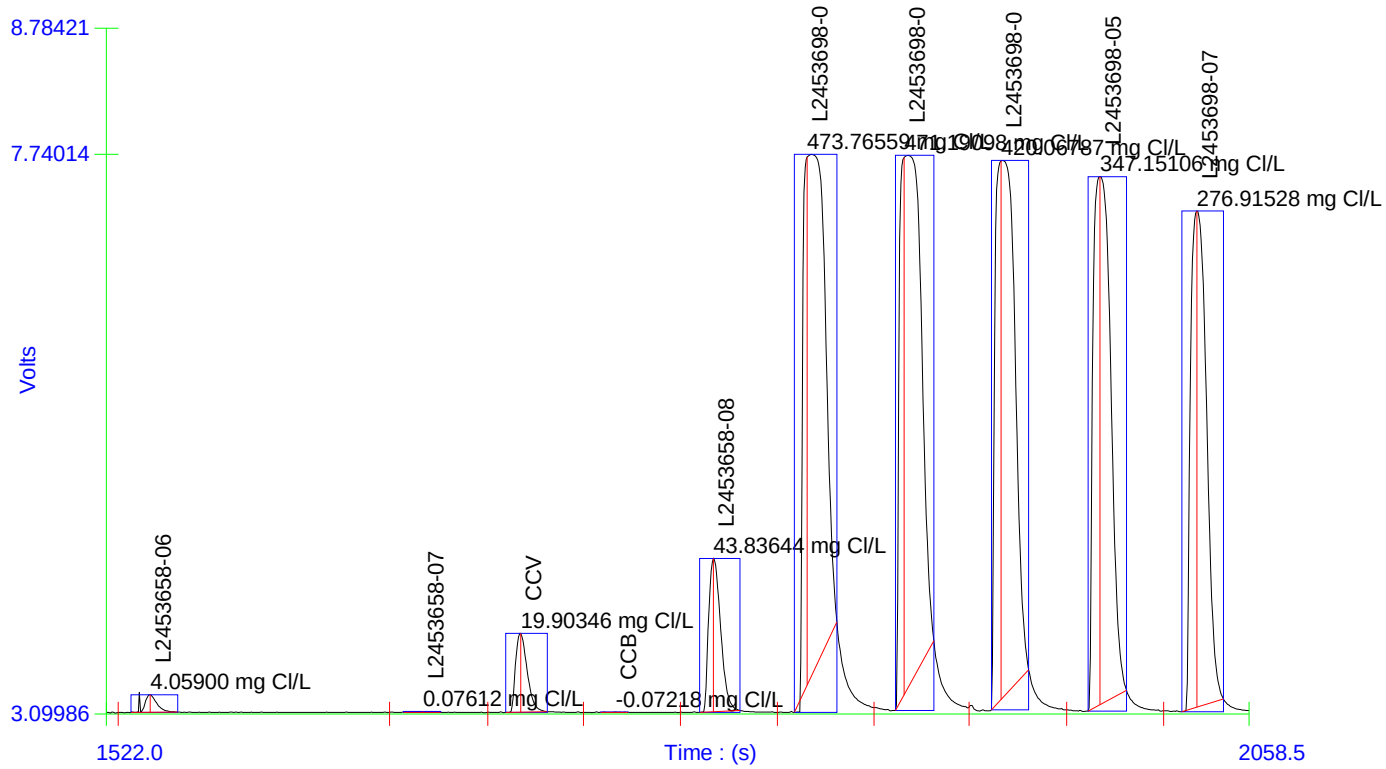
Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 3 / 9

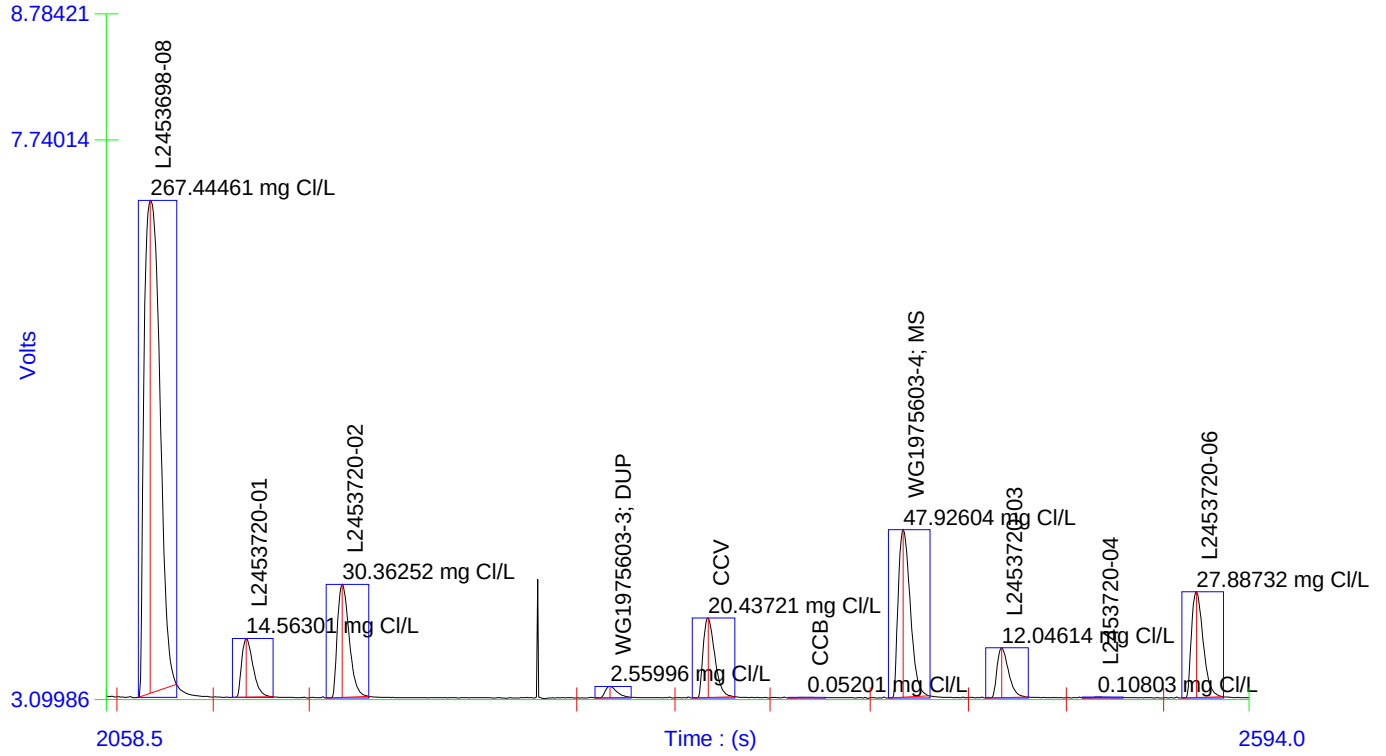


Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 4 / 9

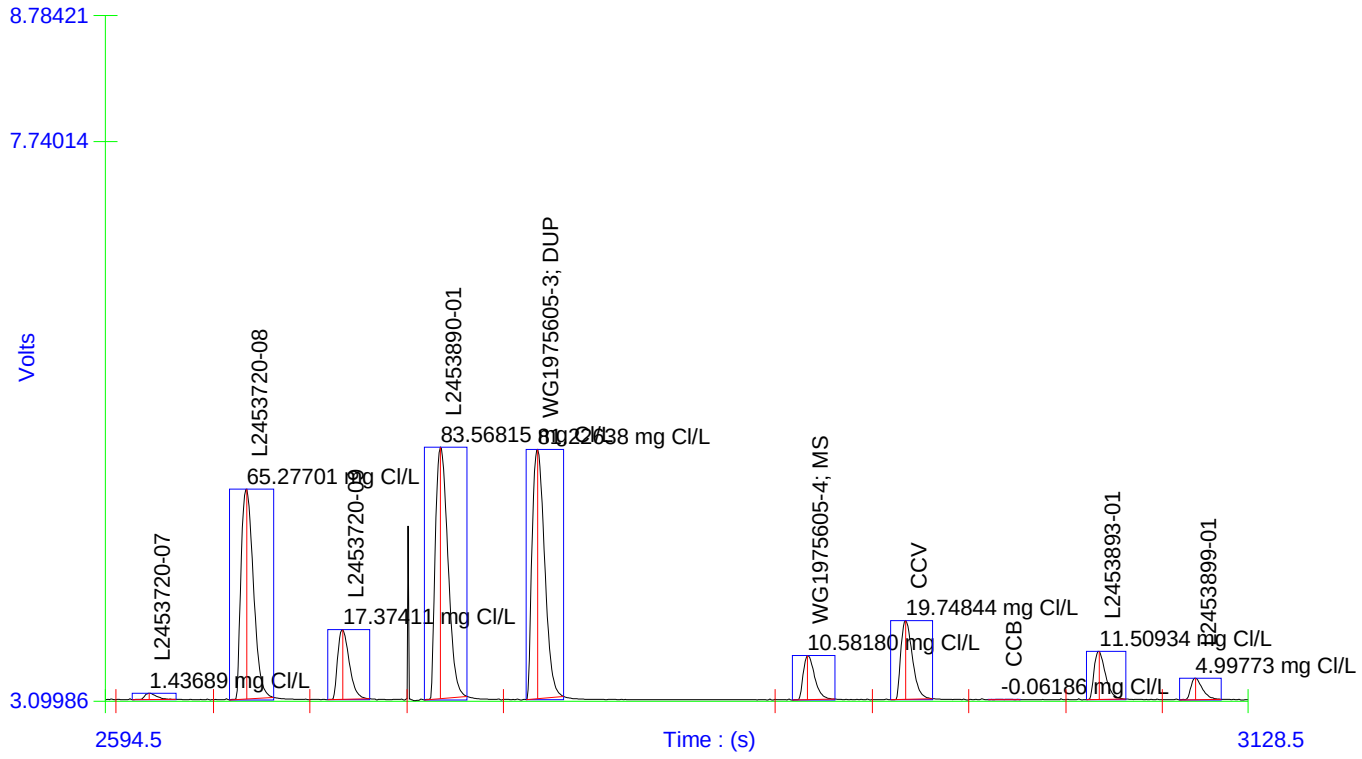


Channel 1 (Chloride) - Set: 5 / 9



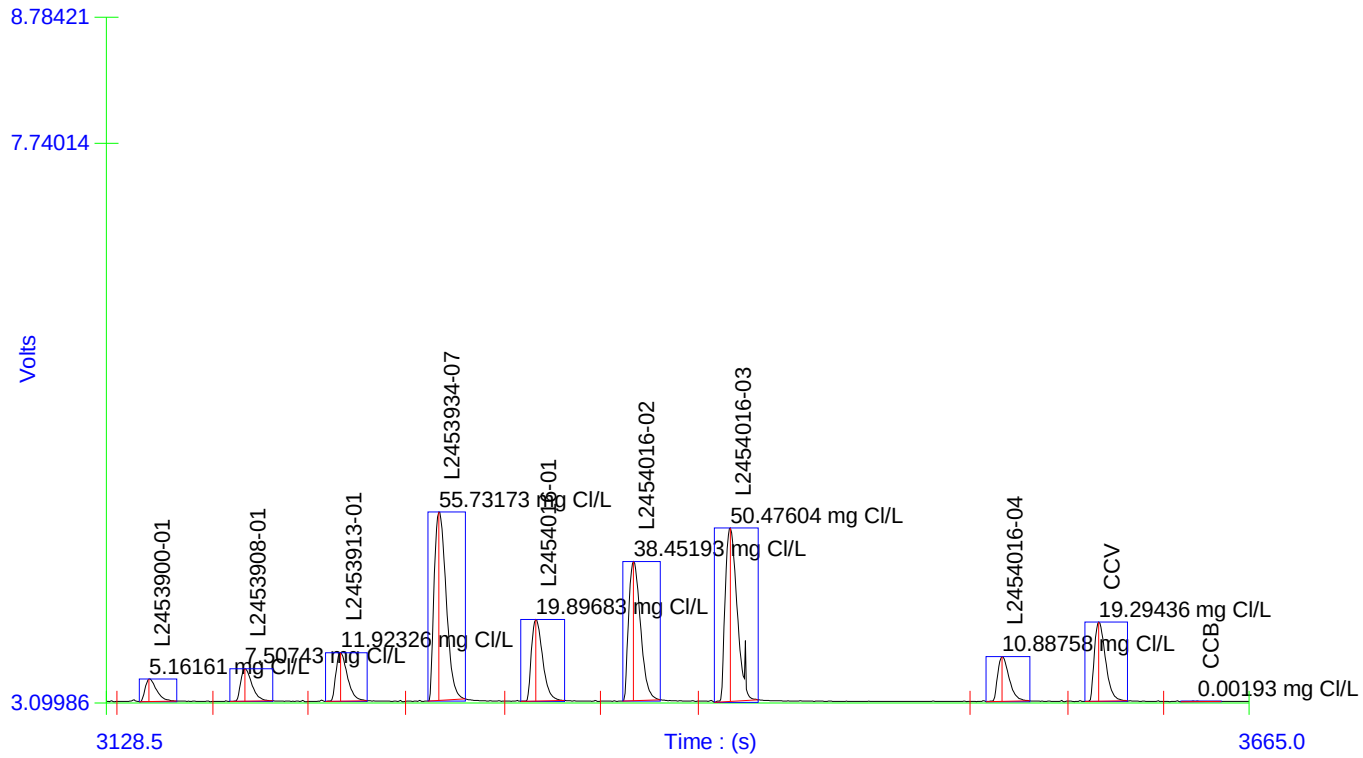
Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 6 / 9

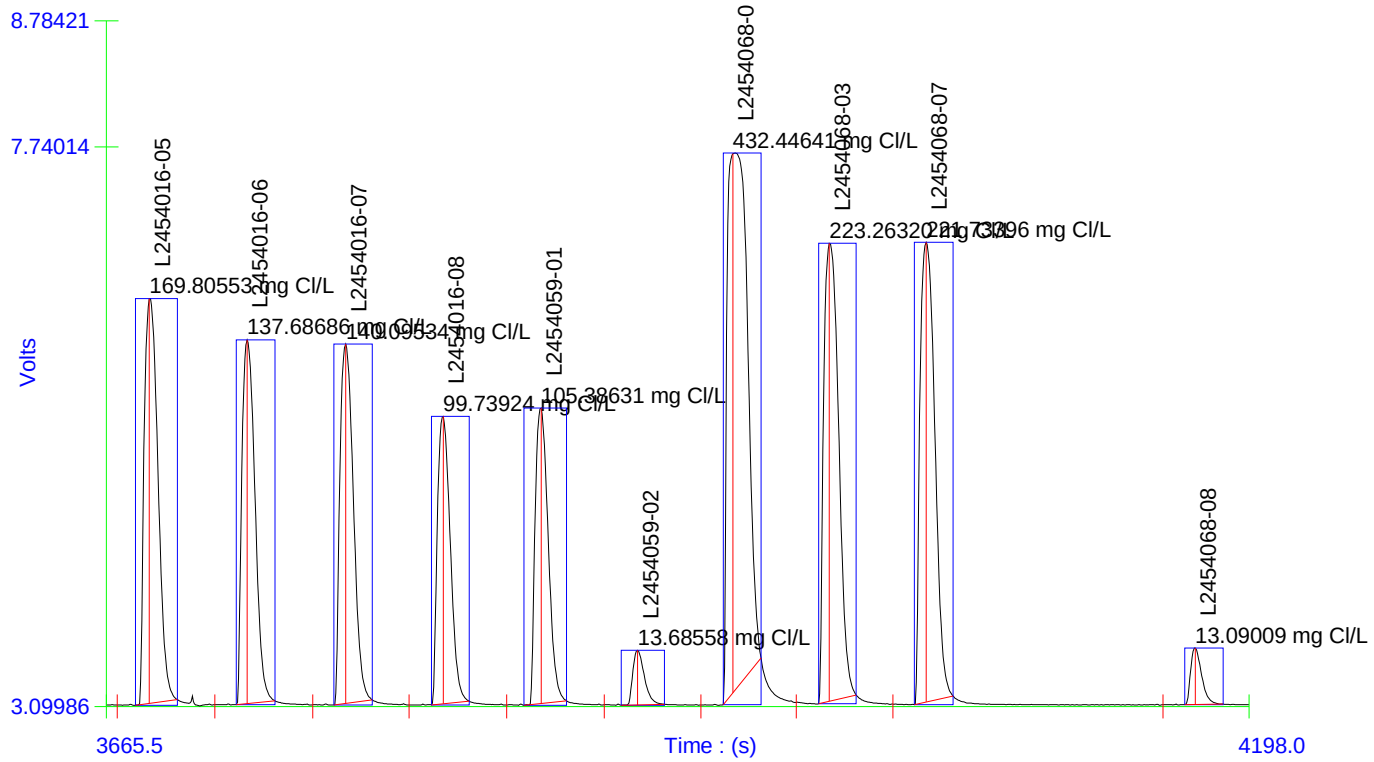


Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 7 / 9



Channel 1 (Chloride) - Set: 8 / 9



Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 9 / 9

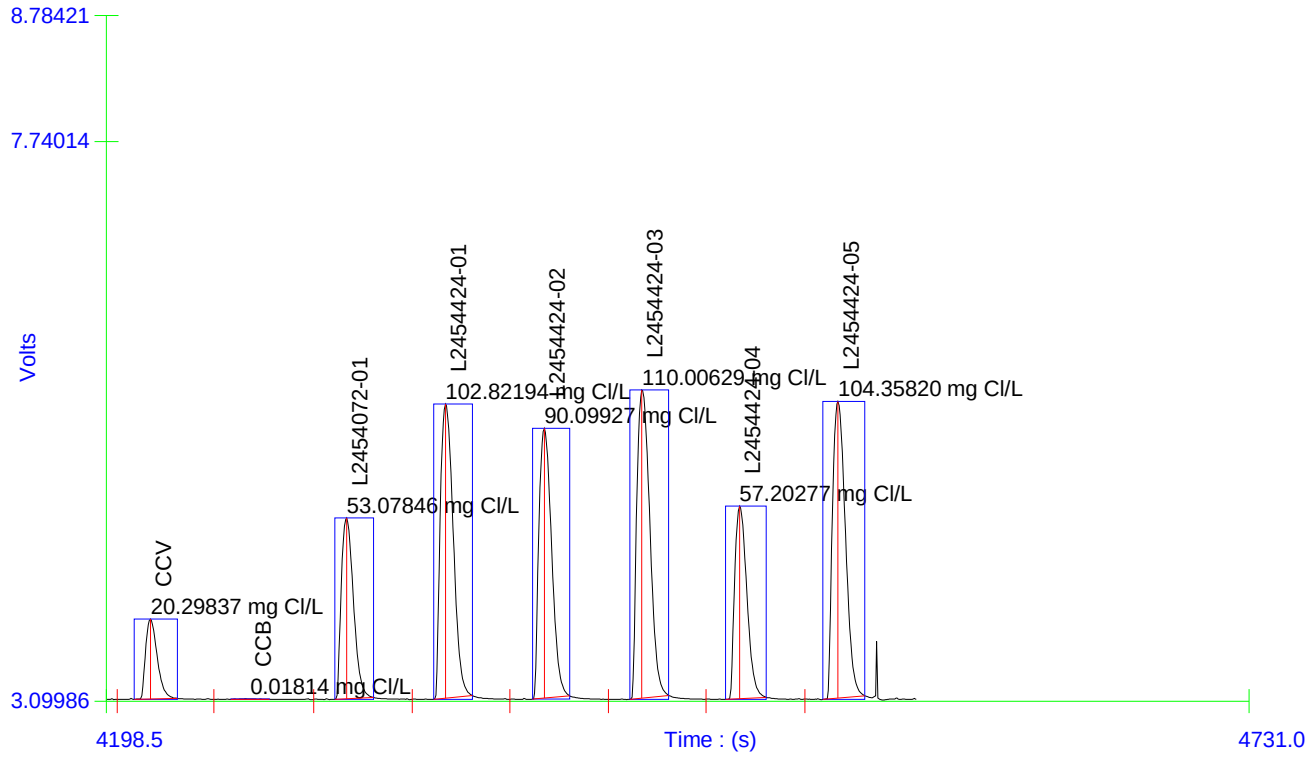
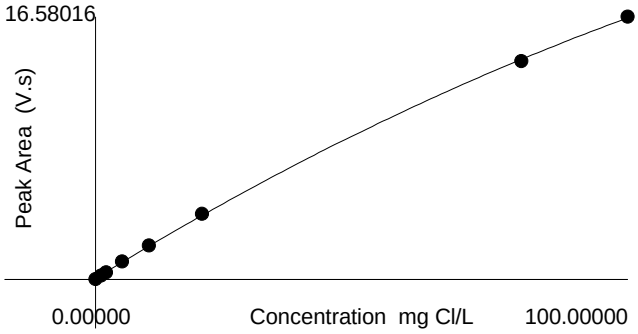


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	16.58016	2.41556	0.0	-0.5	100.19966	9/24/2024	2:20:12 PM
2	80.00000	1	13.76873	2.03125	0.0	0.9	79.68999	9/24/2024	2:20:57 PM
3	20.00000	1	4.13464	0.65944	0.0	-2.5	20.22814	9/24/2024	2:21:43 PM
4	10.00000	1	2.13002	0.34208	0.0	-1.7	9.96101	9/24/2024	2:22:29 PM
5	5.00000	1	1.13749	0.18284	0.0	-3.9	5.14596	9/24/2024	2:23:15 PM
6	2.00000	1	0.43608	0.06925	0.0	9.8	1.85041	9/24/2024	2:24:01 PM
7	1.00000	1	0.25041	0.03588	0.0	10.0	0.99294	9/24/2024	2:24:48 PM
8	0.00000	1	0.01878	0.00245			-0.06812	9/24/2024	2:25:33 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00042 * Conc^2 + 0.20656 * Conc + 0.07210
Conc = 0.09024 * Area^2 + 4.55642 * Area - 0.15370
Correlation Coefficient (r) = 0.99993

Weighting : None

Author: Date : 9/24/2024

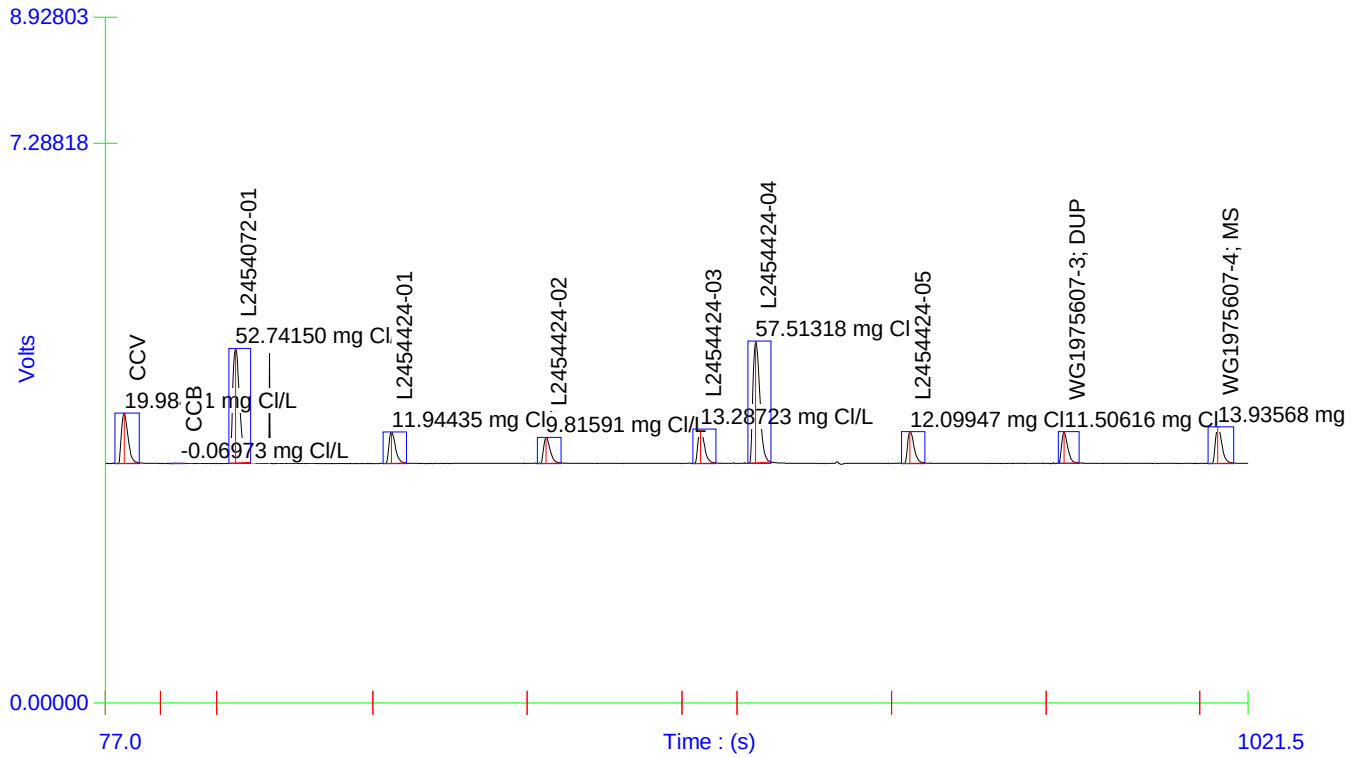
Original Run Filename: OM_9-24-2024_03-57-05PM.OMN Created: 9/24/2024 3:57:05 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-24-2024_03-57-05PM.OMN Last Modified: 9/24/2024 6:05:04 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	19.98401			
	Known Conc:		20.00000			
CCB	1	S9	-0.06973			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2454072-01	1	61	52.74150			
L2454424-01	1	62	119.44351	10.00		
L2454424-02	1	63	98.15907	10.00		
L2454424-03	1	64	132.87230	10.00		
L2454424-04	1	65	57.51318			
L2454424-05	1	66	120.99467	10.00		
WG1975607-3; DUP	1	67	115.06158	10.00		
WG1975607-4; MS	1	68	139.35683	10.00		
L2454424-06	1	69	104.55173			
L2453990-01	1	70	32.89902	10.00		
CCV	1	S3	19.64561			
	Known Conc:		20.00000			
CCB	1	S9	-0.00104			
	Known Conc:		0.00000			
L2453990-02	1	71	171.42340			
L2453990-03	1	72	131.36028			
L2453990-04	1	73	192.93999			
L2453990-05	1	74	118.73965			
L2453990-06	1	75	209.11836			
L2453990-07	1	76	21.27830			
L2453990-08	1	77	120.07278			
L2453990-09	1	78	171.67105			
L2454036-01	1	79	77.02557			
L2454036-02	1	80	96.83529	10.00		
CCV	1	S3	19.68765			
	Known Conc:		20.00000			
CCB	1	S9	0.04321			
	Known Conc:		0.00000			
L2454036-03	1	81	87.34564			
L2454036-04	1	82	109.64066			
L2454036-05	1	83	149.63013			
WG1975609-3; DUP	1	84	149.22029			
WG1975609-4; MS	1	85	158.48325			
L2454036-06	1	86	82.31231			
L2454036-07	1	87	81.84945			
L2454036-08	1	88	200.98877			
L2454036-09	1	89	0.42242			
L2454036-10	1	90	0.04780			
CCV	1	S3	19.91901			
	Known Conc:		20.00000			
CCB	1	S9	-0.01661			
	Known Conc:		0.00000			
L2454218-01	1	91	201.37024			
L2453698-01	1	22	2809.75562	10.00		
L2453658-07	1	20	2.13706			
L2453698-02	1	23	2501.56055	10.00		
L2453698-03	1	24	1758.18420	10.00		
L2453698-05	1	25	1031.28650	10.00		
L2453698-07	1	26	591.13251	10.00		
L2453698-08	1	27	558.07471	10.00		
WG1975603-3; DUP	1	30	24.98701			
L2453720-01	1	28	11.91589			
CCV	1	S3	19.95908			

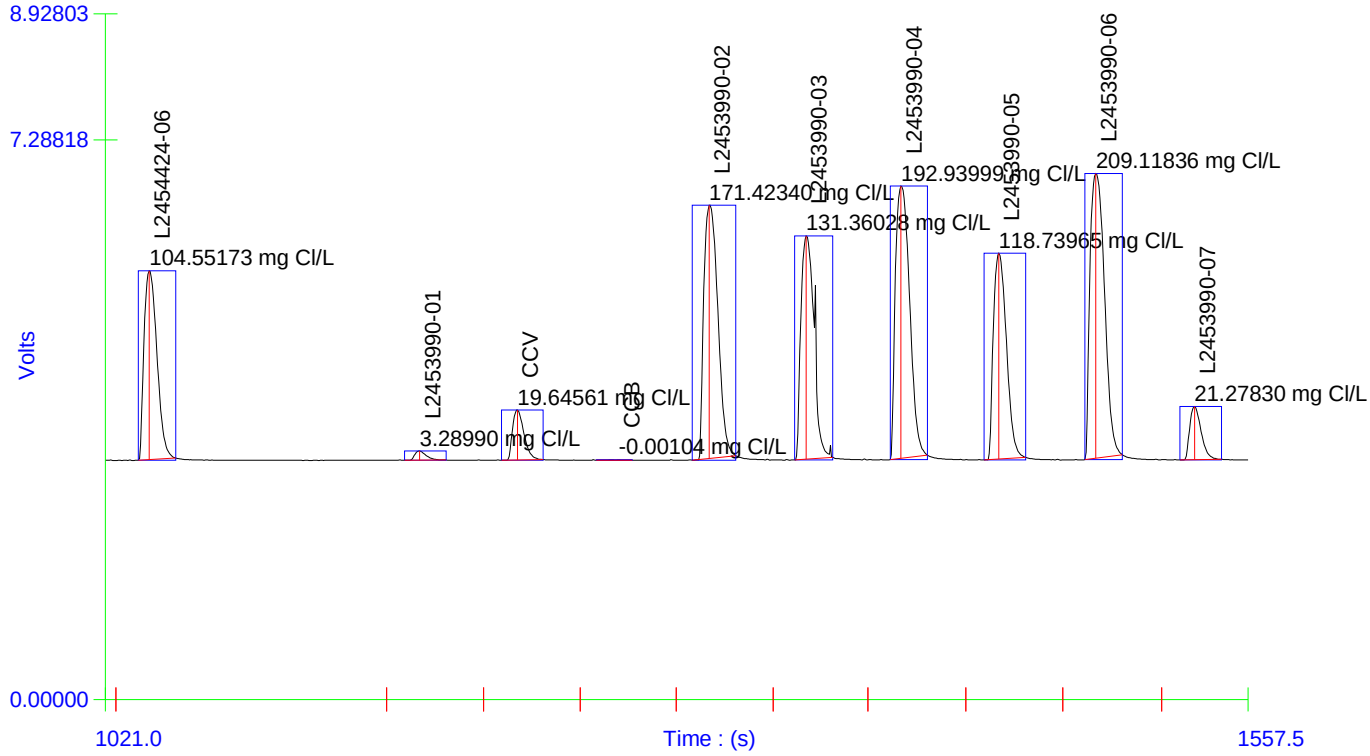
		Known Conc:	20.00000			
CCB	1	S9	-0.01175			
		Known Conc:	0.00000			
L2454016-05	1	51	261.14792	10.00		
L2454016-06	1	52	189.98489	10.00		
L2454016-07	1	53	184.18063	10.00		
L2454059-01	1	55	117.06990	10.00		
L2454016-08	1	54	111.59514	10.00		
L2454059-02	1	56	12.91704			
L2454068-01	1	57	1834.12476	10.00		
L2454068-03	1	58	391.53143	10.00		
L2454068-07	1	59	393.83075	10.00		
L2454424-06	1	69	104.37669			
CCV	1	S3	20.20771			
		Known Conc:	20.00000			
CCB	1	S9	0.01809			
		Known Conc:	0.00000			
L2453990-01	1	70	38.33253			
L2453990-02	1	71	260.57333	10.00		
L2453990-03	1	72	178.54370	10.00		
L2453990-04	1	73	315.70367	10.00		
L2453990-05	1	74	145.68407	10.00		
L2453990-06	1	75	363.24591	10.00		
L2453990-08	1	77	150.04947	10.00		
L2453990-09	1	78	268.16455	10.00		
L2453990-07	1	76	20.78004			
L2454036-01	1	79	76.02241			
CCV	1	S3	20.02481			
		Known Conc:	20.00000			
CCB	1	S9	0.00980			
		Known Conc:	0.00000			
L2454036-04	1	82	128.25919	10.00		
L2454036-05	1	83	203.91418	10.00		
WG1975609-3; DUP	1	84	210.60504	10.00		
WG1975609-4; MS	1	85	220.63545	10.00		
L2454036-08	1	88	333.35385	10.00		
L2454036-06	1	86	81.84834			
L2454218-01	1	91	320.68127	10.00		
L2453698-01	1	22	5847.03809	100.00		
L2453698-02	1	23	4614.41895	100.00		
L2453698-03	1	24	2466.55151	100.00		
CCV	1	S3	20.26883			
		Known Conc:	20.00000			
CCB	1	S9	-0.03126			
		Known Conc:	0.00000			
L2453698-05	1	25	1070.29858	100.00		
L2454059-02	1	56	13.34701			
L2454068-01	1	57	2663.49072	100.00		
L2454424-06	1	69	119.28201	10.00		
CCV	1	S3	19.78934			
		Known Conc:	20.00000			
CCB	1	S9	-0.01326			
		Known Conc:	0.00000			

Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 1 / 10



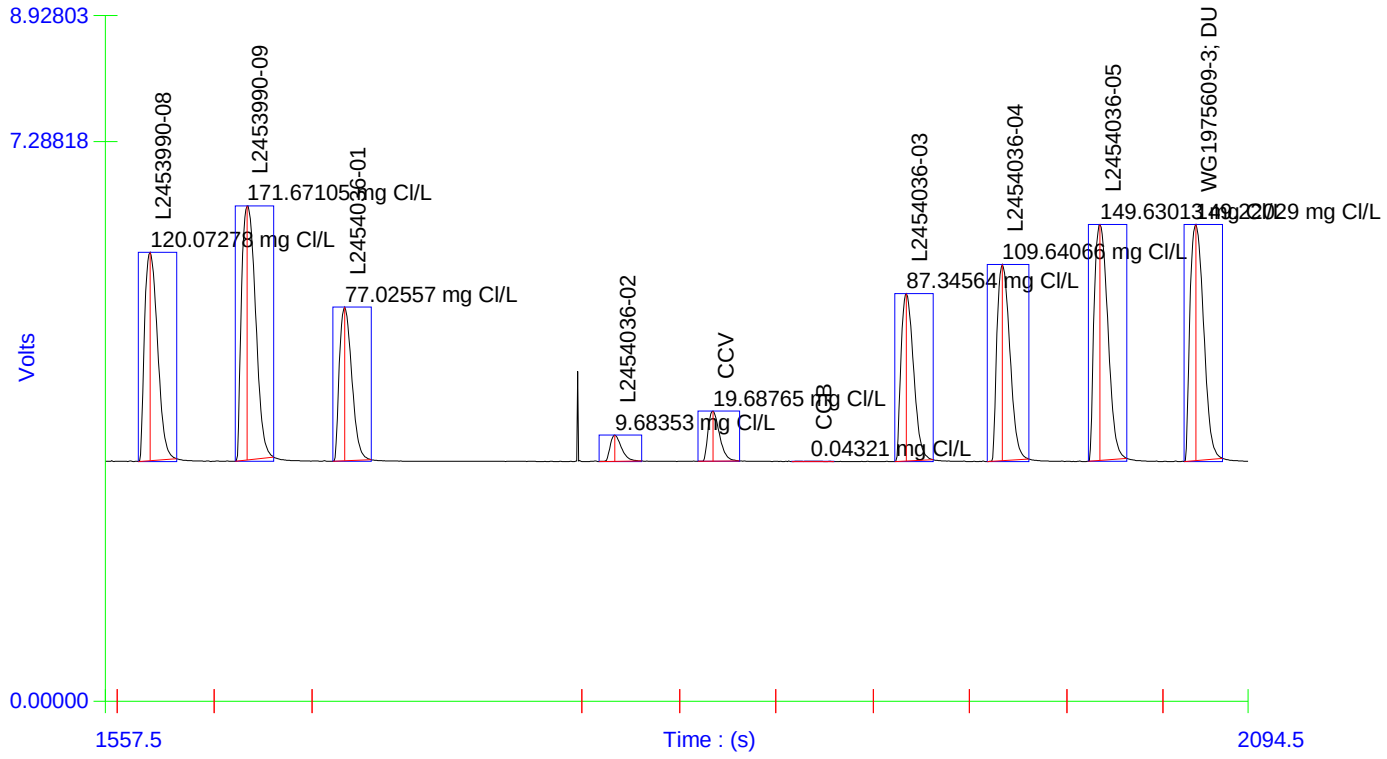
Channel 1 (Chloride) - Set: 2 / 10



Author:

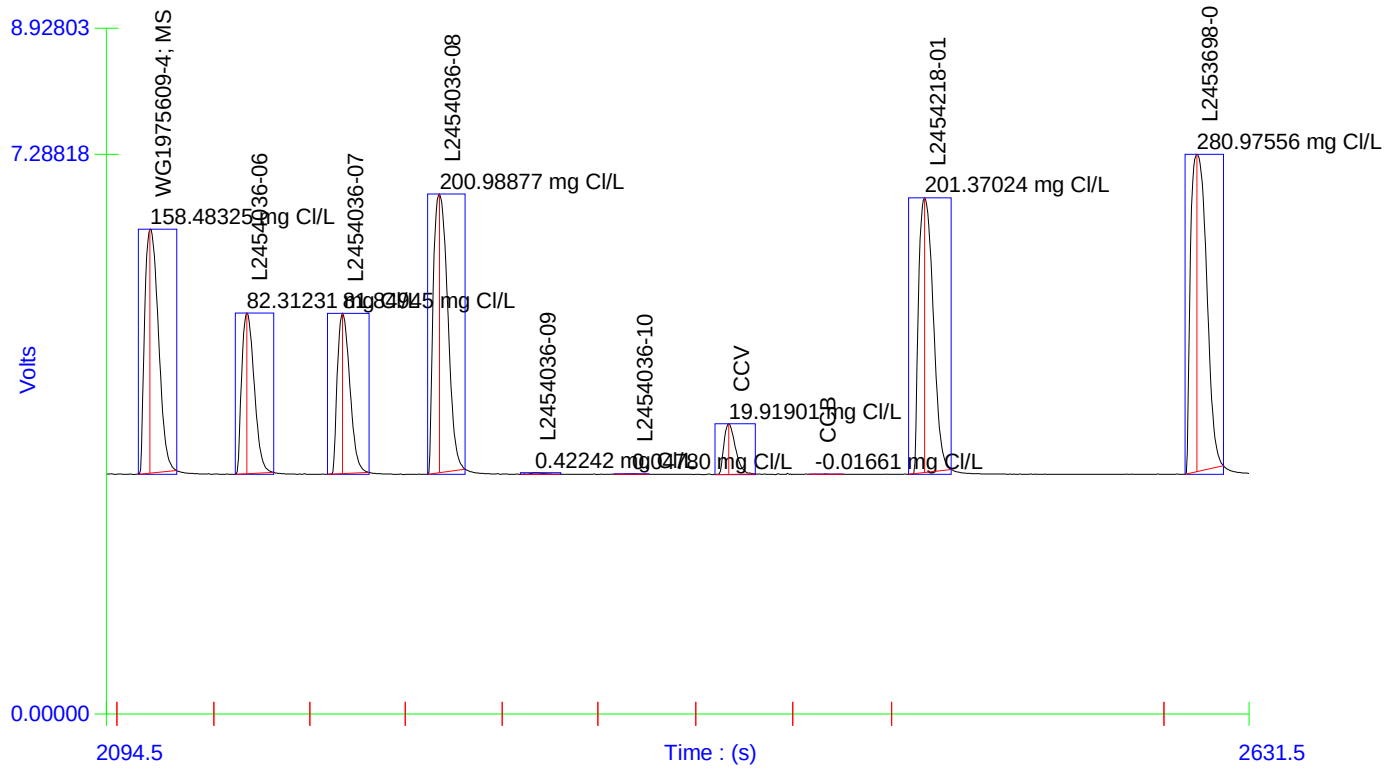
Date : 9/24/2024

Channel 1 (Chloride) - Set: 3 / 10

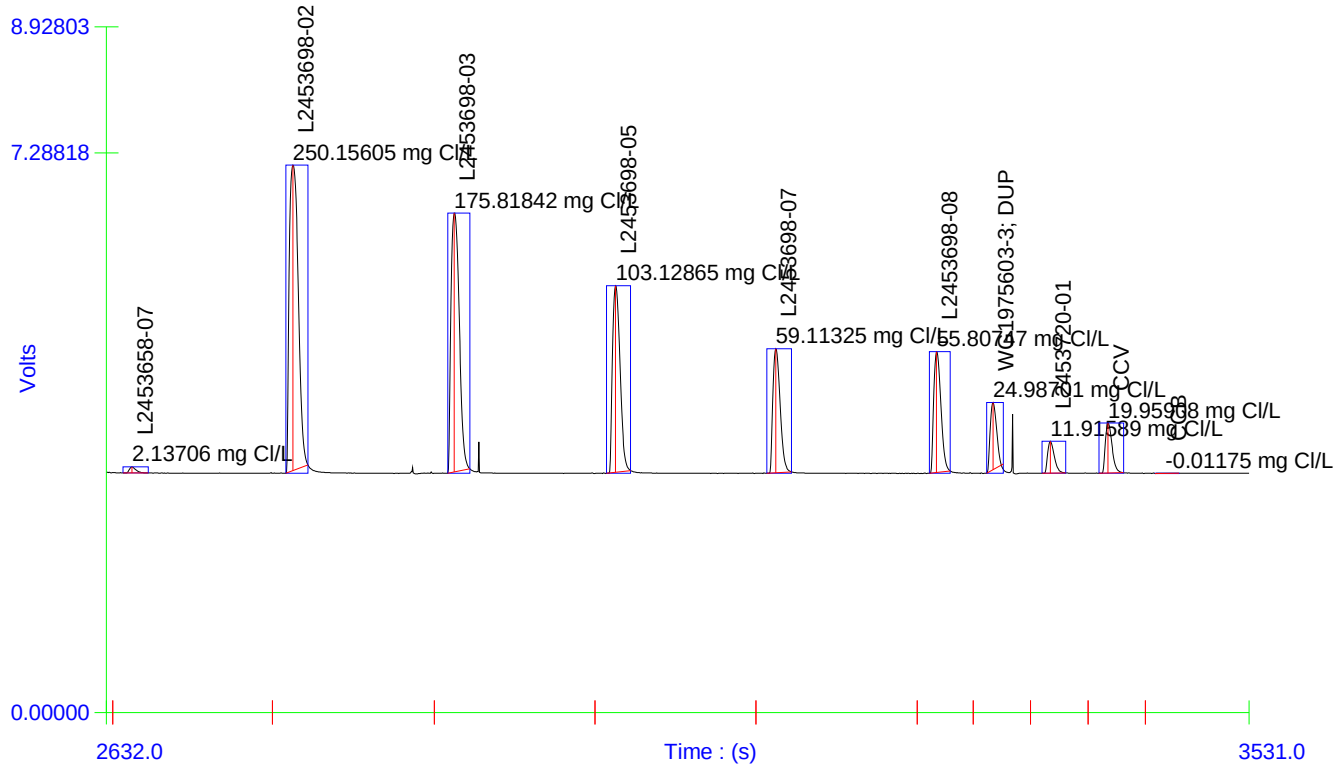


Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 4 / 10



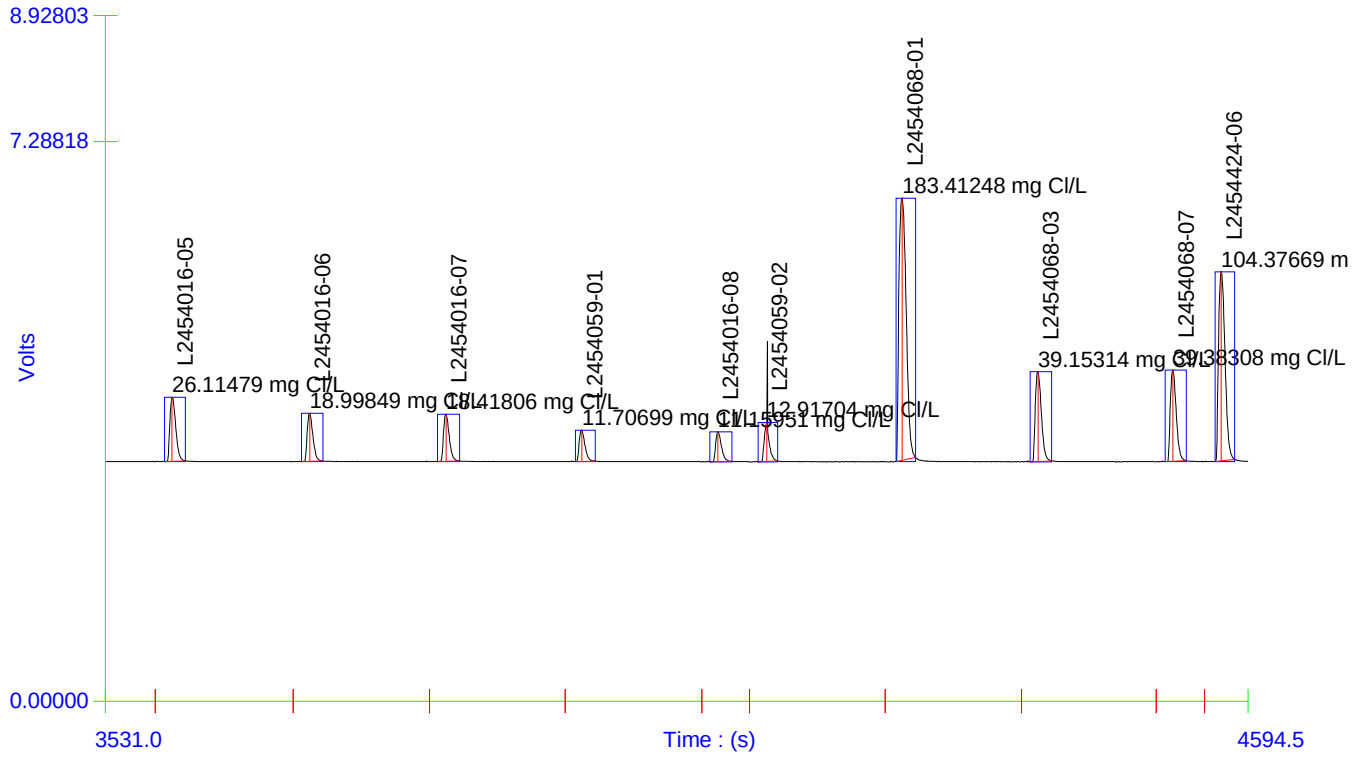
Channel 1 (Chloride) - Set: 5 / 10



Author:

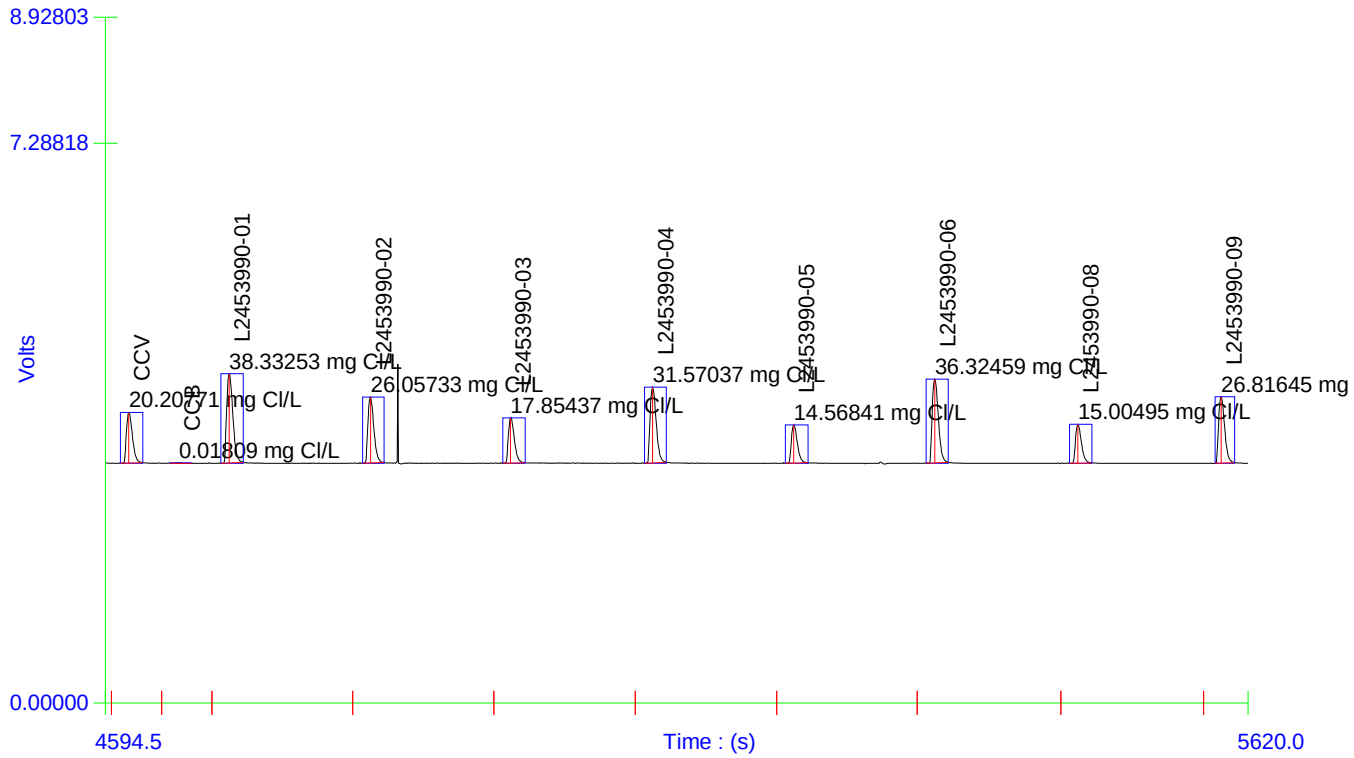
Date : 9/24/2024

Channel 1 (Chloride) - Set: 6 / 10

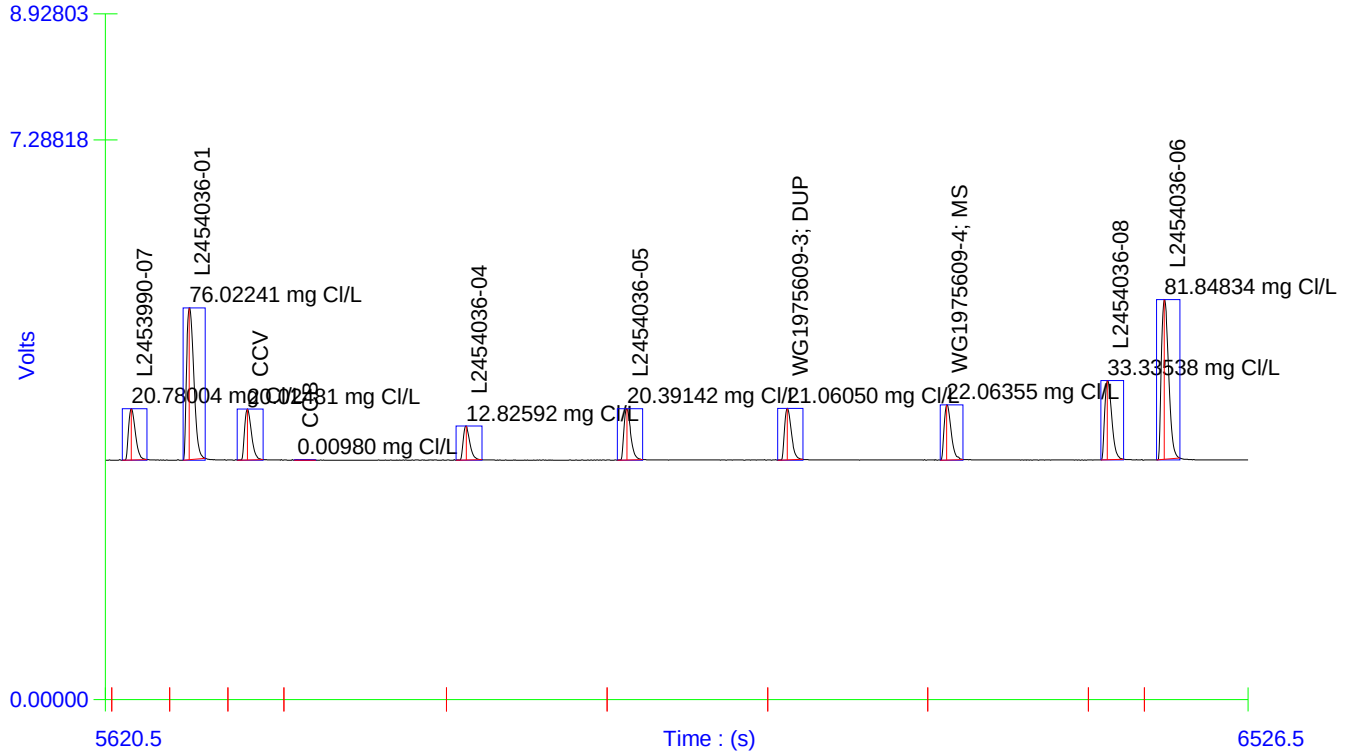


Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 7 / 10

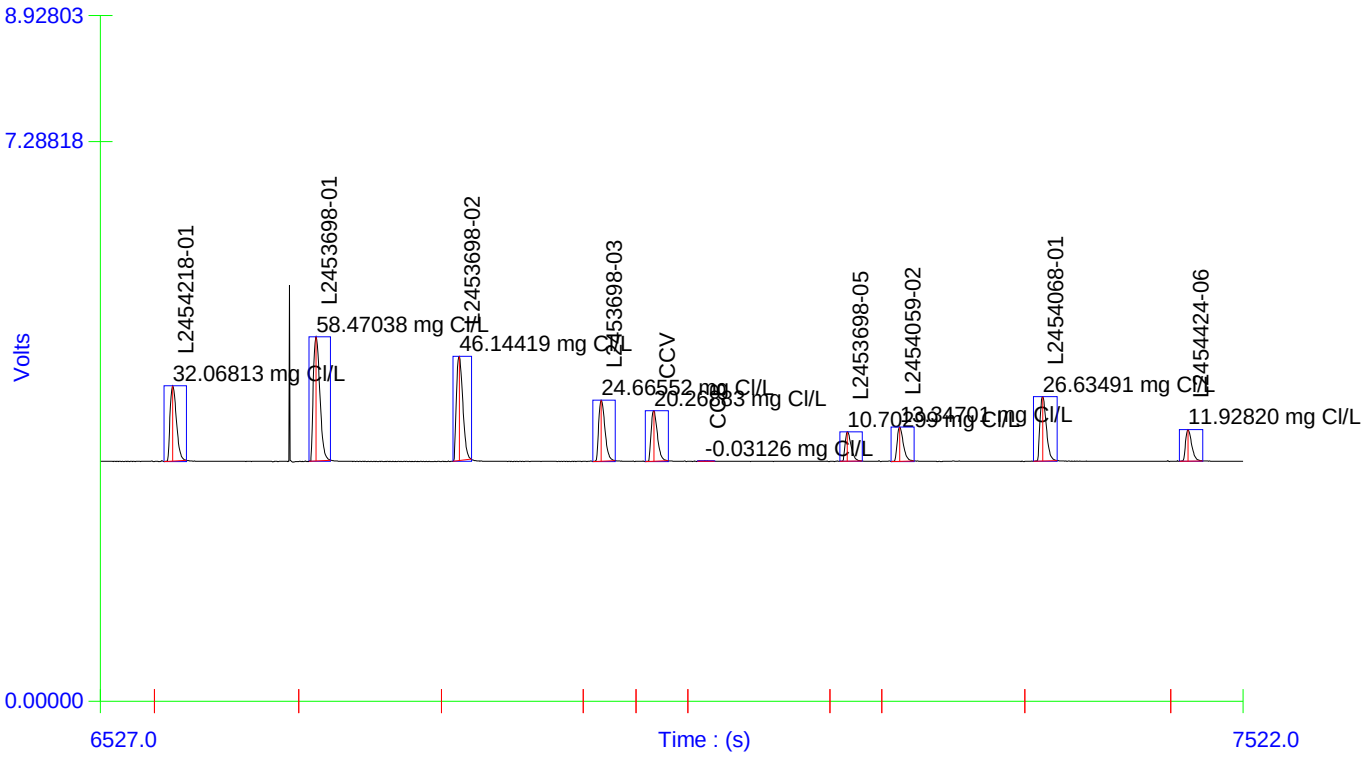


Channel 1 (Chloride) - Set: 8 / 10



Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 9 / 10



Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 10 / 10

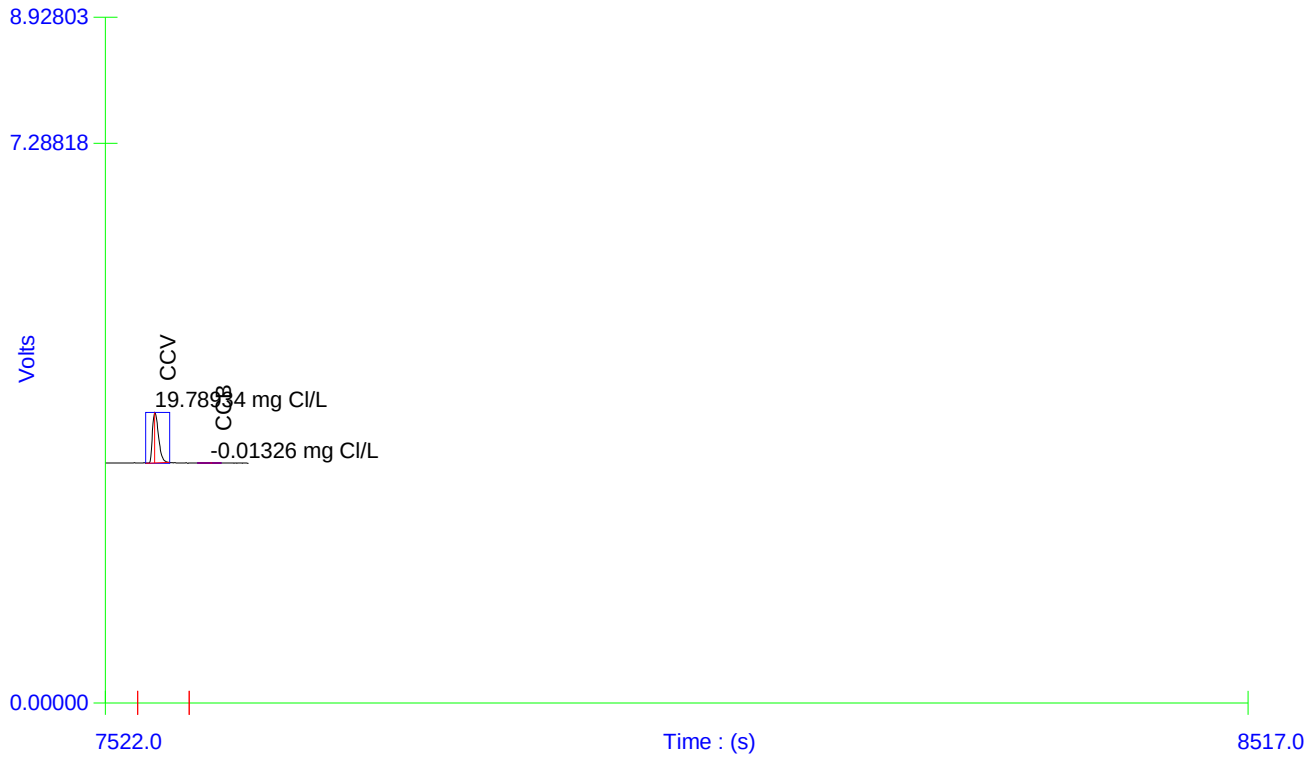
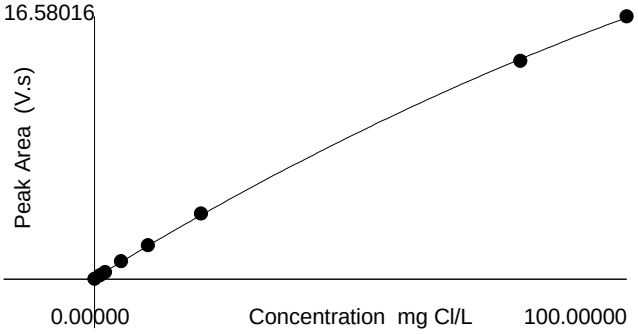


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	16.58016	2.41556	0.0	-0.5	100.19966	9/24/2024	2:20:12 PM
2	80.00000	1	13.76873	2.03125	0.0	0.9	79.68999	9/24/2024	2:20:57 PM
3	20.00000	1	4.13464	0.65944	0.0	-2.5	20.22814	9/24/2024	2:21:43 PM
4	10.00000	1	2.13002	0.34208	0.0	-1.7	9.96101	9/24/2024	2:22:29 PM
5	5.00000	1	1.13749	0.18284	0.0	-3.9	5.14596	9/24/2024	2:23:15 PM
6	2.00000	1	0.43608	0.06925	0.0	9.8	1.85041	9/24/2024	2:24:01 PM
7	1.00000	1	0.25041	0.03588	0.0	10.0	0.99294	9/24/2024	2:24:48 PM
8	0.00000	1	0.01878	0.00245			-0.06812	9/24/2024	2:25:33 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00042 * Conc^2 + 0.20656 * Conc + 0.07210
Conc = 0.09024 * Area^2 + 4.55642 * Area - 0.15370
Correlation Coefficient (r) = 0.99993

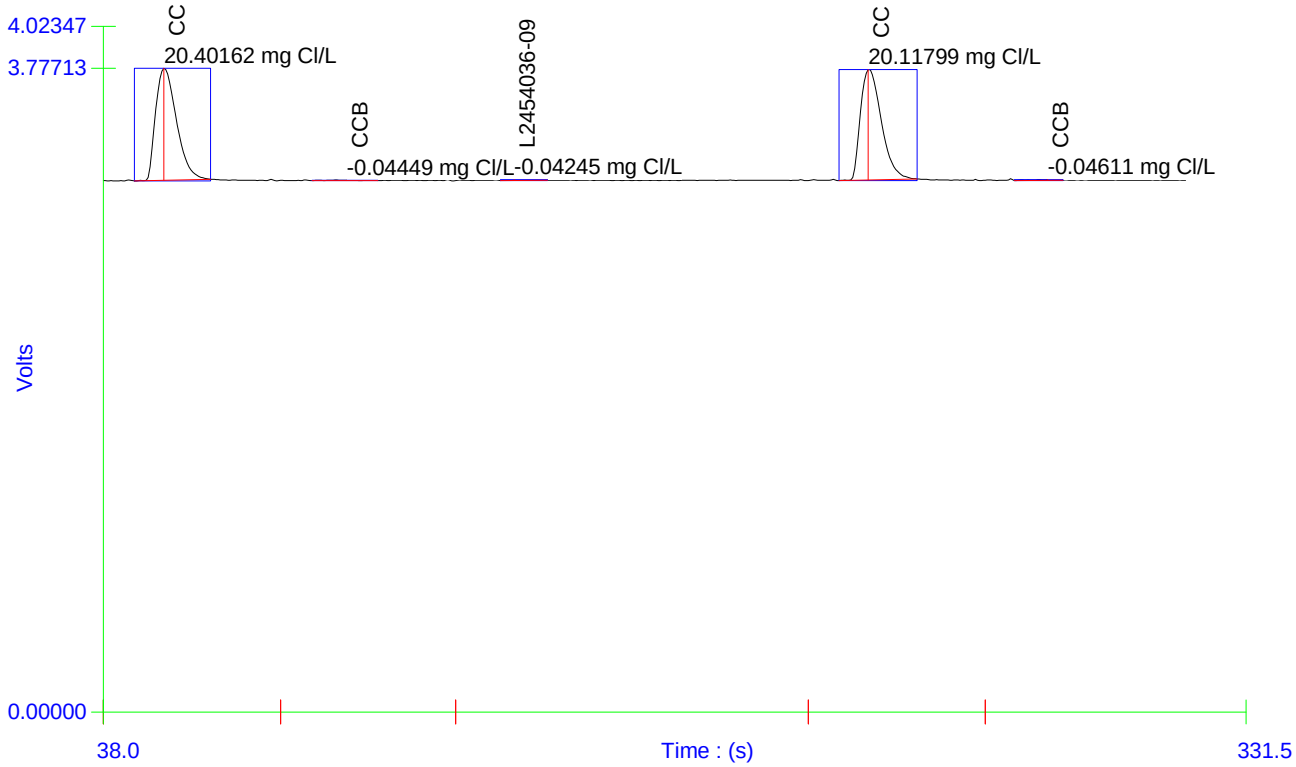
Weighting : None

Author: Date : 9/24/2024

Original Run Filename: OM_9-24-2024_06-10-49PM.OMN Created: 9/24/2024 6:10:49 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-24-2024_06-10-49PM.OMN Last Modified: 9/24/2024 6:16:08 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	20.40162			
	Known Conc:		20.00000			
CCB	1	S9	-0.04449			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2454036-09	1	89	-0.04245			
CCV	1	S3	20.11799			
	Known Conc:		20.00000			
CCB	1	S9	-0.04611			
	Known Conc:		0.00000			

Channel 1 (Chloride) - Set: 1 / 1

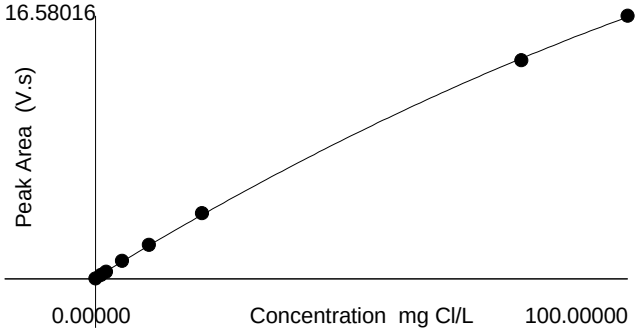


Author: Date : 9/24/2024

Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	16.58016	2.41556	0.0	-0.5	100.19966	9/24/2024	2:20:12 PM
2	80.00000	1	13.76873	2.03125	0.0	0.9	79.68999	9/24/2024	2:20:57 PM
3	20.00000	1	4.13464	0.65944	0.0	-2.5	20.22814	9/24/2024	2:21:43 PM
4	10.00000	1	2.13002	0.34208	0.0	-1.7	9.96101	9/24/2024	2:22:29 PM
5	5.00000	1	1.13749	0.18284	0.0	-3.9	5.14596	9/24/2024	2:23:15 PM
6	2.00000	1	0.43608	0.06925	0.0	9.8	1.85041	9/24/2024	2:24:01 PM
7	1.00000	1	0.25041	0.03588	0.0	10.0	0.99294	9/24/2024	2:24:48 PM
8	0.00000	1	0.01878	0.00245			-0.06812	9/24/2024	2:25:33 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00042 * Conc^2 + 0.20656 * Conc + 0.07210
Conc = 0.09024 * Area^2 + 4.55642 * Area - 0.15370
Correlation Coefficient (r) = 0.99993

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453890-01		
Matrix Spike	: WG1975605-4	**MS Analysis Date**	: 09/24/24 15:07
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chloride	84.	20	100	80					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 15:04
Dup Sample ID	: WG1975605-3	**DUP Analysis Date**	: 09/24/24 15:05

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	84	81.	4	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975605-2	**LCS Analysis Date**	: 09/24/24 14:35
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	**30.0**	**30.0**	**100.**					**90-110**	**7**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

1 ICVS
2 30
3 80
4 ICB
5 100pgm 10X
6 WH19T5603-1 BLK
7 -2 LCS
8 WH19T5605-1 BLK
9 -2 LCS
10 WH19T5607-1 BLK
11 -2 LCS
12 WH19T5609-1 BLK
13 -2 LCS
14 53611-01
15 -02
16 53658-03
17 -04
18 -05
19 -06
20 -07
21 -08
22 53698-01
23 -02
24 -03
25 -05
26 -07
27 -08
28 53720-01
29 -02
30 WH19T5603-3 QNP
31 -4 MS
32 53720-03
33 -04 EB
34 -06
35 -07
36 -08
37 -09
38 53890-01
39 WH19T5605-3 QNP
40 -4 MS
41 53893-01
42 53894-01
43 53900-01
44 53908-01
45 53913-01
46 53934-01
47 54016-01
48 -02
49 -03
50 -04
51 -05
52 -06
53 -07
54 -08
55 54059-01
56 -02
57 54068-01
58 -03
59 -07
60 -08
61 54072-01
62 54124-01
63 -02
64 -03
65 -04
66 -05
67 WH19T5607-3 QNP
68 -4 MS
69 54124-06
70 53990-01
71 -02
72 -03
73 -04
74 -05
75 -06
76 53990-07
77 -08
78 -09
79 54036-01
80 -02
81 -03
82 -04
83 -05
84 WH19T5609-30
85 -4 M
86 54036-06
87 -07
88 -08
89 -09 FB
90 -10 FB
91 54218-01

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.02	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2454059
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2454059-02	**Date Collected**	:	09/19/24 09:30
Client ID	:	MW-4D2	**Date Received**	:	09/19/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 07:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG1975298.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975298-1	**Date Collected**	: NA
Client ID	: WG1975298-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975298-3	**Date Collected**	: 09/18/24 09:05
Client ID	: WG1975298-3 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.02	J

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Analysis: FLUORIDE
Method: EPA 340.2
LCS Concentration (mg/l): 2
Spike Concentration (mg/l): 1

Product: F-340
Analysis Analyte: Fluoride,
Analysis Date: 9/24/2024 7:03
Technician: DTH
Work group: WG1975298
RL: 0.20 mg/L
Distillation Date: 9/24/2024 2:35

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	124.8	-0.705	0.1971	99	-58.9447708	83.225
0.5	-0.301	100.5	-0.293	0.5092	102		
1.0	0.000	83.2	0.000	1.0010	100	Correlation	Coefficient
10	1.000	24.4	0.998	9.953	100	0.99996608	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	0.978	1.00	0.98	49%
SAMP	L2453720-01	50	50		YES	1.00	0.0373	1.00	0.04	
SAMP	L2453720-02	50	50		YES	1.00	0.0273	1.00	0.03	
SAMP	L2453720-03	50	50		YES	1.00	0.0379	1.00	0.04	
SAMP	L2453720-04	50	50		YES	1.00	0.00881	1.00	0.01	
SAMP	L2453720-06	50	50		YES	1.00	0.0306	1.00	0.03	
SAMP	L2453720-07	50	50		YES	1.00	0.0231	1.00	0.02	
SAMP	L2453720-08	50	50		YES	1.00	0.0174	1.00	0.02	
SAMP	L2453720-09	50	50		YES	1.00	0.0276	1.00	0.03	
	L2453810-01	50	50		YES	1.00	0.179	1.00	0.18	
SAMP	L2453858-01	10	50		YES	5.00	0.0558	5.00	0.28	
SAMP	L2453858-02	10	50		YES	5.00	0.0197	5.00	0.10	
SAMP	L2453858-03	10	50		YES	5.00	0.0189	5.00	0.09	
SAMP	L2453858-04	10	50		YES	5.00	0.0191	5.00	0.10	
SAMP	L2454059-01	50	50		YES	1.00	0.0219	1.00	0.02	
SAMP	L2454059-02	50	50		YES	1.00	0.0388	1.00	0.04	
	CCV	50	50		YES	1.00	0.961	1.00	0.96	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.966	1.00	0.97	
	CCB	50	50		YES	1.00	0	1.00	0.00	
						1.00		1.00		
BLANK	WG1975298-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG1975298-3	50	50		YES	1.00	0.0281	1.00	0.03	L2453720-02

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1975298-4	50	50		YES	.03	0.974	1	0.97	94
LCS	WG1975298-2	50	50		YES		1.79	2	1.79	90

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975298-4	**MS Analysis Date**	: 09/24/24 07:03
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.03J	1	0.97	97					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 07:03
Dup Sample ID	: WG1975298-3	**DUP Analysis Date**	: 09/24/24 07:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.03J	0.03J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975298-2	**LCS Analysis Date**	: 09/24/24 07:03
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Fluoride	**2.00**	**1.80**	**90.**					**78-120**	**13**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

WG1975298

STD	MV
0.0	124.8
0.5	100.5
1.0	83.2
10.0	24.4

Analyst: DTH
Date & Time: 7/24/24 7:03
ICV:F 082224
LCS:F 082224
Spike:F 071524
Curve:WC- 3253
TISAB III: R- 4215

Sample	Volume	Final Volume	Meter
ICV	50mL	50mL	0.978
ICB			0.0
Blank			0.0
LCS			1.79
53720-01			0.0373
-02			0.0273
Dup 02			0.0281
-MS 02			0.974
-03			0.0379
-04			0.00681
-06			0.0306
-07			0.0231
CCV			0.961
CCB			0.00
-08			0.0174
-09			0.0276
53810-01			0.179
53858-01	5X (10mL→50mL)		0.0558
-02			0.0197
-03			0.0189
-04			0.0191
54059-01	50mL		0.0719
-02			0.0388
CCV			0.966
CCB			0.00

To Page No. ____

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Tube	Sample	Volume	Final Volume	Block	Comments
1	Blank	50mL	50mL	Phenol #2	DIH 9/29/24 2:35
2	LCS				1.0mL F071524-100ppm
3	53700-01				
4	-02				
5	Dupor				
6	MS02				0.5mL F071524-100ppm
7	03				
8	04				
9	06				
10	07			Phenol #3	
11	08				
12	09				
13	53810-01				
14	53858-01	5x (10mL→50mL)			Dilution due too Limited Volume!
15	-02				
16	-03				
17	-04				
18	54059-01	50mL			
19	-02				

To Page No. ____

nessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.022	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.058	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974827-1	**Date Collected**	: NA
Client ID	: WG1974827-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 14:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974827-3	**Date Collected**	: 09/18/24 09:05
Client ID	: WG1974827-3 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/23/24 14:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.025	0.031	0.012	J

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	MFlaherty
Date & Time:	23-Sep-2024 14:57:38
Tray Number:	1
Tray Name:	WG1974827

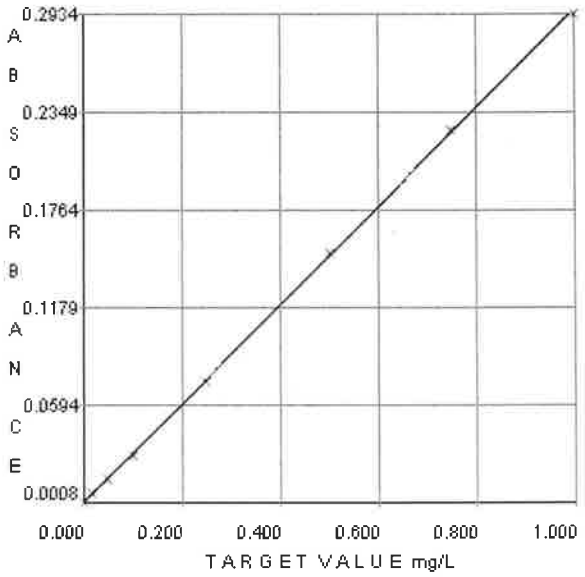
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0008	0.002	0.000	
S90	0.0060	0.019	0.020	-5.46
S91	0.0146	0.048	0.050	-3.57
S92	0.0291	0.097	0.100	-2.75
S93	0.0735	0.247	0.250	-1.08
S94	0.1504	0.508	0.500	1.53
S95	0.2243	0.757	0.750	1.00
S96	0.2934	0.992	1.000	-0.84
S0	0.0010	0.002	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.1
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-1.303674E-003
b =:	3.383715E+000
Date & Time:	23-Sep-2024 14:05:39

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	092024-tp color	Maeve Flaherty	11-Oct-2024 22:00:00
TP ascorbic	091824-aa	Maeve Flaherty	25-Sep-2024 22:00:00

Test Results

Cup	Type	ID	Details	Result	Units	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1		0.001				MEF	23-Sep-2024 13:56:39
	S90	STANDARD 90		0.006				MEF	23-Sep-2024 13:57:46
	S91	STANDARD 91		0.015				MEF	23-Sep-2024 13:58:52
	S92	STANDARD 92		0.029				MEF	23-Sep-2024 13:59:59
	S93	STANDARD 93		0.073				MEF	23-Sep-2024 14:01:06
	S94	STANDARD 94		0.150				MEF	23-Sep-2024 14:02:13
	S95	STANDARD 95		0.224				MEF	23-Sep-2024 14:03:20
	S96	STANDARD 96		0.293				MEF	23-Sep-2024 14:04:30
	S0	STANDARD 0		0.001				MEF	23-Sep-2024 14:05:39
2	ICV	ICV	23-SEP-2024 13:13	0.482	mg/L			MEF	23-Sep-2024 14:06:46
3	ICB	ICB	23-SEP-2024 13:13	0.002	mg/L			MEF	23-Sep-2024 14:07:53
4	U1	WG1974827-1O	23-SEP-2024 13:13	0.001ELL	mg/L			MEF	23-Sep-2024 14:09:01
5	U2	WG1974827-2O	23-SEP-2024 13:13	0.473	mg/L			MEF	23-Sep-2024 14:10:08

6	U3	L2453489-05O	23-SEP-2024 13:13	0.497	mg/L		MEF	23-Sep-2024 14:11:16
7	U4	L2453489-07O	23-SEP-2024 13:13	0.074	mg/L		MEF	23-Sep-2024 14:12:24
8	U5	L2453489-08O	23-SEP-2024 13:13	1.145	mg/L	x5.0000	MEF	23-Sep-2024 14:53:48
9	U6	L2453499-01O	23-SEP-2024 13:13	0.018	mg/L		MEF	23-Sep-2024 14:14:39
10	U7	L2453499-02O	23-SEP-2024 13:13	0.020	mg/L		MEF	23-Sep-2024 14:15:46
	CCV	C C V		0.465	mg/L		MEF	23-Sep-2024 14:16:54
	CCB	C C B		0.000	mg/L		MEF	23-Sep-2024 14:18:03
11	U8	L2453499-03O	23-SEP-2024 13:13	0.023	mg/L		MEF	23-Sep-2024 14:19:12
12	U9	L2453500-01O	23-SEP-2024 13:13	0.020	mg/L		MEF	23-Sep-2024 14:20:19
13	U10	L2453500-02O	23-SEP-2024 13:13	0.023	mg/L		MEF	23-Sep-2024 14:21:27
14	U11	L2453500-03O	23-SEP-2024 13:13	0.045	mg/L		MEF	23-Sep-2024 14:22:34
15	U12	L2453720-01O	23-SEP-2024 13:13	0.017	mg/L		MEF	23-Sep-2024 14:23:42
16	U13	L2453720-02O	23-SEP-2024 13:13	0.007	mg/L		MEF	23-Sep-2024 14:24:49
17	U14	WG1974827-3O	23-SEP-2024 13:13	0.008	mg/L		MEF	23-Sep-2024 14:25:56
18	U15	WG1974827-4O	23-SEP-2024 13:13	0.519	mg/L		MEF	23-Sep-2024 14:27:05
19	U16	L2453720-03O	23-SEP-2024 13:13	0.017	mg/L		MEF	23-Sep-2024 14:28:14
20	U17	L2453720-04O	23-SEP-2024 13:13	0.002	mg/L		MEF	23-Sep-2024 14:29:08
	CCV	C C V		0.479	mg/L		MEF	23-Sep-2024 14:30:10
	CCB	C C B		0.001	mg/L		MEF	23-Sep-2024 14:31:04
21	U18	L2453720-06O	23-SEP-2024 13:13	0.012	mg/L		MEF	23-Sep-2024 14:31:58
22	U19	L2453720-07O	23-SEP-2024 13:13	0.010	mg/L		MEF	23-Sep-2024 14:32:51
23	U20	L2453720-08O	23-SEP-2024 13:13	0.008	mg/L		MEF	23-Sep-2024 14:33:45
24	U21	L2453720-09O	23-SEP-2024 13:13	0.005	mg/L		MEF	23-Sep-2024 14:34:38
25	U22	L2454059-01O	23-SEP-2024 13:13	0.007	mg/L		MEF	23-Sep-2024 14:35:31
26	U23	L2454059-02O	23-SEP-2024 13:13	0.019	mg/L		MEF	23-Sep-2024 14:36:25
	CCV	C C V		0.473	mg/L		MEF	23-Sep-2024 14:37:18
	CCB	C C B		0.001	mg/L		MEF	23-Sep-2024 14:38:12
	CCV	CCV		0.472	mg/L			23-Sep-2024 14:51:58
	CCB	CCB		0.002	mg/L			23-Sep-2024 14:52:53
	CCV	CCV		0.483	mg/L			23-Sep-2024 14:54:42
	CCB	CCB		0.001	mg/L			23-Sep-2024 14:55:37

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1974827-4	**MS Analysis Date**	: 09/23/24 14:27
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	0.022J	1.53	1.59	104					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/23/24 14:24
Dup Sample ID	: WG1974827-3	**DUP Analysis Date**	: 09/23/24 14:25

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.022J	0.025J	NC	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974827-2	**LCS Analysis Date**	: 09/23/24 14:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Phosphate, Total	1.53	1.45	95.					84-118	15

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

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

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

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

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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

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

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Created By: Jason Hebert
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-01	**Date Collected**	: 09/19/24 10:25
Client ID	: MW-4S	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 17:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974654	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.045	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454059-02	**Date Collected**	: 09/19/24 09:30
Client ID	: MW-4D2	**Date Received**	: 09/19/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974654	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.051	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974654-1	**Date Collected**	: NA
Client ID	: WG1974654-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/21/24 09:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974654	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974654-4	**Date Collected**	: 09/18/24 11:20
Client ID	: WG1974654-4 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/21/24 17:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974654	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

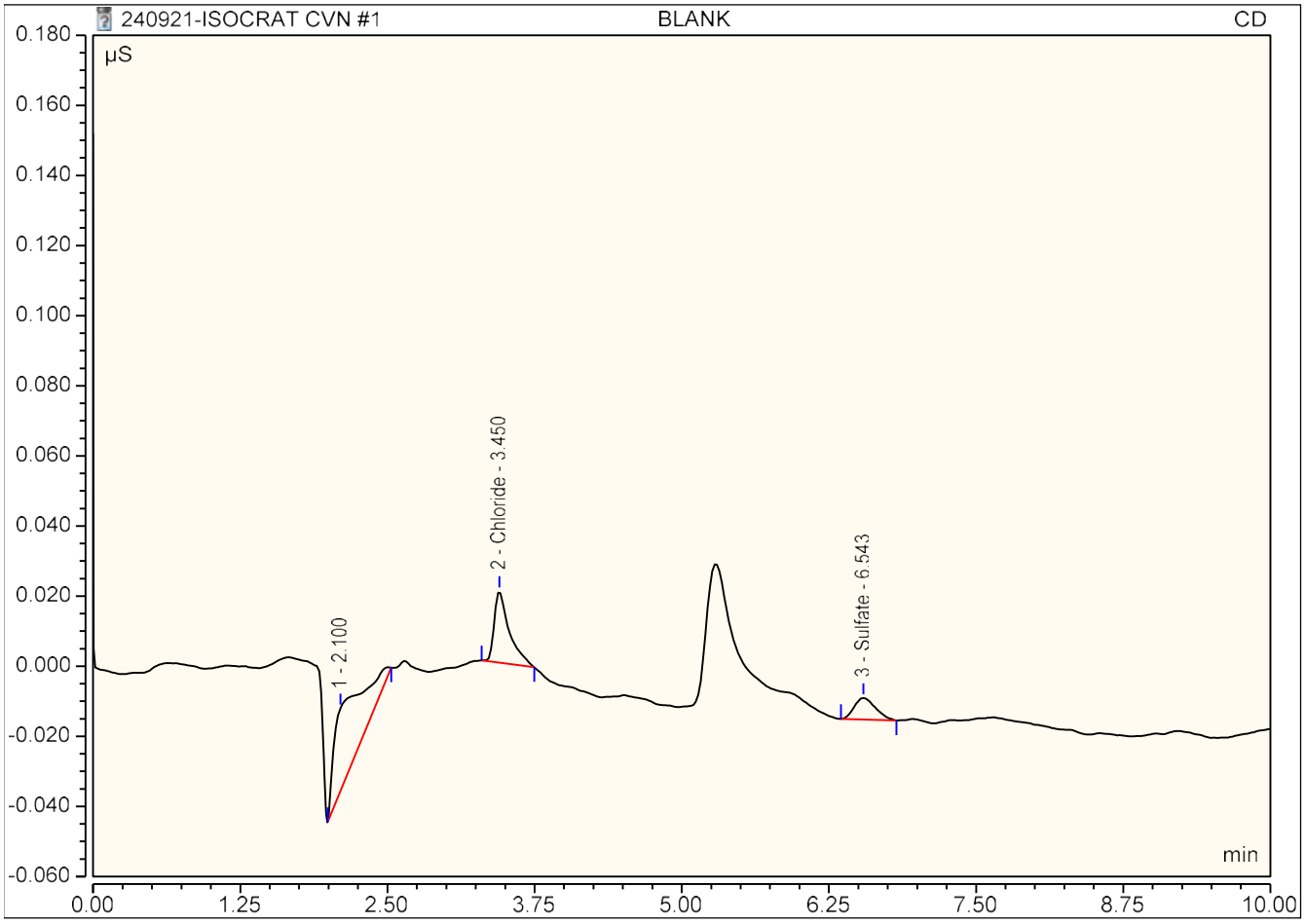
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.123	0.050	0.013	

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:08**	*Run Time:*	**10.00**

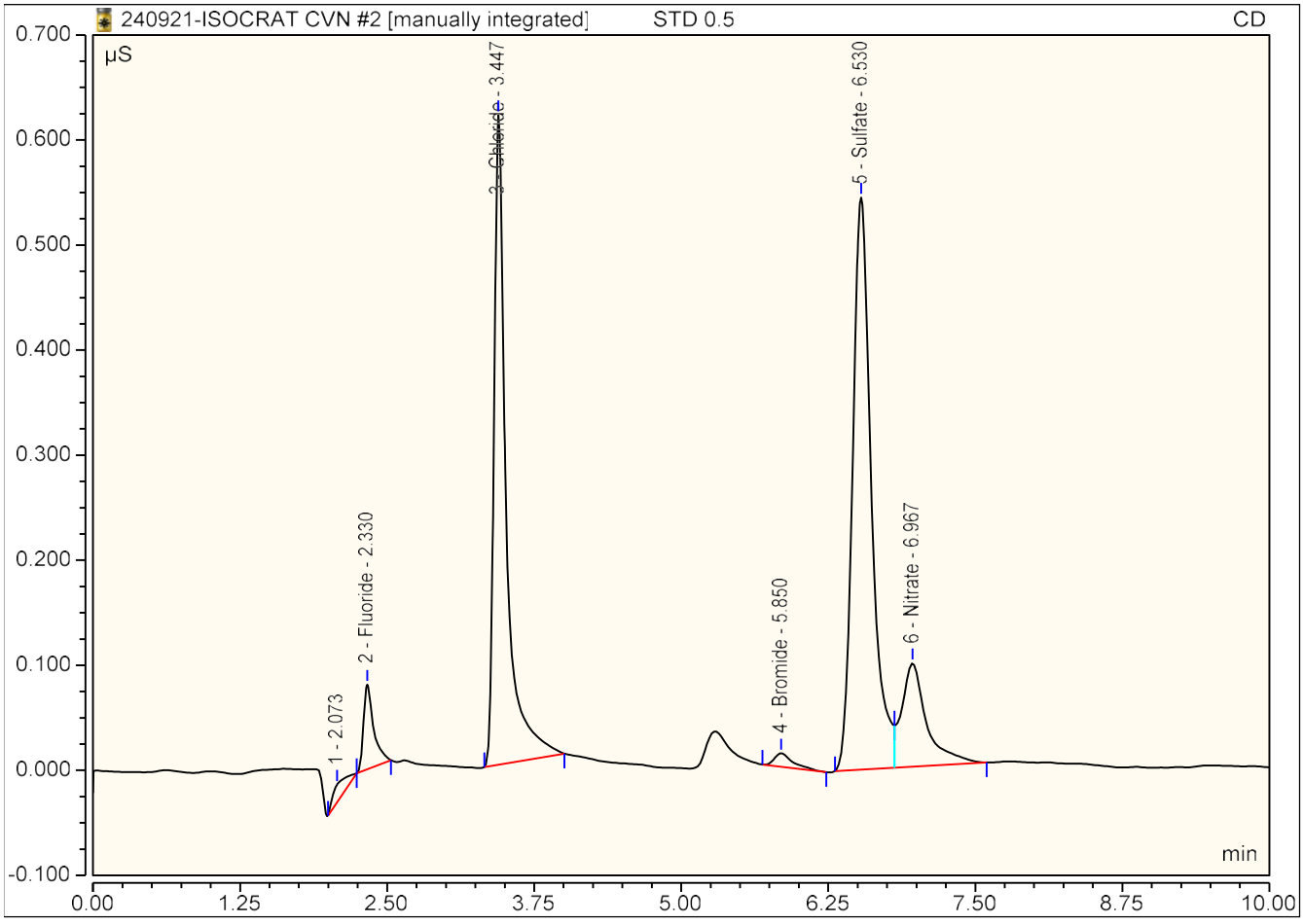
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB	0.003	0.020	0.2129
3	6.54	**Sulfate**	BMB	0.001	0.006	0.2810
TOTAL:				0.00	0.03	0.49



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:20**	*Run Time:*	**10.00**

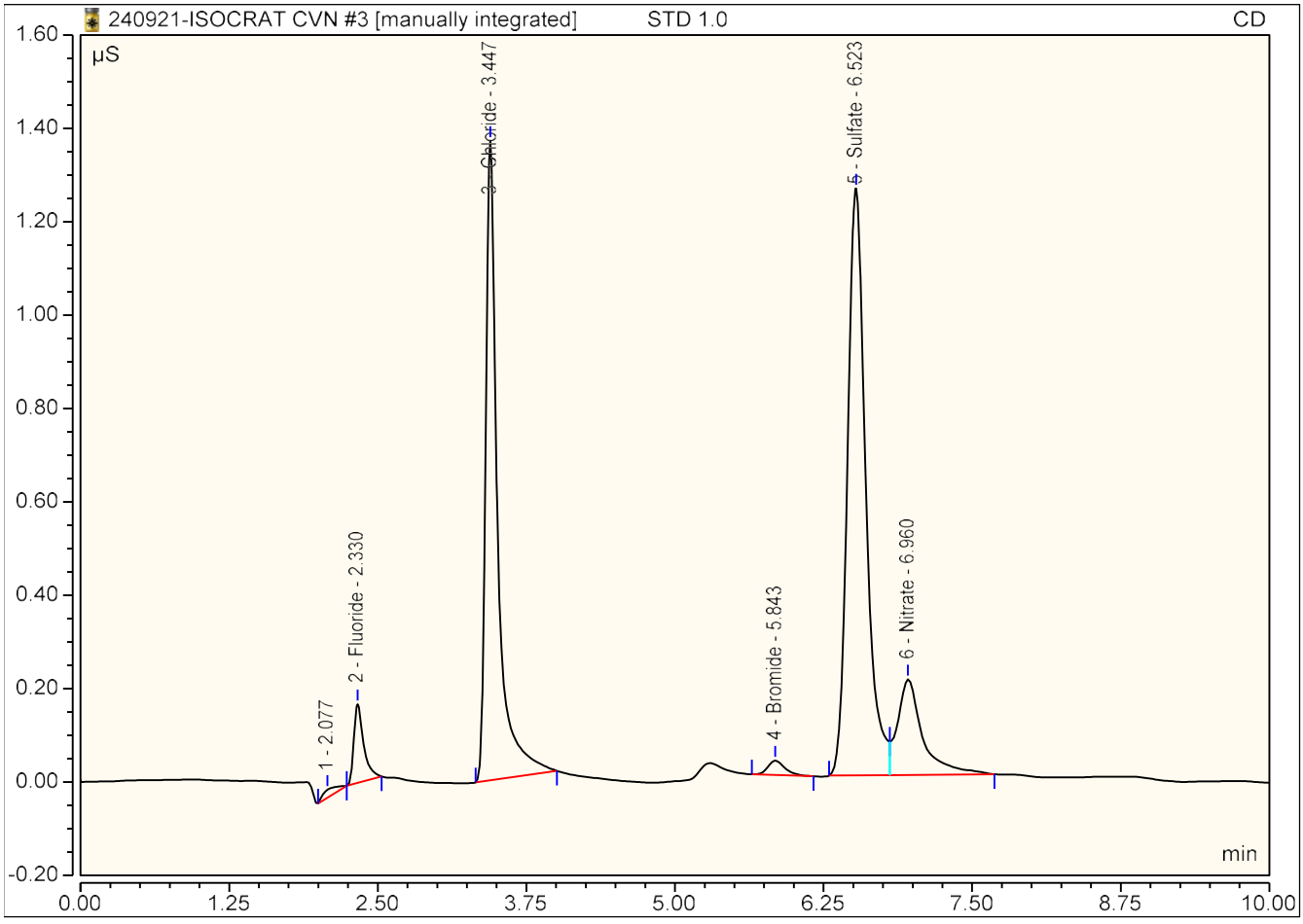
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.008	0.081	0.0592
3	3.45	**Chloride**	BMB*	0.074	0.618	0.3873
4	5.85	**Bromide**	BMB	0.002	0.013	0.0525
5	6.53	**Sulfate**	BM *	0.100	0.545	0.6237
6	6.97	**Nitrate**	MB*	0.024	0.098	0.0442
TOTAL:				0.21	1.35	1.17



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:33**	*Run Time:*	**10.00**

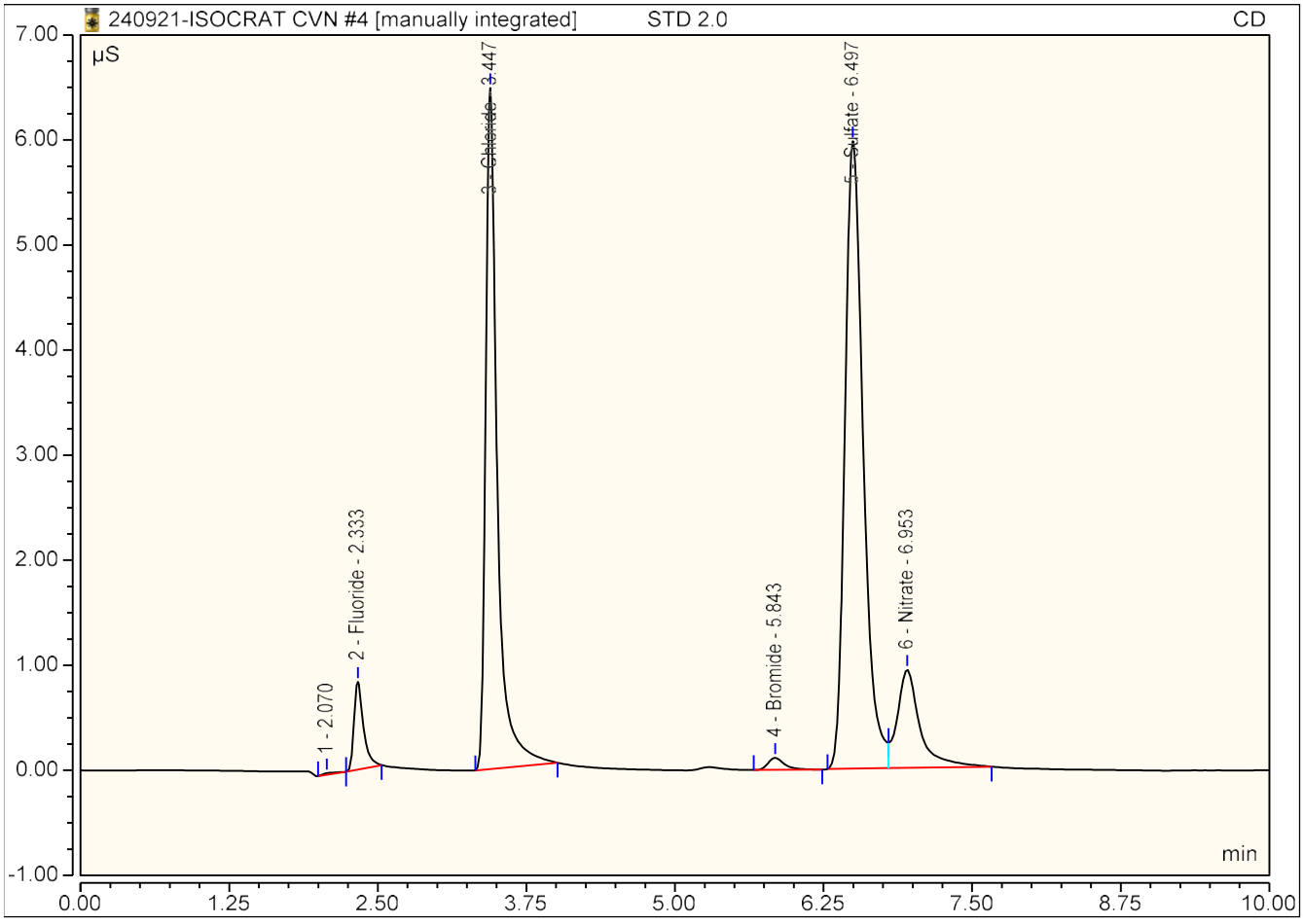
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.016	0.169	0.0738
3	3.45	**Chloride**	BMB*	0.159	1.370	0.5947
4	5.84	**Bromide**	BMB	0.005	0.031	0.0753
5	6.52	**Sulfate**	BM *	0.223	1.257	1.0491
6	6.96	**Nitrate**	MB*	0.050	0.205	0.0646
TOTAL:				0.45	3.03	1.86



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:45**	*Run Time:*	**10.00**

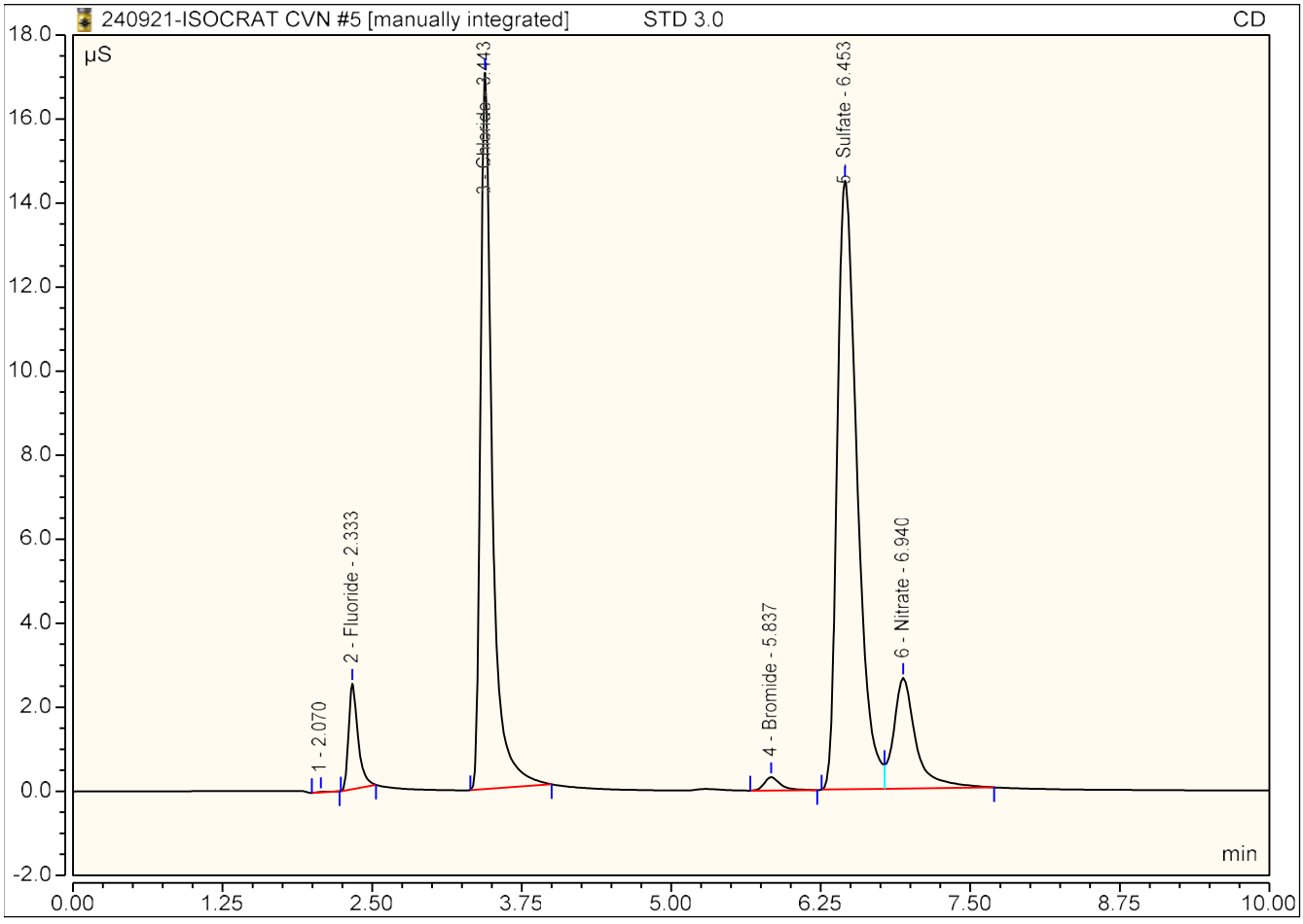
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.077	0.836	0.1840
3	3.45	**Chloride**	BMB*	0.734	6.483	1.9971
4	5.84	**Bromide**	BMB	0.019	0.116	0.1890
5	6.50	**Sulfate**	BM *	1.064	5.973	3.9561
6	6.95	**Nitrate**	MB*	0.206	0.936	0.1868
TOTAL:				2.10	14.34	6.51



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:57**	*Run Time:*	**10.00**

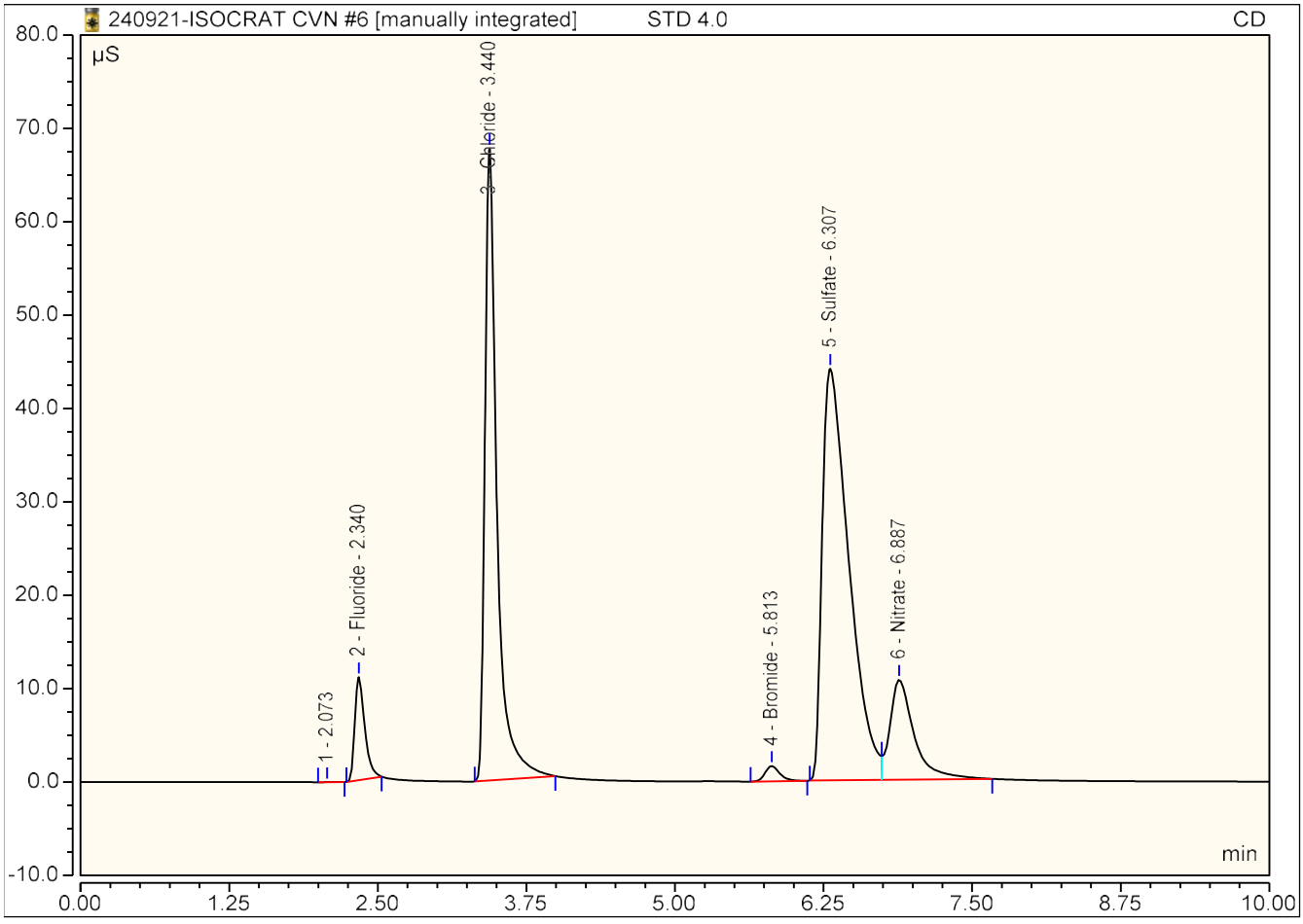
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.228	2.511	0.4607
3	3.44	**Chloride**	BMB*	1.937	17.049	4.9336
4	5.84	**Bromide**	BMB	0.050	0.317	0.4440
5	6.45	**Sulfate**	BM *	2.793	14.483	9.9320
6	6.94	**Nitrate**	MB*	0.570	2.634	0.4717
TOTAL:				5.58	36.99	16.24



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:09**	*Run Time:*	**10.00**

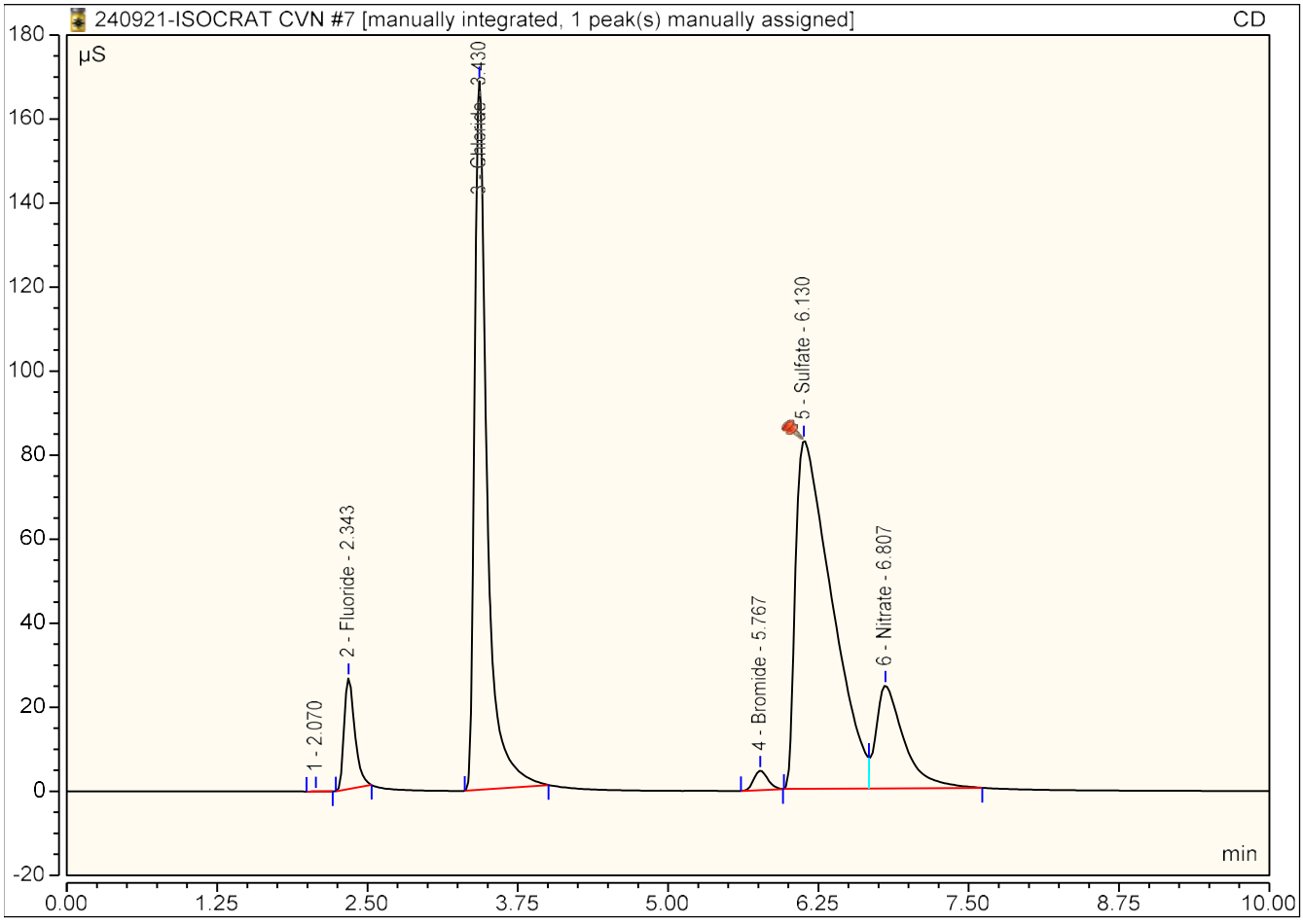
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	1.066	11.023	1.9885
3	3.44	**Chloride**	BMB*	7.993	67.701	19.7203
4	5.81	**Bromide**	BMB	0.239	1.650	2.0141
5	6.31	**Sulfate**	BM *	11.456	44.080	39.8861
6	6.89	**Nitrate**	MB*	2.529	10.726	2.0078
TOTAL:				23.28	135.18	65.62



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:21**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	2.722	26.414	5.0087
3	3.43	**Chloride**	BMB*	20.443	168.608	50.1170
4	5.77	**Bromide**	BMB	0.629	4.639	5.2575
5	6.13	**Sulfate**	BM *^	28.857	82.915	100.0530
6	6.81	**Nitrate**	MB*	6.605	24.427	5.2021
TOTAL:				59.26	307.00	165.64



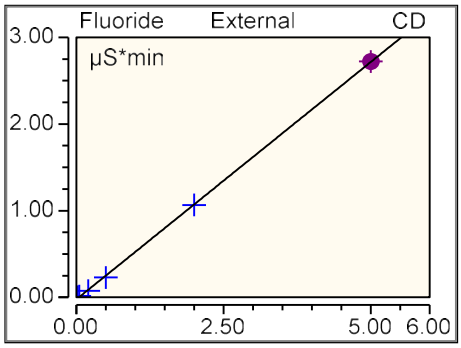
Calibration Batch Report

Sequence:	**240921-ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:21**	*Run Time:*	**10**

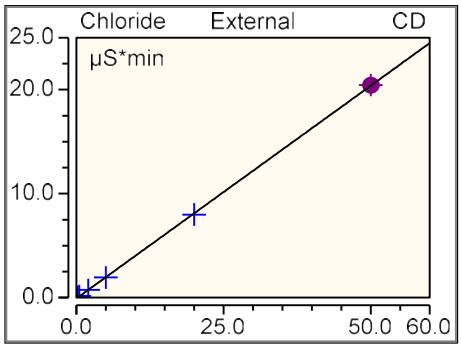
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.024	0.548	0.000	99.9805
Chloride	Area	in, WithOffse	6.000	-0.084	0.410	0.000	99.9935
Bromide	Area	in, WithOffse	5.000	-0.004	0.120	0.000	99.8241
Sulfate	Area	in, WithOffse	6.000	-0.080	0.289	0.000	99.9995
Nitrate	Area	in, WithOffse	5.000	-0.032	1.276	0.000	99.9412
		AVERAGE:		-0.0449	0.5287	0.0000	99.9478

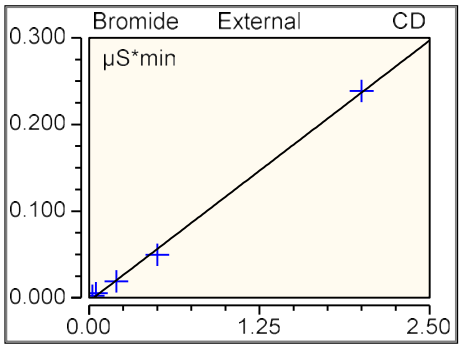
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.330	0.0081	0.081	0.059
STD 1.0	2.330	0.0161	0.169	0.074
STD 2.0	2.333	0.0765	0.836	0.184
STD 3.0	2.333	0.2282	2.511	0.461
STD 4.0	2.340	1.0658	11.023	1.989
STD 5.0	2.343	2.7217	26.414	5.009
Average	2.335			
Rel. Std. Dev.	0.235 %			



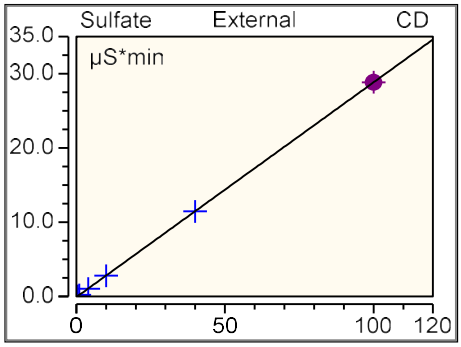
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.447	0.0744	0.618	0.387
STD 1.0	3.447	0.1594	1.370	0.595
STD 2.0	3.447	0.7338	6.483	1.997
STD 3.0	3.443	1.9365	17.049	4.934
STD 4.0	3.440	7.9930	67.701	19.720
STD 5.0	3.430	20.4430	168.608	50.117
Average	3.442			
Rel. Std. Dev.	0.190 %			



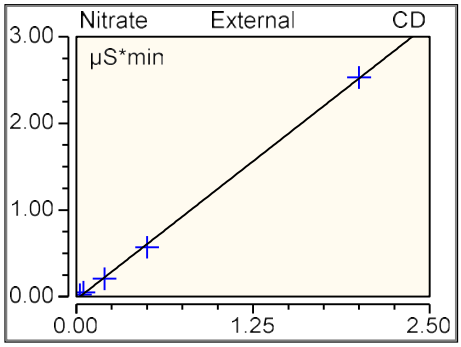
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.850	0.0024	0.013	0.053
STD 1.0	5.843	0.0051	0.031	0.075
STD 2.0	5.843	0.0188	0.116	0.189
STD 3.0	5.837	0.0495	0.317	0.444
STD 4.0	5.813	0.2386	1.650	2.014
STD 5.0	5.767	0.6291	4.639	5.257
Average	5.826			
Rel. Std. Dev.	0.541 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.530	0.1004	0.545	0.624
STD 1.0	6.523	0.2234	1.257	1.049
STD 2.0	6.497	1.0642	5.973	3.956
STD 3.0	6.453	2.7926	14.483	9.932
STD 4.0	6.307	11.4558	44.080	39.886
STD 5.0	6.130	28.8572	82.915	100.053
Average	6.407			
Rel. Std. Dev.	2.474 %			



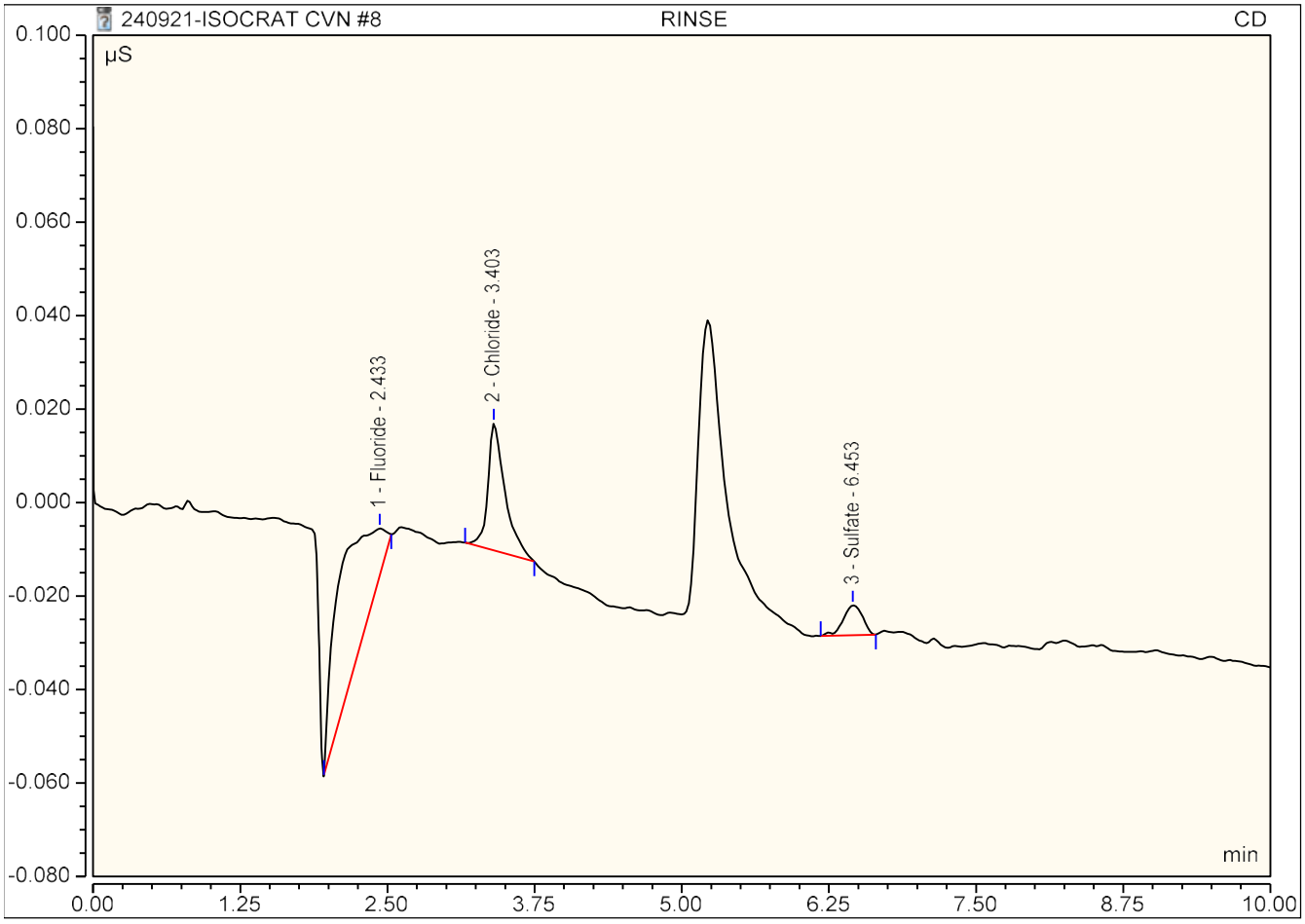
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.967	0.0242	0.098	0.044
STD 1.0	6.960	0.0502	0.205	0.065
STD 2.0	6.953	0.2061	0.936	0.187
STD 3.0	6.940	0.5696	2.634	0.472
STD 4.0	6.887	2.5293	10.726	2.008
STD 5.0	6.807	6.6045	24.427	5.202
Average	6.919			
Rel. Std. Dev.	0.896 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 08:34**	*Run Time:*	**10.00**

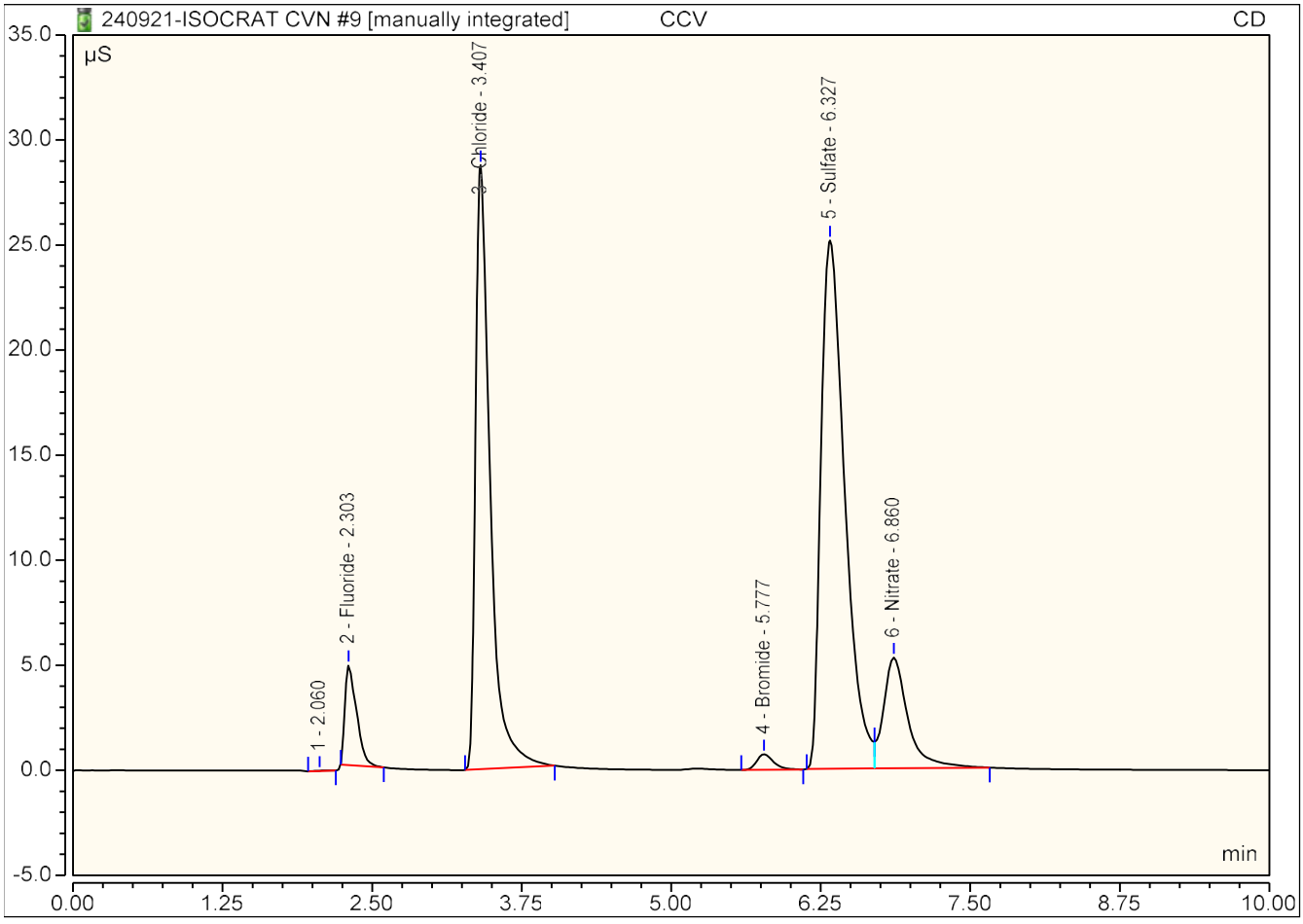
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.43	**Fluoride**	BMB	0.011	0.010	0.0642
2	3.40	**Chloride**	BMB	0.005	0.027	0.2169
3	6.45	**Sulfate**	BMB	0.001	0.006	0.2808
TOTAL:				0.02	0.04	0.56



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 08:46**	*Run Time:*	**10.00**

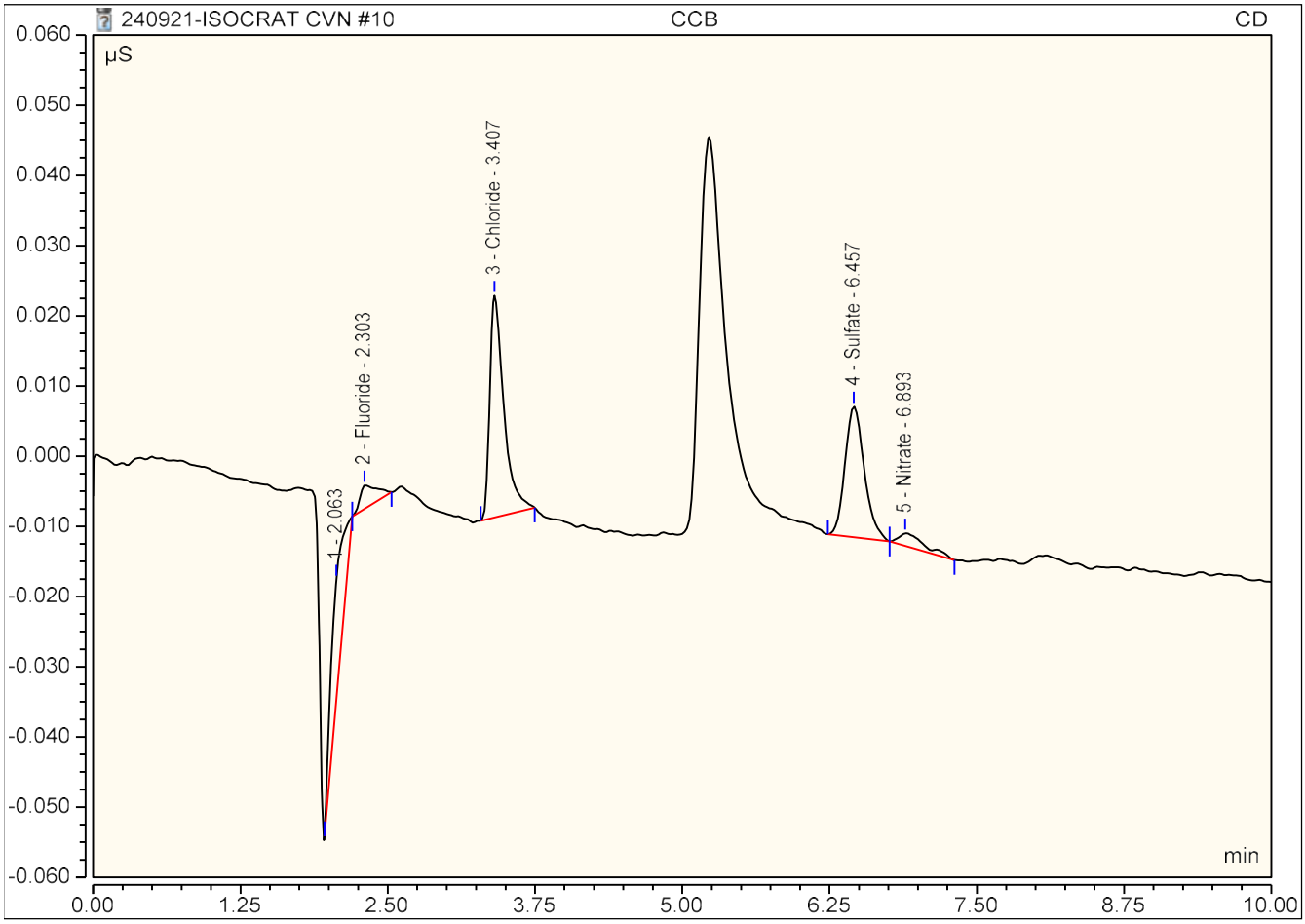
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB*	0.533	4.758	1.0162
3	3.41	**Chloride**	BMB*	4.075	28.742	10.1547
4	5.78	**Bromide**	BMB	0.120	0.740	1.0333
5	6.33	**Sulfate**	BM *	5.795	25.149	20.3146
6	6.86	**Nitrate**	MB*	1.252	5.274	1.0064
TOTAL:				11.78	64.66	33.53



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 08:58**	*Run Time:*	**10.00**

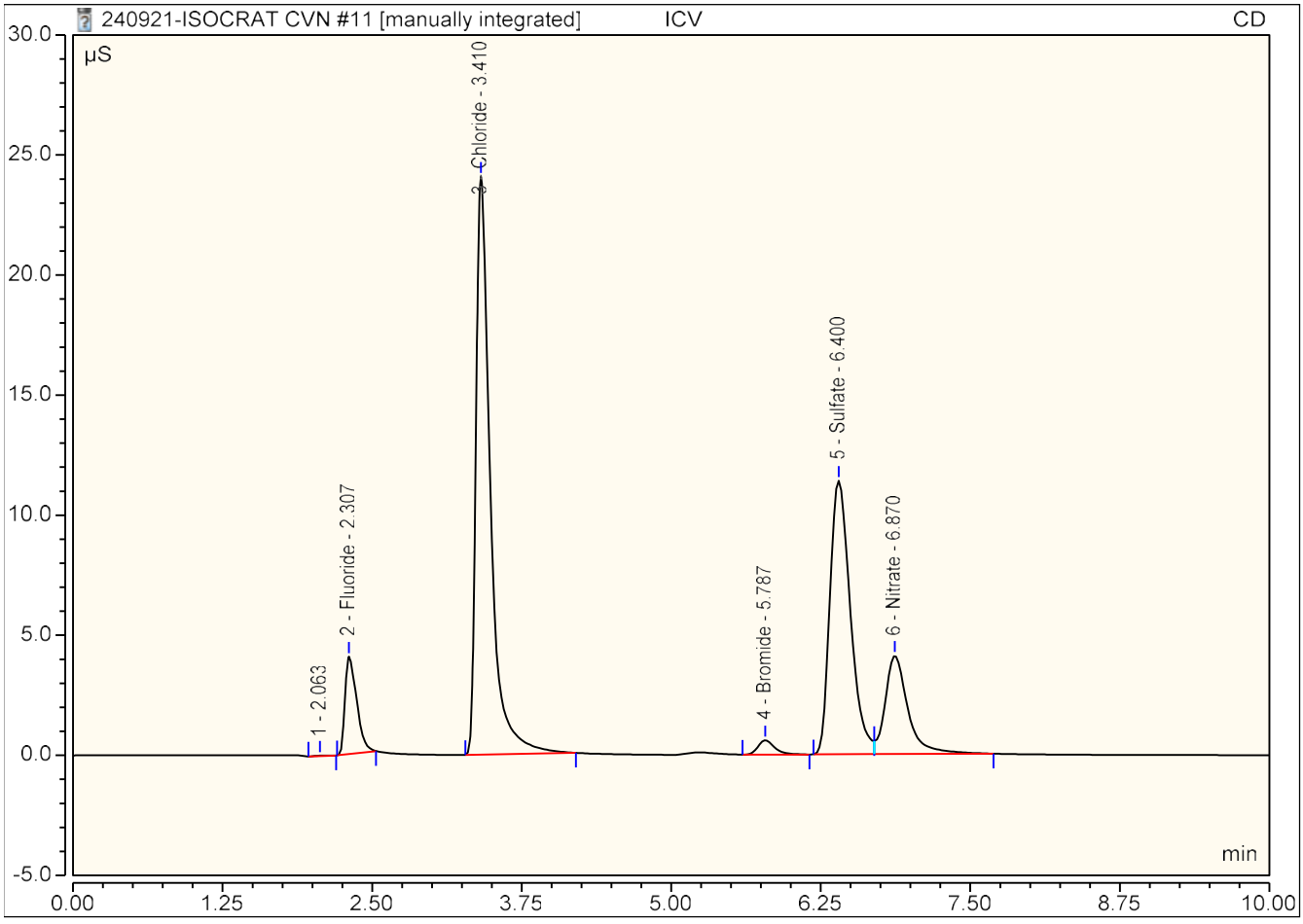
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.003	0.0454
3	3.41	**Chloride**	BMB	0.004	0.032	0.2163
4	6.46	**Sulfate**	BMB	0.004	0.019	0.2888
5	6.89	**Nitrate**	BMB	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.58



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:10**	*Run Time:*	**10.00**

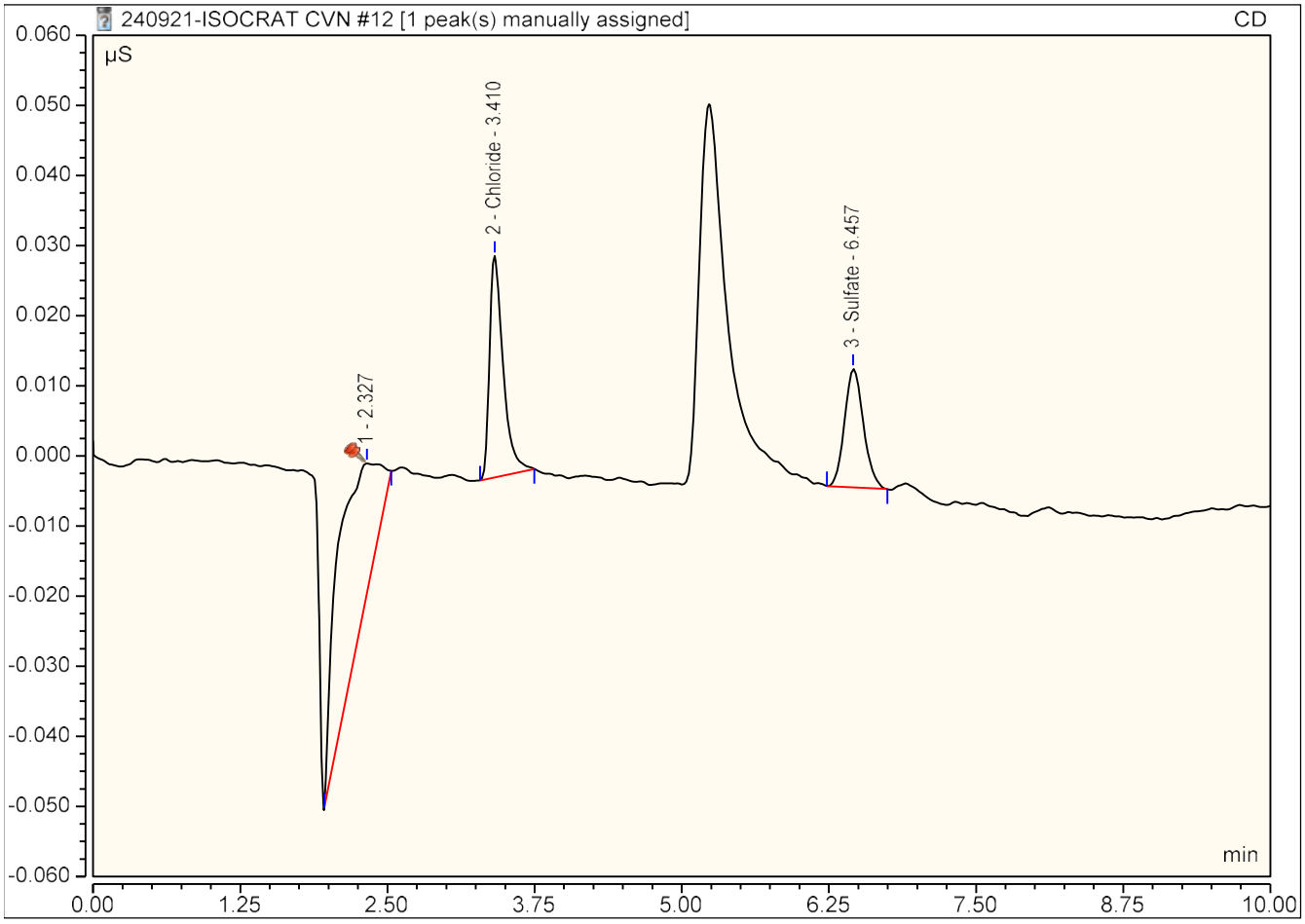
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.456	4.055	0.8766
3	3.41	**Chloride**	BMB*	3.353	24.071	8.3922
4	5.79	**Bromide**	BMB	0.096	0.593	0.8333
5	6.40	**Sulfate**	BM *	2.251	11.388	8.0588
6	6.87	**Nitrate**	MB*	0.899	4.092	0.7298
TOTAL:				7.06	44.20	18.89



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:22**	*Run Time:*	**10.00**

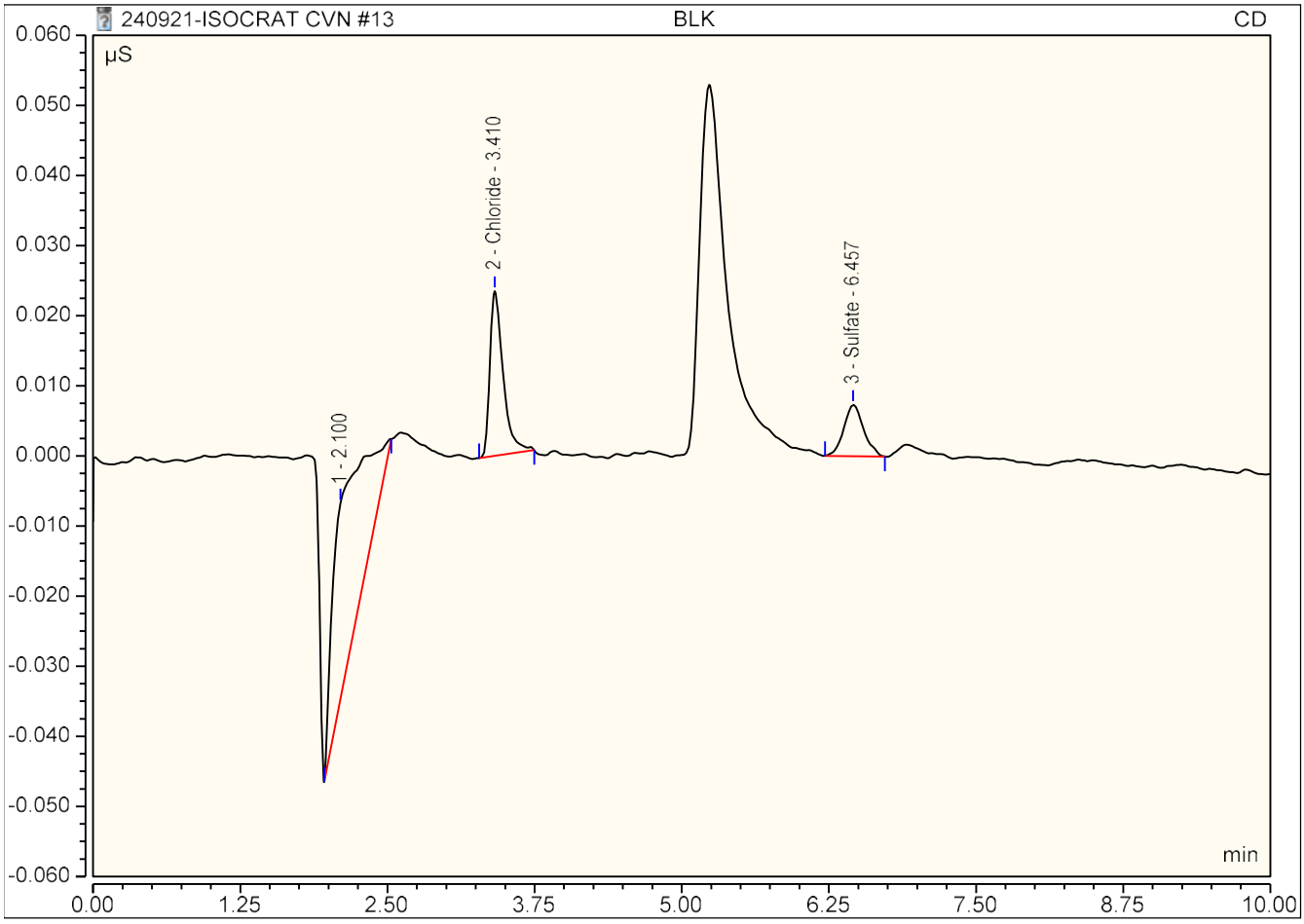
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.41	**Chloride**	BMB	0.004	0.032	0.2159
3	6.46	**Sulfate**	BMB	0.003	0.017	0.2874
TOTAL:				0.01	0.05	0.50



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:34**	*Run Time:*	**10.00**

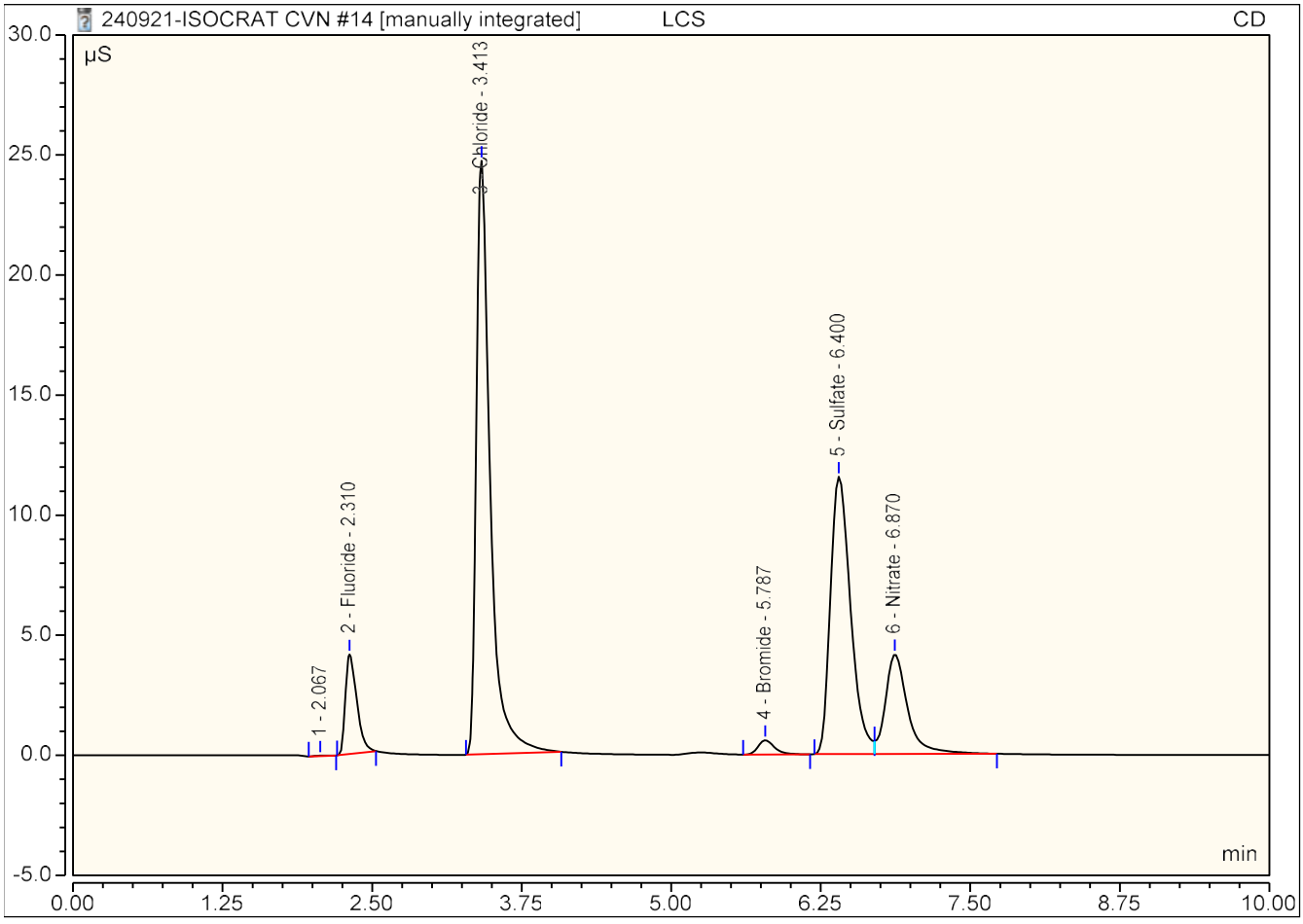
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.41	**Chloride**	BMB	0.003	0.023	0.2131
3	6.46	**Sulfate**	BMB	0.001	0.007	0.2815
TOTAL:				0.00	0.03	0.49



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:46**	*Run Time:*	**10.00**

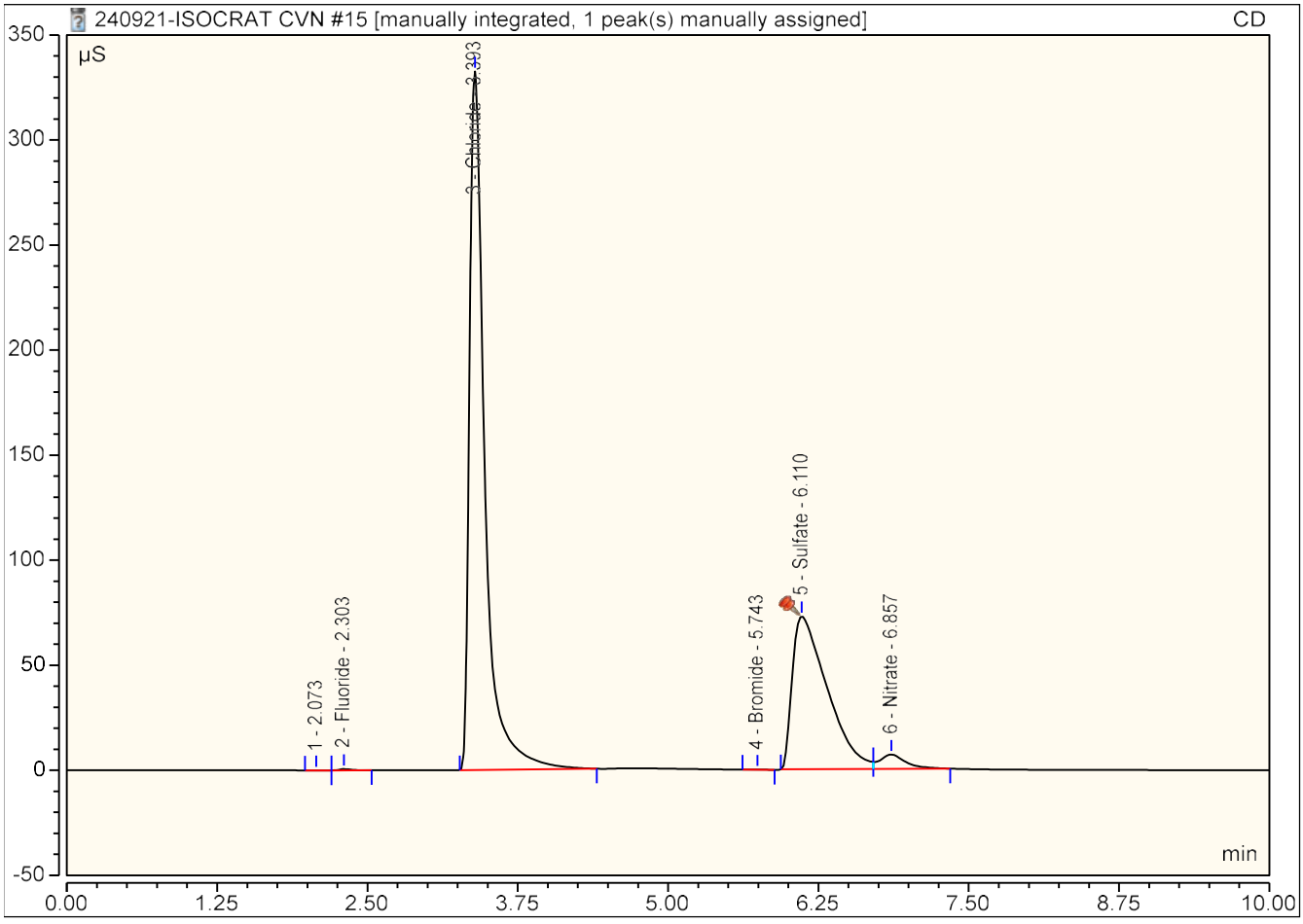
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.455	4.151	0.8747
3	3.41	**Chloride**	BMB*	3.324	24.710	8.3210
4	5.79	**Bromide**	BMB	0.096	0.601	0.8290
5	6.40	**Sulfate**	BM *	2.254	11.546	8.0688
6	6.87	**Nitrate**	MB*	0.893	4.151	0.7249
TOTAL:				7.02	45.16	18.82



Peak Integration Report

Sample Name:	**L2453576-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:58**	*Run Time:*	**10.00**

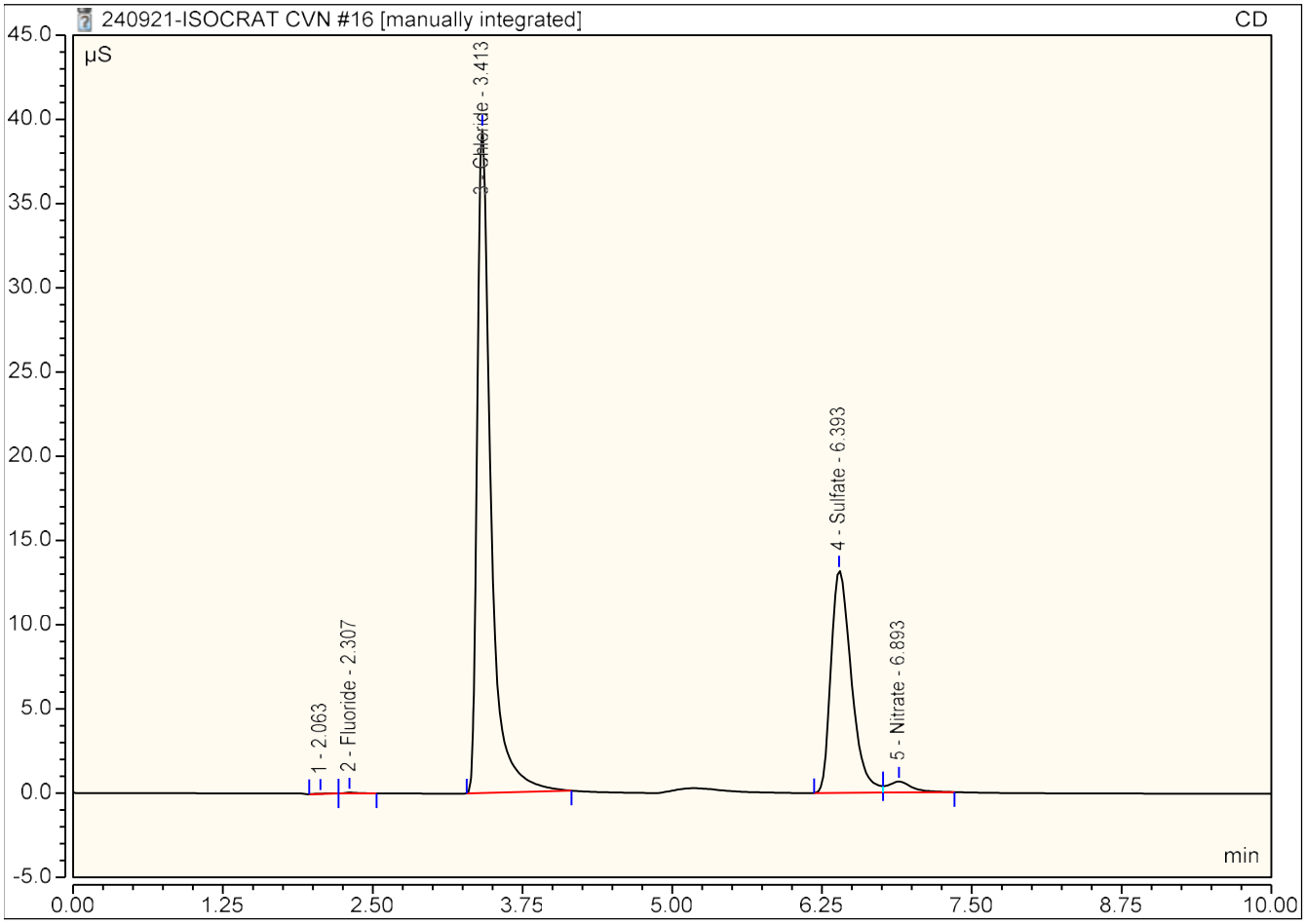
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.066	0.597	0.1648
3	3.39	**Chloride**	BMB*	48.973	332.488	119.7739
4	5.74	**Bromide**	BMB	0.002	0.018	0.0514
5	6.11	**Sulfate**	BM *^	24.365	72.832	84.5219
6	6.86	**Nitrate**	MB*	1.695	6.820	1.3542
TOTAL:				75.10	412.75	205.87



Peak Integration Report

Sample Name:	**L2453576-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:10**	*Run Time:*	**10.00**

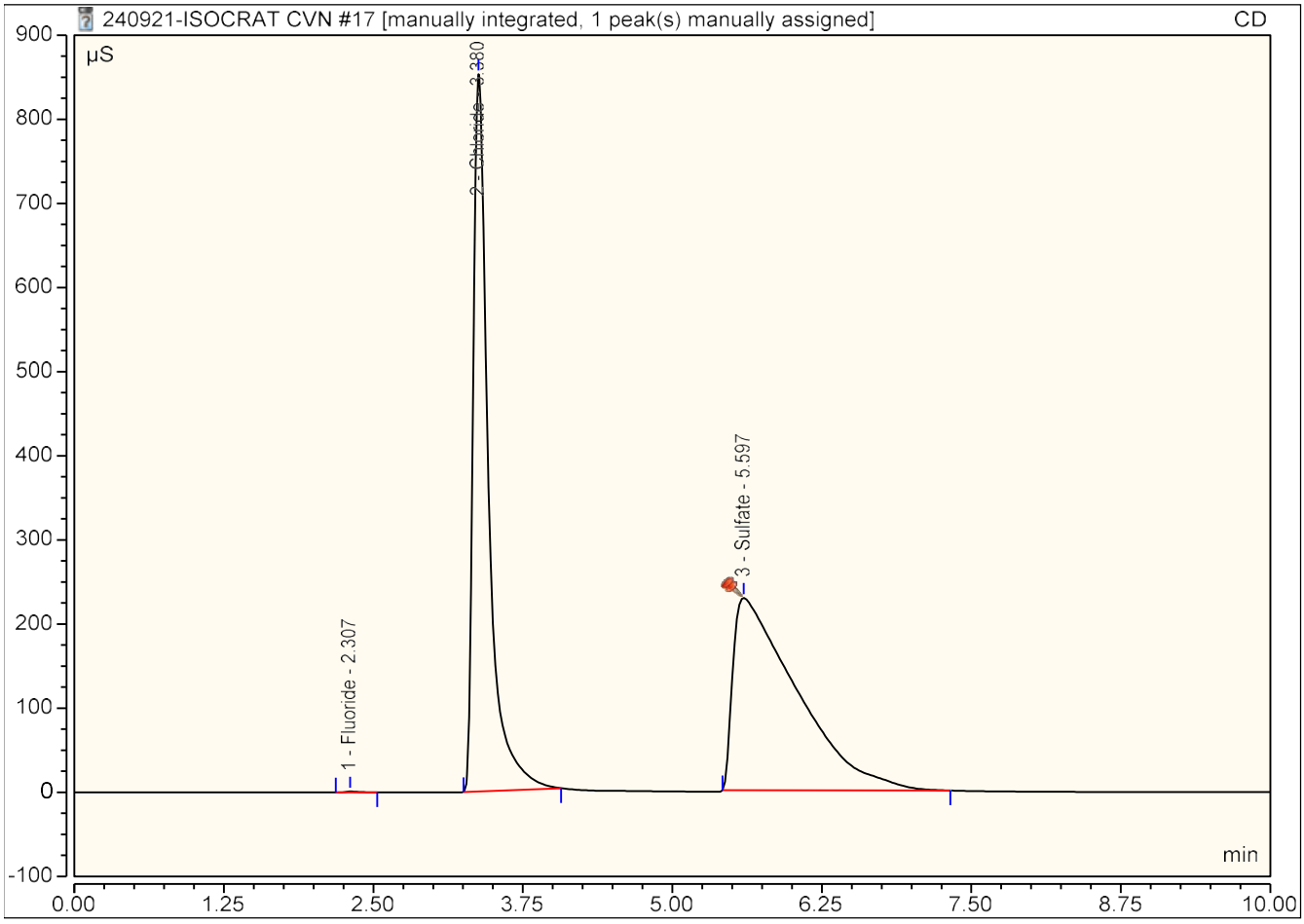
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.007	0.059	0.5751
3	3.41	**Chloride**	BMB*	5.256	39.396	130.3890
4	6.39	**Sulfate**	BM *	2.610	13.198	93.0140
5	6.89	**Nitrate**	MB*	0.152	0.655	1.4458
TOTAL:				8.03	53.31	225.42



Peak Integration Report

Sample Name:	**XL2453576-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:22**	*Run Time:*	**10.00**

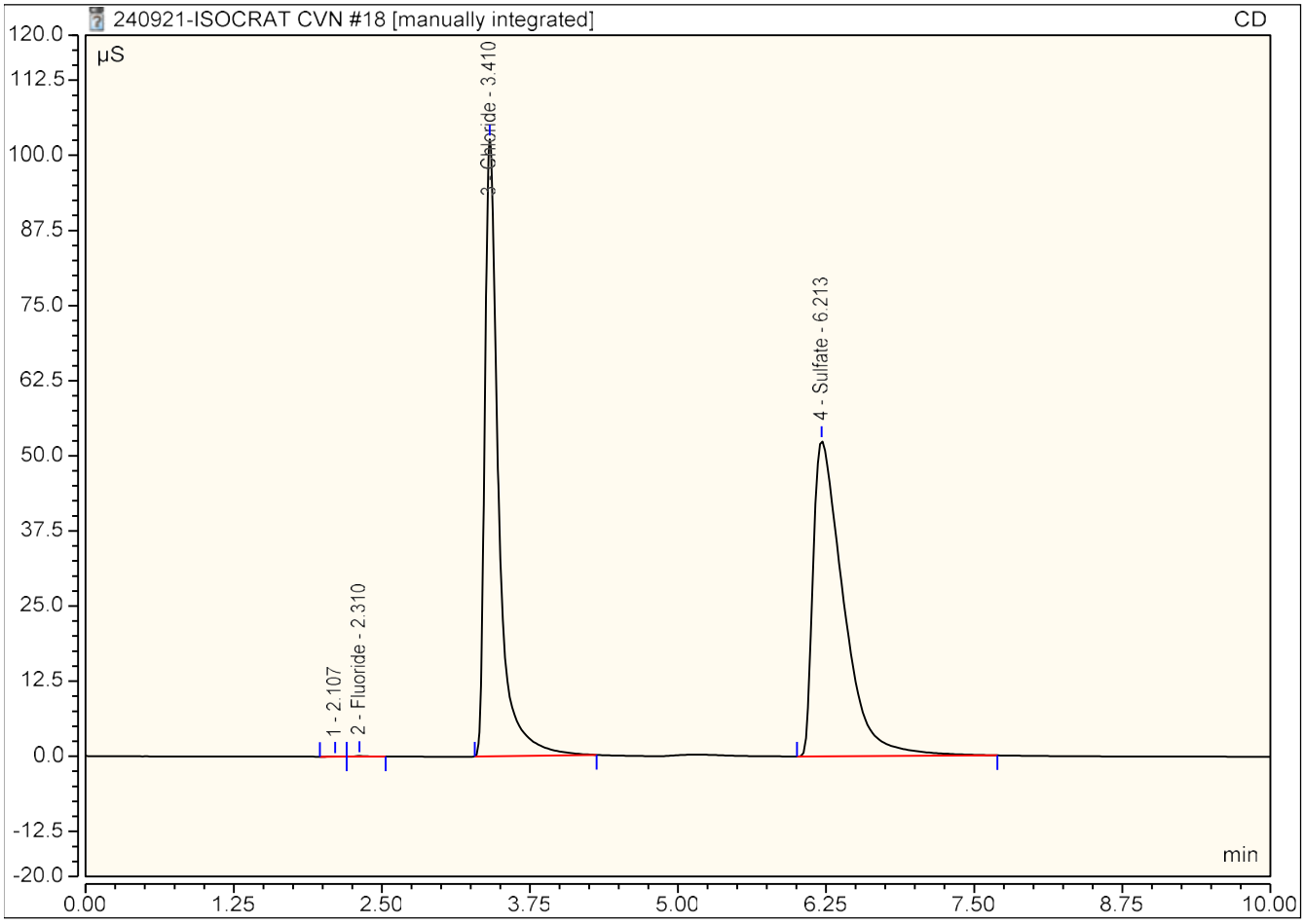
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.115	0.989	0.2533
2	3.38	**Chloride**	BMB*	126.275	852.670	308.5046
3	5.60	**Sulfate**	BM *^	141.344	228.890	488.9859
TOTAL:				267.73	1082.55	797.74



Peak Integration Report

Sample Name:	**L2453576-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:34**	*Run Time:*	**10.00**

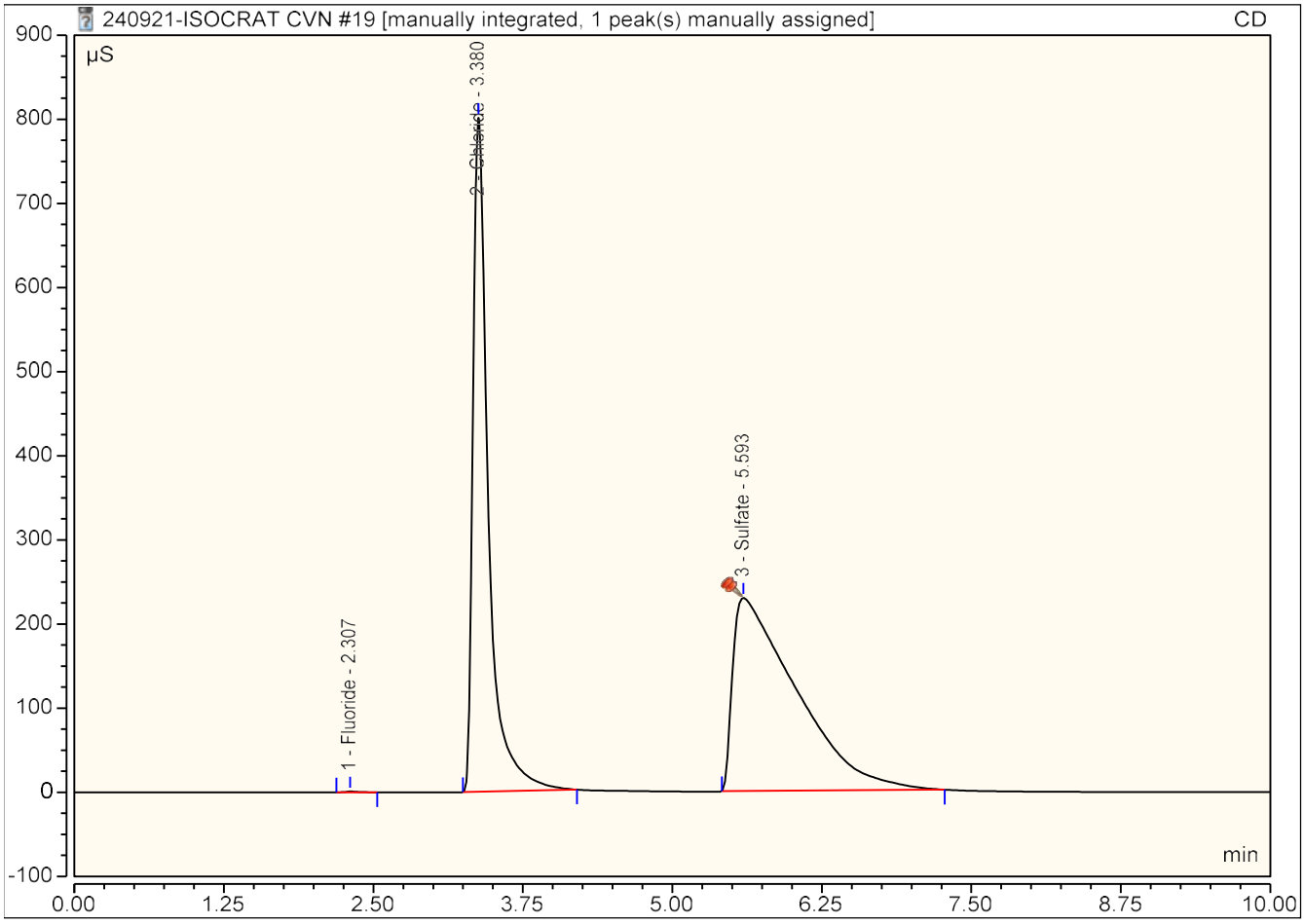
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.012	0.107	0.6718
3	3.41	**Chloride**	BMB*	13.898	102.657	341.3696
4	6.21	**Sulfate**	BMB	15.615	52.500	542.6627
TOTAL:				29.53	155.26	884.70



Peak Integration Report

Sample Name:	**XL2453576-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:47**	*Run Time:*	**10.00**

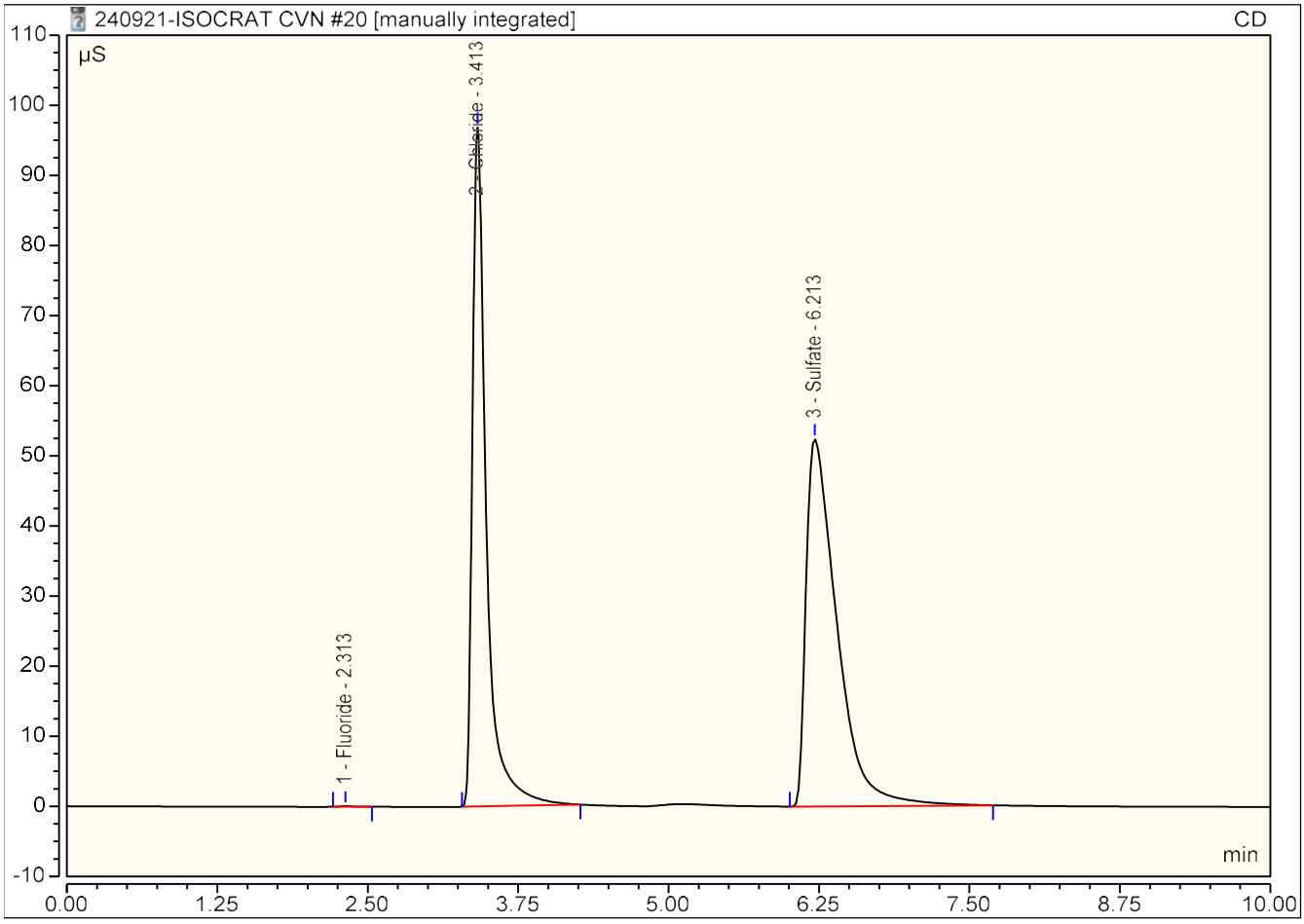
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.121	1.070	0.2657
2	3.38	**Chloride**	BMB*	119.376	801.129	291.6625
3	5.59	**Sulfate**	BMB*^	141.308	229.730	488.8619
TOTAL:				260.81	1031.93	780.79



Peak Integration Report

Sample Name:	**L2453576-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:59**	*Run Time:*	**10.00**

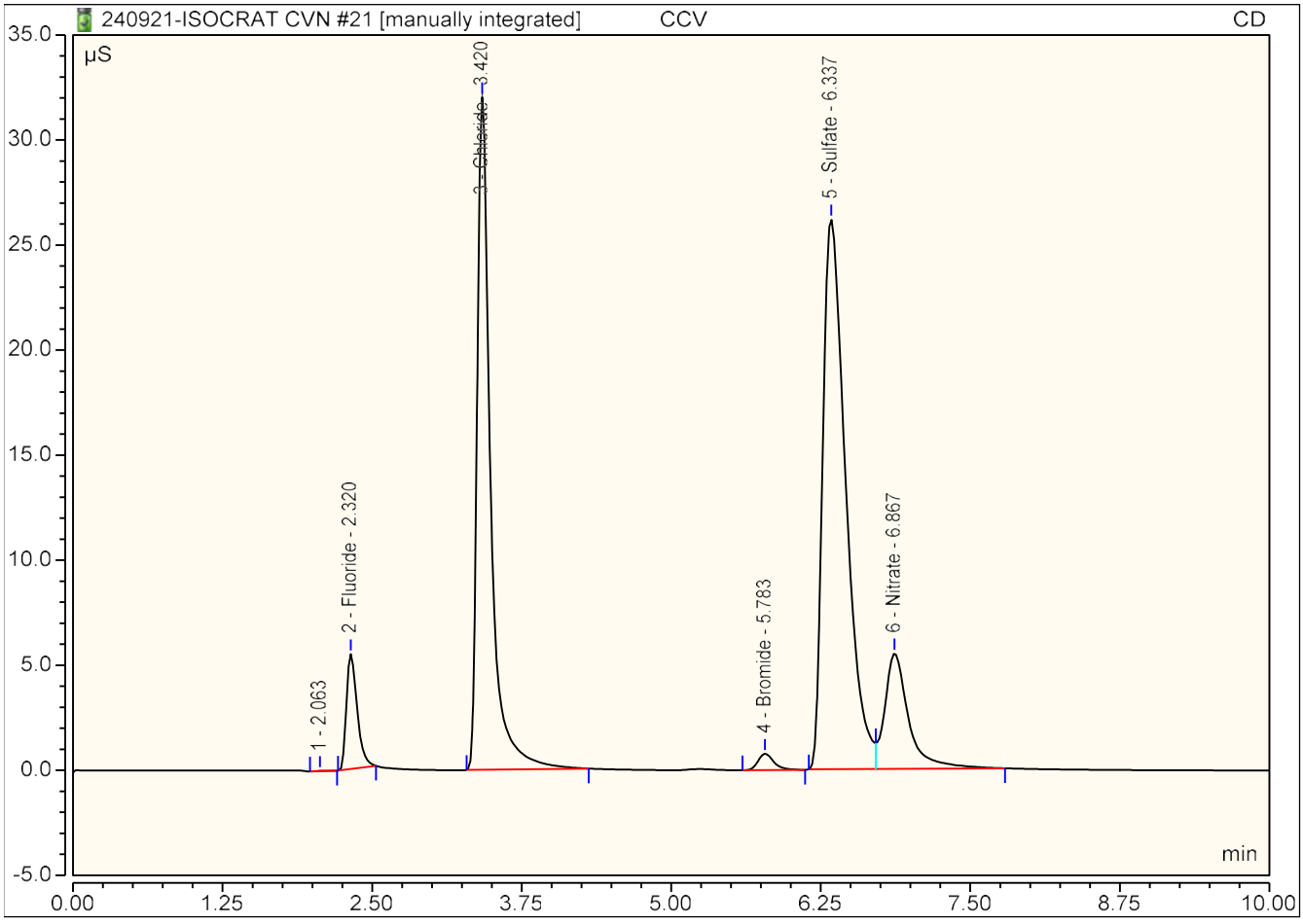
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.012	0.115	0.6679
2	3.41	**Chloride**	BMB*	12.941	96.860	318.0099
3	6.21	**Sulfate**	BMB	15.560	52.426	540.7540
TOTAL:				28.51	149.40	859.43



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:11**	*Run Time:*	**10.00**

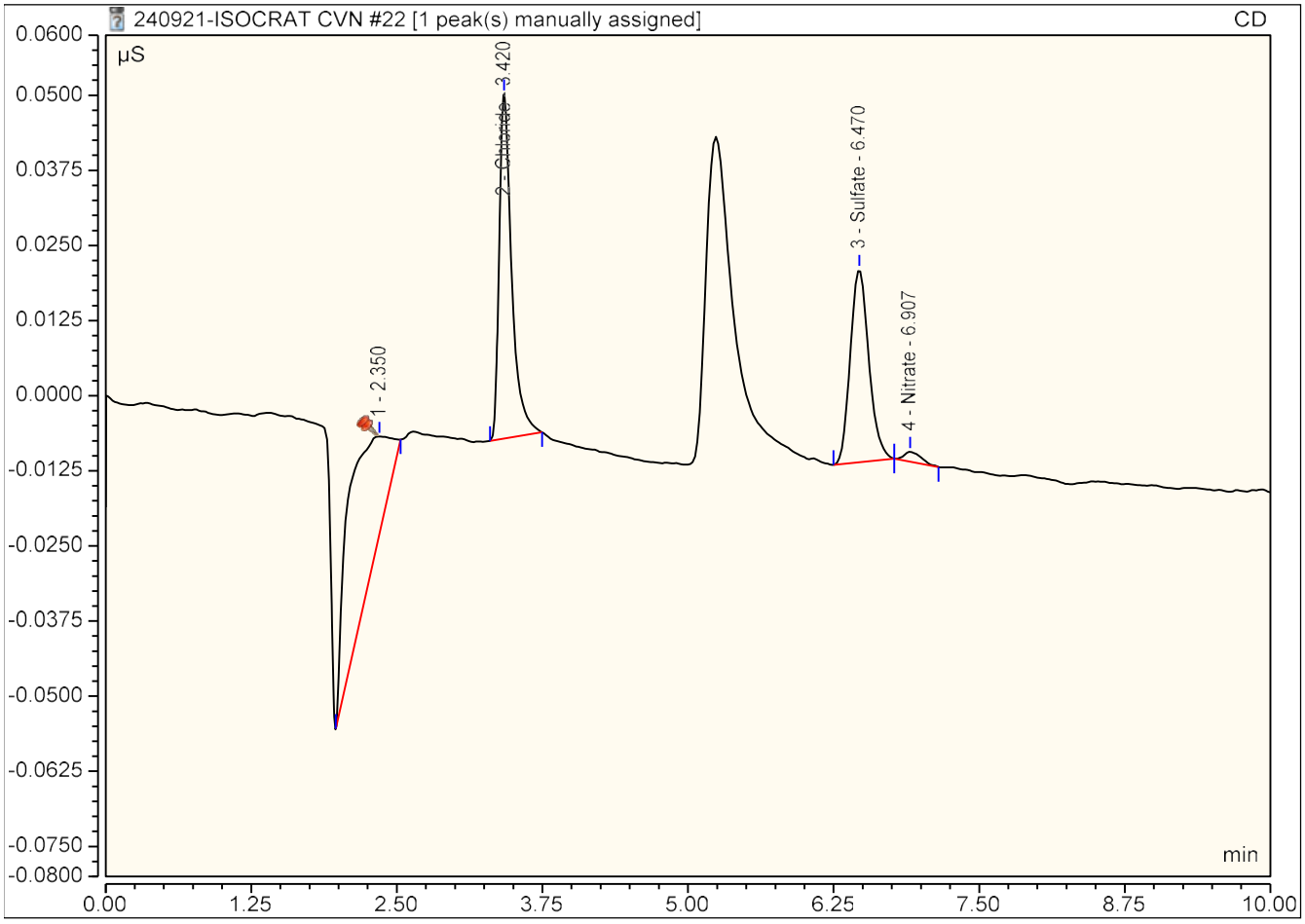
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.567	5.471	1.0783
3	3.42	**Chloride**	BMB*	4.158	32.028	10.3566
4	5.78	**Bromide**	BMB	0.120	0.786	1.0300
5	6.34	**Sulfate**	BM *	5.805	26.170	20.3483
6	6.87	**Nitrate**	MB*	1.271	5.499	1.0214
TOTAL:				11.92	69.95	33.83



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:23**	*Run Time:*	**10.00**

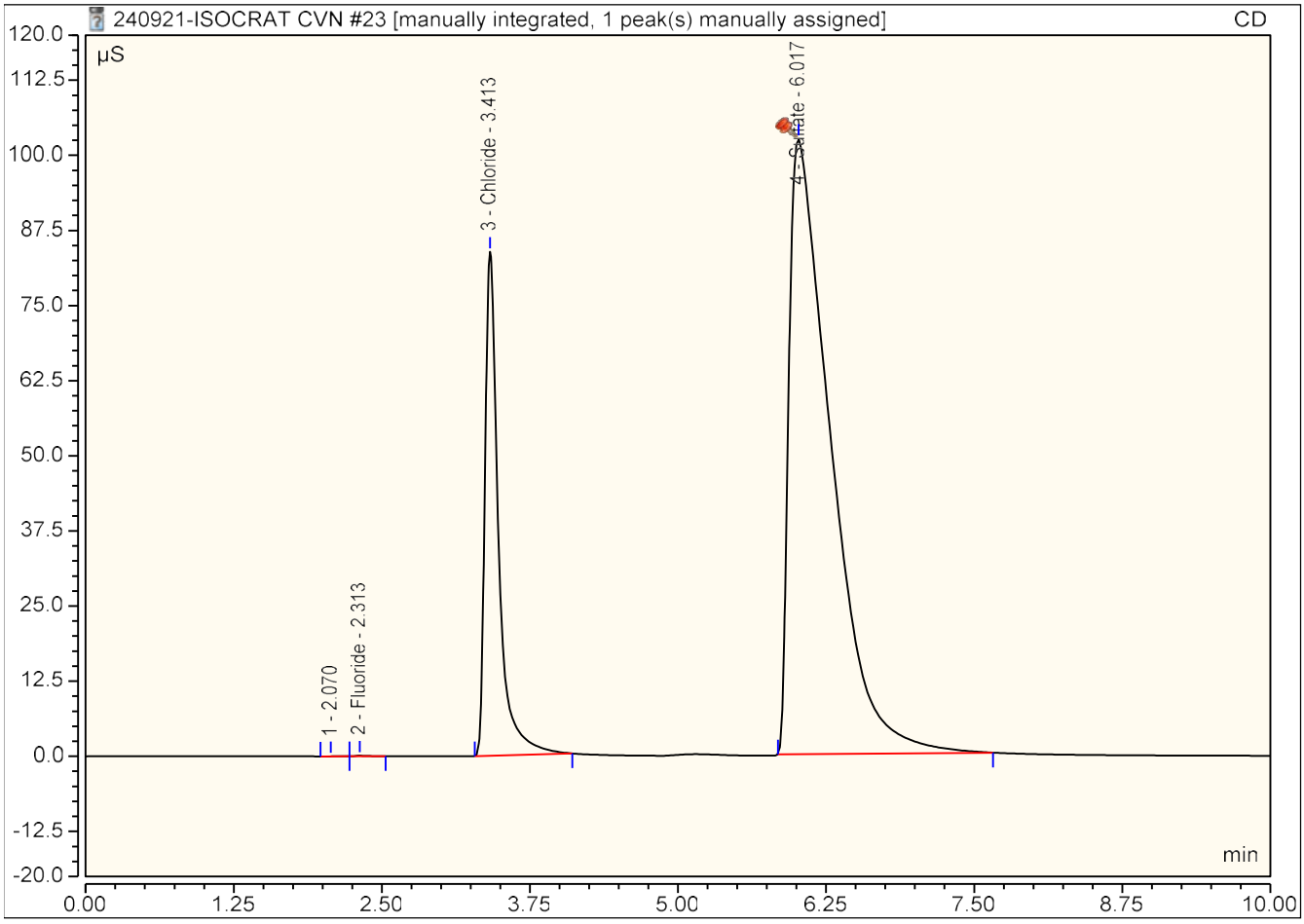
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.007	0.057	0.2229
3	6.47	**Sulfate**	BMB	0.006	0.032	0.2970
4	6.91	**Nitrate**	BMB	0.000	0.002	0.0255
TOTAL:				0.01	0.09	0.55



Peak Integration Report

Sample Name:	**L2453576-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:35**	*Run Time:*	**10.00**

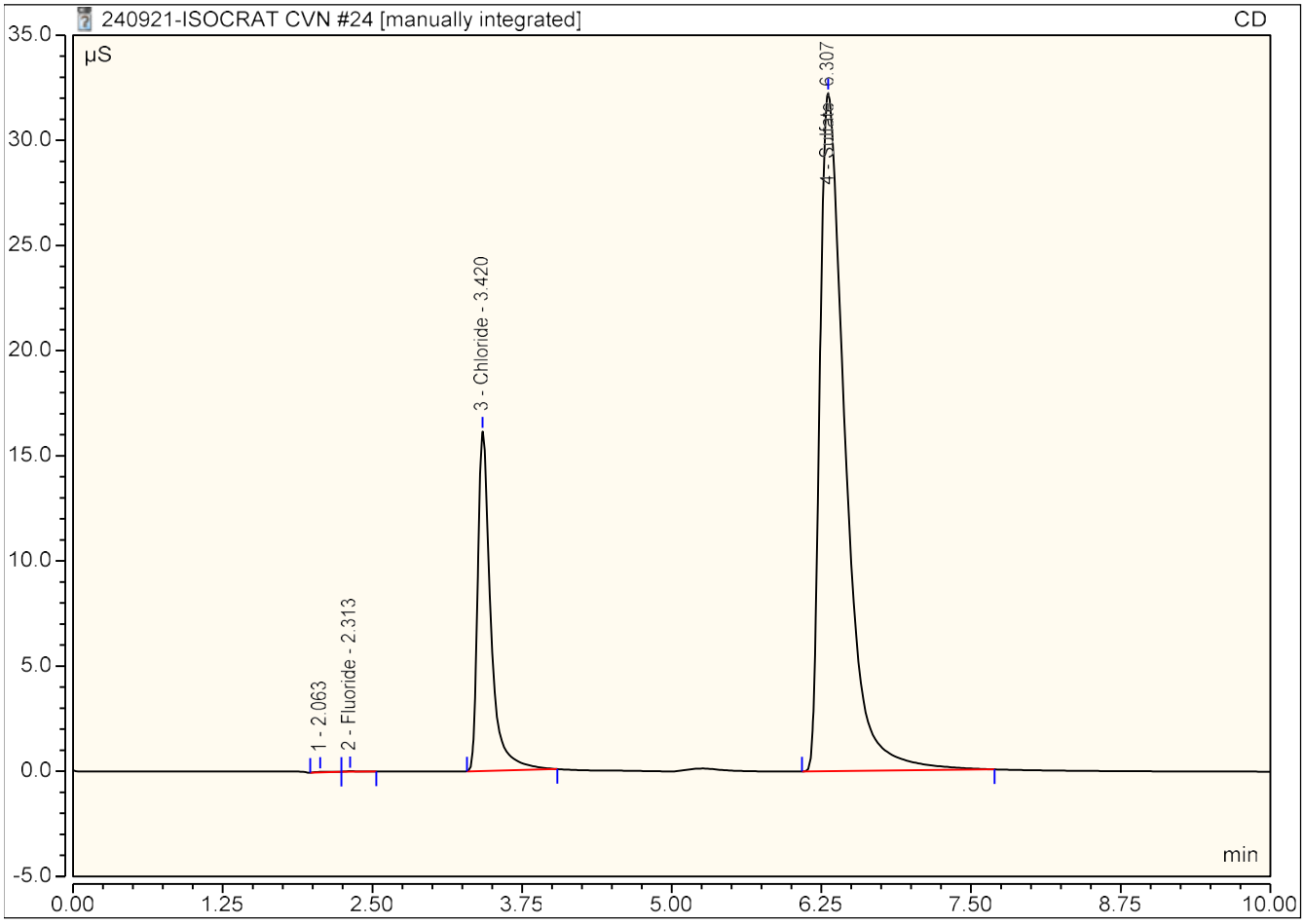
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.012	0.094	0.6571
3	3.41	**Chloride**	BMB*	11.088	83.828	272.7696
4	6.02	**Sulfate**	BMB*^	41.832	102.392	1449.1374
TOTAL:				52.93	186.32	1722.56



Peak Integration Report

Sample Name:	**L2453576-04; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:47**	*Run Time:*	**10.00**

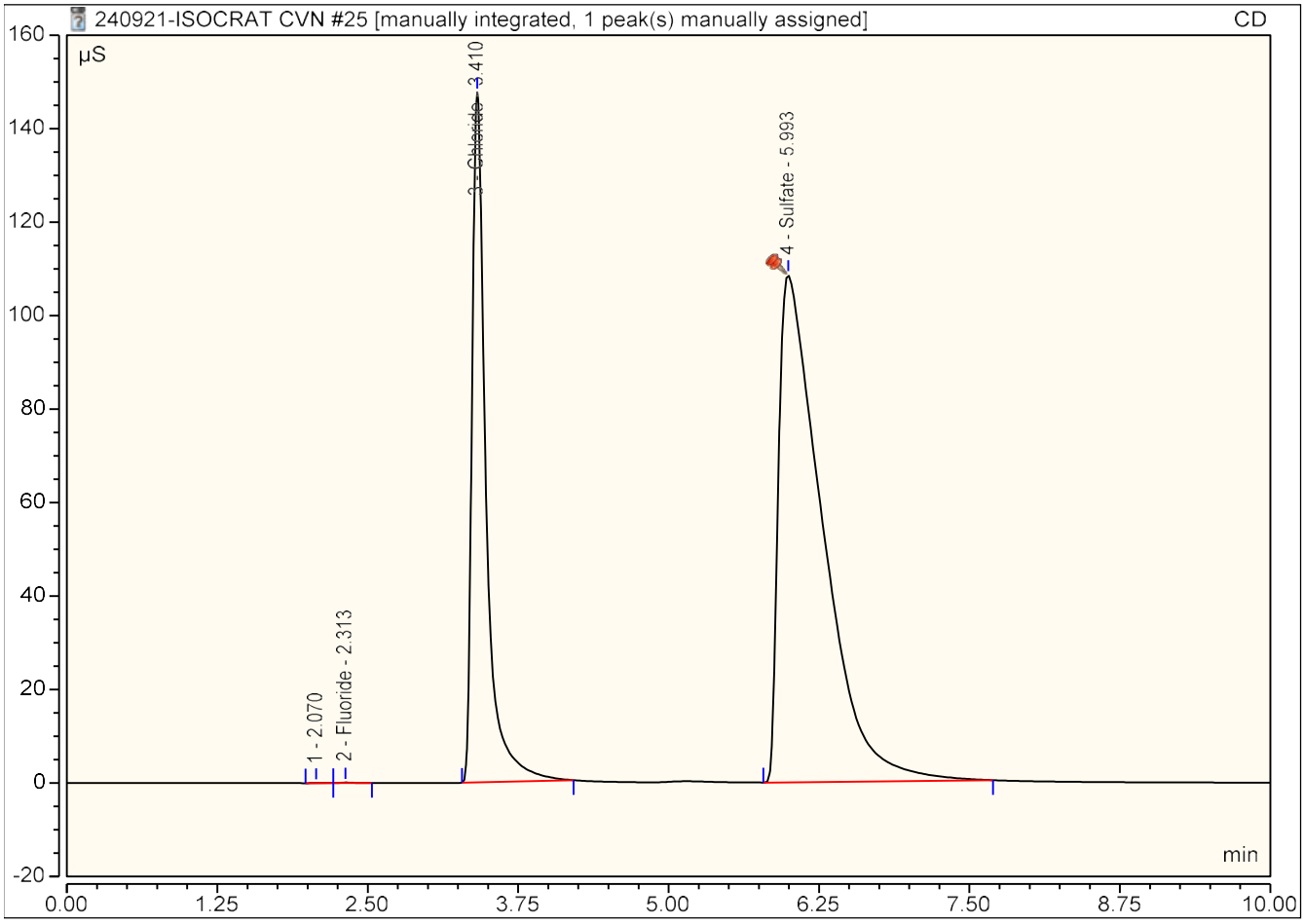
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.018	2.4382
3	3.42	**Chloride**	BMB*	2.044	16.139	259.7654
4	6.31	**Sulfate**	BMB	7.910	32.236	1381.3515
TOTAL:				9.96	48.39	1643.56



Peak Integration Report

Sample Name:	**L2453576-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:59**	*Run Time:*	**10.00**

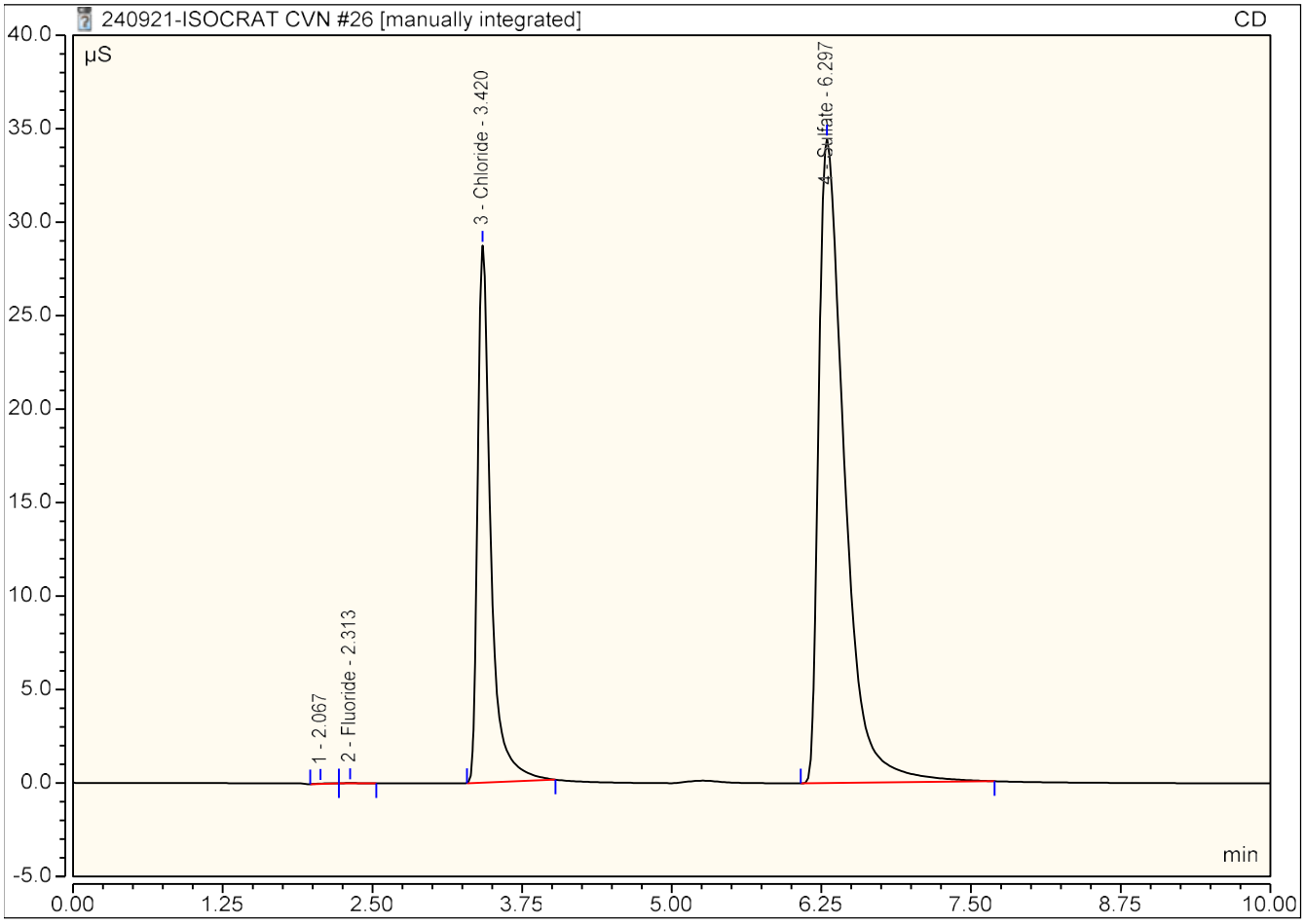
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.012	0.106	0.6623
3	3.41	**Chloride**	BMB*	19.932	147.645	488.7026
4	5.99	**Sulfate**	BMB^	45.866	108.552	1588.6133
TOTAL:				65.81	256.30	2077.98



Peak Integration Report

Sample Name:	**L2453576-05; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 12:11**	*Run Time:*	**10.00**

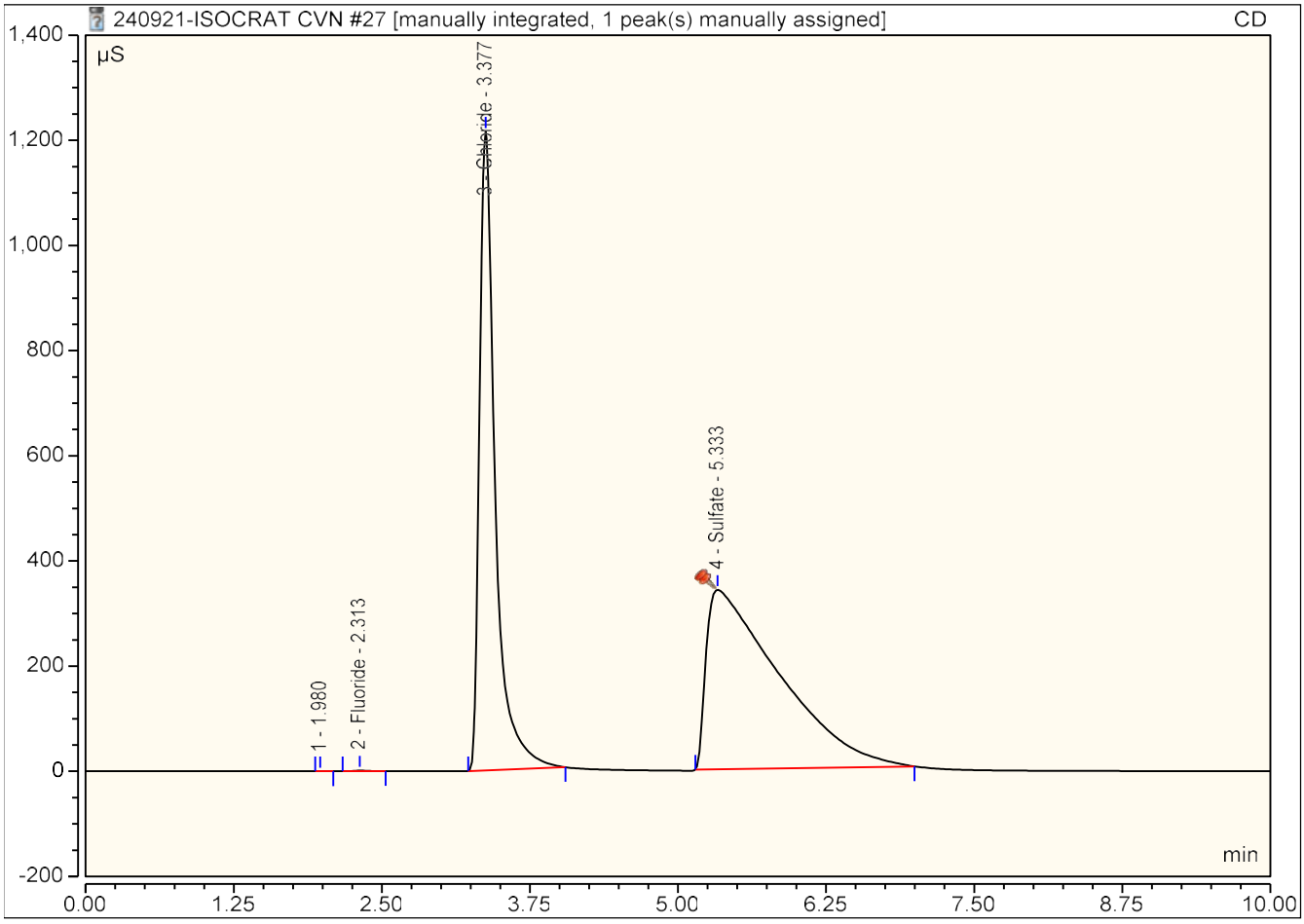
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.003	0.020	2.4527
3	3.42	**Chloride**	BMB*	3.678	28.721	459.3308
4	6.30	**Sulfate**	BMB	8.624	34.440	1504.7860
TOTAL:				12.31	63.18	1966.57



Peak Integration Report

Sample Name:	**XL2453576-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 12:23**	*Run Time:*	**10.00**

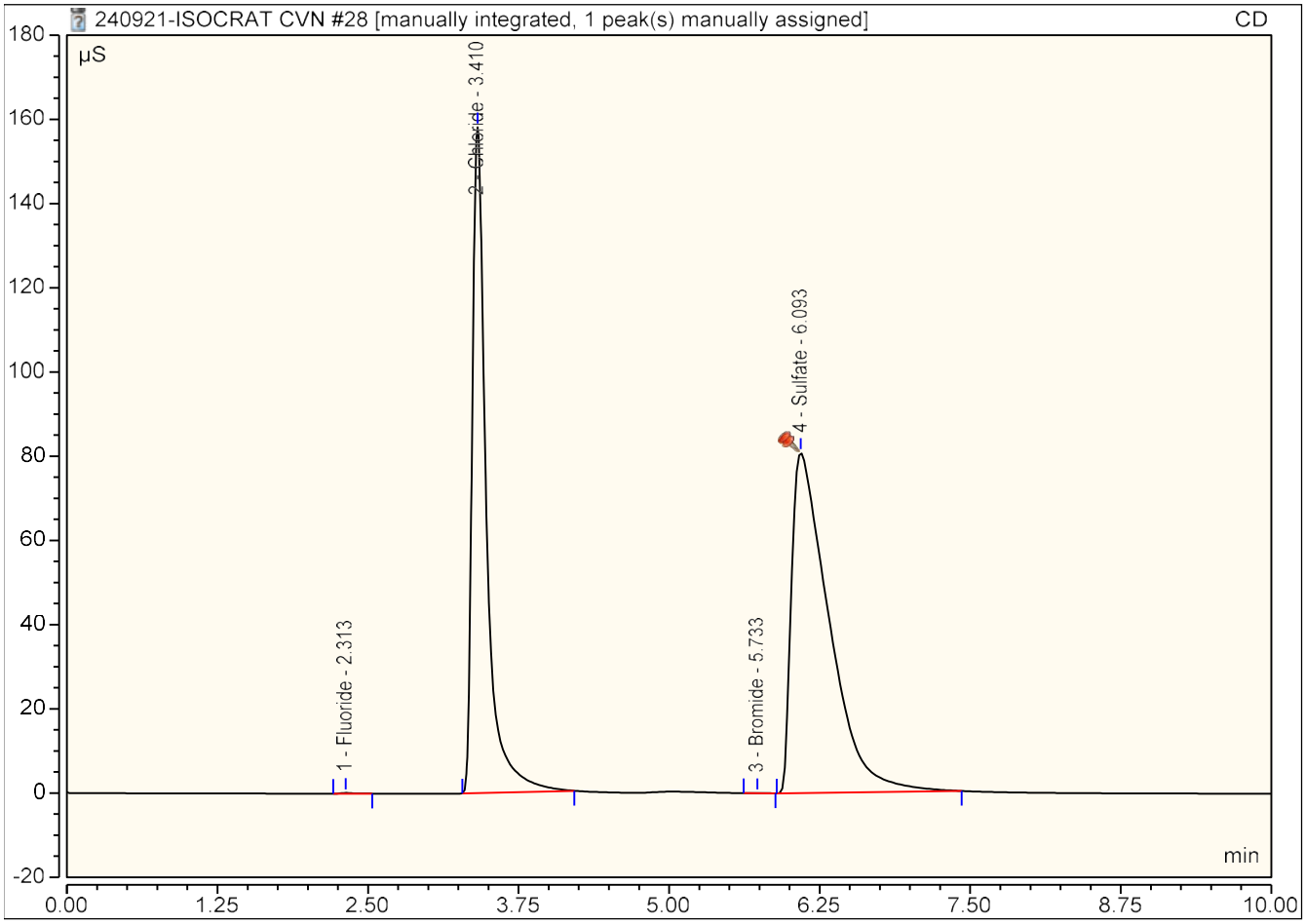
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.179	1.312	0.3702
3	3.38	**Chloride**	BMB*	186.387	1214.660	455.2689
4	5.33	**Sulfate**	BMB*^	243.821	341.499	843.3111
TOTAL:				430.39	1557.47	1298.95



Peak Integration Report

Sample Name:	**XL2453576-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 12:35**	*Run Time:*	**10.00**

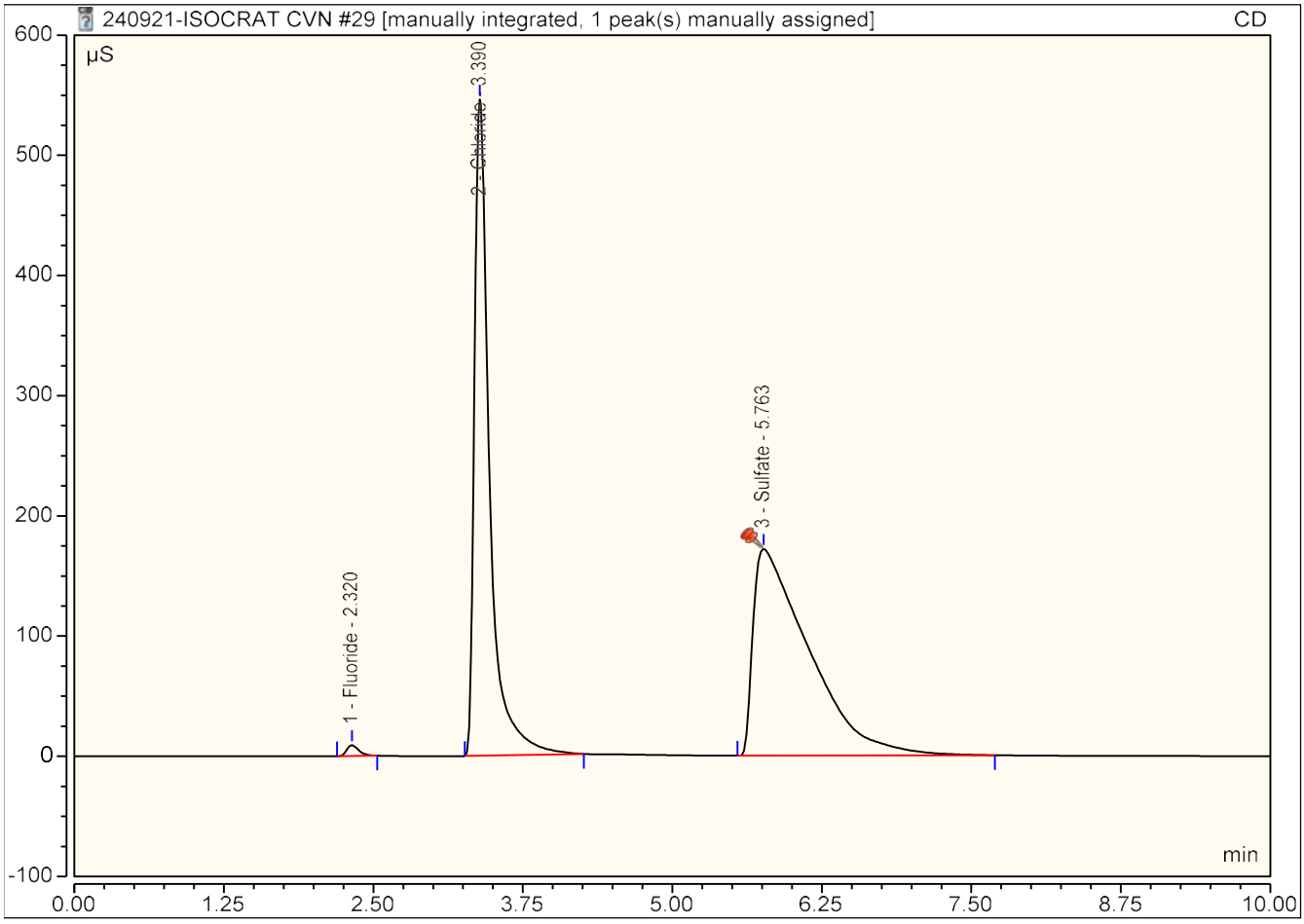
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.020	0.165	0.8150
2	3.41	**Chloride**	BMB*	21.577	158.110	528.8575
3	5.73	**Bromide**	BMB	0.007	0.055	0.9222
4	6.09	**Sulfate**	BMB^	29.104	80.797	1009.0776
TOTAL:				50.71	239.13	1539.67



Peak Integration Report

Sample Name:	**XL2453753-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 12:47**	*Run Time:*	**10.00**

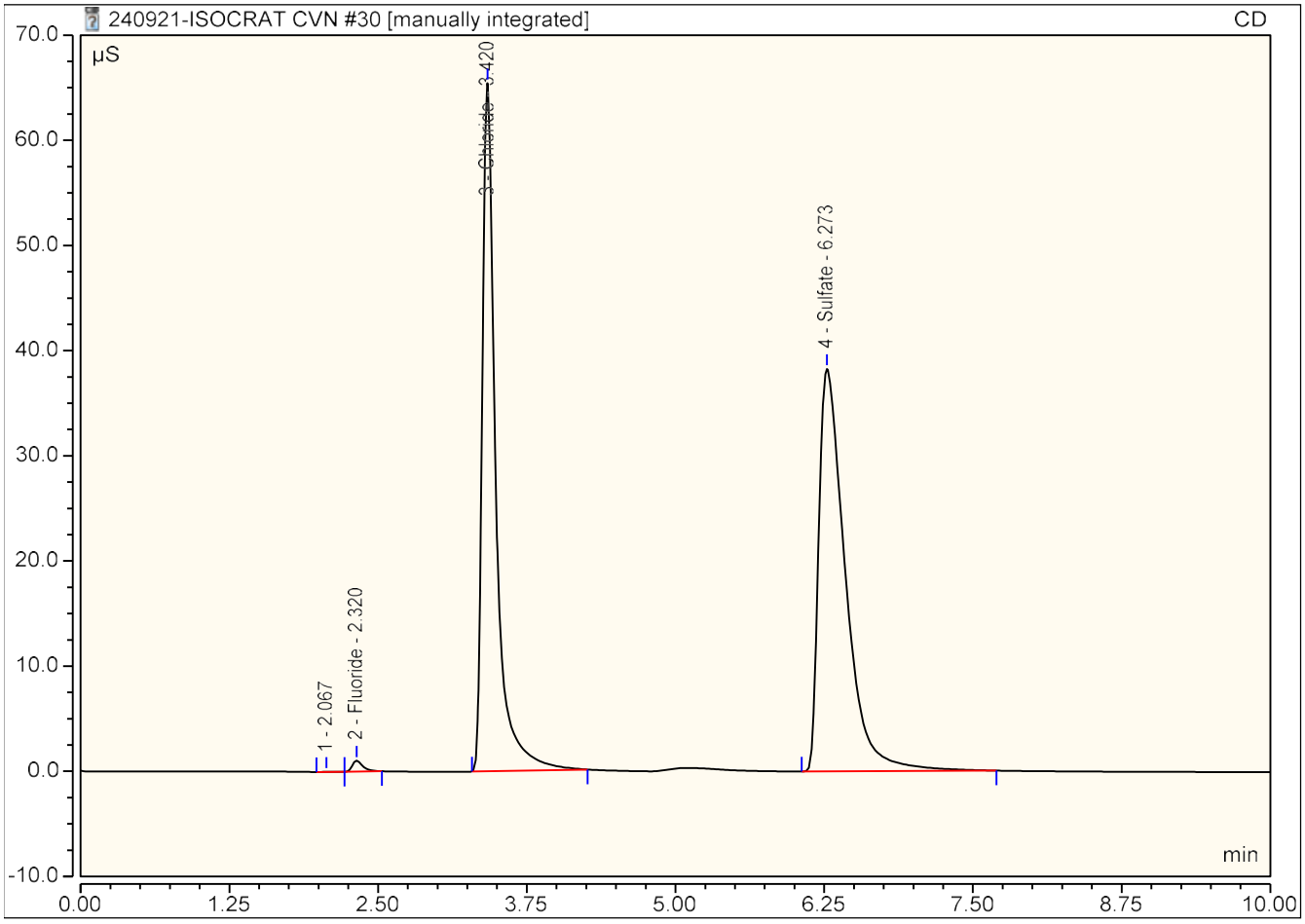
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	1.067	9.172	1.9899
2	3.39	**Chloride**	BMB*	80.139	545.991	195.8643
3	5.76	**Sulfate**	BMB^	92.887	172.157	321.4408
TOTAL:				174.09	727.32	519.29



Peak Integration Report

Sample Name:	**L2453576-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:00**	*Run Time:*	**10.00**

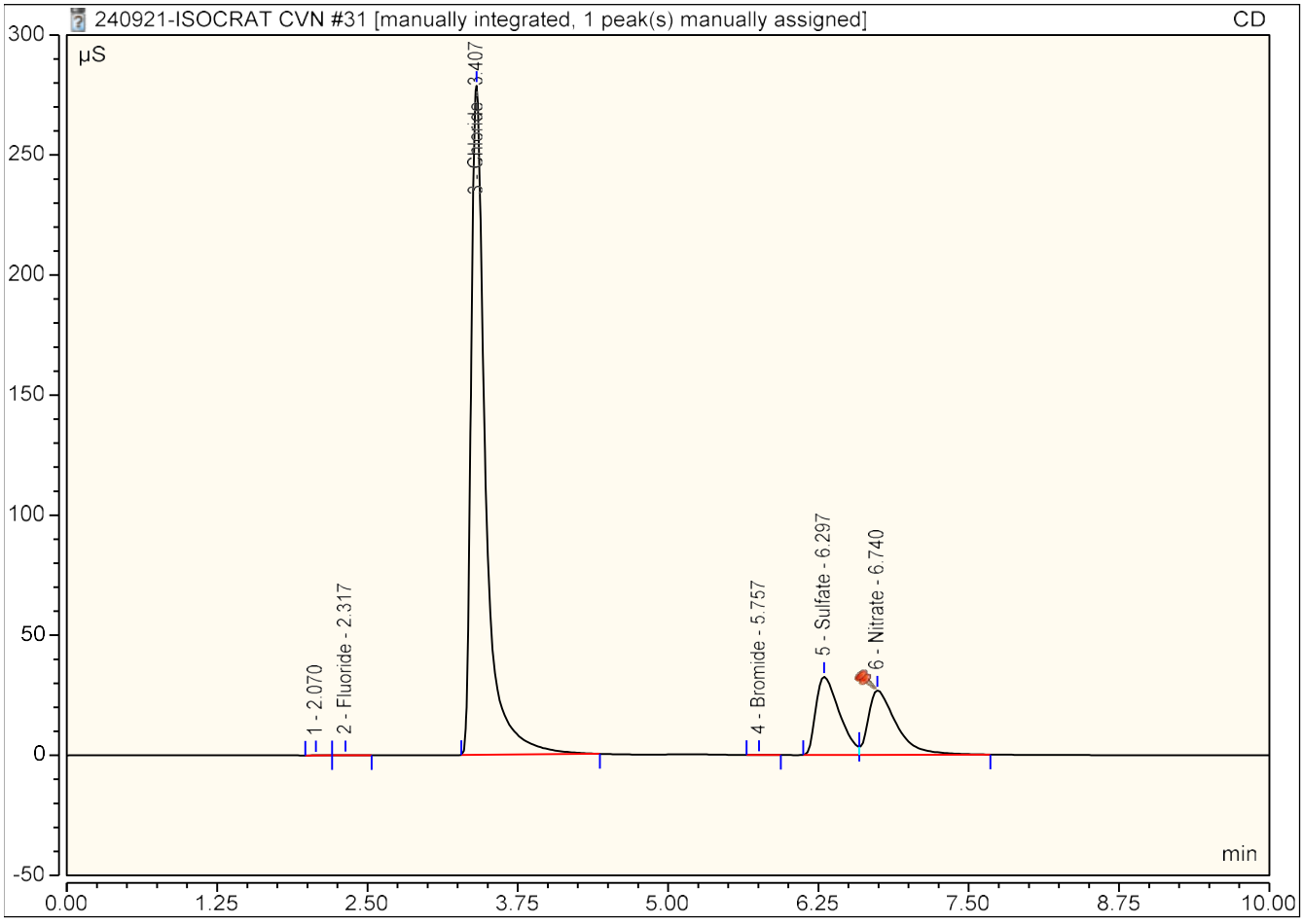
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.106	1.035	2.3795
3	3.42	**Chloride**	BMB*	8.629	65.429	212.7340
4	6.27	**Sulfate**	BMB	9.938	38.286	346.3912
TOTAL:				18.67	104.75	561.50



Peak Integration Report

Sample Name:	**L2453711-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:12**	*Run Time:*	**10.00**

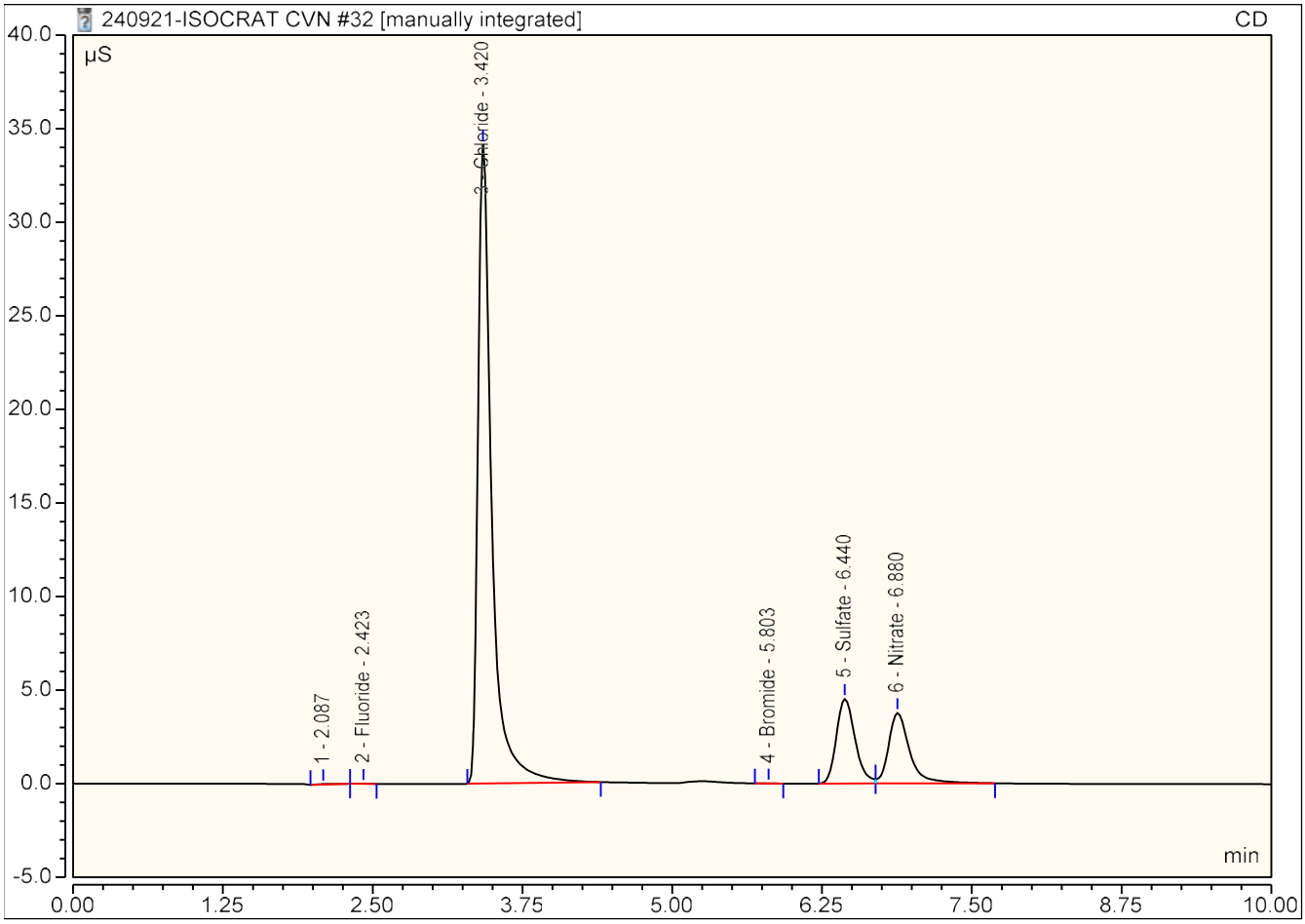
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.005	0.040	0.0531
3	3.41	**Chloride**	BMB*	39.044	278.647	95.5304
4	5.76	**Bromide**	BMB	0.003	0.025	0.0607
5	6.30	**Sulfate**	BM *	7.343	32.514	25.6662
6	6.74	**Nitrate**	MB*^	7.187	26.811	5.6584
TOTAL:				53.58	338.04	126.97



Peak Integration Report

Sample Name:	**L2453711-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:24**	*Run Time:*	**10.00**

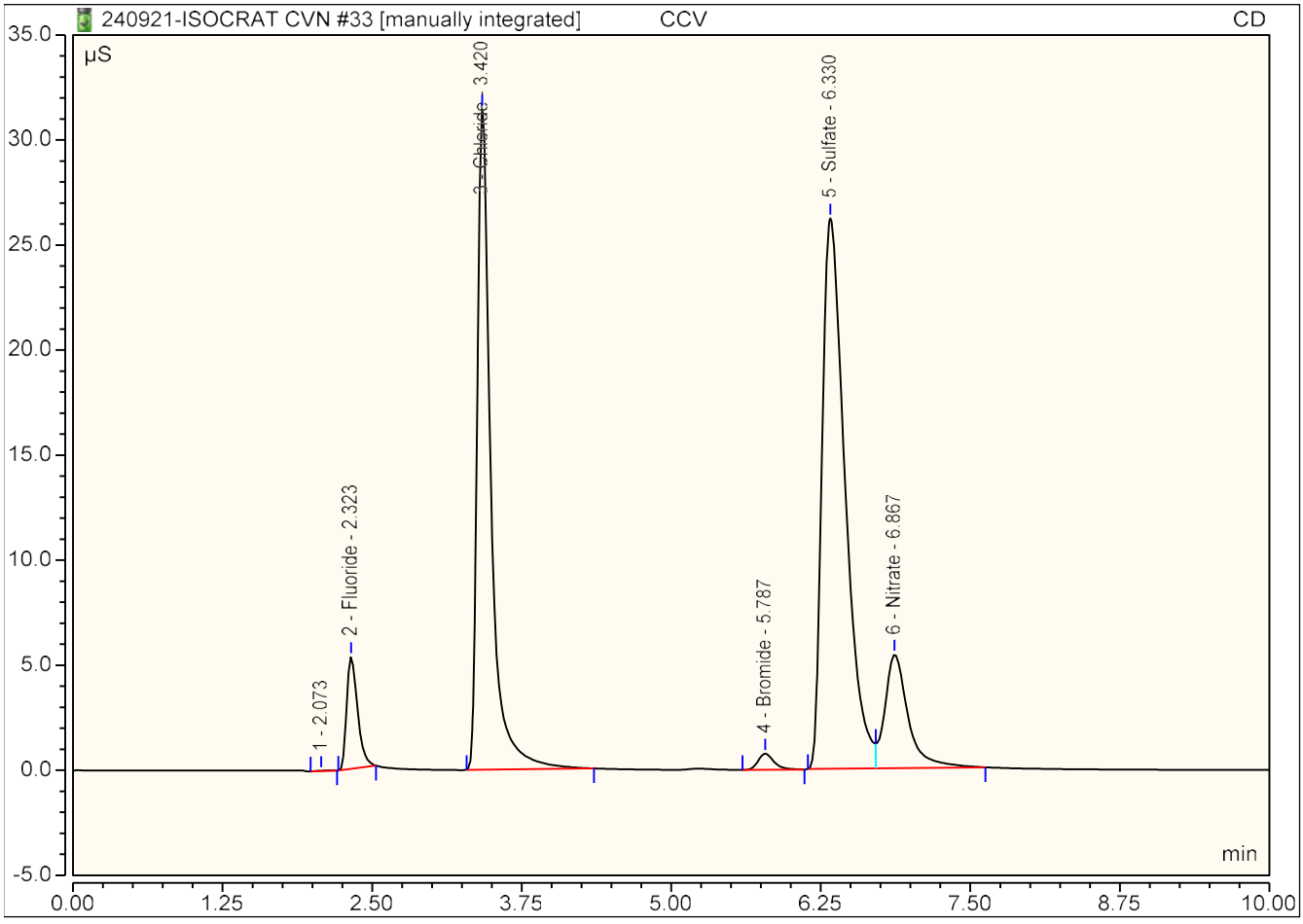
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.001	0.007	0.4568
3	3.42	**Chloride**	BMB*	4.578	34.152	113.8305
4	5.80	**Bromide**	BMB	0.000	0.002	0.3464
5	6.44	**Sulfate**	BM *	0.818	4.529	31.0591
6	6.88	**Nitrate**	MB*	0.769	3.770	6.2764
TOTAL:				6.17	42.46	151.97



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:36**	*Run Time:*	**10.00**

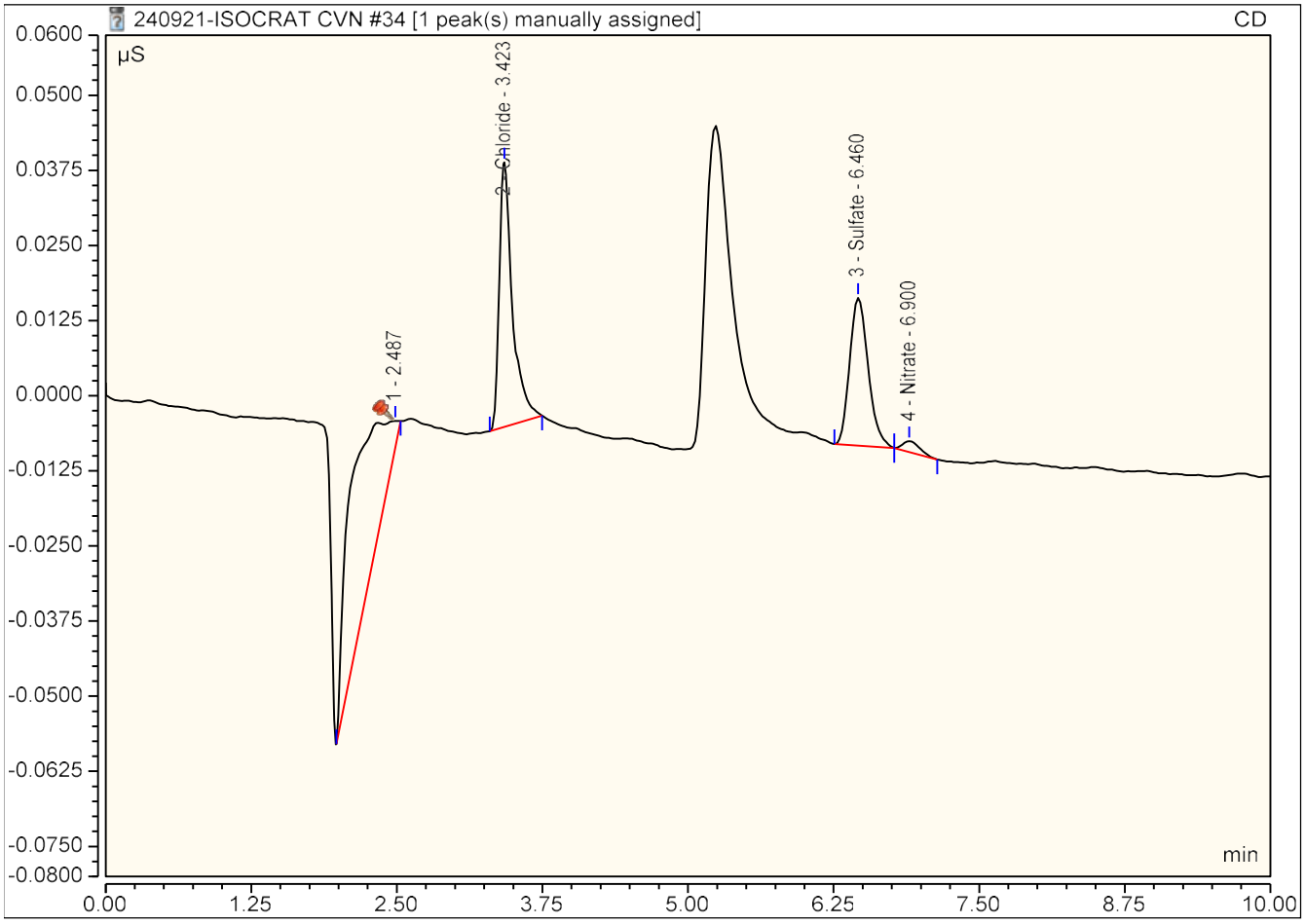
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.560	5.325	1.0661
3	3.42	**Chloride**	BMB*	4.163	31.426	10.3697
4	5.79	**Bromide**	BMB	0.118	0.771	1.0143
5	6.33	**Sulfate**	BM *	5.816	26.193	20.3865
6	6.87	**Nitrate**	MB*	1.221	5.415	0.9824
TOTAL:				11.88	69.13	33.82



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:48**	*Run Time:*	**10.00**

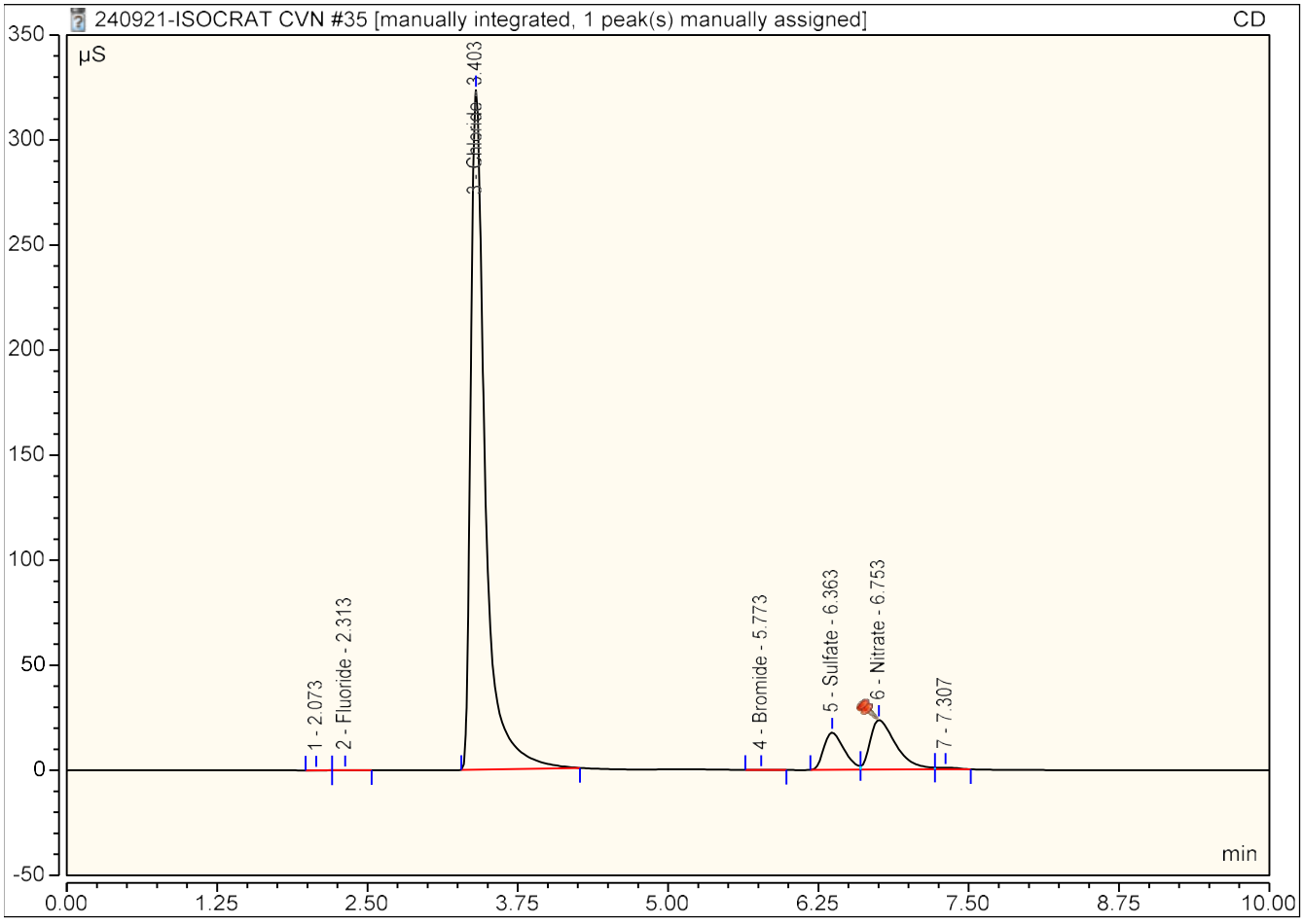
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.006	0.044	0.2196
3	6.46	**Sulfate**	BMB	0.005	0.025	0.2922
4	6.90	**Nitrate**	BMB	0.000	0.002	0.0255
TOTAL:				0.01	0.07	0.54



Peak Integration Report

Sample Name:	**L2453711-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:00**	*Run Time:*	**10.00**

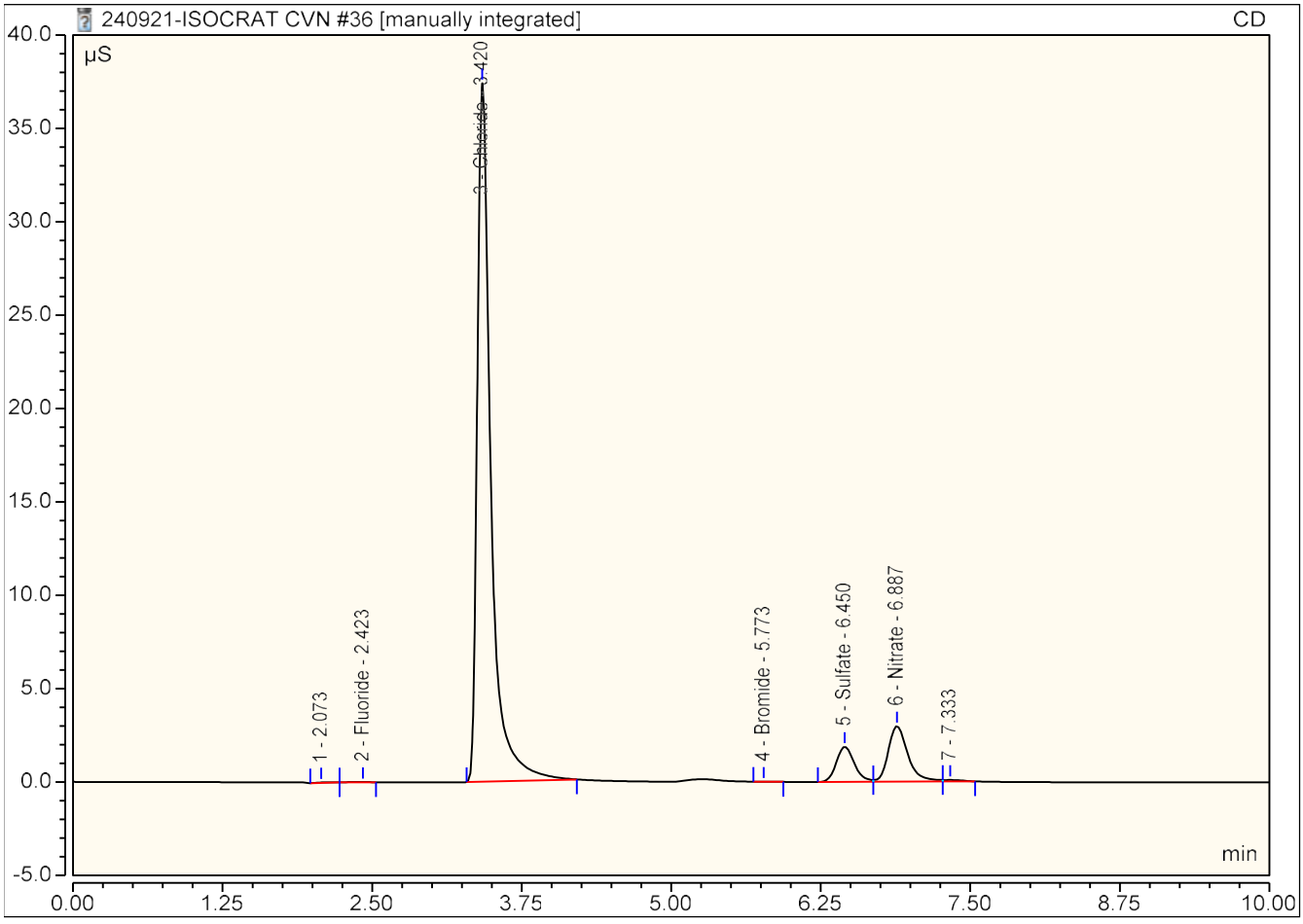
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.008	0.068	0.0588
3	3.40	**Chloride**	BMB*	45.704	323.382	111.7925
4	5.77	**Bromide**	BMB	0.008	0.059	0.1008
5	6.36	**Sulfate**	BM *	3.463	17.724	12.2501
6	6.75	**Nitrate**	M *^	5.858	23.657	4.6169
TOTAL:				55.04	364.89	128.82



Peak Integration Report

Sample Name:	**L2453711-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:12**	*Run Time:*	**10.00**

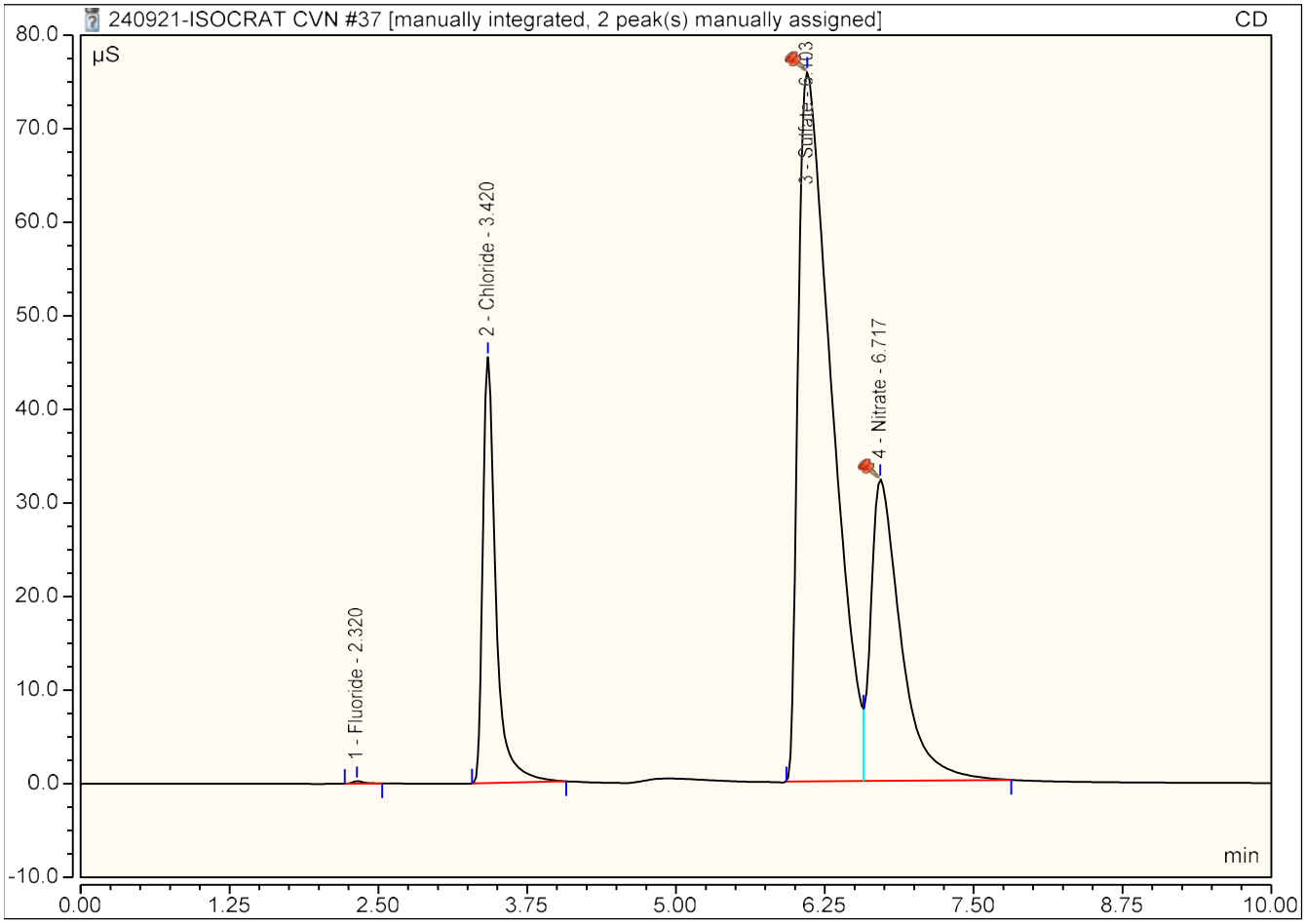
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.002	0.008	0.4737
3	3.42	**Chloride**	BMB*	4.935	37.392	122.5415
4	5.77	**Bromide**	BMB	0.001	0.004	0.3779
5	6.45	**Sulfate**	BM *	0.329	1.881	14.1287
6	6.89	**Nitrate**	M *	0.566	2.965	4.6863
TOTAL:				5.83	42.25	142.21



Peak Integration Report

Sample Name:	**L2453711-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:24**	*Run Time:*	**10.00**

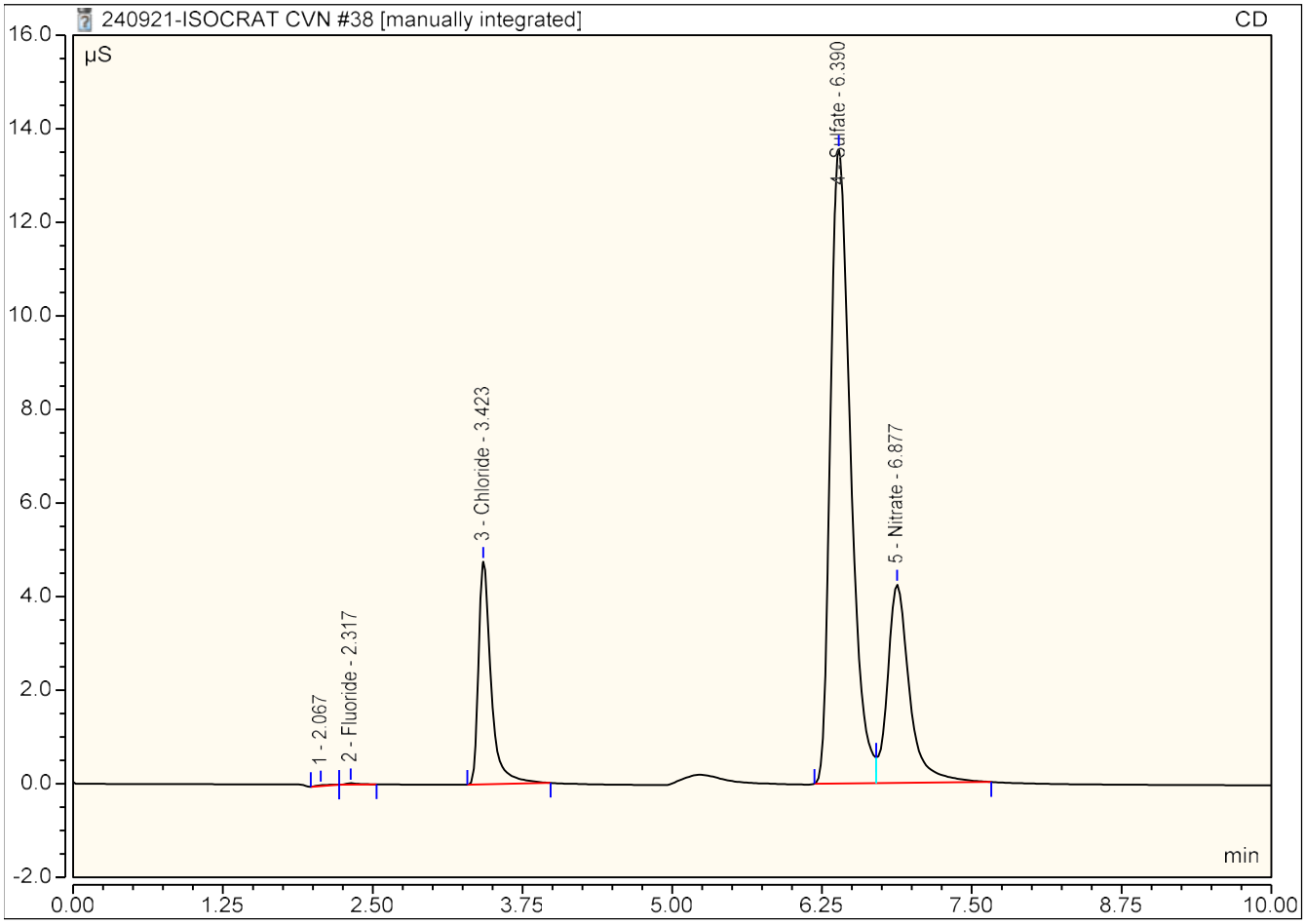
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	0.030	0.270	0.0997
2	3.42	**Chloride**	BMB*	5.815	45.526	14.4029
3	6.10	**Sulfate**	BM *^	24.594	75.819	85.3135
4	6.72	**Nitrate**	MB*^	9.409	32.231	7.4004
TOTAL:				39.85	153.85	107.22



Peak Integration Report

Sample Name:	**XL2453711-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:36**	*Run Time:*	**10.00**

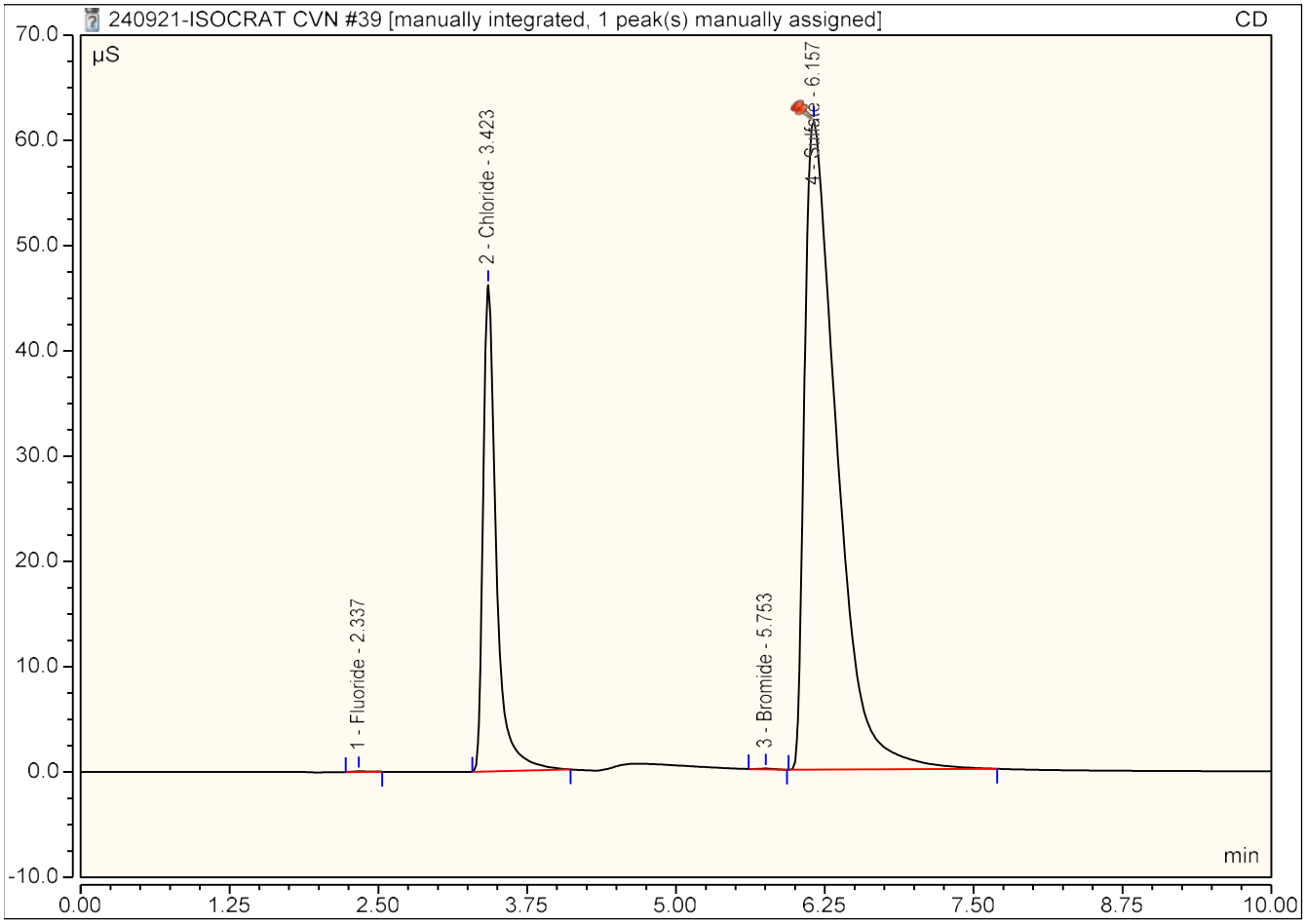
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.004	0.028	0.5094
3	3.42	**Chloride**	BMB*	0.581	4.760	16.2518
4	6.39	**Sulfate**	BM *	2.639	13.546	94.0024
5	6.88	**Nitrate**	MB*	0.902	4.245	7.3193
TOTAL:				4.13	22.58	118.08



Peak Integration Report

Sample Name:	**L2453711-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:48**	*Run Time:*	**10.00**

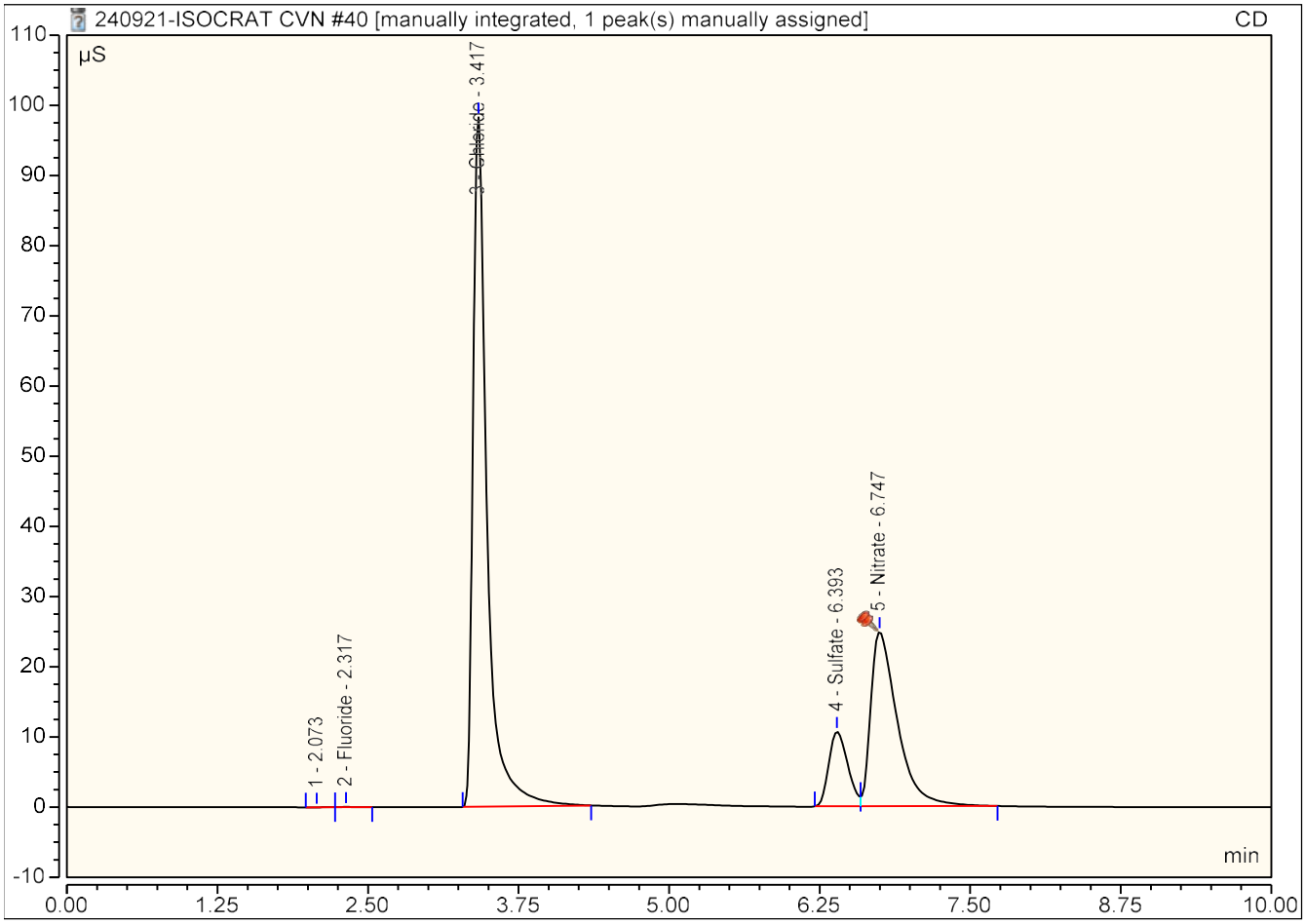
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.34	**Fluoride**	BMB	0.010	0.068	0.0622
2	3.42	**Chloride**	BMB*	5.982	46.208	14.8105
3	5.75	**Bromide**	BMB	0.011	0.075	0.1214
4	6.16	**Sulfate**	BMB^	19.333	61.660	67.1231
TOTAL:				25.34	108.01	82.12



Peak Integration Report

Sample Name:	**L2453711-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:00**	*Run Time:*	**10.00**

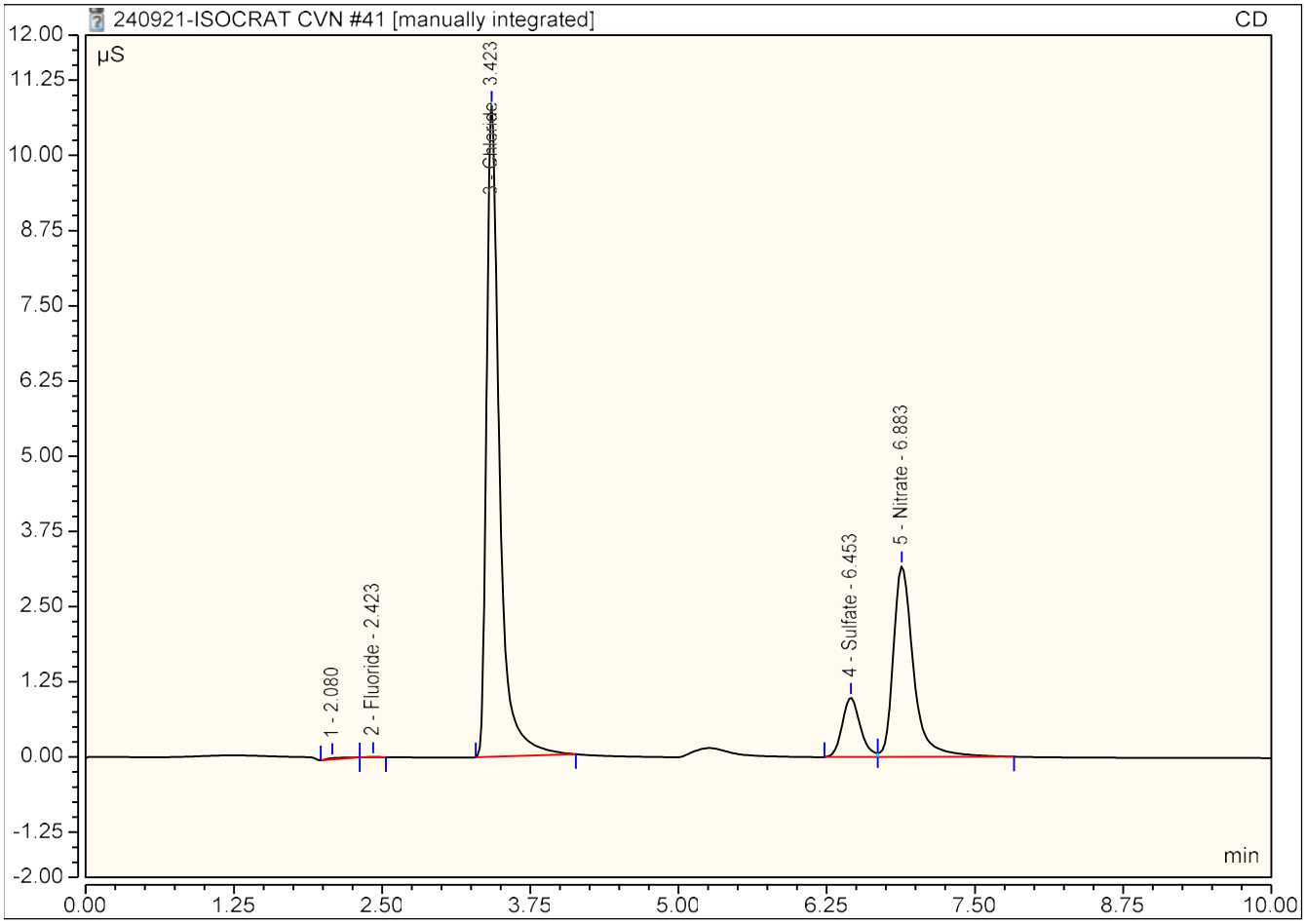
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.006	0.052	0.0557
3	3.42	**Chloride**	BMB*	13.223	98.235	32.4902
4	6.39	**Sulfate**	BM *	1.932	10.632	6.9555
5	6.75	**Nitrate**	MB*^	6.350	24.834	5.0024
TOTAL:				21.51	133.75	44.50



Peak Integration Report

Sample Name:	**XL2453711-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:12**	*Run Time:*	**10.00**

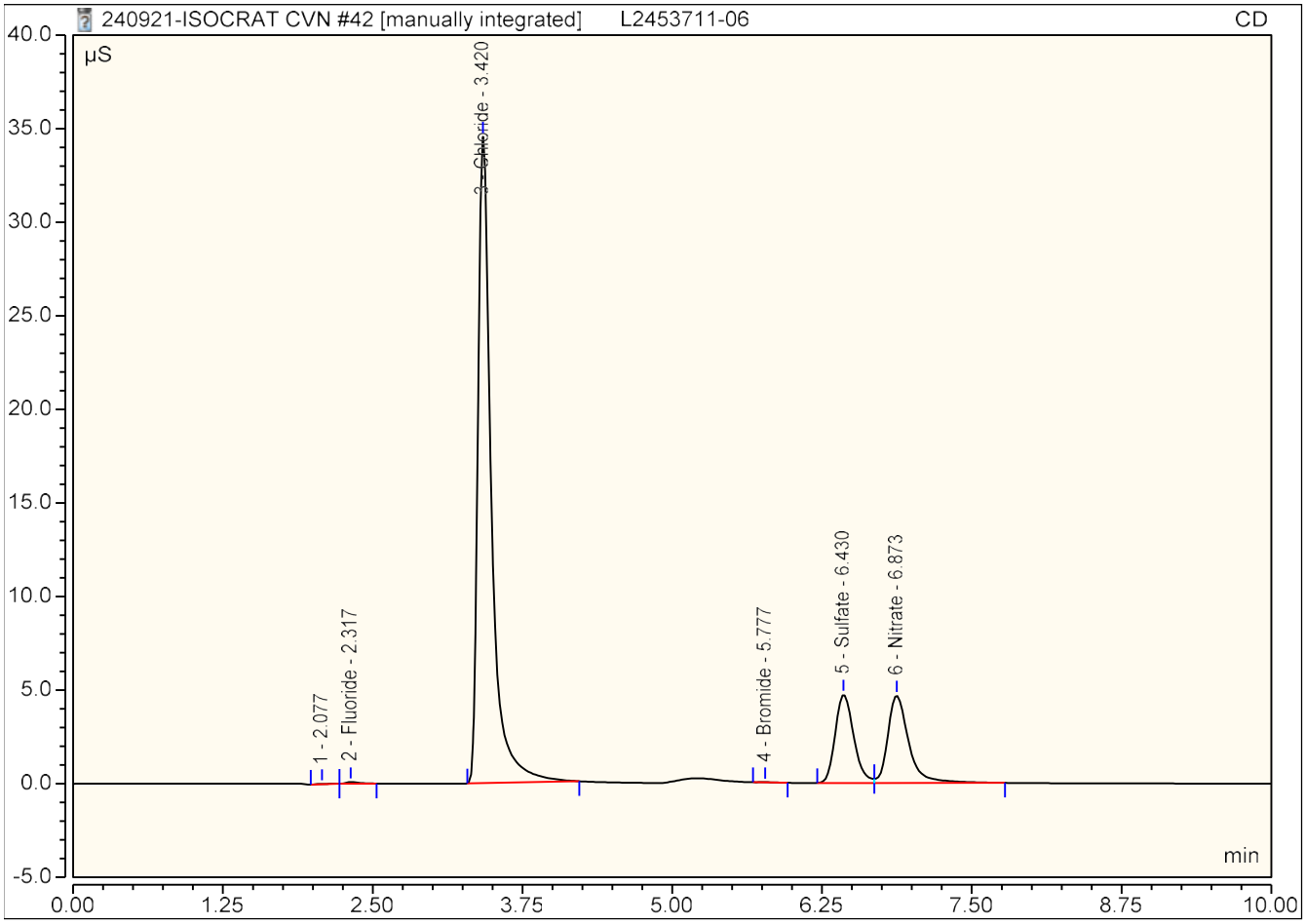
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.001	0.006	0.4551
3	3.42	**Chloride**	BMB*	1.375	10.825	35.6170
4	6.45	**Sulfate**	BM *	0.173	0.986	8.7479
5	6.88	**Nitrate**	MB*	0.625	3.173	5.1529
TOTAL:				2.17	14.99	49.97



Peak Integration Report

Sample Name:	**L2453711-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:25**	*Run Time:*	**10.00**

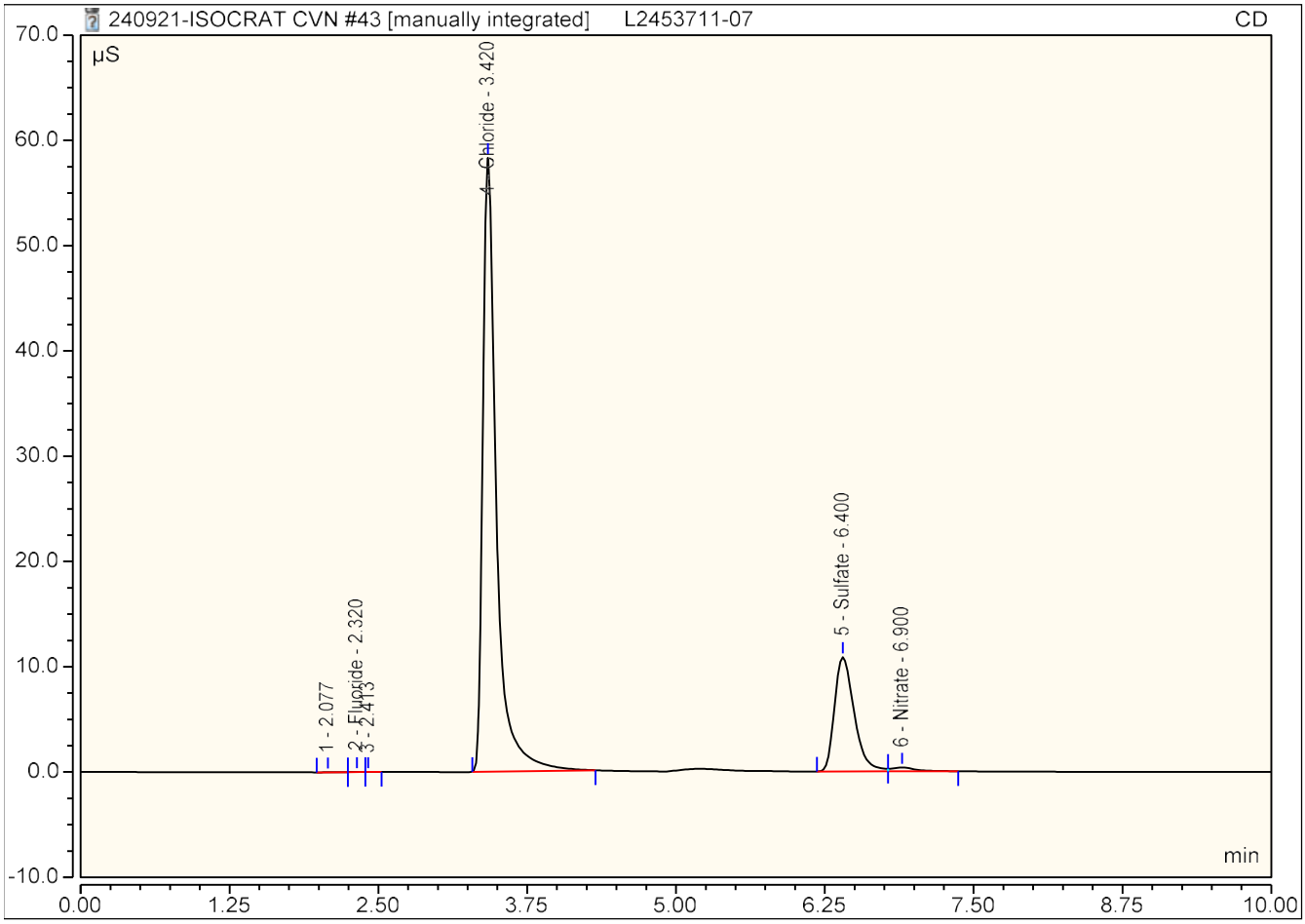
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.010	0.089	0.0632
3	3.42	**Chloride**	BMB*	4.519	34.538	11.2378
4	5.78	**Bromide**	BMB	0.002	0.014	0.0487
5	6.43	**Sulfate**	BM *	0.846	4.726	3.2001
6	6.87	**Nitrate**	MB*	0.944	4.669	0.7648
TOTAL:				6.32	44.04	15.31



Peak Integration Report

Sample Name:	**L2453711-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:37**	*Run Time:*	**10.00**

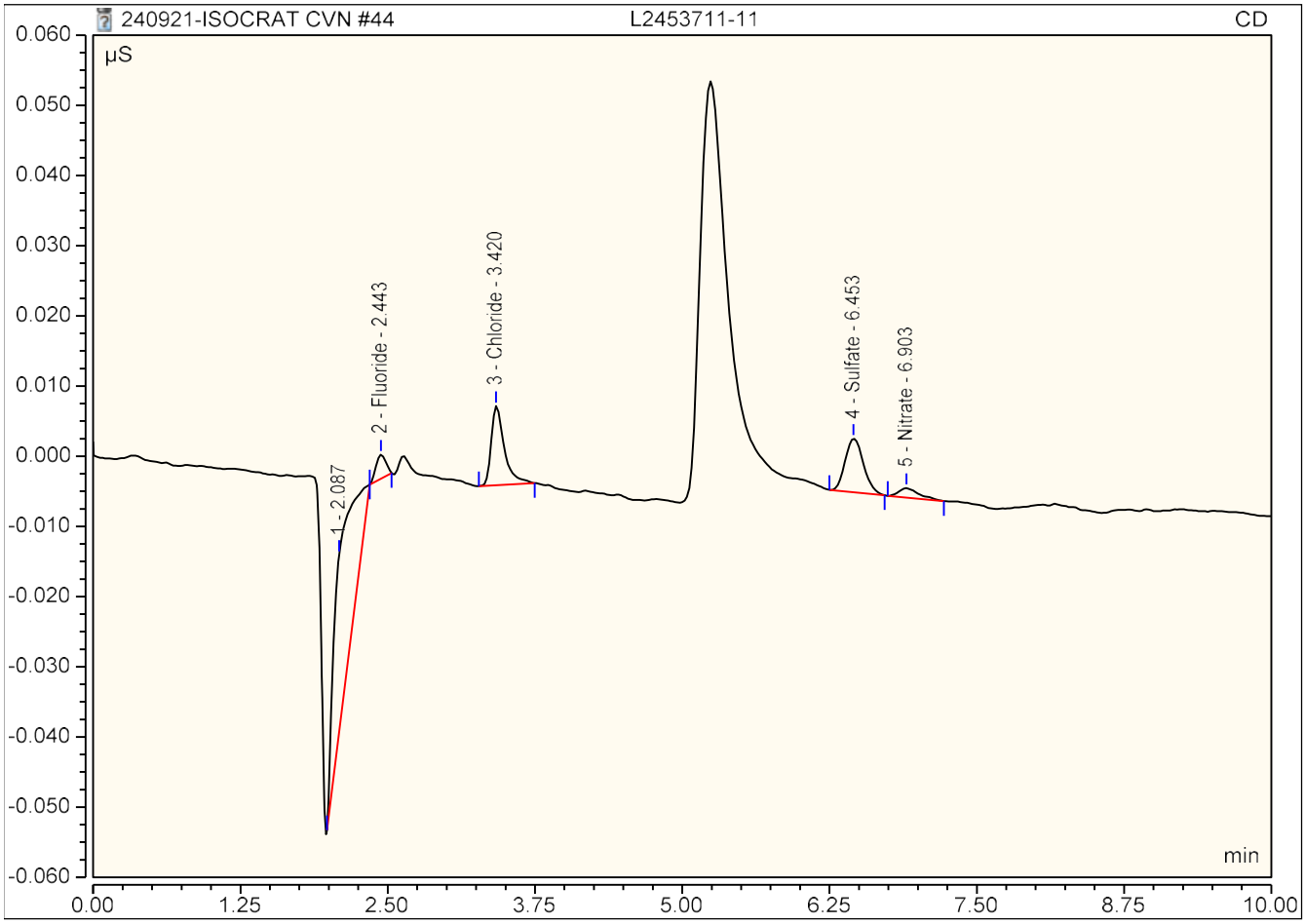
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.017	0.0468
4	3.42	**Chloride**	BMB*	7.762	58.297	19.1561
5	6.40	**Sulfate**	BM *	2.083	10.876	7.4773
6	6.90	**Nitrate**	MB*	0.088	0.374	0.0941
TOTAL:				9.93	69.56	26.77



Peak Integration Report

Sample Name:	**L2453711-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:49**	*Run Time:*	**10.00**

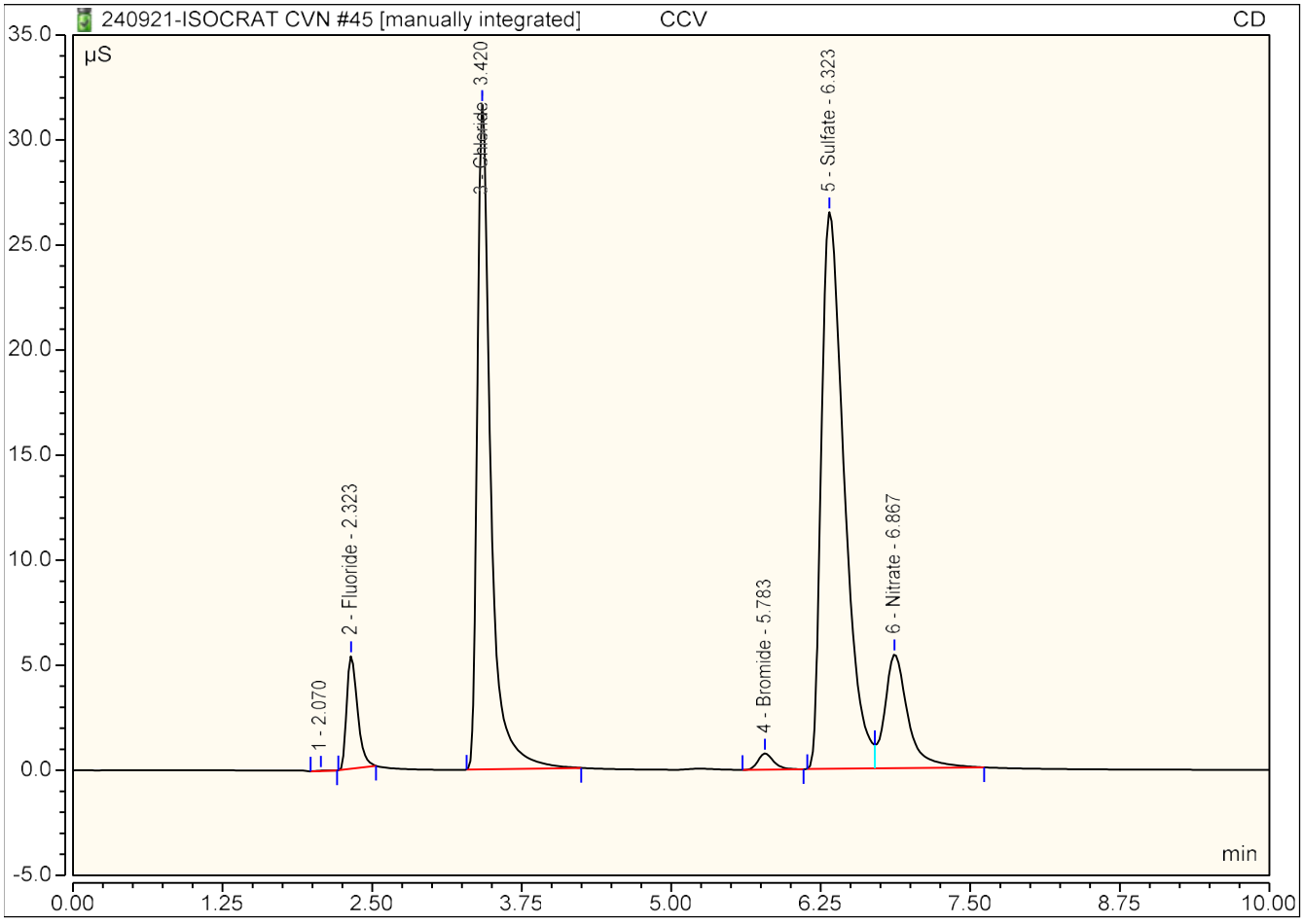
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.44	**Fluoride**	BMB	0.000	0.003	0.0451
3	3.42	**Chloride**	BMB	0.001	0.011	0.2092
4	6.45	**Sulfate**	BMB	0.001	0.008	0.2813
5	6.90	**Nitrate**	BMB	0.000	0.001	0.0255
TOTAL:				0.00	0.02	0.56



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:01**	*Run Time:*	**10.00**

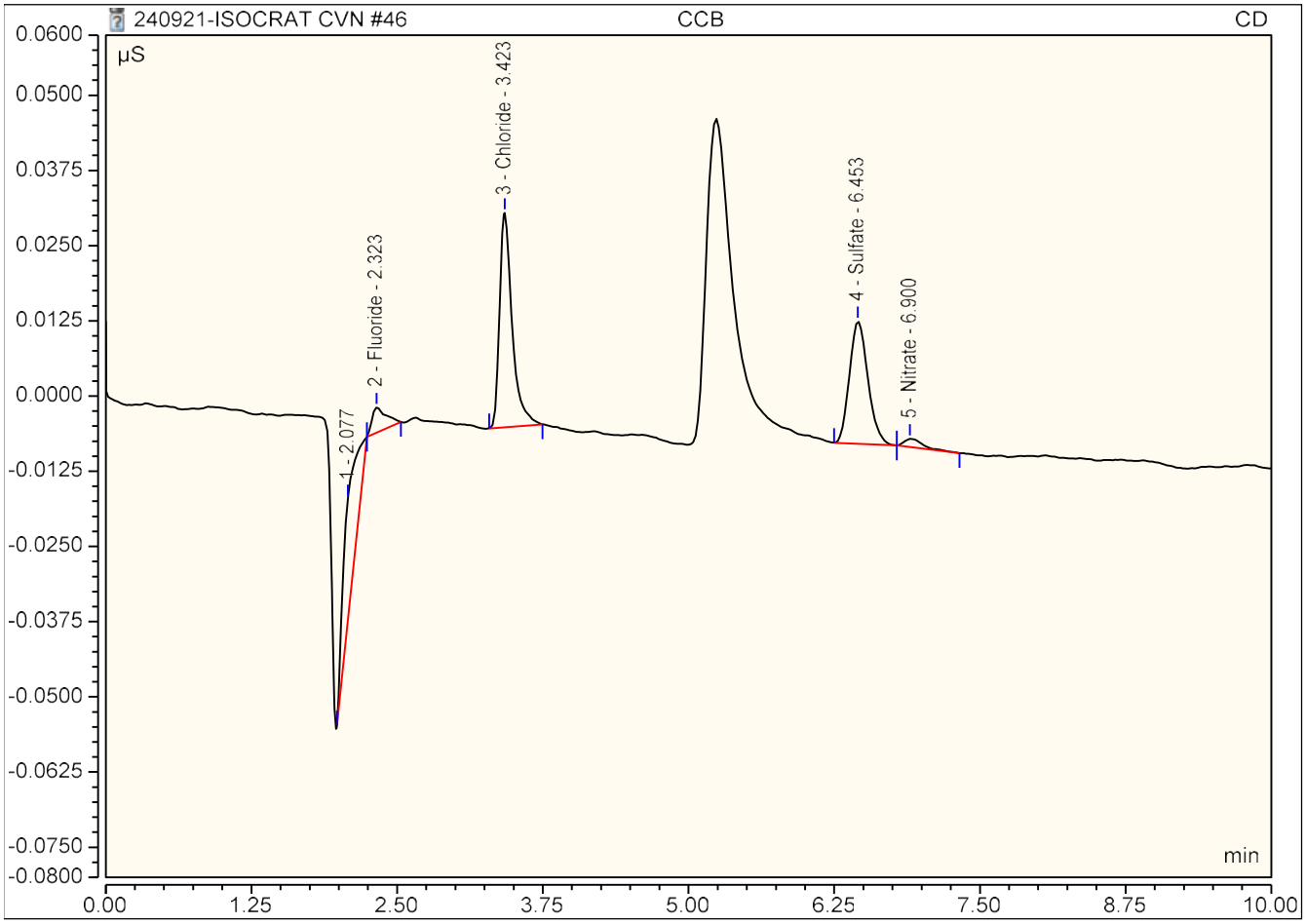
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.561	5.370	1.0681
3	3.42	**Chloride**	BMB*	4.151	31.639	10.3405
4	5.78	**Bromide**	BMB	0.118	0.771	1.0148
5	6.32	**Sulfate**	BM *	5.856	26.486	20.5258
6	6.87	**Nitrate**	MB*	1.217	5.423	0.9790
TOTAL:				11.90	69.69	33.93



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:13**	*Run Time:*	**10.00**

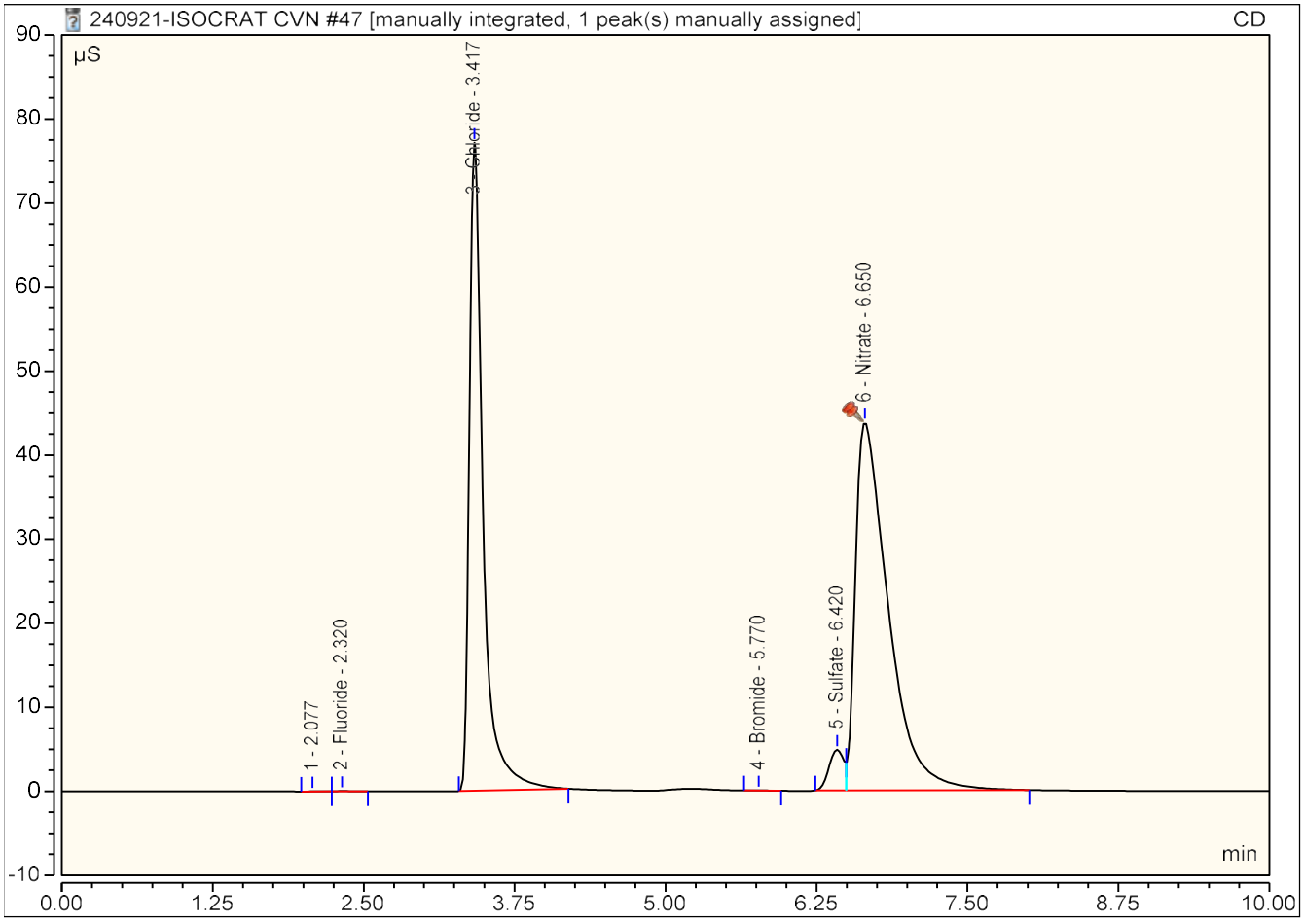
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.004	0.0455
3	3.42	**Chloride**	BMB	0.004	0.036	0.2164
4	6.45	**Sulfate**	BMB	0.004	0.020	0.2895
5	6.90	**Nitrate**	BMB	0.000	0.001	0.0254
TOTAL:				0.01	0.06	0.58



Peak Integration Report

Sample Name:	**L2453711-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:25**	*Run Time:*	**10.00**

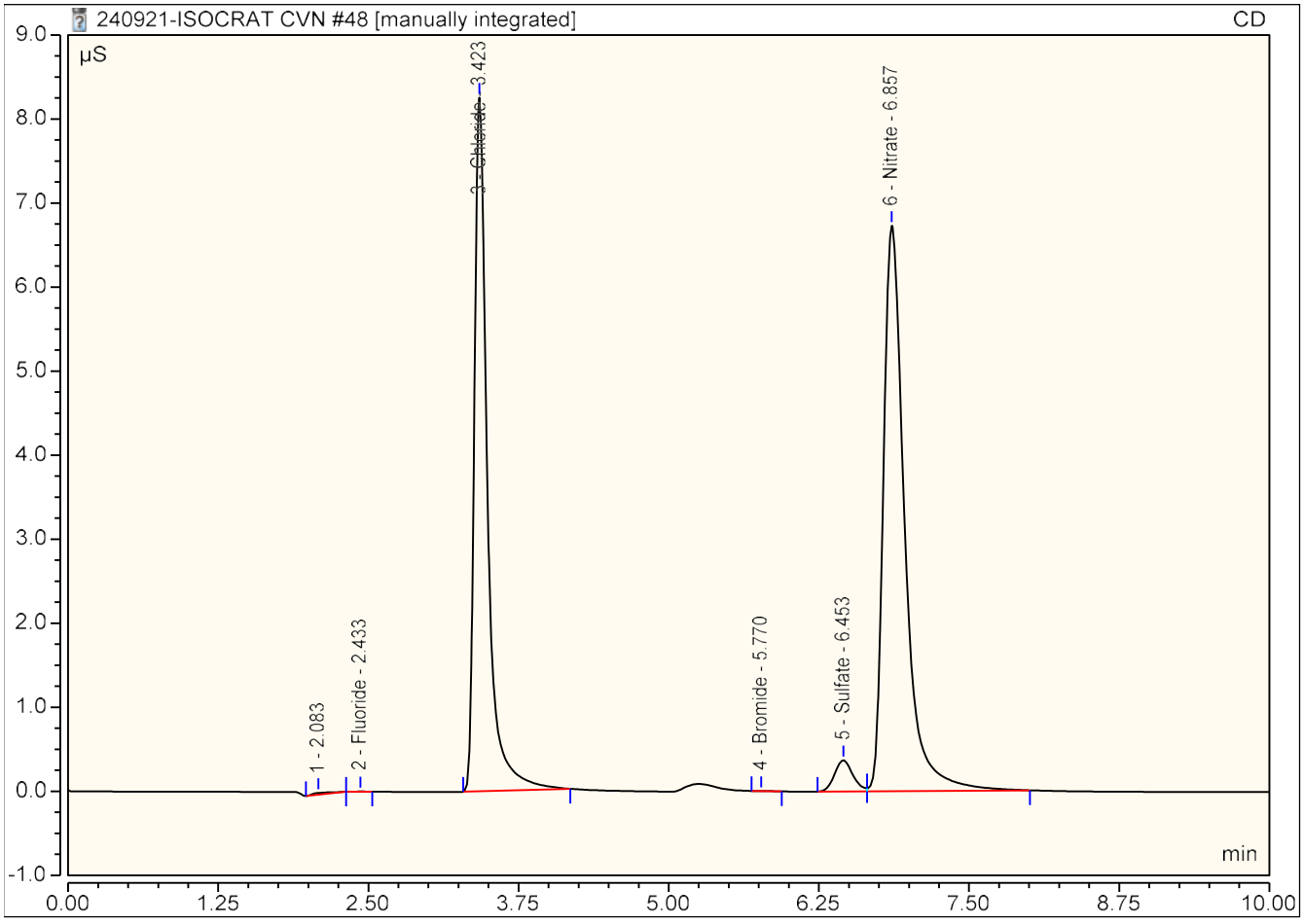
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.004	0.031	0.0516
3	3.42	**Chloride**	BMB*	10.187	77.110	25.0773
4	5.77	**Bromide**	BMB	0.004	0.028	0.0642
5	6.42	**Sulfate**	BM *	0.687	4.845	2.6517
6	6.65	**Nitrate**	MB*^	13.777	43.813	10.8239
TOTAL:				24.66	125.83	38.67



Peak Integration Report

Sample Name:	**XL2458711-08; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:37**	*Run Time:*	**10.00**

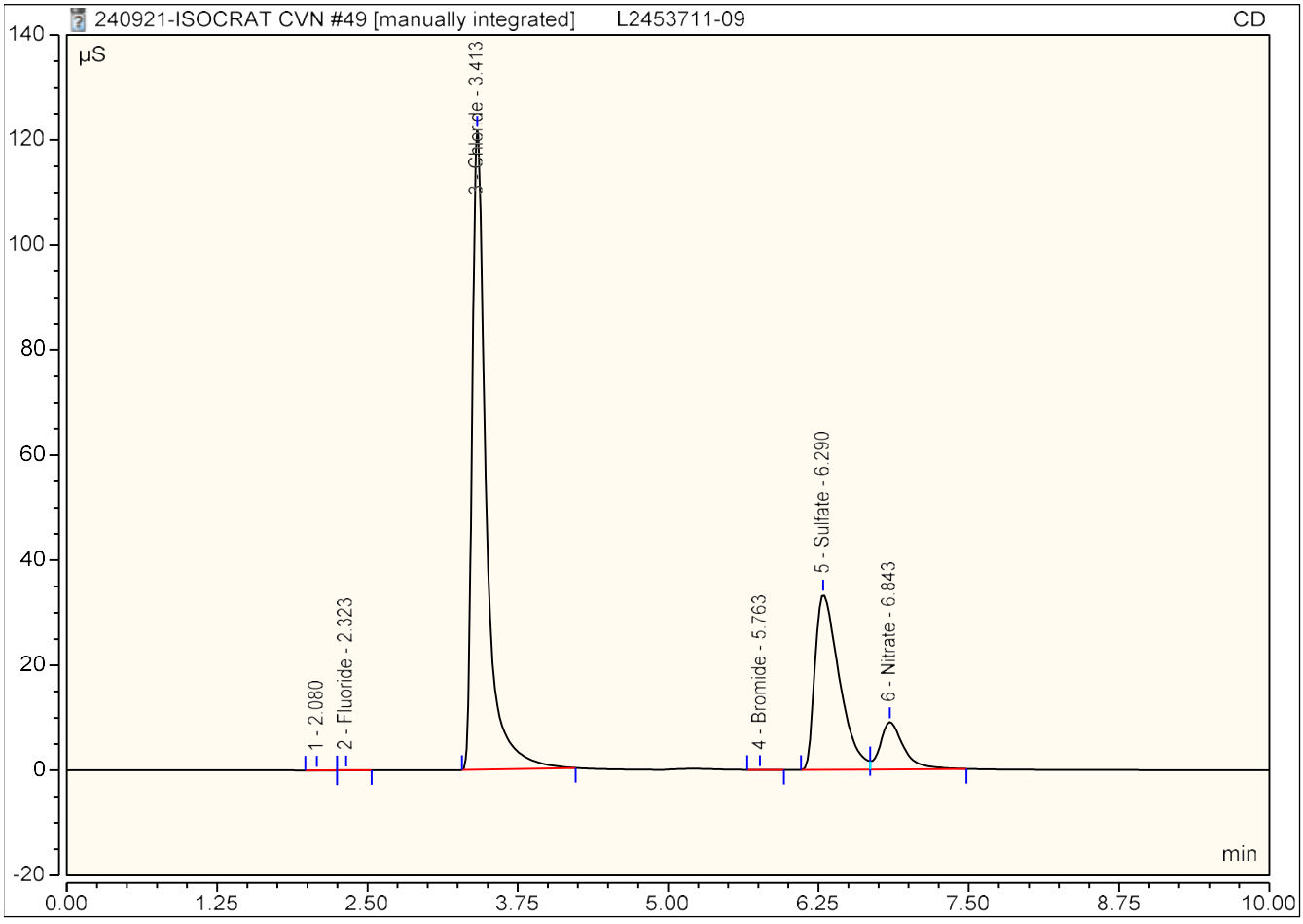
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.43	**Fluoride**	BMB	0.000	0.004	0.4517
3	3.42	**Chloride**	BMB*	1.039	8.256	27.4128
4	5.77	**Bromide**	BMB	0.000	0.002	0.3510
5	6.45	**Sulfate**	BM *	0.065	0.371	5.0167
6	6.86	**Nitrate**	MB*	1.383	6.727	11.0942
TOTAL:				2.49	15.36	44.33



Peak Integration Report

Sample Name:	**L2453711-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:49**	*Run Time:*	**10.00**

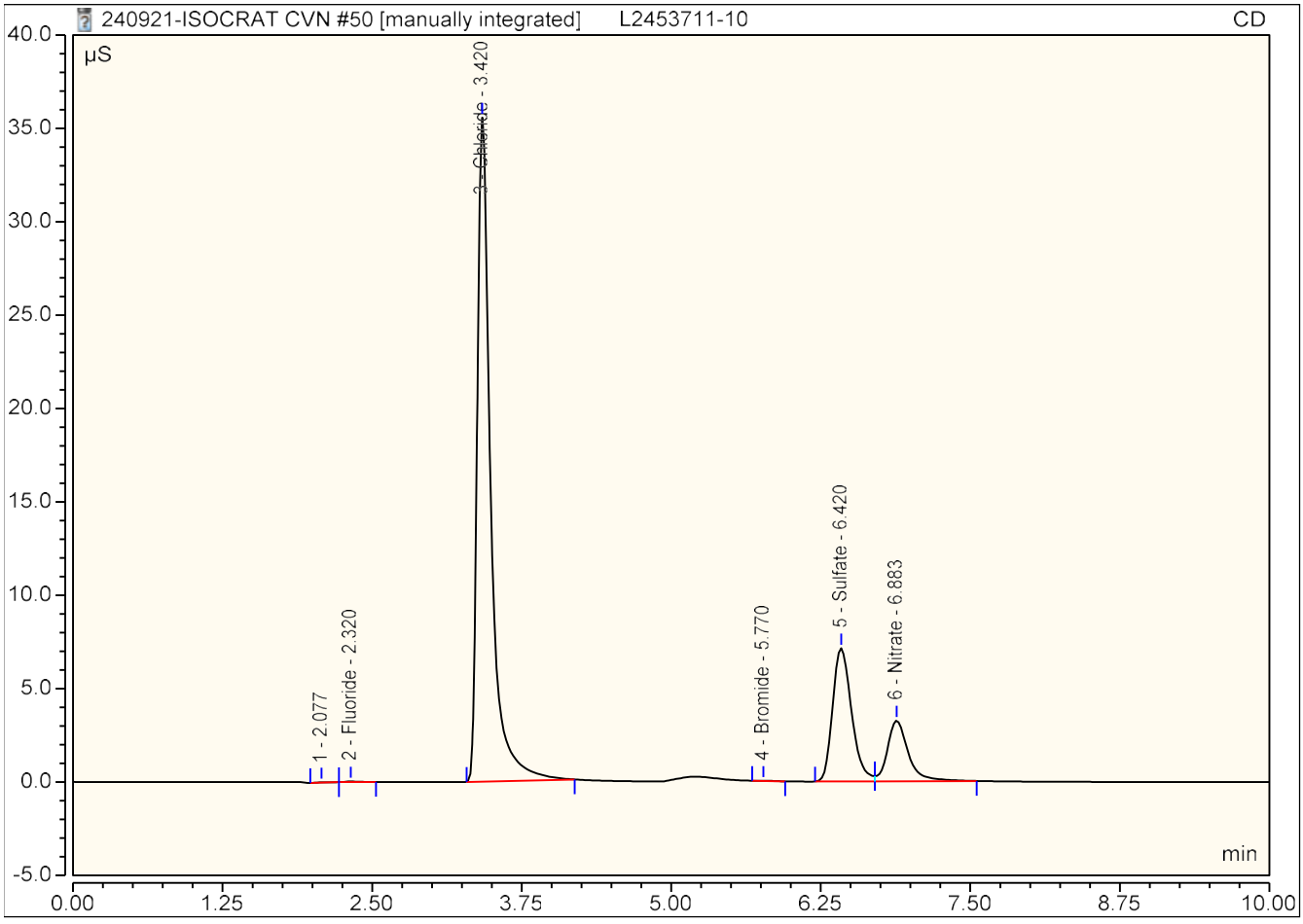
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.003	0.018	0.0491
3	3.41	**Chloride**	BMB*	16.502	121.696	40.4946
4	5.76	**Bromide**	BMB	0.003	0.020	0.0554
5	6.29	**Sulfate**	BM *	7.838	33.375	27.3762
6	6.84	**Nitrate**	MB*	2.024	9.009	1.6118
TOTAL:				26.37	164.12	69.59



Peak Integration Report

Sample Name:	**L2453711-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:01**	*Run Time:*	**10.00**

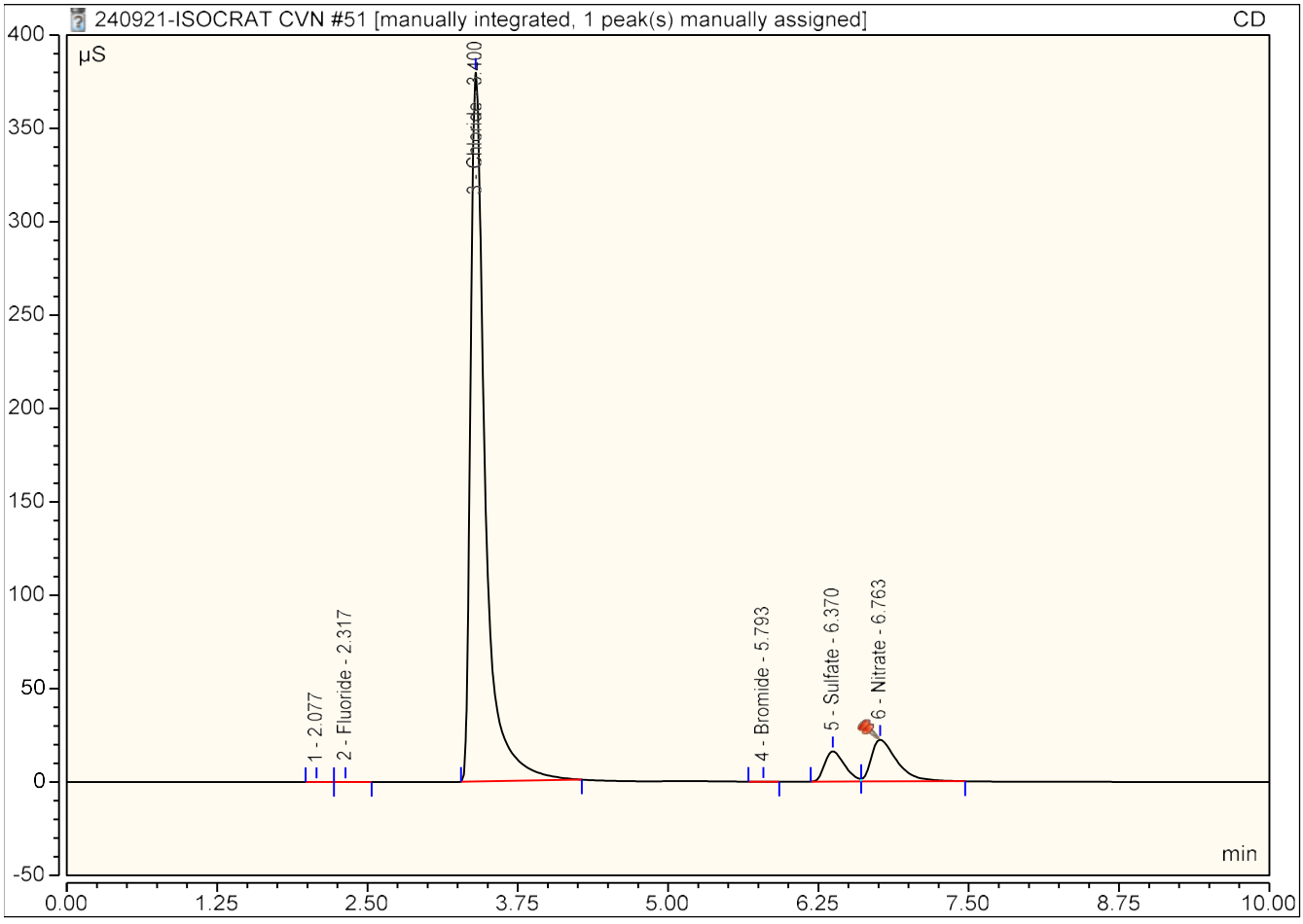
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.005	0.039	0.0531
3	3.42	**Chloride**	BMB*	4.630	35.553	11.5105
4	5.77	**Bromide**	BMB	0.002	0.012	0.0465
5	6.42	**Sulfate**	BM *	1.310	7.124	4.8070
6	6.88	**Nitrate**	MB*	0.653	3.248	0.5372
TOTAL:				6.60	45.97	16.95



Peak Integration Report

Sample Name:	**L2454059-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:13**	*Run Time:*	**10.00**

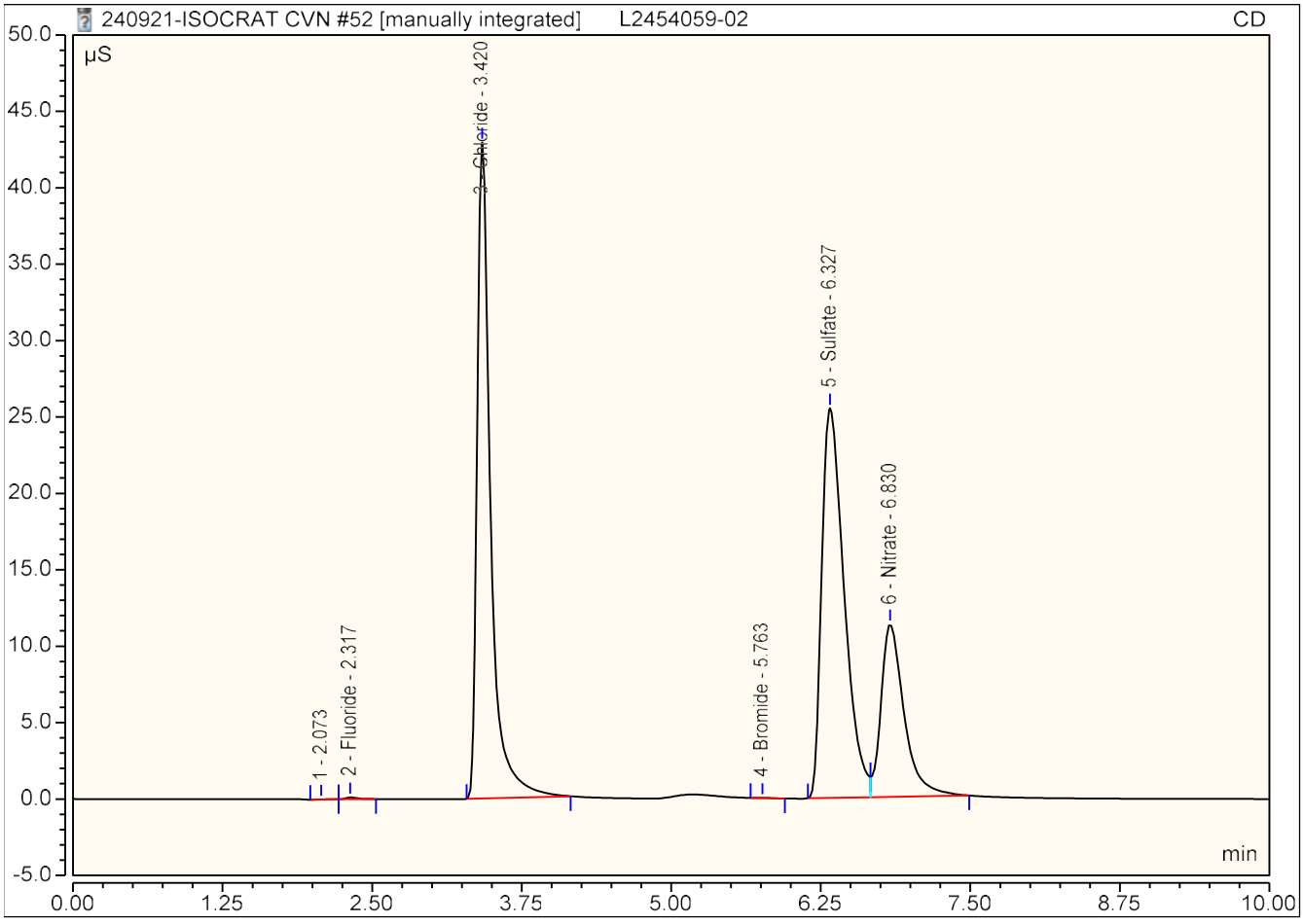
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.007	0.060	0.0573
3	3.40	**Chloride**	BMB*	53.888	379.553	131.7729
4	5.79	**Bromide**	BMB	0.002	0.013	0.0459
5	6.37	**Sulfate**	BM *	3.120	16.248	11.0644
6	6.76	**Nitrate**	MB*^	5.508	22.345	4.3424
TOTAL:				62.52	418.22	147.28



Peak Integration Report

Sample Name:	**L2454059-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:25**	*Run Time:*	**10.00**

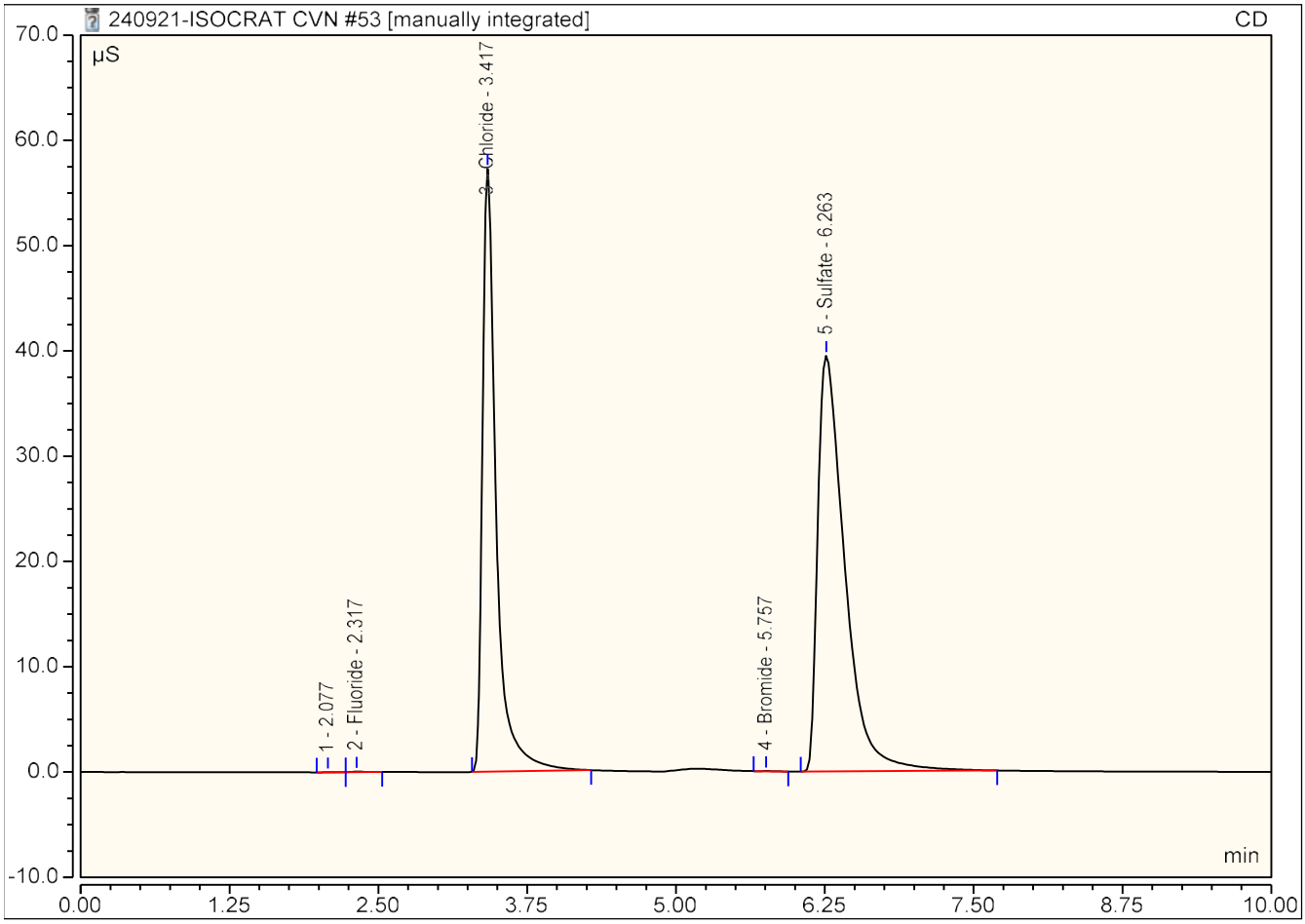
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.014	0.120	0.0691
3	3.42	**Chloride**	BMB*	5.623	42.943	13.9337
4	5.76	**Bromide**	BMB	0.002	0.016	0.0510
5	6.33	**Sulfate**	BM *	5.528	25.488	19.3908
6	6.83	**Nitrate**	MB*	2.528	11.295	2.0065
TOTAL:				13.69	79.86	35.45



Peak Integration Report

Sample Name:	**L2453576-06; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:38**	*Run Time:*	**10.00**

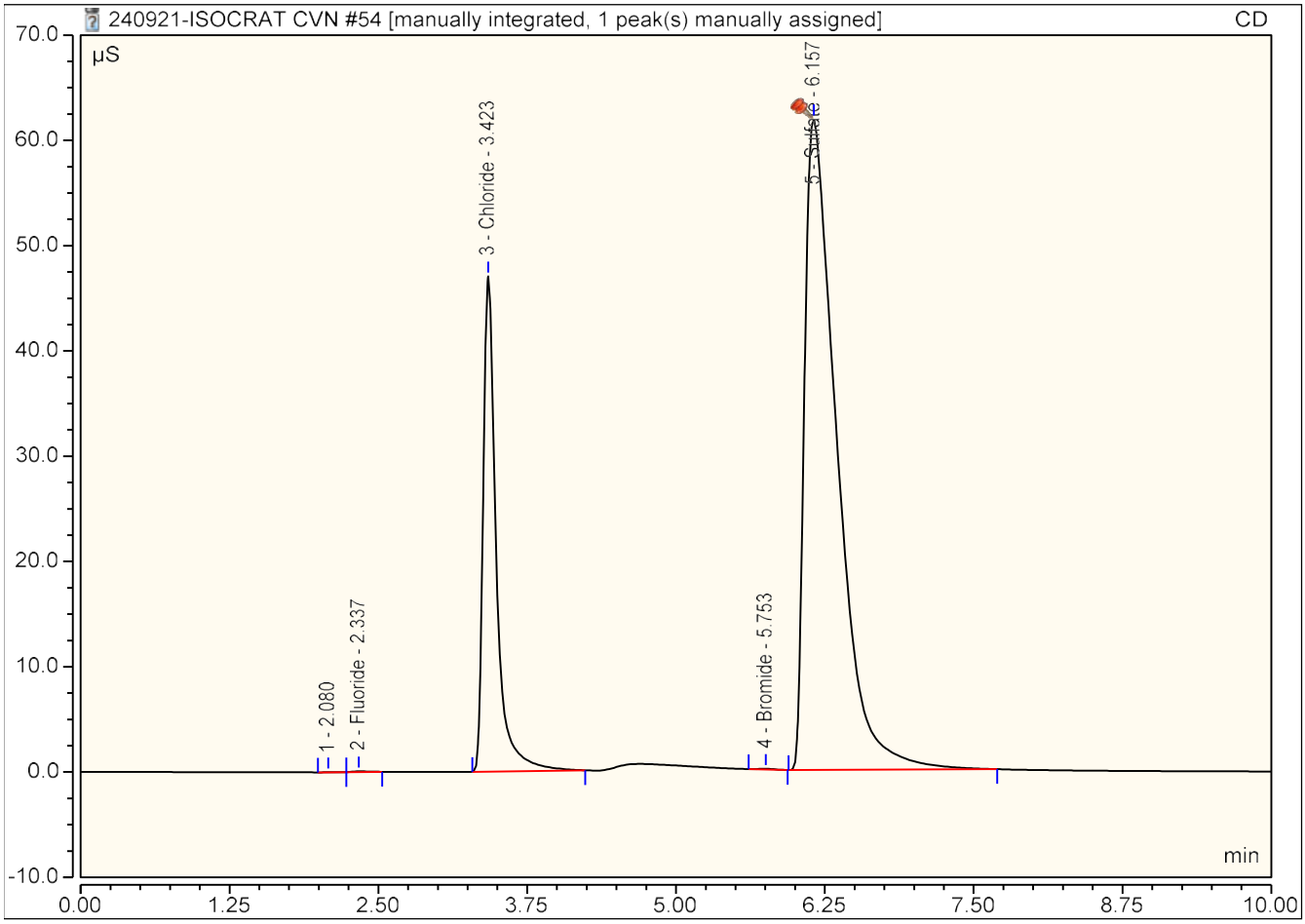
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.006	0.052	1.3991
3	3.42	**Chloride**	BMB*	7.682	57.284	474.0460
4	5.76	**Bromide**	BMB	0.002	0.016	1.2834
5	6.26	**Sulfate**	BMB	10.412	39.480	906.9088
TOTAL:				18.10	96.83	1383.64



Peak Integration Report

Sample Name:	**L2453711-04 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:50**	*Run Time:*	**10.00**

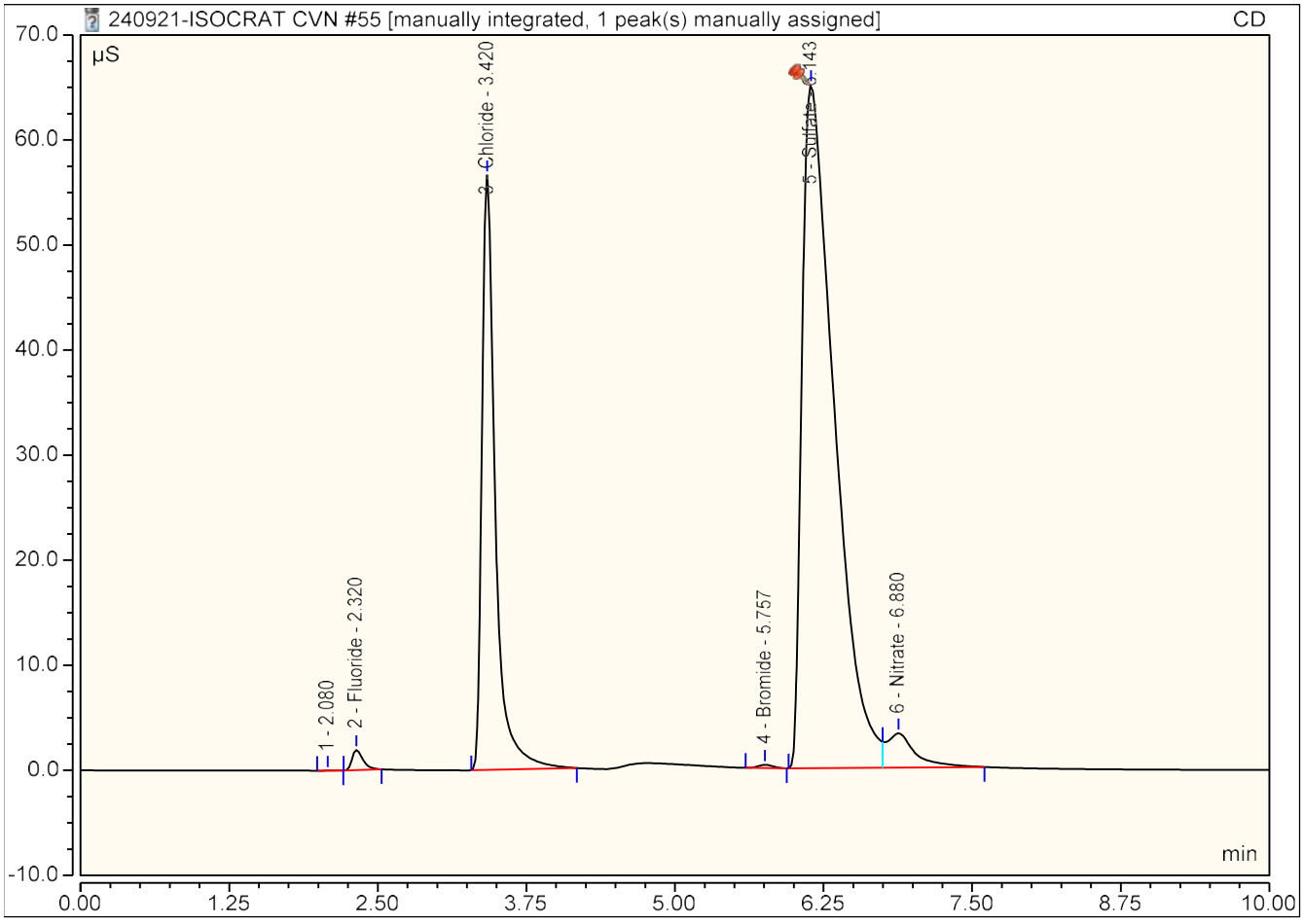
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.010	0.069	0.0622
3	3.42	**Chloride**	BMB*	6.035	47.053	14.9410
4	5.75	**Bromide**	BMB	0.011	0.076	0.1228
5	6.16	**Sulfate**	BMB^	19.394	61.816	67.3339
TOTAL:				25.45	109.01	82.46



Peak Integration Report

Sample Name:	**L2453711-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:02**	*Run Time:*	**10.00**

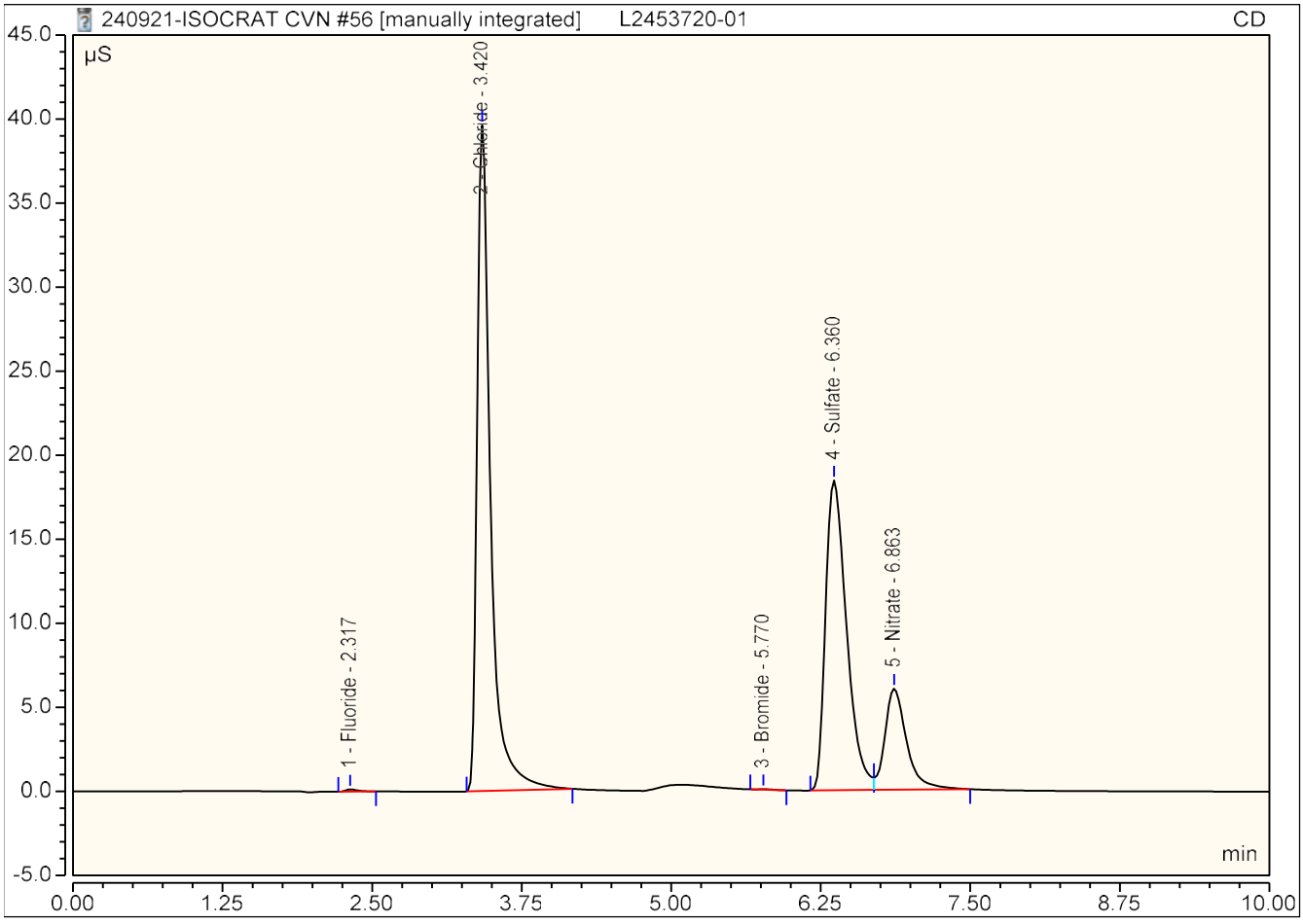
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.204	1.919	0.4158
3	3.42	**Chloride**	BMB*	7.428	56.619	18.3400
4	5.76	**Bromide**	BMB	0.046	0.321	0.4144
5	6.14	**Sulfate**	BM *^	20.438	65.043	70.9412
6	6.88	**Nitrate**	MB*	0.922	3.266	0.7483
TOTAL:				29.04	127.17	90.86



Peak Integration Report

Sample Name:	**L2453720-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:14**	*Run Time:*	**10.00**

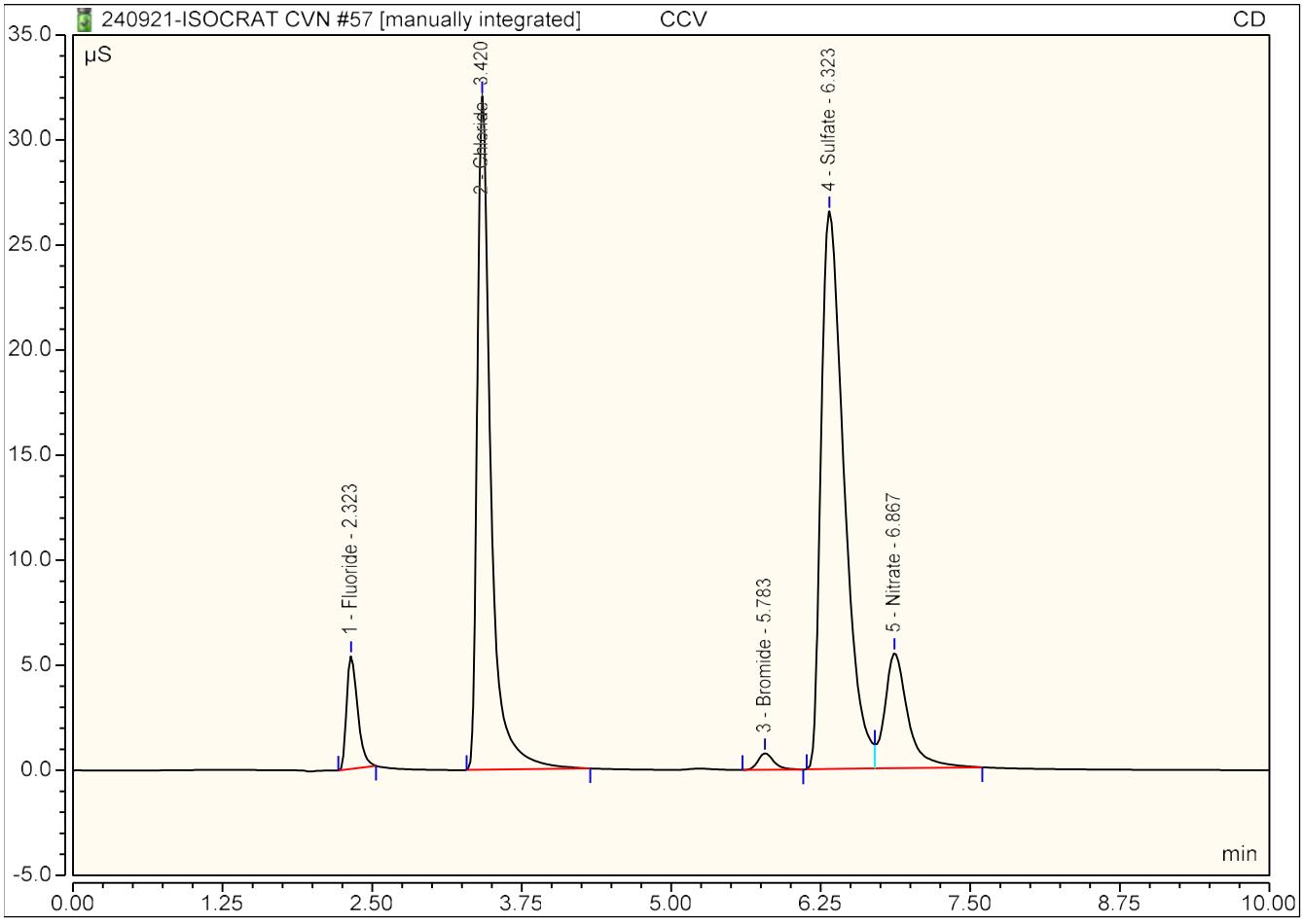
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	0.015	0.129	0.0710
2	3.42	**Chloride**	BMB*	5.155	39.597	12.7920
3	5.77	**Bromide**	BMB	0.004	0.027	0.0641
4	6.36	**Sulfate**	BM *	3.742	18.431	13.2136
5	6.86	**Nitrate**	MB*	1.267	6.018	1.0186
TOTAL:				10.18	64.20	27.16



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:26**	*Run Time:*	**10.00**

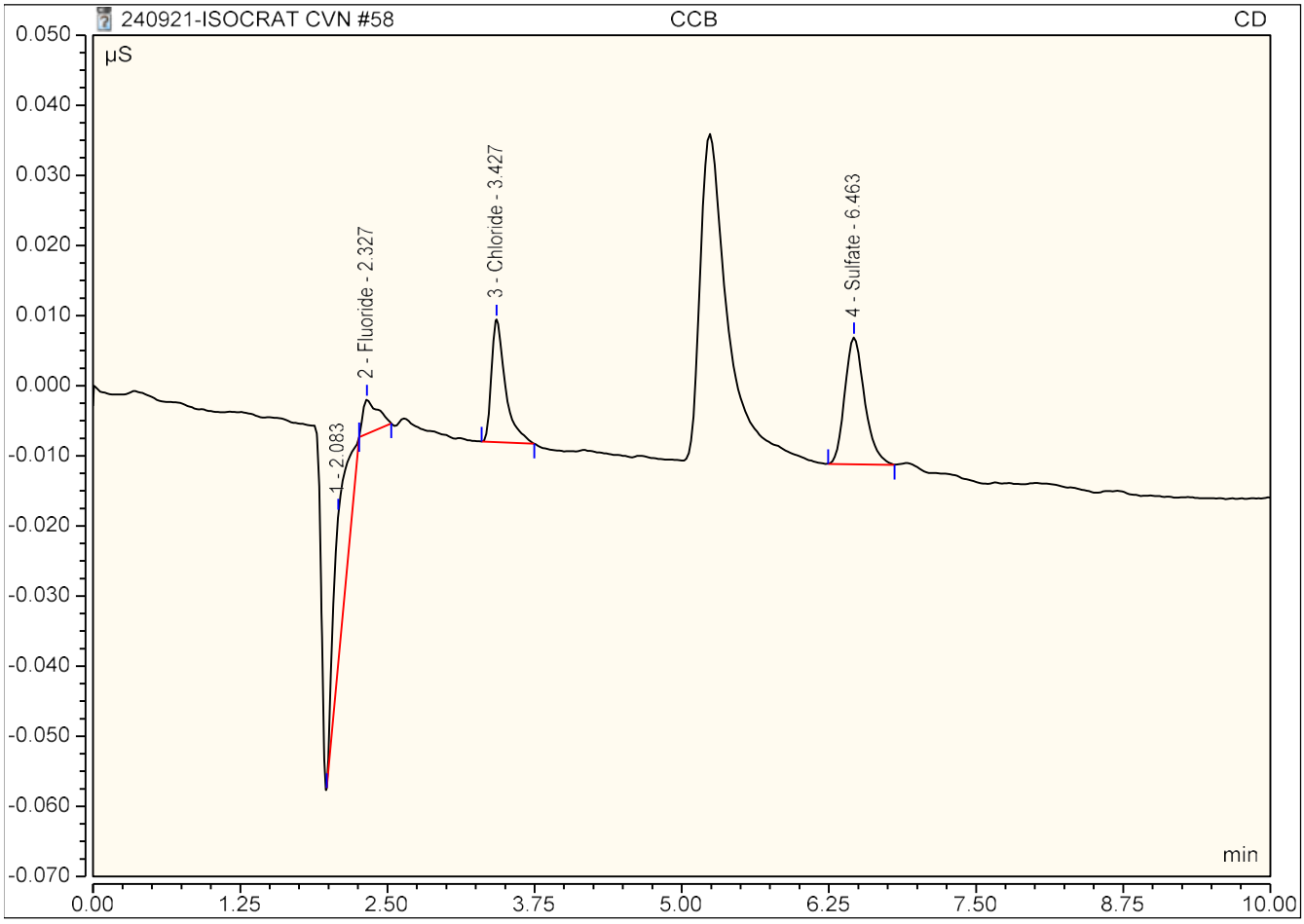
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	0.570	5.369	1.0842
2	3.42	**Chloride**	BMB*	4.228	32.056	10.5280
3	5.78	**Bromide**	BMB	0.121	0.790	1.0365
4	6.32	**Sulfate**	BM *	5.911	26.535	20.7154
5	6.87	**Nitrate**	MB*	1.234	5.484	0.9922
TOTAL:				12.06	70.23	34.36



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:38**	*Run Time:*	**10.00**

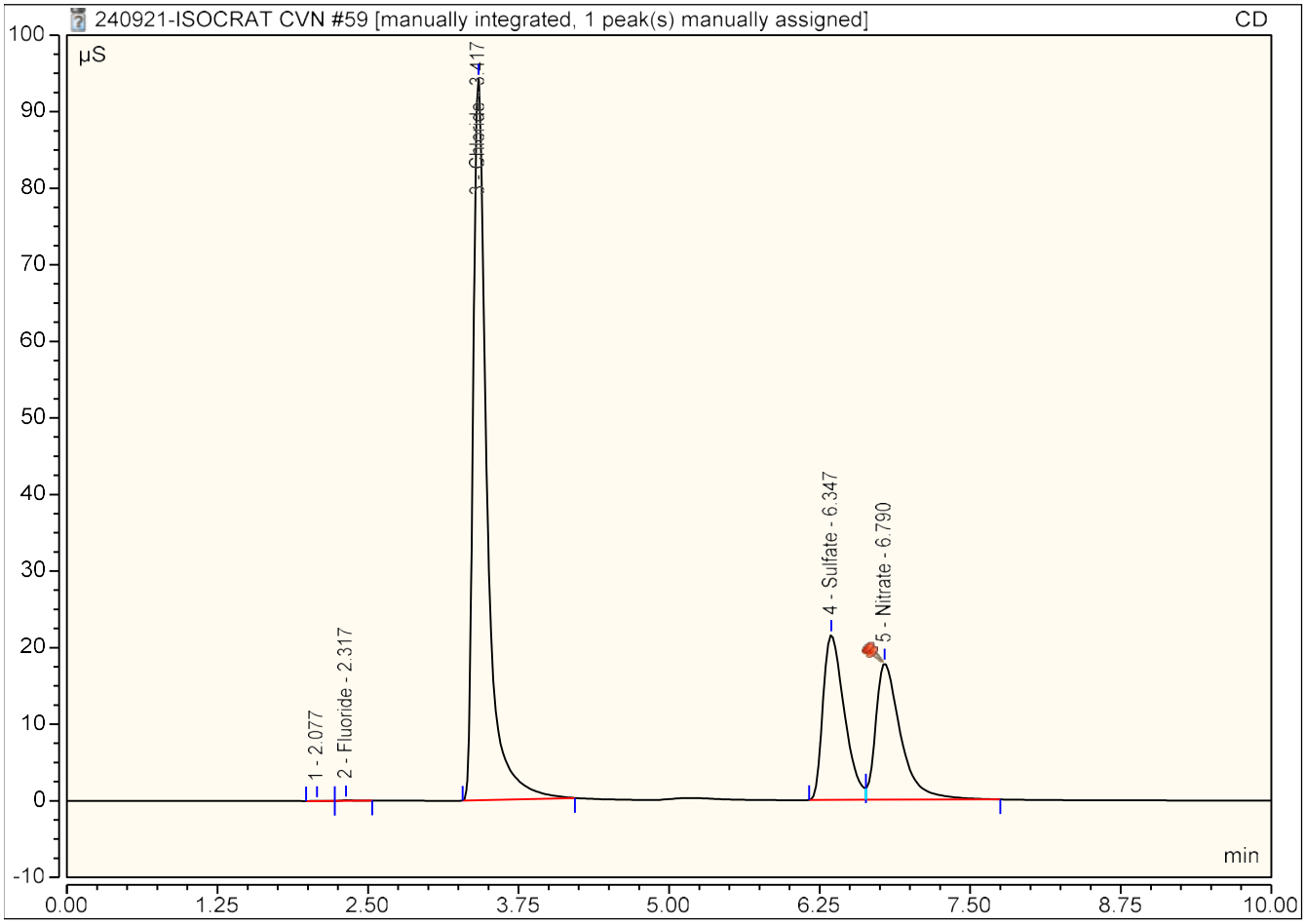
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.001	0.005	0.0458
3	3.43	**Chloride**	BMB	0.002	0.018	0.2115
4	6.46	**Sulfate**	BMB	0.004	0.018	0.2888
TOTAL:				0.01	0.04	0.55



Peak Integration Report

Sample Name:	**L2453720-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:50**	*Run Time:*	**10.00**

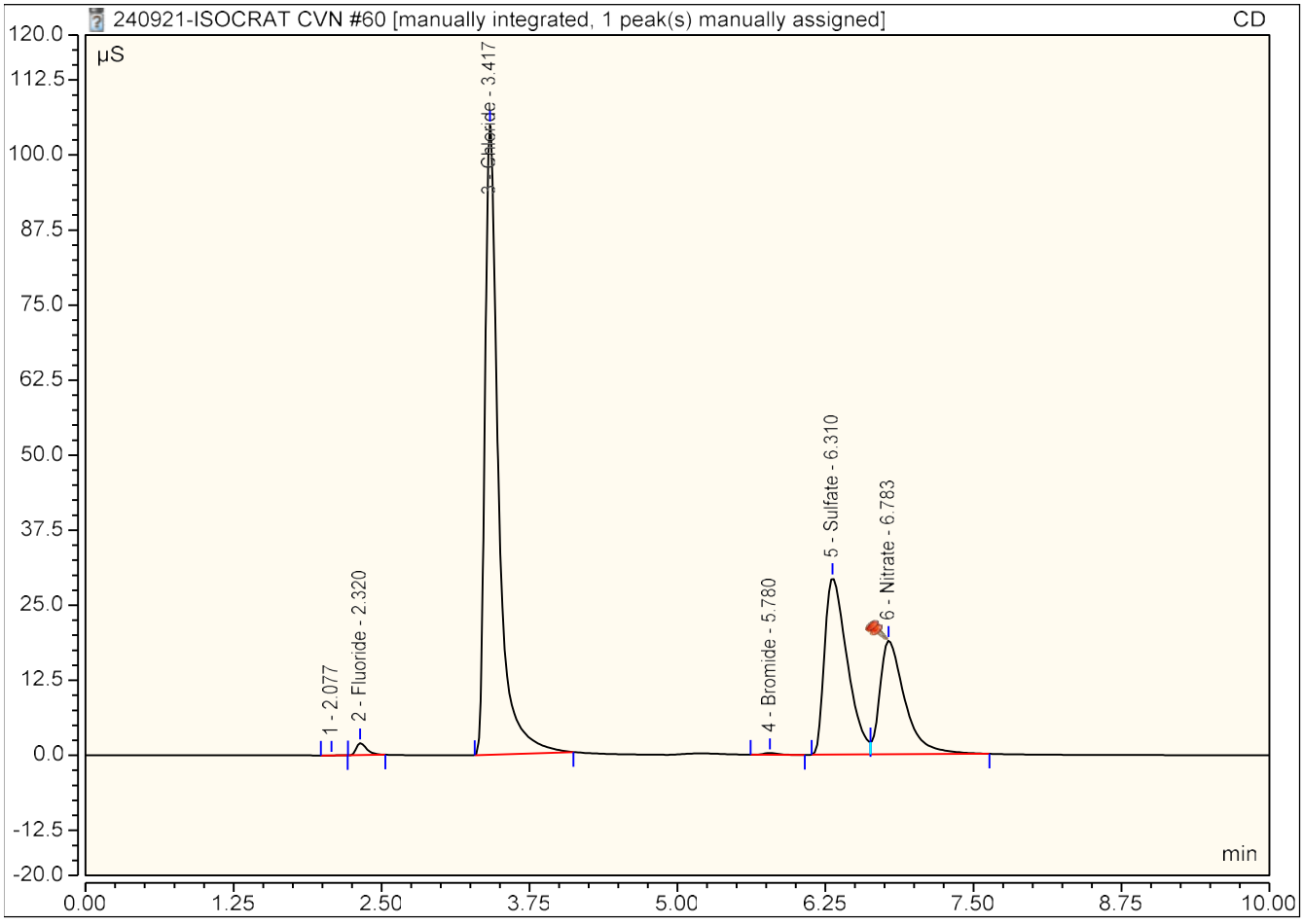
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.009	0.074	0.0602
3	3.42	**Chloride**	BMB*	12.607	94.232	30.9849
4	6.35	**Sulfate**	BM *	4.432	21.562	15.5992
5	6.79	**Nitrate**	MB*^	4.276	17.833	3.3770
TOTAL:				21.32	133.70	50.02



Peak Integration Report

Sample Name:	**L2453720-02 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:02**	*Run Time:*	**10.00**

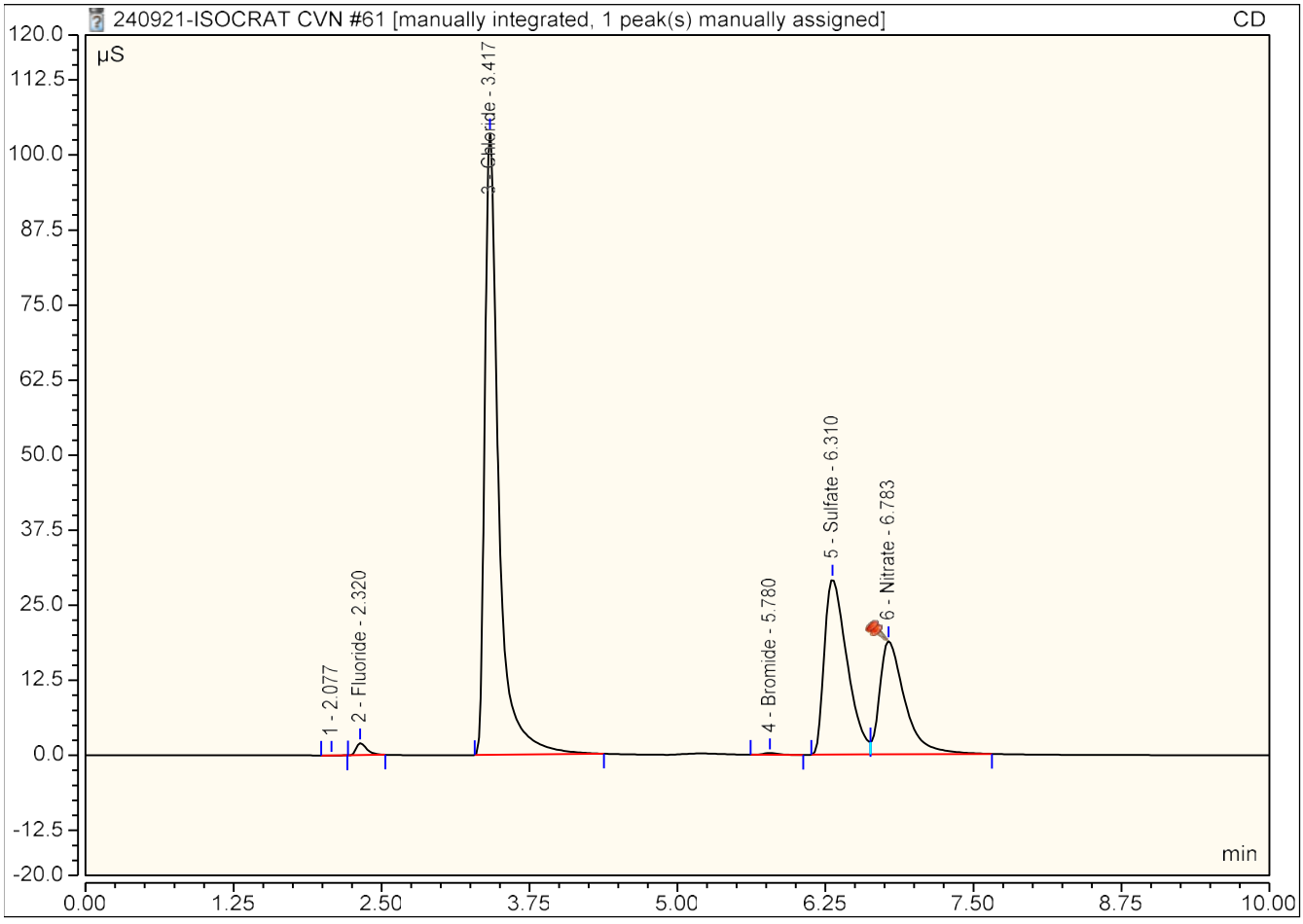
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.211	2.019	0.4298
3	3.42	**Chloride**	BMB*	13.945	104.828	34.2534
4	5.78	**Bromide**	BMB	0.042	0.281	0.3800
5	6.31	**Sulfate**	BM *	6.521	29.410	22.8251
6	6.78	**Nitrate**	MB*^	4.618	18.923	3.6448
TOTAL:				25.34	155.46	61.53



Peak Integration Report

Sample Name:	**L2453720-02 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:14**	*Run Time:*	**10.00**

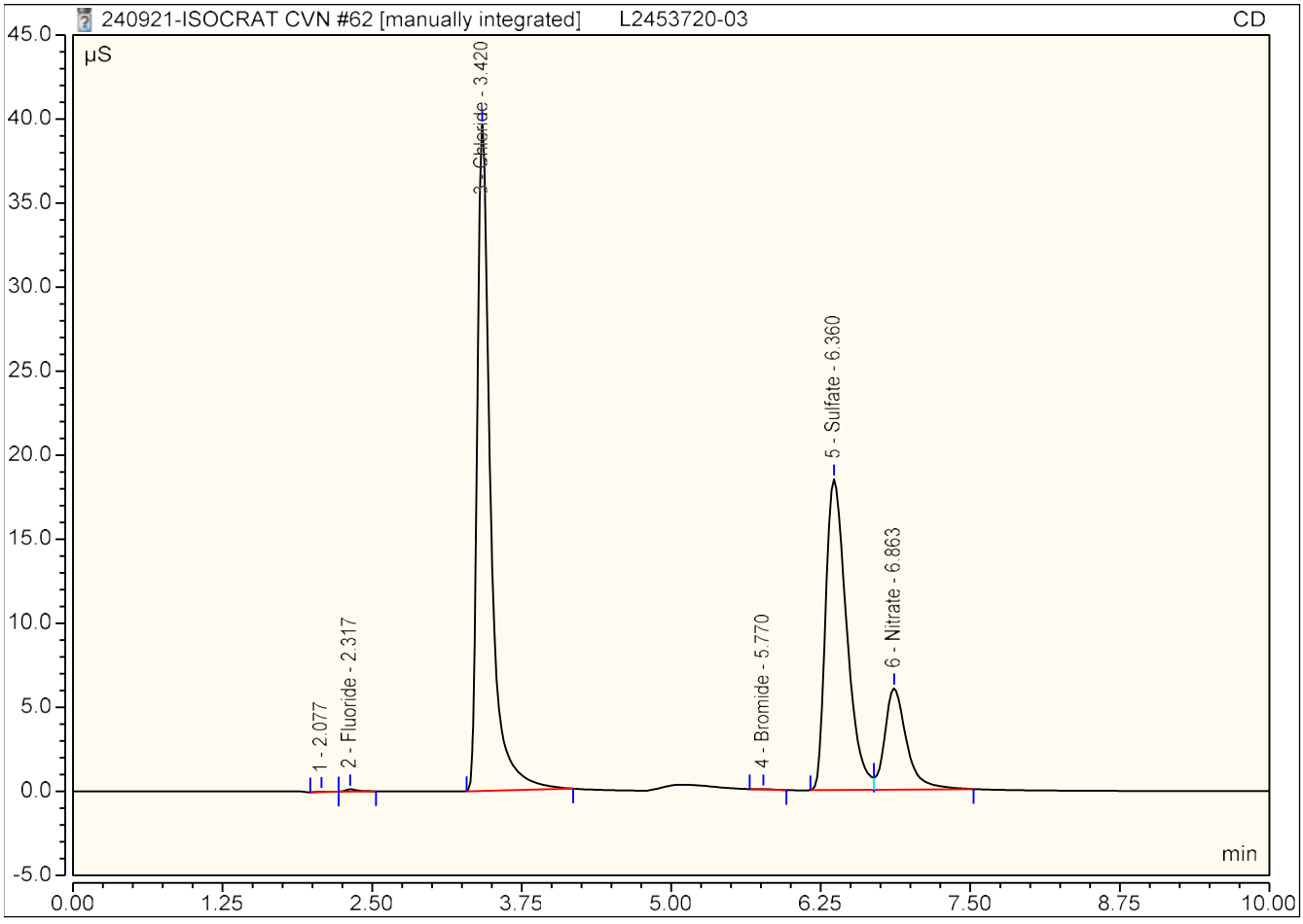
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.210	1.999	0.4276
3	3.42	**Chloride**	BMB*	14.090	103.578	34.6058
4	5.78	**Bromide**	BMB	0.042	0.280	0.3801
5	6.31	**Sulfate**	BM *	6.506	29.195	22.7725
6	6.78	**Nitrate**	MB*^	4.625	18.886	3.6508
TOTAL:				25.47	153.94	61.84



Peak Integration Report

Sample Name:	**L2453720-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:26**	*Run Time:*	**10.00**

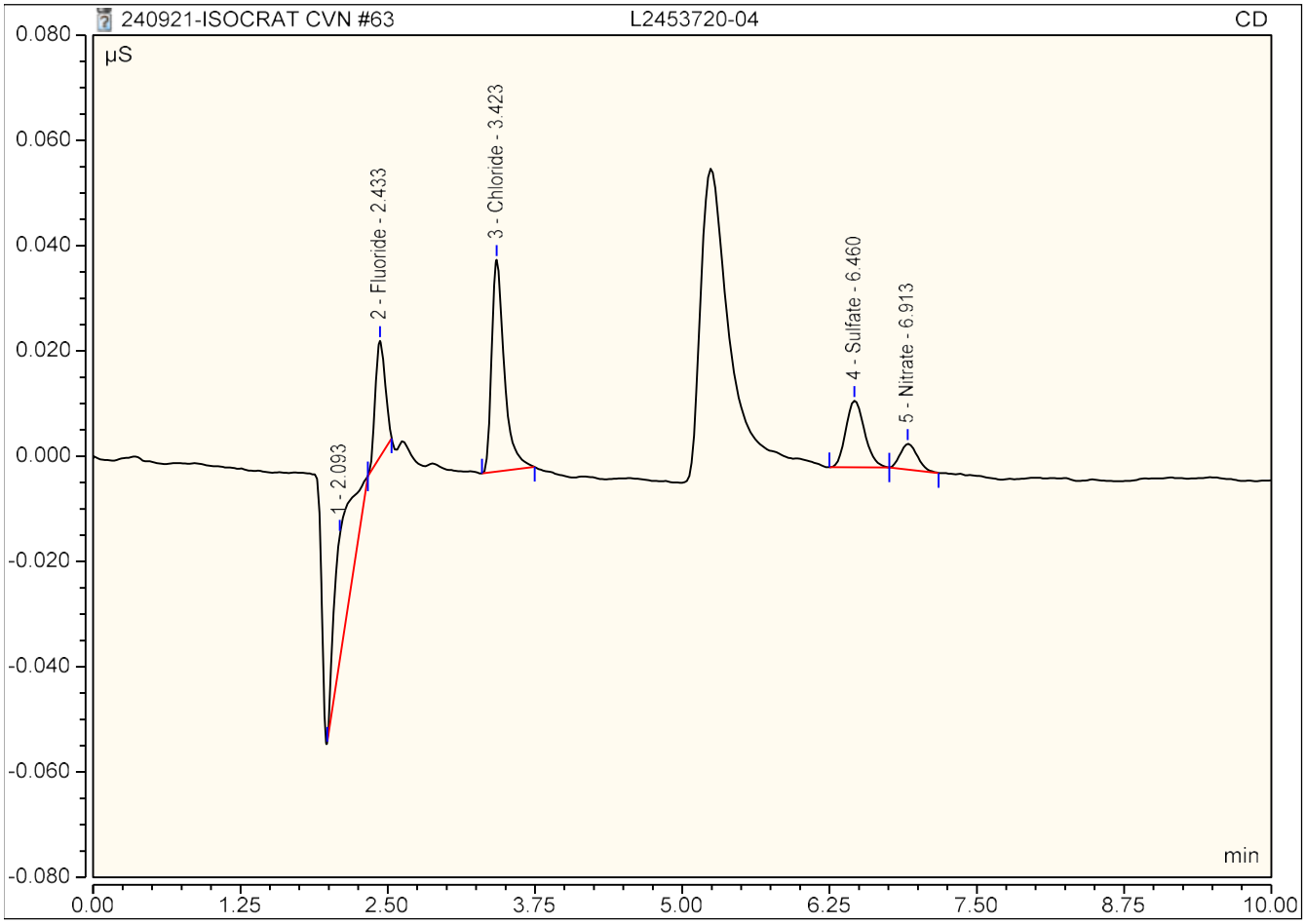
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.014	0.129	0.0706
3	3.42	**Chloride**	BMB*	5.148	39.620	12.7733
4	5.77	**Bromide**	BMB	0.004	0.026	0.0635
5	6.36	**Sulfate**	BM *	3.758	18.495	13.2717
6	6.86	**Nitrate**	MB*	1.276	6.032	1.0251
TOTAL:				10.20	64.30	27.20



Peak Integration Report

Sample Name:	**L2453720-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:38**	*Run Time:*	**10.00**

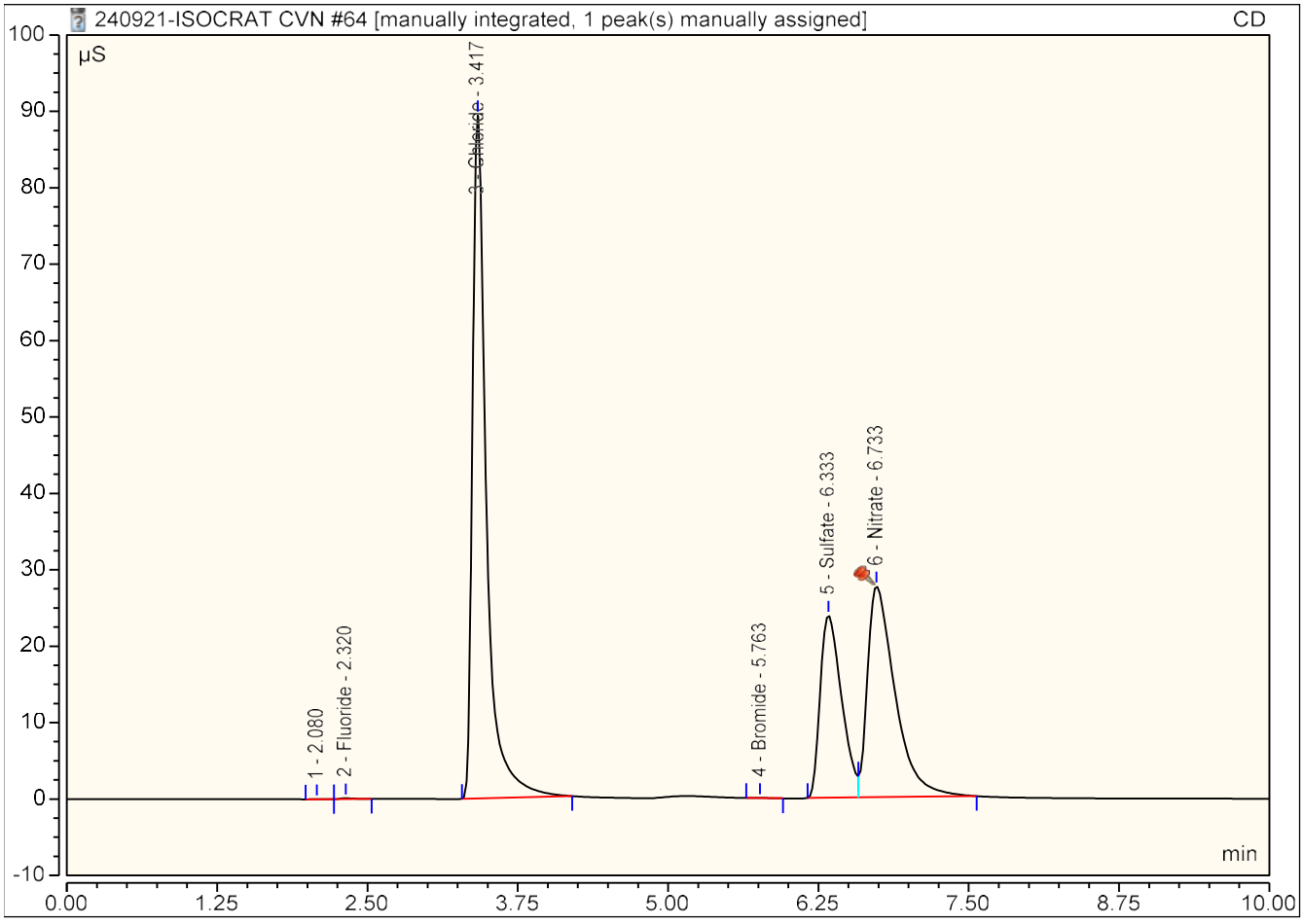
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.43	**Fluoride**	BMB	0.002	0.022	0.0483
3	3.42	**Chloride**	BMB	0.005	0.040	0.2179
4	6.46	**Sulfate**	BMB	0.002	0.013	0.2846
5	6.91	**Nitrate**	BMB	0.001	0.005	0.0259
TOTAL:				0.01	0.08	0.58



Peak Integration Report

Sample Name:	**L2453720-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:50**	*Run Time:*	**10.00**

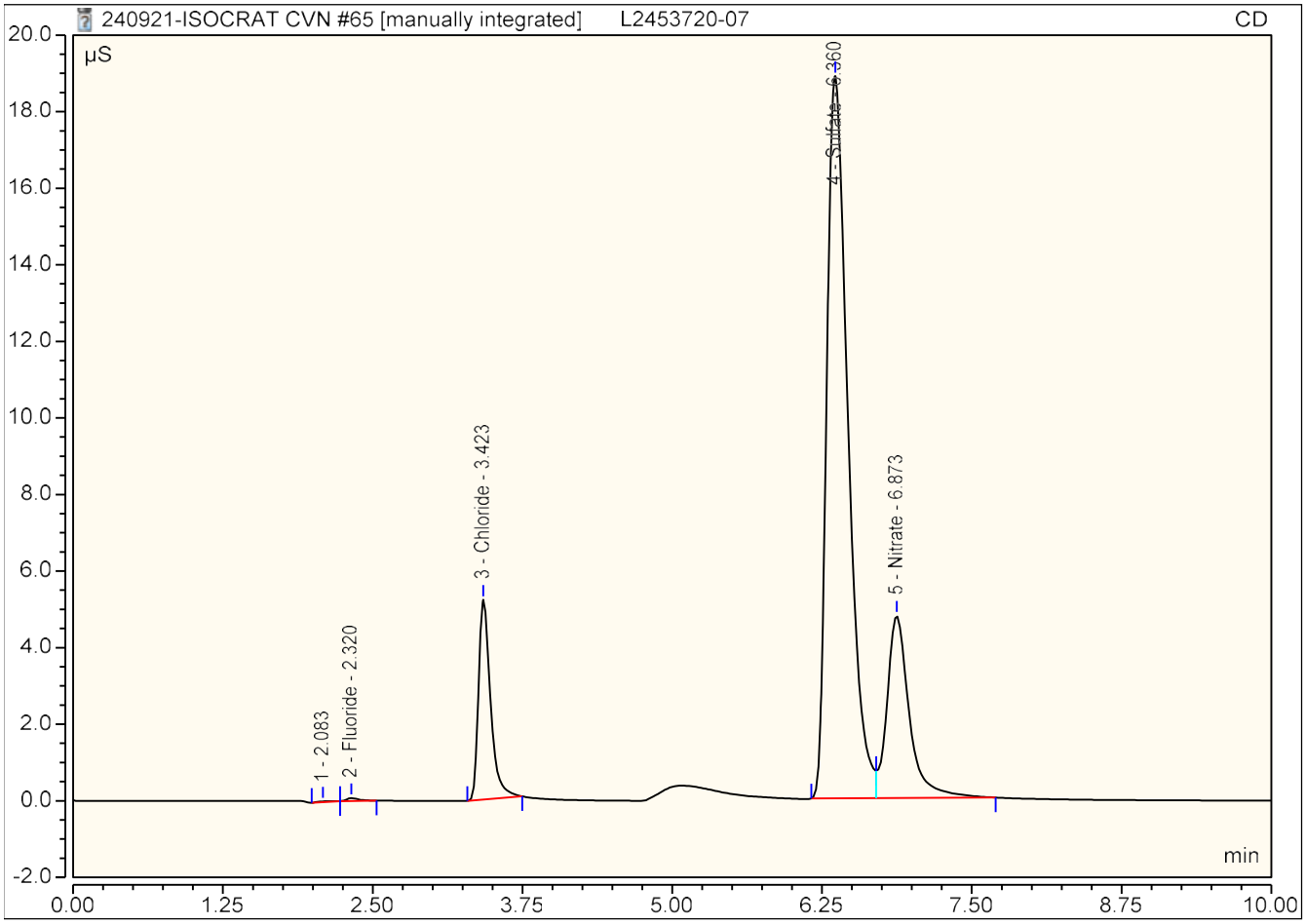
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.013	0.110	0.0675
3	3.42	**Chloride**	BMB*	11.969	89.415	29.4284
4	5.76	**Bromide**	BMB	0.004	0.028	0.0645
5	6.33	**Sulfate**	BM *	4.902	23.847	17.2269
6	6.73	**Nitrate**	MB*^	7.329	27.610	5.7698
TOTAL:				24.22	141.01	52.56



Peak Integration Report

Sample Name:	**L2453720-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:03**	*Run Time:*	**10.00**

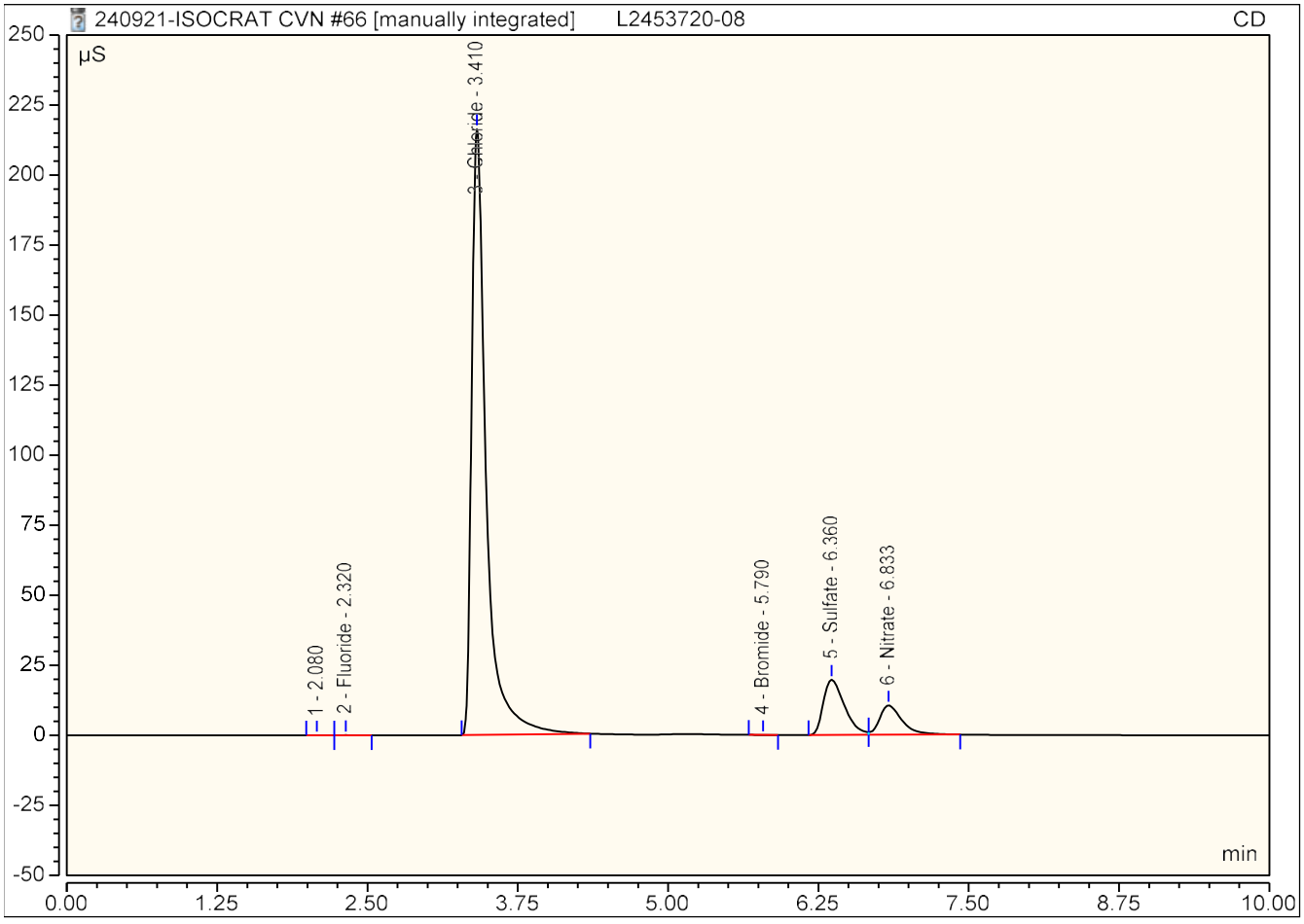
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.009	0.075	0.0602
3	3.42	**Chloride**	BMB	0.609	5.216	1.6918
4	6.36	**Sulfate**	BM *	3.864	18.865	13.6373
5	6.87	**Nitrate**	MB*	1.030	4.764	0.8323
TOTAL:				5.51	28.92	16.22



Peak Integration Report

Sample Name:	**L2453720-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:15**	*Run Time:*	**10.00**

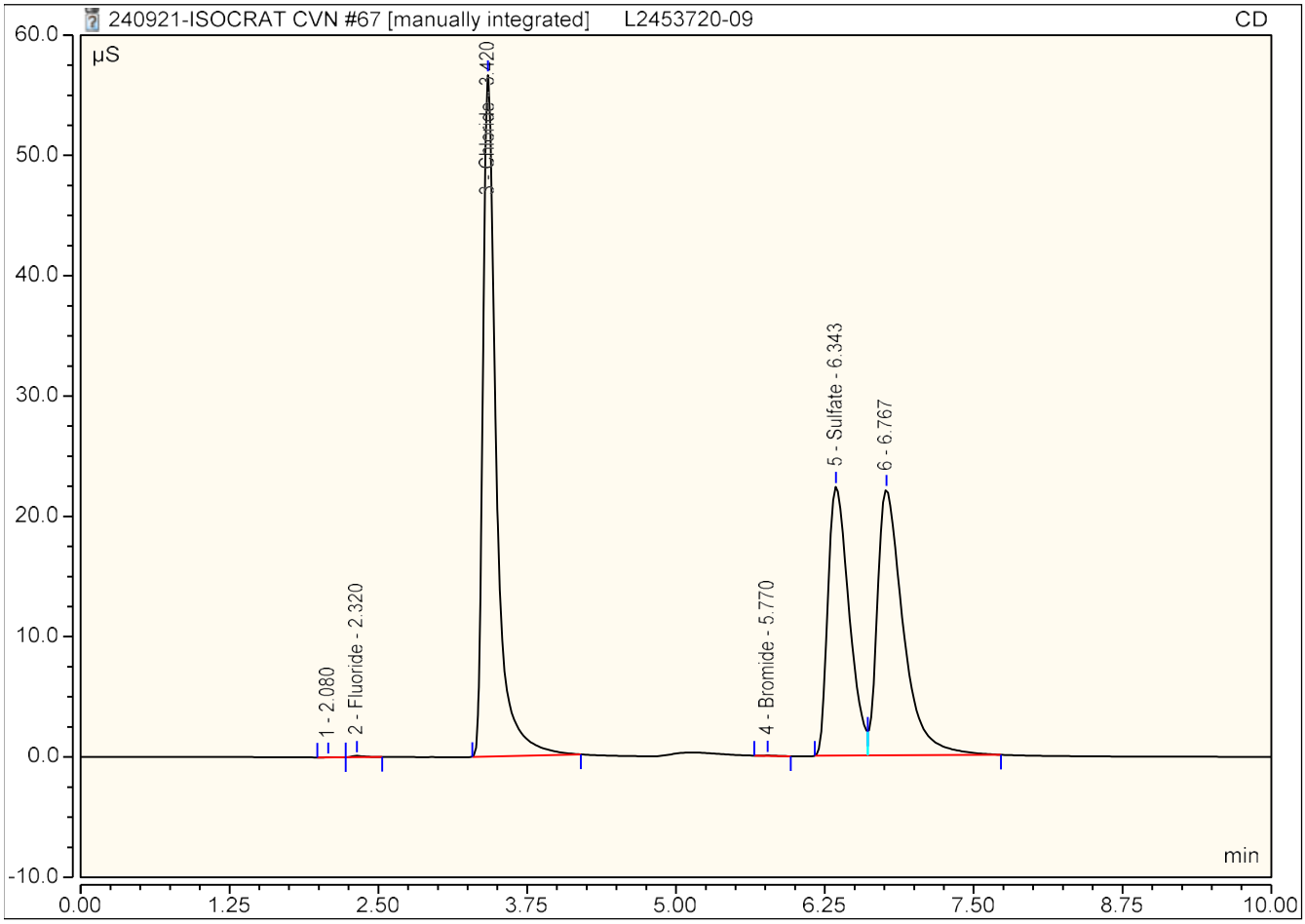
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.007	0.058	0.0573
3	3.41	**Chloride**	BMB*	30.209	216.294	73.9598
4	5.79	**Bromide**	BMB	0.001	0.011	0.0436
5	6.36	**Sulfate**	BM *	4.018	19.710	14.1698
6	6.83	**Nitrate**	MB*	2.269	10.466	1.8040
TOTAL:				36.50	246.54	90.03



Peak Integration Report

Sample Name:	**L2453720-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:27**	*Run Time:*	**10.00**

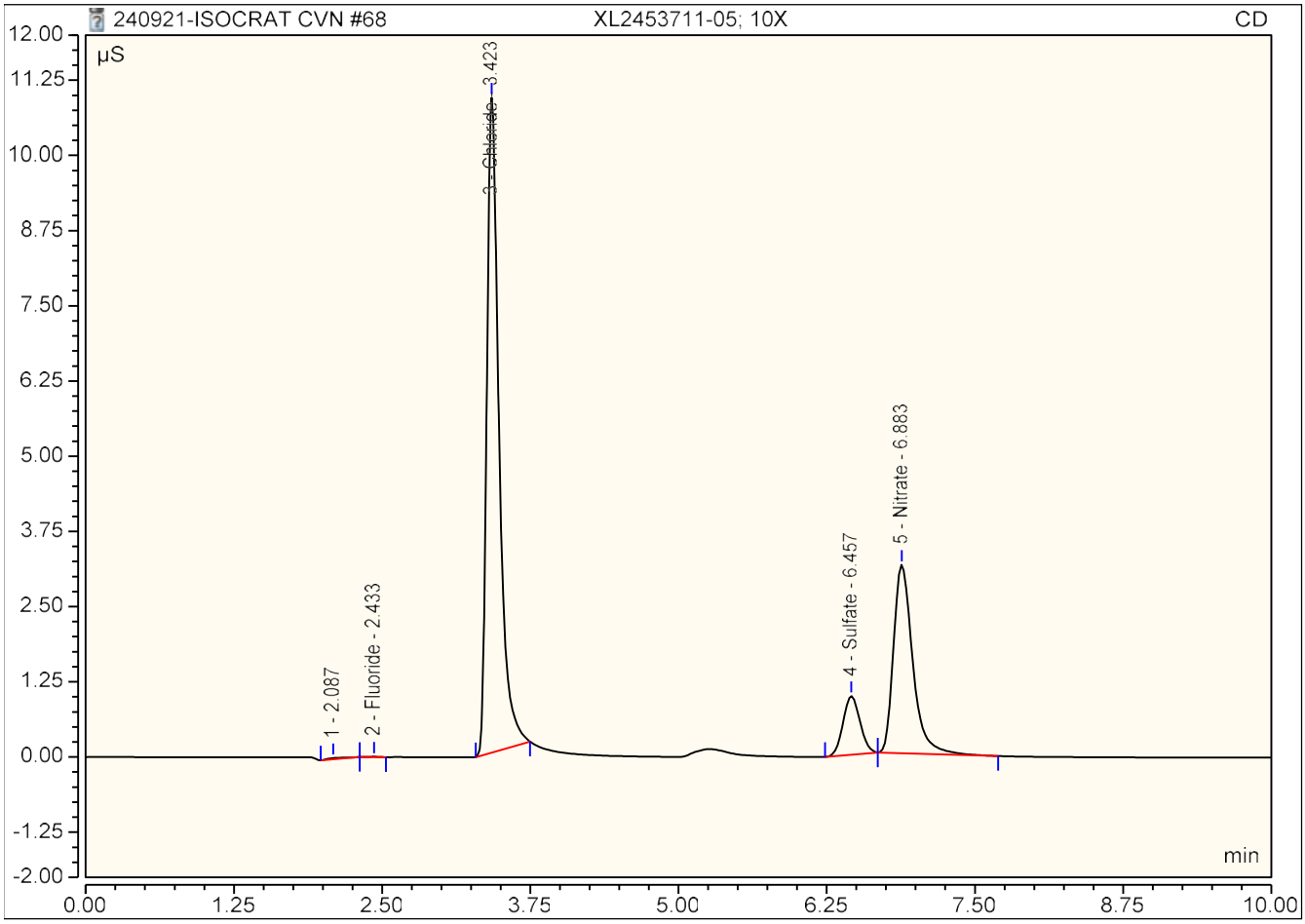
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.012	0.108	0.0666
3	3.42	**Chloride**	BMB*	7.456	56.629	18.4084
4	5.77	**Bromide**	BMB	0.004	0.030	0.0662
5	6.34	**Sulfate**	BM *	4.593	22.356	16.1589
TOTAL:				12.07	79.12	34.70



Peak Integration Report

Sample Name:	**XL2453711-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:39**	*Run Time:*	**10.00**

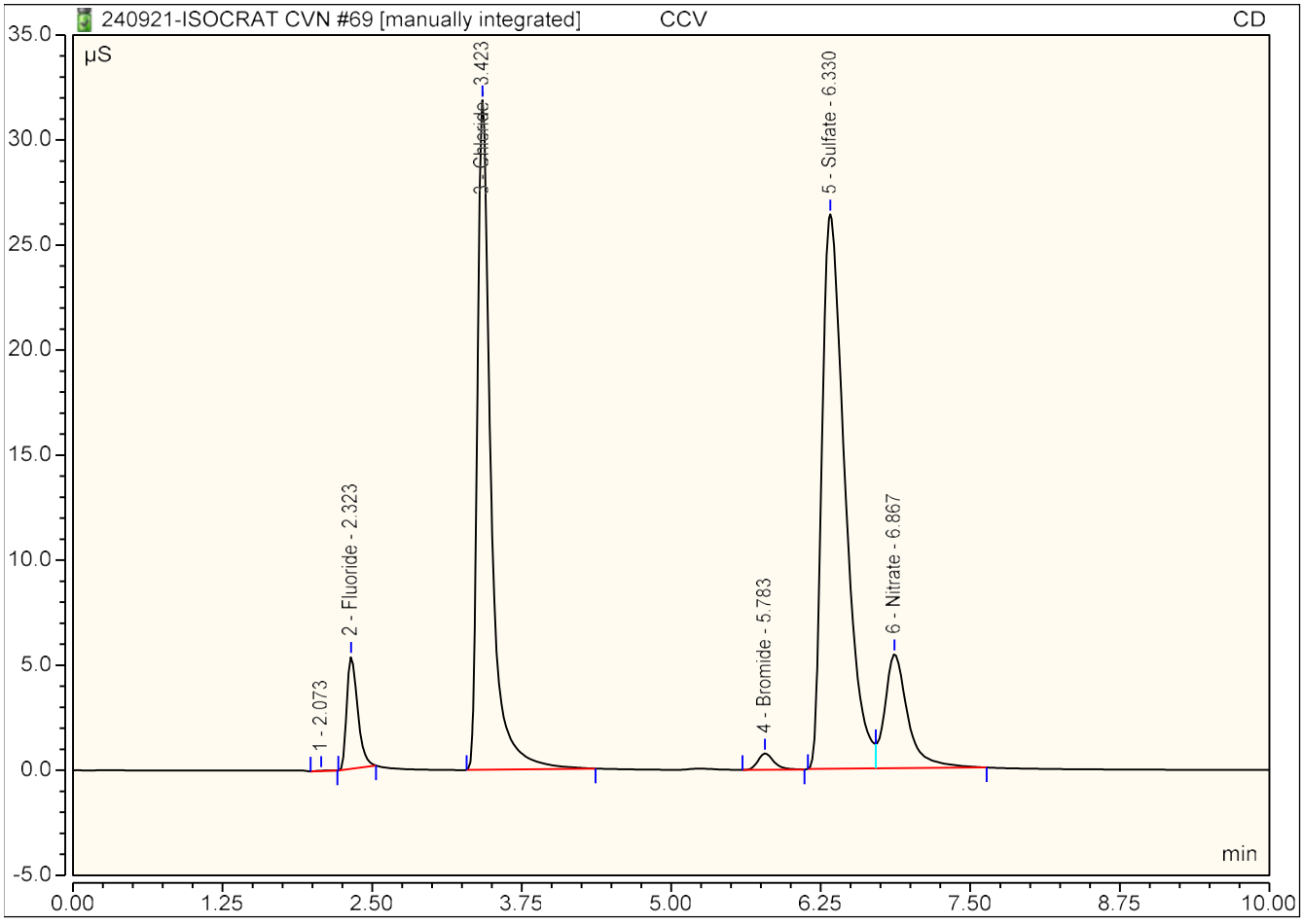
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.43	**Fluoride**	BMB	0.001	0.006	0.4562
3	3.42	**Chloride**	BMB	1.301	10.890	33.8188
4	6.46	**Sulfate**	BMB	0.161	0.975	8.3487
5	6.88	**Nitrate**	BMB	0.591	3.132	4.8854
TOTAL:				2.05	15.00	47.51



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:51**	*Run Time:*	**10.00**

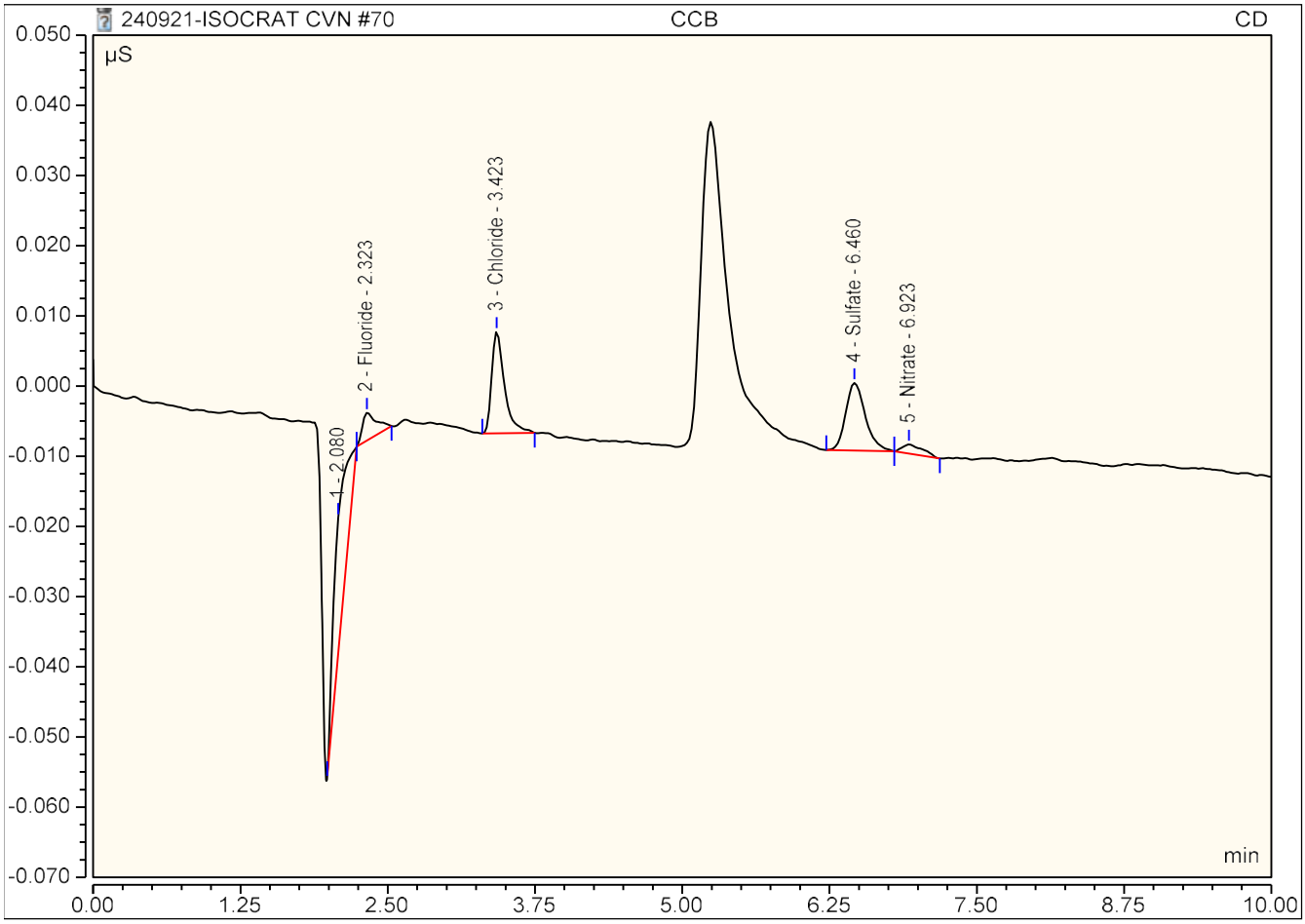
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.563	5.341	1.0714
3	3.42	**Chloride**	BMB*	4.198	31.865	10.4549
4	5.78	**Bromide**	BMB	0.120	0.781	1.0322
5	6.33	**Sulfate**	BM *	5.865	26.386	20.5538
6	6.87	**Nitrate**	MB*	1.217	5.433	0.9790
TOTAL:				11.96	69.81	34.09



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:03**	*Run Time:*	**10.00**

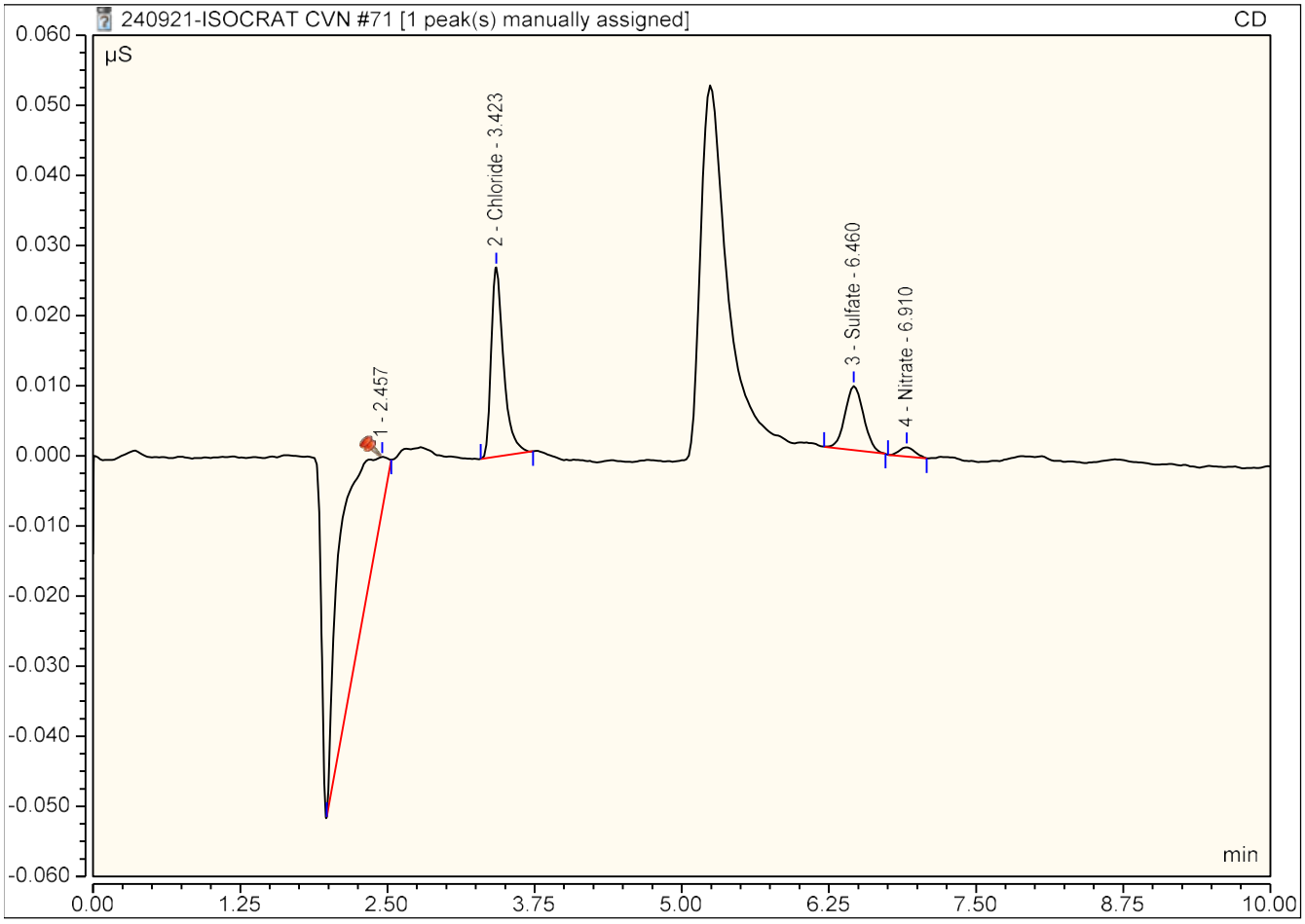
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.004	0.0455
3	3.42	**Chloride**	BMB	0.002	0.014	0.2101
4	6.46	**Sulfate**	BMB	0.002	0.010	0.2830
5	6.92	**Nitrate**	BMB	0.000	0.001	0.0255
TOTAL:				0.00	0.03	0.56



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:15**	*Run Time:*	**10.00**

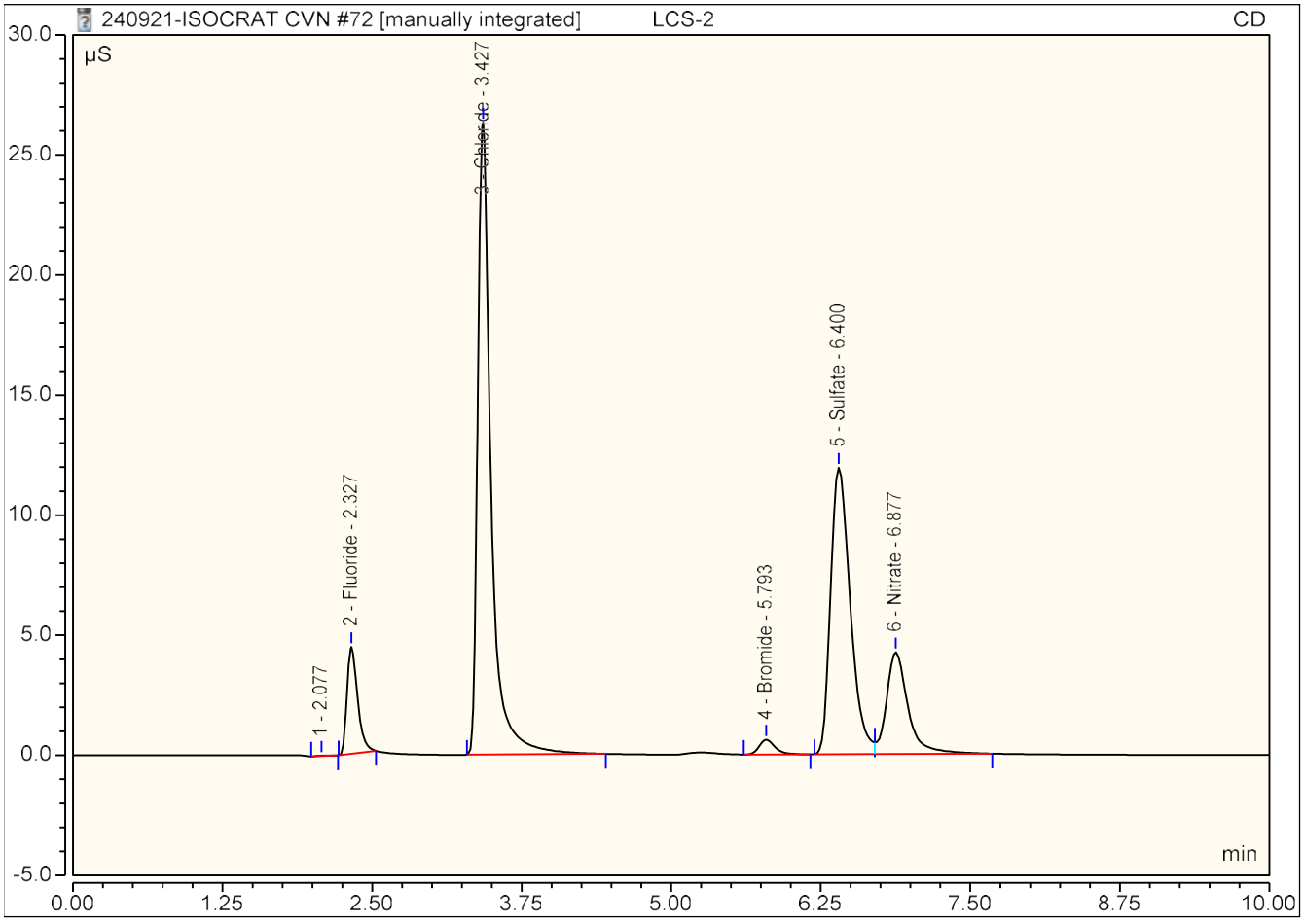
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.003	0.027	0.2136
3	6.46	**Sulfate**	BMB	0.002	0.009	0.2823
4	6.91	**Nitrate**	BMB	0.000	0.001	0.0254
TOTAL:				0.01	0.04	0.52



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:27**	*Run Time:*	**10.00**

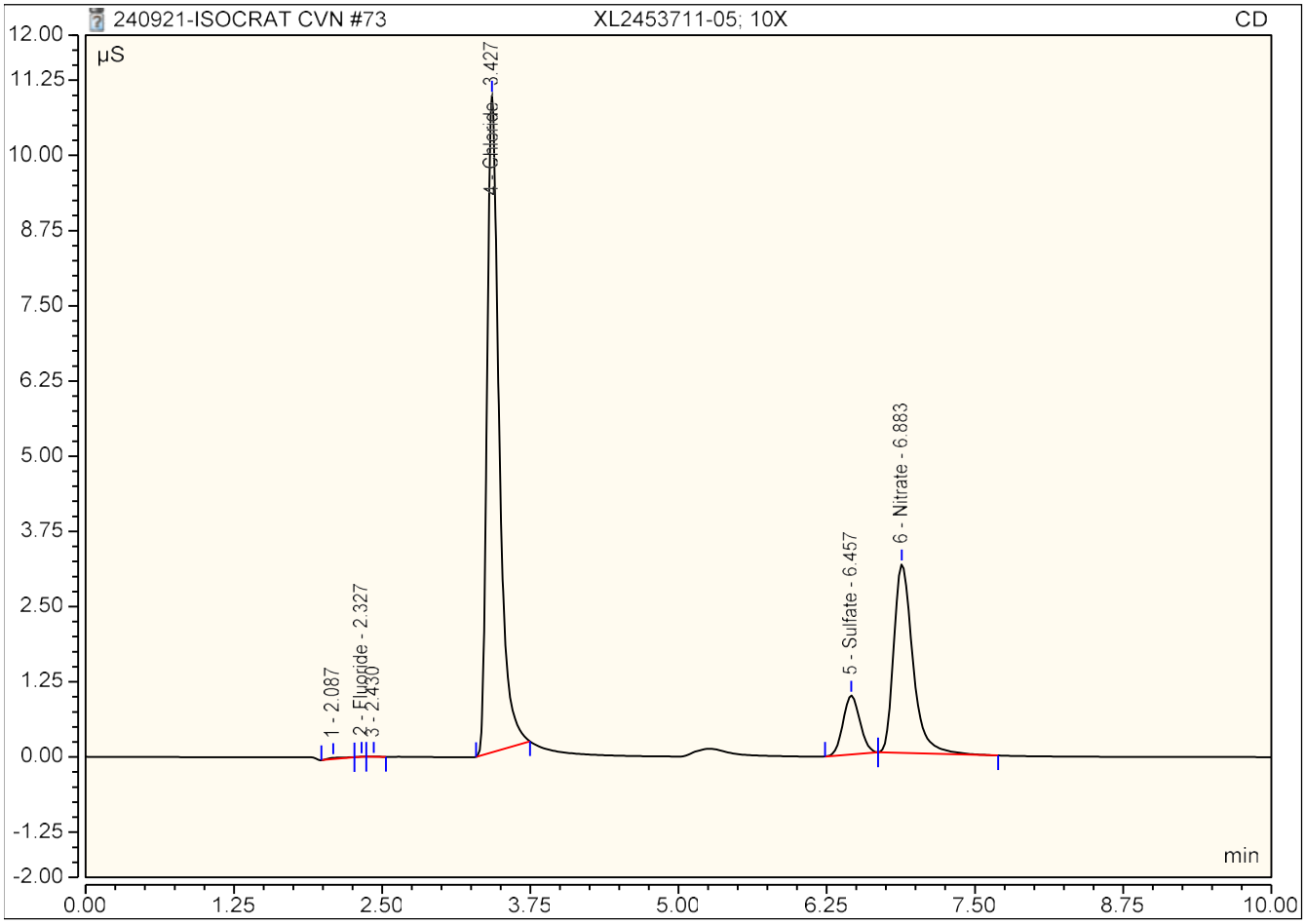
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.456	4.453	0.8765
3	3.43	**Chloride**	BMB*	3.391	26.330	8.4854
4	5.79	**Bromide**	BMB	0.096	0.625	0.8330
5	6.40	**Sulfate**	BM *	2.272	11.929	8.1319
6	6.88	**Nitrate**	MB*	0.883	4.240	0.7174
TOTAL:				7.10	47.58	19.04



Peak Integration Report

Sample Name:	**XL2453711-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:39**	*Run Time:*	**10.00**

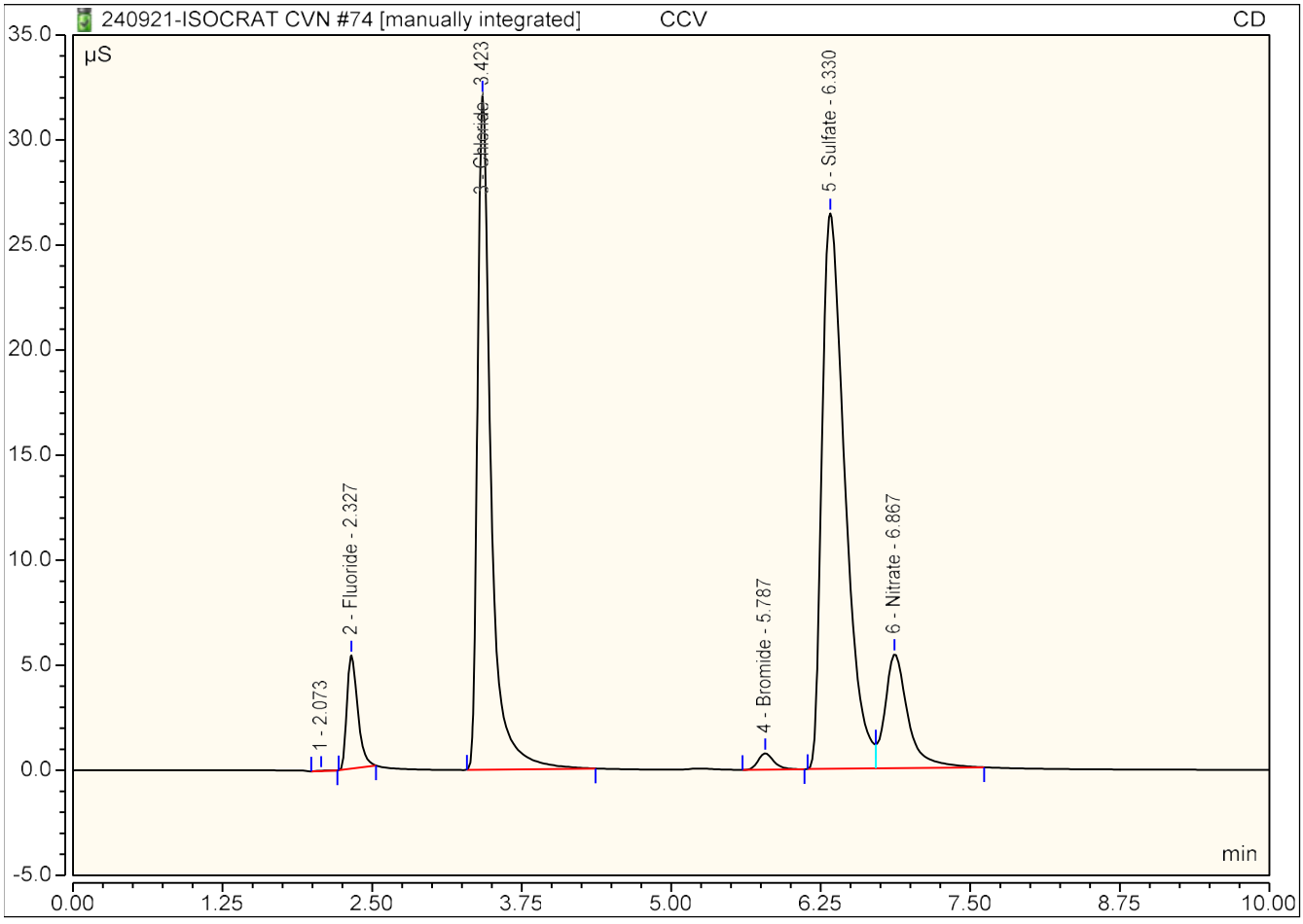
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.000	0.003	0.4485
4	3.43	**Chloride**	BMB	1.297	10.920	33.7216
5	6.46	**Sulfate**	BMB	0.162	0.979	8.3574
6	6.88	**Nitrate**	BMB	0.590	3.141	4.8790
TOTAL:				2.05	15.04	47.41



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:51**	*Run Time:*	**10.00**

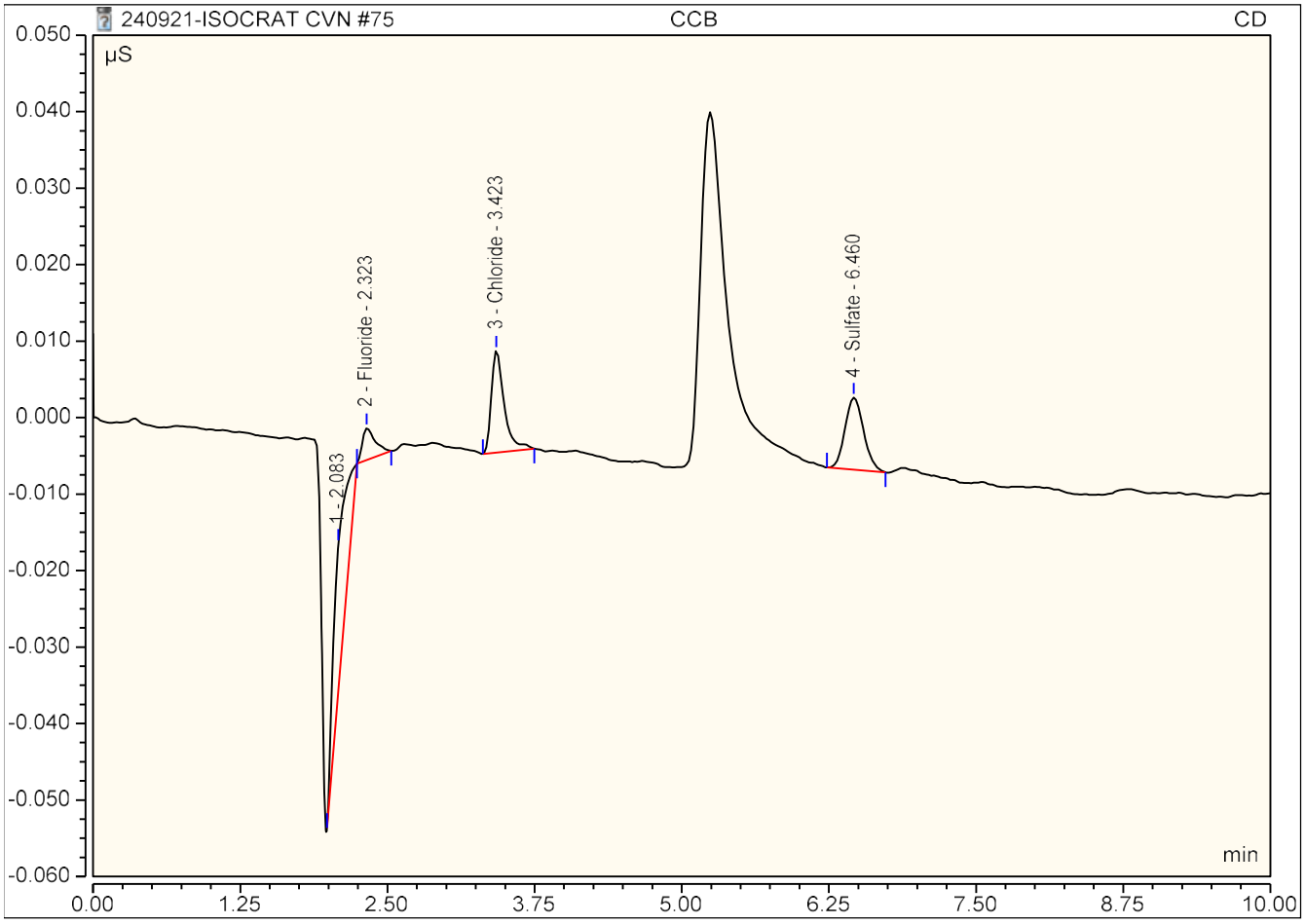
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.564	5.396	1.0725
3	3.42	**Chloride**	BMB*	4.193	32.082	10.4438
4	5.79	**Bromide**	BMB	0.120	0.783	1.0288
5	6.33	**Sulfate**	BM *	5.866	26.437	20.5596
6	6.87	**Nitrate**	MB*	1.211	5.436	0.9742
TOTAL:				11.95	70.13	34.08



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 22:04**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.004	0.0454
3	3.42	**Chloride**	BMB	0.002	0.013	0.2097
4	6.46	**Sulfate**	BMB	0.002	0.009	0.2825
TOTAL:				0.00	0.03	0.54



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2129	n.a.	0.2810	n.a.
2	STD 0.5	1.0	0.0592	0.3873	0.0442	0.6237	0.0525
3	STD 1.0	1.0	0.0738	0.5947	0.0646	1.0491	0.0753
4	STD 2.0	1.0	0.1840	1.9971	0.1868	3.9561	0.1890
5	STD 3.0	1.0	0.4607	4.9336	0.4717	9.9320	0.4440
6	STD 4.0	1.0	1.9885	19.7203	2.0078	39.8861	2.0141
7	STD 5.0	1.0	5.0087	50.1170	5.2021	100.0530	5.2575
8	RINSE	1.0	0.0642	0.2169	n.a.	0.2808	n.a.
9	CCV	1.0	1.0162	10.1547	1.0064	20.3146	1.0333
10	CCB	1.0	0.0454	0.2163	0.0256	0.2888	n.a.
11	ICV	1.0	0.8766	8.3922	0.7298	8.0588	0.8333
12	ICB	1.0	n.a.	0.2159	n.a.	0.2874	n.a.
13	BLK	1.0	n.a.	0.2131	n.a.	0.2815	n.a.
14	LCS	1.0	0.8747	8.3210	0.7249	8.0688	0.8290
15	L2453576-01 BR CL SO4	1.0	0.1648	119.7739	1.3542	84.5219	0.0514
16	L2453576-01; 10X	10.0	0.5751	130.3890	1.4458	93.0140	n.a.
17	XL2453576-02	1.0	0.2533	308.5046	n.a.	488.9859	n.a.
18	L2453576-02; 10X	10.0	0.6718	341.3696	n.a.	542.6627	n.a.
19	XL2453576-03	1.0	0.2657	291.6625	n.a.	488.8619	n.a.
20	L2453576-03; 10X	10.0	0.6679	318.0099	n.a.	540.7540	n.a.
21	CCV	1.0	1.0783	10.3566	1.0214	20.3483	1.0300
22	CCB	1.0	n.a.	0.2229	0.0255	0.2970	n.a.
23	L2453576-04; 10X	10.0	0.6571	272.7696	n.a.	1449.1374	n.a.
24	L2453576-04; 50X	50.0	2.4382	259.7654	n.a.	1381.3515	n.a.
25	L2453576-05; 10X	10.0	0.6623	488.7026	n.a.	1588.6133	n.a.
26	L2453576-05; 50X	50.0	2.4527	459.3308	n.a.	1504.7860	n.a.
27	XL2453576-06	1.0	0.3702	455.2689	n.a.	843.3111	n.a.
28	XL2453576-06; 10X	10.0	0.8150	528.8575	n.a.	1009.0776	0.9222
29	XL2453753-07	1.0	1.9899	195.8643	n.a.	321.4408	n.a.
30	L2453576-07; 10X	10.0	2.3795	212.7340	n.a.	346.3912	n.a.
31	L2453711-01 BR CL SO4	1.0	0.0531	95.5304	5.6584	25.6662	0.0607
32	L2453711-01; 10X	10.0	0.4568	113.8305	6.2764	31.0591	0.3464
33	CCV	1.0	1.0661	10.3697	0.9824	20.3865	1.0143
34	CCB	1.0	n.a.	0.2196	0.0255	0.2922	n.a.
35	L2453711-02	1.0	0.0588	111.7925	4.6169	12.2501	0.1008
36	L2453711-02; 10X	10.0	0.4737	122.5415	4.6863	14.1287	0.3779
37	L2453711-03	1.0	0.0997	14.4029	7.4004	85.3135	n.a.
38	XL2453711-03; 10X	10.0	0.5094	16.2518	7.3193	94.0024	n.a.
39	L2453711-04	1.0	0.0622	14.8105	n.a.	67.1231	0.1214
40	L2453711-05	1.0	0.0557	32.4902	5.0024	6.9555	n.a.
41	XL2453711-05; 10X	10.0	0.4551	35.6170	5.1529	8.7479	n.a.
42	L2453711-06	1.0	0.0632	11.2378	0.7648	3.2001	0.0487
43	L2453711-07	1.0	0.0468	19.1561	0.0941	7.4773	n.a.
44	L2453711-11	1.0	0.0451	0.2092	0.0255	0.2813	n.a.
45	CCV	1.0	1.0681	10.3405	0.9790	20.5258	1.0148

46	CCB	1.0	0.0455	0.2164	0.0254	0.2895	n.a.
47	L2453711-08	1.0	0.0516	25.0773	10.8239	2.6517	0.0642
48	XL2458711-08; 10X	10.0	0.4517	27.4128	11.0942	5.0167	0.3510
49	L2453711-09	1.0	0.0491	40.4946	1.6118	27.3762	0.0554
50	L2453711-10	1.0	0.0531	11.5105	0.5372	4.8070	0.0465
51	L2454059-01 BR	1.0	0.0573	131.7729	4.3424	11.0644	0.0459
52	L2454059-02	1.0	0.0691	13.9337	2.0065	19.3908	0.0510
53	L2453576-06; 25X	25.0	1.3991	474.0460	n.a.	906.9088	1.2834
54	L2453711-04 DUP	1.0	0.0622	14.9410	n.a.	67.3339	0.1228
55	L2453711-04 MS	1.0	0.4158	18.3400	0.7483	70.9412	0.4144
56	L2453720-01	1.0	0.0710	12.7920	1.0186	13.2136	0.0641
57	CCV	1.0	1.0842	10.5280	0.9922	20.7154	1.0365
58	CCB	1.0	0.0458	0.2115	n.a.	0.2888	n.a.
59	L2453720-02	1.0	0.0602	30.9849	3.3770	15.5992	n.a.
60	L2453720-02 MS	1.0	0.4298	34.2534	3.6448	22.8251	0.3800
61	L2453720-02 MSD	1.0	0.4276	34.6058	3.6508	22.7725	0.3801
62	L2453720-03	1.0	0.0706	12.7733	1.0251	13.2717	0.0635
63	L2453720-04	1.0	0.0483	0.2179	0.0259	0.2846	n.a.
64	L2453720-06	1.0	0.0675	29.4284	5.7698	17.2269	0.0645
65	L2453720-07	1.0	0.0602	1.6918	0.8323	13.6373	n.a.
66	L2453720-08	1.0	0.0573	73.9598	1.8040	14.1698	0.0436
67	L2453720-09	1.0	0.0666	18.4084	n.a.	16.1589	0.0662
68	XL2453711-05; 10X	10.0	0.4562	33.8188	4.8854	8.3487	n.a.
69	CCV	1.0	1.0714	10.4549	0.9790	20.5538	1.0322
70	CCB	1.0	0.0455	0.2101	0.0255	0.2830	n.a.
71	BLK-2	1.0	n.a.	0.2136	0.0254	0.2823	n.a.
72	LCS-2	1.0	0.8765	8.4854	0.7174	8.1319	0.8330
73	XL2453711-05; 10X	10.0	0.4485	33.7216	4.8790	8.3574	n.a.
74	CCV	1.0	1.0725	10.4438	0.9742	20.5596	1.0288
75	CCB	1.0	0.0454	0.2097	n.a.	0.2825	n.a.
	Sum:	323.000	39.7673		129.1109	12647.0694	23.2436
	Average:	4.307	0.5763		2.4361	168.6276	0.5811
	Rel.Std.Dev:	203.645 %	1.4174		1.1328	2.2413	1.5421

Inject Time	Comment
05/Sep/2024 16:08	AU
05/Sep/2024 16:20	LOT#240905-0.5
05/Sep/2024 16:33	LOT#240905-1.0
05/Sep/2024 16:45	LOT#240905-2.0
05/Sep/2024 16:57	LOT#240905-3.0
05/Sep/2024 17:09	LOT#240905-4.0
05/Sep/2024 17:21	LOT#240905-5.0
21/Sep/2024 08:34	WG1974654-5-6
21/Sep/2024 08:46	LOT#240916-C
21/Sep/2024 08:58	CVN
21/Sep/2024 09:10	LOT#240916-I
21/Sep/2024 09:22	CVN
21/Sep/2024 09:34	CVN
21/Sep/2024 09:46	LOT#240916-I
21/Sep/2024 09:58	CVN
21/Sep/2024 10:10	CVN
21/Sep/2024 10:22	CVN
21/Sep/2024 10:34	CVN
21/Sep/2024 10:47	CVN
21/Sep/2024 10:59	CVN
21/Sep/2024 11:11	LOT#240916-C
21/Sep/2024 11:23	CVN
21/Sep/2024 11:35	CVN
21/Sep/2024 11:47	CVN
21/Sep/2024 11:59	CVN
21/Sep/2024 12:11	CVN
21/Sep/2024 12:23	CVN
21/Sep/2024 12:35	CVN
21/Sep/2024 12:47	CVN
21/Sep/2024 13:00	CVN
21/Sep/2024 13:12	CVN
21/Sep/2024 13:24	CVN
21/Sep/2024 13:36	LOT#240916-C
21/Sep/2024 13:48	CVN
21/Sep/2024 14:00	CVN
21/Sep/2024 14:12	CVN
21/Sep/2024 14:24	CVN
21/Sep/2024 14:36	CVN
21/Sep/2024 14:48	CVN
21/Sep/2024 15:00	CVN
21/Sep/2024 15:12	CVN
21/Sep/2024 15:25	CVN
21/Sep/2024 15:37	CVN
21/Sep/2024 15:49	CVN
21/Sep/2024 16:01	LOT#240916-C

21/Sep/2024 16:13	CVN
21/Sep/2024 16:25	CVN
21/Sep/2024 16:37	LOT#240916-I
21/Sep/2024 16:49	CVN
21/Sep/2024 17:01	CVN
21/Sep/2024 17:13	CVN
21/Sep/2024 17:25	CVN
21/Sep/2024 17:38	CVN
21/Sep/2024 17:50	CVN
21/Sep/2024 18:02	CVN
21/Sep/2024 18:14	CVN
21/Sep/2024 18:26	LOT#240916-C
21/Sep/2024 18:38	CVN
21/Sep/2024 18:50	CVN
21/Sep/2024 19:02	CVN
21/Sep/2024 19:14	CVN
21/Sep/2024 19:26	CVN
21/Sep/2024 19:38	CVN
21/Sep/2024 19:50	CVN
21/Sep/2024 20:03	CVN
21/Sep/2024 20:15	CVN
21/Sep/2024 20:27	CVN
21/Sep/2024 20:39	CVN
21/Sep/2024 20:51	LOT#240916-C
21/Sep/2024 21:03	CVN
21/Sep/2024 21:15	CVN
21/Sep/2024 21:27	LOT#240916-I
21/Sep/2024 21:39	CVN
21/Sep/2024 21:51	CVN
21/Sep/2024 22:04	CVN
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453711-04		
Matrix Spike	: WG1974654-3	**MS Analysis Date**	: 09/21/24 18:02
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Bromide	0.121	0.4	0.414	74	Q					90-110	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/21/24 14:48
Dup Sample ID	: WG1974654-4	**DUP Analysis Date**	: 09/21/24 17:50

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	0.121	0.123	2	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454059
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974654-2	**LCS Analysis Date**	: 09/21/24 09:46
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Bromide	0.800	0.829	104.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

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

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$